STATE OF CALIFORNIA-BUSINESS, TRANSPORTATION AND HOUSING AGENCY GRAY DAVIS, Governor
DEPARTMENT OF TRANSPORTATION
ESC/OE MS #43
1727 30TH Street, 2ND Floor
Sacramento, CA 95816

July 20, 2000

04-CC,Mrn-580-6.1/7.8,0.0/2.6
04-0438U4
ACIM-580-2(041)3N

Addendum No. 9

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in CONTRA COSTA AND MARIN COUNTIES IN AND NEAR RICHMOND AND SAN RAFAEL FROM 1.7 MILES EAST TO 2.6 MILES WEST OF CONTRA COSTA/MARIN COUNTY LINE.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on August 8, 2000.

The Federal Project No. is revised from ACIM-580-2(041)N to ACIM-580-2(041)3N.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions, the Proposal and Contract, and the Federal Minimum Wages with Modification Numbers 6 dated 6-30-00. A copy of these wages are available on the Internet Site at http://www.dot.ca.gov/hq/esc/oe/project_status/afb.html.

Project Plan Sheets 1, 5, 140, 269, 589, 644, 645, 646, 647, 648, 649, 655, 657, 658, 659, 660, 661 and 1049 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Special Provisions, Section 2-1.01, "GENERAL," is revised as attached.

In the Special Provisions, Section 2-1.02B, "SUBMISSION OF DBE INFORMATION," is revised as attached.

In the Special Provisions, Section 2-1.06, "ESCROW OF BID DOCUMENTATION," the fourth paragraph is deleted which reads as follows:

> "The bidder shall include with the proposal, the identification of the bidder's representative authorized to present the bid documentation and the persons responsible for preparing the bidder's estimate."

In the Special Provisions, Section 5-1.17, "PARTNERING," is revised as attached.

In the Special Provisions, Section 5-1.22, "FORCE ACCOUNT PAYMENT," the third paragraph is revised to read as follows:

> "To the total of the direct costs for work performed on a force account basis, computed as provided in Sections 9-1.03A(1), "Labor," 9-1.03A(2), "Materials," and 9-1.03A(3), "Equipment Rental," of the Standard Specifications, there will be added a markup of 28 percent to the cost of labor, 10 percent to the cost of materials, and 10 percent to the equipment rental. These markups shall be applied to all work performed on a force account basis, regardless of whether the work revises the current contract completion date."

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In the Special Provisions, Section 5-1.22, "FORCE ACCOUNT PAYMENT," the fifth paragraph is revised to read as follows:

"When extra work to be paid for on a force account basis is performed by a subcontractor, approved in accordance with the provisions in Section 8-1.01, “Subcontracting,” of the Standard Specifications, an additional markup of 7 percent will be added to the total cost of said extra work including all markups specified in this section "Force Account Payment". Said additional 7 percent markup shall reimburse the Contractor for additional administrative costs, and no other additional payment will be made by reason of performance of the extra work by a subcontractor."

In the Special Provisions, Section 5-1.23, "OVERHEAD," the second sentence of the eighth paragraph is revised to read as follows:

"The amount earned per working day for time related overhead shall be the contract unit price for time related overhead, or 15 percent of the original contract amount divided by the number of working days specified in "Beginning of Work, Time of Completion and Liquidated Damages" of these special provisions, whichever is the lesser."

In the Special Provisions, Section 5-1.27, "RELATIONS WITH CALIFORNIA DEPARTMENT OF FISH AND GAME," the last sentence of the first paragraph is revised to read as follows:

"The Contractor shall fully inform himself of the requirements associated with these measures as well as all rules, regulations, including but not limited to Title 14, California Code of Regulations, Division 1, Subdivision 4, and conditions that may govern his operations in said area and shall conduct his operations accordingly."

In the Special Provisions, Section 5-1.32, "RELATIONS WITH SAN FRANCISCO BAY CONSERVATION DEVELOPMENT COMMISSION (BCDC)," the first and second paragraphs are revised as follows:

"Copies of the Permit and Permit Application are available for inspection at the Toll Bridge Program Duty Senior at District 04 Office, 111 Grand Avenue, Oakland, California 94612, telephone number (510) 286-5549, email address: duty _senior_ tollbridge_ district04@dot.ca.gov.

The Permit Application includes anticipated trestle and cofferdam locations and configurations from Piers 62 through 77, and Piers 71R through 77R. Any changes to the trestle or cofferdam locations and configurations shall require approval from BCDC. Any modifications to the permit which are proposed by the Contractor shall be submitted in writing to the Engineer for transmittal to the BCDC for their consideration. No additional time or compensation will be allowed for delays caused by the Contractor's proposed modifications to the agreement between the Department of Transportation and BCDC."

In the Special Provisions, Section 5-1.41, "DRAWINGS," is revised as attached.

In the Special Provisions, Section 5-1.45, "ESTABLISH MARINE ACCESS, " the seventh paragraph is revised to read as follows:

"The adjustment provisions in Section 4-1.03C, "Changes," of the Standard Specifications shall not apply to the contract lump sum price for establish marine access. Full compensation for damages due to delays shall be considered as included in the payments made in accordance with "Overhead" of

these special provisions and Section 8-1.09, "Right of Way Delays," of the Standard Specifications and no additional compensation will be allowed therefor."

In the Special Provisions, Section 10-1.03, "WATER POLLUTION CONTROL," the list of items in "NON-STORM AND WASTE MANAGEMENT CONTROLS," in the table titled, "WATER POLLUTION CONTROL SCHEDULE OF VALUES" is revised as attached.

In the Special Provisions, Section 10-1.11, "COOPERATION," the fourth paragraph is revised to read as follows:

"The Contractor's operation shall be subject to coordination with the work conducted by the State's contractors for the San Francisco-Oakland Bay Bridge projects starting in the year 2000 regarding the anticipated bridge deck closures on various occasions. Attention is directed to Section "Maintaining Traffic" in these special provisions."

In the Special Provisions, Section 10-1.13, "PROGRESS SCHEDULE (CRITICAL PATH)," is revised as attached.

In the Special Provisions, Section 10-1.20, "MAINTAINING TRAFFIC," the twelfth paragraph is revised to read as follows:

"One bridge deck may be closed to traffic during the hours indicated on the lane closure charts included in this section "Maintaining Traffic". When one bridge deck is closed, the other bridge deck shall remain open for use as two-way public traffic, with one lane in each direction of travel. Attention is directed to the section entitled "Cooperation" elsewhere in these special provisions regarding the closure of the decks of the San Francisco-Oakland Bay Bridge starting in the year 2000. No deck closures will be allowed when either deck of the San Francisco-Oakland Bay Bridge is closed."

In the Special Provisions, Section 10-1.20, "MAINTAINING TRAFFIC," the "REMARKS" section of CHART NO. 3 is revised to read as follows:

"REMARKS: Chart No. 3 is applicable for single deck closure only. No deck closures will be allowed on the Richmond-San Rafael Bridge on the occasions when either deck of the San Francisco-Oakland Bay Bridge is closed. Attention is directed to Section "Cooperation" in these special provisions."

In the Special Provisions, Section 10-1.21, "TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE," subsection, "STATIONARY TYPE LANE CLOSURE," the following paragraph is added:

"The traffic control system during the installation and removal of stationary type lane closures shall conform to the "Moving Type Lane Closure" as specified herein and as shown on the project plans."

In the Special Provisions, Section 10-1.31K, "REMOVE ASPHALT CONCRETE, CONCRETE AND SLOPE PROTECTION MATERIAL," is revised as attached.

In the Special Provisions, Section 10-1.31L, "RELOCATE AND RECONSTRUCT WATER LINES AND AIR LINES," is deleted.

In the Special Provisions, Section 10-1.31M, "REMOVE WATER LINES AND AIR LINES," is deleted.

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In the Special Provisions, Section 10-1.33, "EARTHWORK" including the table titled "SOIL ANALYTICAL RESULTS-Richmond San Rafael Bridge-Seismic Retrofit Project," are revised as attached.

In the Special Provisions, Section 10-1.33A, "DREDGING," the first sentence of the first paragraph is revised to read as follows:

"All material, including bay sediment, gravel, and rock material resulting from Cast In Drilled Hole (CIDH) pile, Cast In Steel Shell (CISS) pile, test boring, micropile, structure excavation (Type D), structure excavation (Type AH), structure excavation (Type ANH), structure excavation (Type DH), structure excavation (Type DNH), and access, over-excavation, and maintenance dredging operations, located either (1) within the steel shells and rock sockets of CIDH piling, (2) within the steel shells at CISS piling, (3) at the test bores, (4) within the steel shells and rock sockets at micropiles, (5) at Pier locations requiring structure excavation (Type D), (6) within the sealed cofferdam areas, and (7) barge access dredging within the locations described below, shall be considered dredging in these special provisions and under the terms of the various permits obtained by the Department."

In the Special Provisions, Section 10-1.33A, "DREDGING," subsection, "Upland Disposal," item "j" is revised as follows:

"j. Excavation material at piers designated as structure excavation (Type AH), structure excavation (Type ANH), structure excavation (Type DH), and structure excavation (Type DNH)."

In the Special Provisions, Section 10-1.33A, "DREDGING," the subsection, "Measurement and Payment," is revised to read as follows:

"**Measurement and Payment:** Structure excavation (Type D), structure excavation (Type AH), structure excavation (Type ANH), structure excavation (Type DH), and structure excavation (Type DNH) will be measured in accordance with Section 19-3.07, “Measurement,” of the Standard Specifications.

Full compensation for all dredging, Dredging Operation Plan preparation and updating; preparing and implementing Solid Debris Management Plan; overflow and leakage monitoring; performing control and monitoring surveys; transporting and disposal of all dredged material to upland and aquatic disposal sites, preparation of disposal site verification logs; and performing hydrographic surveys including data collection and preparation of drawings, cross-sections and calculations shall be considered as included in the contract prices paid per cubic yard for structure excavation (Type D), structure excavation (Type AH), structure excavation (Type ANH), structure excavation (Type DH), and structure excavation (Type DNH), and no additional compensation will be allowed therefor."

In the Special Provisions, Section 10-1.34, "EROSION CONTROL (TYPE D)," the first sentence of the second paragraph is revised to read as follows:

"Erosion control work shall consist of applying 3 separate applications of erosion control materials to all vegetated areas disturbed by Contractor operations, including but not limited to embankment slopes, excavation slopes, and other areas designated by the Engineer."

In the Special Provisions, Section 10-1A.08 "PILING," subsection, "CAST-IN-PLACE CONCRETE PILING," under "**Materials**," the following paragraph is added after the eleventh paragraph:

"A set-retarding admixture shall be used to delay the set of concrete placed by tremie until after the final load of concrete is placed at a pile, unless approved otherwise by the Engineer."

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In the Special Provisions, Section 10-1A.08, "PILING," subsection, "CAST-IN -PLACE CONCRETE PILING," under "**Construction**," item no. four of the first paragraph is revised as follows:

"4. Placing, positioning and supporting bar reinforcement to ensure that reinforcement is not displaced by concrete placement."

In the Special Provisions, Section 10-1A.08, "PILING," subsection, "CAST-PLACE CONCRETE PILING," under "**Construction**," the second paragraph is revised to read as follows:

"In addition to compressive strength requirements, the consistency and cohesiveness of the concrete to be deposited under slurry shall be verified before use by producing a batch to be tested. The test batch shall be a minimum of 4 cubic yards, batched and mixed with the same or similar equipment and procedures as planned for the permanent concrete piling. The test batch shall be produced and delivered to the project under conditions and in time periods similar to those expected during the placement of concrete in the piles. Concrete for the test batch shall be placed in an excavated hole or suitable container of adequate size to allow testing in conformance with California Test 533. Depositing of test batch concrete under slurry will not be required. The test batch shall demonstrate that the proposed concrete mix design achieves both the specified nominal penetration and a penetration of at least 2 inches after the amount of time required for each concrete placing operation at each pile, as submitted in the placing plan, plus two hours, has elapsed. To achieve the specified penetration a Type B retarding admixture may be required. The time period shall begin at the start of placement. The concrete shall not be vibrated or agitated during the test period. Upon completion of testing, the concrete shall be disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

In the Special Provisions, Section 10-1A.08, "PILING," subsection, "CAST-IN -PLACE CONCRETE PILING," the section, "**Placing Reinforcement**" is revised to read as follows:

"**Placing Reinforcement**. - -Reinforcement shall be placed and secured symmetrically about the axis of the pile and shall be securely blocked to clear the sides of the steel shell and rock socket. The Contractor's attention is directed to the need for special reinforcing ties or other devices needed to hold the vertically bundled bars in the required position shown on the plans. Attention is also directed to the need to prevent upward movement of reinforcement in the cast-in-drilled hole concrete piling caused by the upward flow of tremie placed concrete. The Contractor shall provide a monitoring device, such as a wire or cable telltale attached to the reinforcement and extending to the top of the steel shell, or other device approved by the Engineer, which will detect any upward movement. When provided, vertical inspection pipes attached to the reinforcement may be used to monitor upward movement of reinforcement in the pile. If movement is noted, concrete placing procedures, such as depth of tremie pipe or rate of placement, shall be adjusted before additional concrete is placed. If after placement of the reinforcement and prior to placing concrete, caving occurs, or deteriorated foundation material accumulates on the bottom of the hole or drill cuttings settle out of the slurry, as determined by the Engineer, the reinforcement shall be removed and the bottom of the drilled hole re-cleaned."

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In the Special Provisions, Section 10-1A.08 "PILING," subsection, "MICROPILING," under "**Working Drawings**," the following information is added to the third paragraph:

"14. Equipment and step-by-step procedures describing how cores through the existing foundation bells are to be accurately located in relation to the existing H-piles. As a minimum, the following shall be provided: Sketch showing the proposed method and equipment required to accurately relate, through measurements, the location of the cored holes to the orientation of the existing concrete template and the location of the existing H-piles."

In the Special Provisions, Section 10-1A.12, "PRECAST CONCRETE PILE CAP ASSEMBLY," subsection, "**Construction Sequence**," the fourth sentence of the tenth paragraph is revised to read as follows:

"The delivery tube system shall consist of tremie tube or tubes which are at least 6 inches in diameter fed by a suitable size funnel or hopper to facilitate the transfer of sufficient concrete to the tremie."

In the Special Provisions, Section 10-1A.14, "PRECAST CONCRETE JACKET ASSEMBLY," subsection, "**Submittals**," the following item is added to the first paragraph:

"4. Documentation verifying that the construction tolerances shown on the contract plans between the precast jackets and the existing concrete pier provide sufficient erection clearance. The following documentation shall be provided as a minimum for each pier: Layout showing a plan view of the as-built dimensions of both the bottom and the top of the pier shafts and their location in relation to each other. Out-of –roundness of the pier shafts shall be considered when establishing these dimensions. The plan view layout shall show the precast jackets superimposed on top of the existing pier. The minimum horizontal clearance between the existing pier and the precast jackets shall be identified. Documentation shall include description of methodology and equipment used to obtain as-built dimensions."

In the Special Provisions, Section 10-1A.20, "REINFORCEMENT," the subsection, "ULTIMATE BUTT SPLICES (SUBSTRUCTURE)," is added to the end of the section and is attached.

In the Special Provisions, Section 10-1A.24, "STEEL STRUCTURES," subsection, "MATERIALS," the following paragraph is added after the third paragraph:

"The sixth paragraph in Section 55-2.01, “Description,” of the Standard Specifications is amended to read:

Charpy V-notch (CVN) impact values shall conform to the following minimum values for non-fracture critical members:

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Material Conforming to ASTM Designation: A 709/A 709M	CVN Impact Value (Ft. Lbs. at Temp.)
Grade 36	15 at 40°F
Grade 50* (2" and under in thickness)	15 at 40°F
Grade 50W* (2" and under in thickness)	15 at 40°F
Grade 50* (Over 2" to 4" in thickness)	20 at 40°F
Grade 50W* (Over 2" to 4" in thickness)	20 at 40°F
Grade 100 (2 1/2" and under in thickness)	25 at 0°F
Grade 100W (Over 2 1/2" to 4" in thickness)	35 at 0°F

* If the yield point of the material exceeds 65,000 psi, the temperature for the CVN impact value for acceptability shall be reduced 15°F for each increment of 10,000 psi above 65,000 psi."

In the Special Provisions, Section 10-1A.24, "STEEL STRUCTURES," subsection, "MEASUREMENT AND PAYMENT," the second paragraph is revised to read as follows:

"The sixth paragraph in Section 55-4.02, "Payment," of the Standard Specification is amended to read:

If a portion or all of the structural steel and/or fasteners is fabricated more than 300 air line miles from both Sacramento and Los Angeles, additional shop inspection expenses will be sustained by the State. Whereas it is and will be impracticable and extremely difficult to ascertain and determine the actual increase in such expenses, it is agreed that payment to the Contractor for furnishing said structural steel from each fabrication site located more than 300 air line miles from both Sacramento and Los Angeles will be reduced $5,000 or by an amount computed at $0.020 per pound of structural steel fabricated, whichever is greater, or in the case of each fabrication site located more than 3,000 air line miles from both Sacramento and Los Angeles, payment will be reduced $8,000 or by $0.036 per pound of structural steel fabricated, whichever is greater."

In the Special Provisions, Section 10-1A.28, "CLEAN AND PAINT STRUCTURAL STEEL," is revised as attached.

In the Special Provisions, Section 10-1B.05,"PILING," subsection, "CAST-IN DRILLED-HOLE CONCRETE PILING," under "**Construction**," requirement no. four in the first paragraph is revised to read as follows:

"4. Placing, positioning and supporting bar reinforcement ensuring that reinforcement is not displaced by concrete placement."

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In the Special Provisions, Section 10-1B.05,"PILING," subsection, "CAST-IN DRILLED-HOLE CONCRETE PILING," under "**Construction**," the second paragraph is revised to read as follows:

"In addition to compressive strength requirements, the consistency and cohesiveness of the concrete to be deposited under slurry shall be verified before use by producing a batch to be tested. The test batch shall be a minimum of 4 cubic yards, batched and mixed with the same or similar equipment and procedures as planned for the permanent concrete piling. The test batch shall be produced and delivered to the project under conditions and in time periods similar to those expected during the placement of concrete in the piles. Concrete for the test batch shall be placed in an excavated hole or suitable container of adequate size to allow testing in conformance with California Test 533. Depositing of test batch concrete under slurry will not be required. The test batch shall demonstrate that the proposed concrete mix design achieves both the specified nominal penetration and a penetration of at least 2 inches after the amount of time required for each concrete placing operation at each pile, as submitted in the placing plan, plus two hours, has elapsed. To achieve the specified penetration a Type B retarding admixture may be required. The time period shall begin at the start of placement. The concrete shall not be vibrated or agitated during the test period. Upon completion of testing, the concrete shall be disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications."

In the Special Provisions, Section 10-1B.05,"PILING," subsection, "CAST-IN DRILLED-HOLE CONCRETE PILING," under "**Construction**," procedure no. five in the third paragraph is revised to read as follows:

"5. Place reinforcement below specified construction joint as shown on the plans.--Reinforcement shall be placed and secured symmetrically about the axis of the pile and shall be securely blocked to clear the sides of the steel casing and rock socket. The Contractor’s attention is directed to the need for special reinforcing ties or other devices needed to hold the vertically bundled bars in the required position shown on the plans. Attention is also directed to the need to prevent upward movement of reinforcement in the cast-in-drilled hole concrete pile caused by the upward flow of tremie placed concrete. The Contractor shall provide a monitoring device, such as a wire or cable telltale attached to the reinforcement and extending to the top of the steel shell, or other device approved by the Engineer, which will detect any upward movement. When provided, vertical inspection pipes attached to the reinforcement may be used to monitor upward movement of reinforcement in the pile. If movement is noted, concrete placing procedures, such as depth of tremie pipe or rate of placement, shall be adjusted before additional concrete is placed. If after placement of the reinforcement and prior to placing concrete, caving occurs, or deteriorated foundation material accumulates on the bottom of the hole or drill cuttings settle out of the slurry, as determined by the Engineer, the reinforcement shall be removed and the bottom of the drilled hole recleaned. Install inspection pipes in accordance with the provisions for “Inspection Pipes” elsewhere in these special provisions."

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In the Special Provisions, Section 10-1B.14, "PRECAST CONCRETE PANEL," subsection, "**Submittals,**" item no. four is added as follows:

"4. Documentation verifying that the construction tolerances shown on the contract plans between the precast jackets and the existing concrete pier provide sufficient erection clearance. The following documentation shall be provided as a minimum for each pier: Layout showing a plan view of the as-built dimensions of both the bottom and the top of the pier shafts and their location in relation to each other. Out-of –roundness of the pier shafts shall be considered when establishing these dimensions. The plan view layout shall show the precast jackets superimposed on top of the existing pier. The minimum horizontal clearance between the existing pier and the precast jackets shall be identified. Documentation shall include description of methodology and equipment used to obtain as-built dimensions."

In the Special Provisions, Section 10-1B.24, "SEISMIC ISOLATION BEARINGS," the fourth paragraph is revised as follows:

"The proposed seismic isolation bearing shall be selected from the following list:

SEISMIC ISOLATION BEARING SYSTEMS	**MANUFACTURER ADDRESS AND PHONE NUMBER**
LEAD CORE/RUBBER	Dynamic Isolation System Inc. 3470 Mt. Diablo Blvd., Suite A200 Lafayette, CA 94549 Ph: (510) 283-1166 Fax:(510) 283-4307 Skellerup Oiles Seismic Protection. L.L.C. 13350 Gregg Street, Suite 107 Poway, CA 92064 Ph: (619) 513-6490 Fax:(619) 513-6495 Seismic Energy Products, L.P. 2447 Santa Clara Avenue, Suite 301 Alameda, CA 94501 Ph: (510) 749-1320 Fax: (510) 749-1363

In the Special Provisions, Section 10-1B.24, "SEISMIC ISOLATION BEARINGS," subsection, "WORKING DRAWINGS," items 1 and 2 in the twelfth paragraph regarding supplemental calculations to the working drawings are revised as follows:

"1. Complete calculations demonstrating compliance with all requirements of these special provisions, the Seismic Isolation Bearing Performance Criteria Table shown on the plans, and the AASHTO Guide Specifications for Seismic Isolation Design (1991).

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2. A proposed fully-defined hysteresis loop for each bearing type that includes, as a minimum, the initial bearing stiffness, bearing yield force and yield displacement, post-elastic stiffness, maximum seismic lateral displacement, maximum seismic lateral force transmitted through the bearing, anticipated energy dissipated per cycle at the maximum seismic lateral displacement, all at the period of vibration shown on the plans under the maximum and minimum anticipated axial loads. The maximum anticipated axial load shall be taken as the maximum dead load plus maximum seismic live load plus maximum seismic overturning force; the minimum anticipated axial load shall be equal to the maximum dead load minus the maximum seismic overturning force."

In the Special Provisions, Section 10-1B.24, "SEISMIC ISOLATION BEARINGS," subsection, "DESIGN REQUIREMENTS," the following sentence is added to fourth paragraph:

"At the Contractor's option, a different elastomer may be used for the side cover provided it meets the requirements of these special provisions."

In the Special Provisions, Section 10-1B.24, "SEISMIC ISOLATION BEARINGS," subsection, "MATERIALS," in the table included in the eleventh paragraph, the "TEST" description, "Rubber-to-Metal Tear Strength," is revised to read, "Tear Strength".

In the Special Provisions, Section 10-1B.24, "SEISMIC ISOLATION BEARINGS," subsections, "TESTING," "PROTOTYPE TESTING," and "PROOF TESTING" are revised as attached.

In the Special Provisions, Section 10-1B.24, "SEISMIC ISOLATION BEARINGS," subsection, "TEST SUBMITTALS," the fourth paragraph is revised to read as follows:

"Seismic isolation bearings shall be assembled at the factory and suitable temporary assembly ties shall be provided so that the entire assembly is shipped as a unit and remains intact when uncrated and installed. Seismic isolation bearings shall be delivered to the SRMD facility and to the job site in protective packaging for freight and handling purposes. Any damaged seismic isolation bearings shall be replaced by new seismic isolation bearings of the same type as determined by the Engineer. The manufacturer shall provide written handling, lifting and installation instructions for the seismic isolation devices."

In the Special Provisions, Section 10-1B.24, "SEISMIC ISOLATION BEARINGS," subsection, "MEASUREMENT AND PAYMENT," the third and fourth paragraphs are revised to read as follows:

"The cost of the adapter plates to accommodate the SRMD test apparatus shall be considered as included in the contract price paid per unit for seismic isolation bearings and no separate payment will be made therefor.

Any seismic isolation bearing that fails to meet any of these specifications shall be re-designed and re-tested at no cost to the State. The Contractor shall be responsible for all costs associated with manufacturing, shipping, storing and testing if any re-testing should be required. Payment to the Contractor for seismic isolation bearings shall be reduced $5,400.00 for each prototype re-tested."

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In the Special Provisions, Section 10-1B.24, "SEISMIC ISOLATION BEARINGS," subsection, "MEASUREMENT AND PAYMENT," the eighth paragraph is revised to read as follows:

> "If a portion or all of seismic isolation bearings are manufactured and/or proof tested at a site more than 100 miles from Sacramento additional shop inspection expenses will be sustained by the State. Payment to the Contractor for seismic isolation bearings will be reduced by $5,000 for each manufacturing and/or proof testing site located more than 100 miles from Sacramento, or in the case of each manufacturing and/or proof testing site located more than 1,000 miles from Sacramento, payment will be reduced by $12,000."

In the Special Provisions, Section 10-1B.27, "VISCOUS DAMPING DEVICES," subsection, "WORKING DRAWINGS," the following paragraph is added after the third paragraph:

> "The working drawings shall include details of the supporting frames and adapter plates used to attach the dampers to the test apparatus for the prototype and proof tests."

In the Special Provisions, Section 10-1B.27, "VISCOUS DAMPING DEVICES," subsection, "TESTING," the third and fourth paragraphs are revised to read as follows:

> "The Contractor shall coordinate with the SRMD facility for the design and manufacturing of the supporting frames and adapter plates to be used to attach the dampers to the test apparatus. After testing, all supporting frames and adapter plates will become the property of the State.
>
> The Contractor shall coordinate with the SRMD facility specifying the quantity of dampers needed at pre-set times to meet the construction schedules. Testing will not be scheduled at the SRMD facility until after 12 months after contract award."

In the Special Provisions, Section 10-1B.27, "VISCOUS DAMPING DEVICES," subsections, "PROTOTYPE TESTS" and "PROOF (PRODUCTION) TESTS" are revised as attached.

In the Special Provisions, Section 10-1B.27, "VISCOUS DAMPING DEVICES," subsection, "MEASUREMENT AND PAYMENT," the fifth paragraph is revised to read as follows:

> "The cost of all supporting frames and adapter plates to accommodate the SRMD test apparatus shall be considered as included in the contract unit price paid for viscous damping device involved and no additional compensation will be allowed therefor."

In the Special Provisions, Section 10-1B.27, "VISCOUS DAMPING DEVICES," subsection, "MEASUREMENT AND PAYMENT," the following paragraph is added after the fifth paragraph:

> "Full compensation for the Proof Test 1 to be performed by the manufacturer at their facility prior to shipment shall be considered as included in the contract price paid for viscous damping device involved and no additional compensation will be allowed therefore."

In the Special Provisions, Section 10-1B.29, "REINFORCEMENT," the subsection, "ULTIMATE BUTT SPLICES (SUPERSTRUCTURE)," is added to the end of the section and is attached.

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In the Special Provisions, Section 10-1B.33 "STEEL STRUCTURES," subsection, "MATERIALS," the following paragraph is added after the third paragraph:

"The sixth paragraph in Section 55-2.01, “Description,” of the Standard Specifications is amended to read:

Charpy V-notch (CVN) impact values shall conform to the following minimum values for non-fracture critical members:

Material Conforming to ASTM Designation: A 709/A 709M	CVN Impact Value (Ft. Lbs. at Temp.)
Grade 36	15 at 40°F
Grade 50* (2” and under in thickness)	15 at 40°F
Grade 50W* (2” and under in thickness)	15 at 40°F
Grade 50* (Over 2” to 4” in thickness)	20 at 40°F
Grade 50W* (Over 2” to 4” in thickness)	20 at 40°F
Grade 100 (2 1/2” and under in thickness)	25 at 0°F
Grade 100W (Over 2 1/2” to 4” in thickness)	35 at 0°F

* If the yield point of the material exceeds 65,000 psi, the temperature for the CVN impact value for acceptability shall be reduced 15°F for each increment of 10,000 psi above 65,000 psi."

In the Special Provisions, Section 10-1B.33, "STEEL STRUCTURES," subsection, "MEASUREMENT AND PAYMENT," the second paragraph is revised to read as follows:

"The sixth paragraph in Section 55-4.02, "Payment," of the Standard Specification is amended to read:

If a portion or all of the structural steel and/or fasteners is fabricated more than 300 air line miles from both Sacramento and Los Angeles, additional shop inspection expenses will be sustained by the State. Whereas it is and will be impracticable and extremely difficult to ascertain and determine the actual increase in such expenses, it is agreed that payment to the Contractor for furnishing said structural steel from each fabrication site located more than 300 air line miles from both Sacramento and Los Angeles will be reduced $5,000 or by an amount computed at $0.020 per pound of structural steel fabricated, whichever is greater, or in the case of each fabrication site located more than 3,000 air line miles from both Sacramento and Los Angeles, payment will be reduced $8,000 or by $0.036 per pound of structural steel fabricated, whichever is greater."

In the Special Provisions, Section 10-1B.36, "CLEAN AND PAINT STRUCTURAL STEEL," is revised as attached.

04-CC,Mrn-580-6.1/7.8,0.0/2.6
04-0438U4
ACIM-580-2(041)3N

In the Special Provisions, Section 10-1B.37, "TRAVELING MAINTENANCE SCAFFOLDS," subsection, "MEASUREMENT AND PAYMENT," the fourth paragraph is revised to read as follows:

"The sixth paragraph in Section 55-4.02, "Payment," of the Standard Specification is amended to read:

If a portion or all of the structural steel and/or fasteners for traveling maintenance scaffolds or structural steel (rail lowering) is fabricated more than 300 air line miles from both Sacramento and Los Angeles, additional shop inspection expenses will be sustained by the State. Whereas it is and will be impracticable and extremely difficult to ascertain and determine the actual increase in such expenses, it is agreed that payment to the Contractor for furnish structural steel (rail lowering) or traveling maintenance scaffold, whichever is applicable, for furnishing said structural steel from each fabrication site located more than 300 air line miles from both Sacramento and Los Angeles will be reduced $5,000 or by an amount computed at $0.020 per pound of structural steel fabricated, whichever is greater, or in the case of each fabrication site located more than 3,000 air line miles from both Sacramento and Los Angeles, payment for furnish structural steel (rail lowering) or traveling maintenance scaffold, whichever is applicable, will be reduced $8,000 or by $0.036 per pound of structural steel fabricated, whichever is greater."

In the Special Provisions, Section 10-3B.03, "PRODUCTS ANS EXECUTION," subsection, "MISCELLANEOUS METAL," the following sentence is added to the end of the first paragraph:

"Powder actuated fastening devices are prohibited from use."

In the Special Provisions, Section 10-3C.06, "PRODUCTS AND EXECUTION," the following subsection is added before subsection, "FIELD TESTING":

"**MISCELLANEOUS METAL. - -**Unistruts, clamps, fasteners, bolts, screws, nuts, threaded rods, and anchor bolts shall be Type 316 stainless steel conforming to the requirements in ASTM Designation F 593 or F 738 M. Washers shall be Type 316 stainless steel conforming to the requirements in ASTM Designation A 240 and ANSI B 18.22M. Powder actuated fastening devices are prohibited from use."

In the Special Provisions, Section 10-4.02, "PIPE, FITTINGS AND VALVES," subsection, "HANGER AND SUPPORTS," the following sentence is added to the end of the first paragraph:

"Powder actuated fastening devices are prohibited from use."

In the Special Provisions, Section 10-4.05, "RELOCATE AND RECONSTRUCT WATER LINES AND AIR LINES," first paragraph, the following existing water line and air line facilities to be temporarily relocated are added:

"Water lines serving hose stations for vehicle fire and pavement washdown emergencies (8” and smaller Schedule 40 steel pipes).
Air lines serving ongoing bridge painting operations (4” and smaller Schedule 40 steel pipes)."

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ACIM-580-2(041)3N

In the Special Provisions, Section 10-4.06, "REMOVE WATER LINES AND AIR LINES," the first, second and third paragraphs are replaced with the following paragraph:

> "Existing abandoned water lines and air lines shown on the plans that are in the way of or obstructing the structural work shall be removed and disposed of. Removal of existing water lines and air lines shall include the removal of existing anchors, hangers, and supports. Existing water lines and air lines shall not be removed until the new or temporary water lines and air lines facilities are completed and in operation. The ends of the pipelines shall be securely closed by a watertight fitting plug. Plugs shall consist of material that is compatible with the existing facility. Exact limits of removal will be determined by the Engineer."

In the Proposal and Contract, the Engineer's Estimate Items 72, 149 and 150 are revised, Items 206, 207 and 208 are added and Items 38, 39, 148 and 205 are deleted as attached.

To Proposal and Contract book holders:

REPLACE PAGES 4, 6, 10 AND 13 OF THE ENGINEER'S ESTIMATE IN THE PROPOSAL WITH THE ATTACHED REVISED PAGES 4, 6, 10 AND 13 OF THE ENGINEER'S ESTIMATE. THE REVISED ENGINEER'S ESTIMATE IS TO BE USED IN THE BID.

INDICATE RECEIPT OF THIS ADDENDUM BY FILLING IN THE NUMBER OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE SIGNATURE PAGE OF THE PROPOSAL.

SUBMIT BIDS IN THE PROPOSAL AND CONTRACT BOOK YOU NOW POSSESS. HOLDERS WHO HAVE ALREADY MAILED THEIR BOOK WILL BE CONTACTED TO ARRANGE FOR THE RETURN OF THEIR BOOK.

INFORM SUBCONTRACTORS AND SUPPLIERS AS NECESSARY.

This office is sending this addendum by UPS overnight mail to Proposal and Contract book holders to ensure that each receives it.

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

NICK YAMBAO, Chief
Office of Plans, Specifications & Estimates
Division of Office Engineer

Attachments

2-1.01 GENERAL

The bidder's attention is directed to the provisions in Section 2, "Proposal Requirements and Conditions," of the Standard Specifications and these special provisions for the requirements and conditions which the bidder must observe in the preparation of the Proposal form and the submission of the bid.

In addition to the subcontractors required to be listed in conformance with Section 2-1.054, "Required Listing of Proposed Subcontractors," of the Standard Specifications, each proposal shall have listed therein the portion of work that will be performed by each subcontractor listed.

The Bidder's Bond form mentioned in the last paragraph in Section 2-1.07, "Proposal Guaranty," of the Standard Specifications will be found following the signature page of the Proposal.

If the Bidder submits cash or a cashier's check or a certified check as the form of bidder's security (See Section 2-1.07 of the Standard Specifications), the Bidder shall also include with the bid submittal a signed and notarized affidavit from an admitted surety insurer that contract bonds, as required by Section 3-1.02, "Contract Bonds," of the Standard Specifications, will be provided within the time specified elsewhere in these special provisions for executing and returning the contract for approval.

Submit request for substitution of an "or equal" item, and the data substantiating the request to the Department of Transportation, Division Of Construction - Duty Senior, Mail Station: 3 - B, 111 Grand Avenue / P. O. Box 23660, Oakland, Ca 94623-0660, so that the request is received by the Department by close of business on the fourth day, not including Saturdays, Sundays and legal holidays, following bid opening.

In conformance with Public Contract Code Section 7106, a Noncollusion Affidavit is included in the Proposal. Signing the Proposal shall also constitute signature of the Noncollusion Affidavit.

If the bidder claims a mistake was made in his bid, the bidder shall give the Department written notice within 48-hours, not including Saturdays, Sundays and legal holidays, after the opening of bids of the alleged mistake, in lieu of the 5 days specified in Section 2-1.095, "Relief of Bidders," in the Standard Specifications. The notice of alleged mistake shall specify in detail how the mistake occurred.

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

2-1.02B SUBMISSION OF DBE INFORMATION

The required DBE information shall be submitted WITH THE BID on the "CALTRANS BIDDER - DBE INFORMATION" and "TELEPHONE LOG AND LIST OF REJECTED DBEs" forms included in the Proposal.

It is the bidder's responsibility to make enough work available to DBEs and to select those portions of the work or material needs consistent with the available DBEs to meet the goal for DBE participation or to provide information to establish that, prior to bidding, the bidder made adequate good faith efforts to do so.

The bidder's DBE information shall establish that good faith efforts to meet the DBE goal have been made. To establish good faith efforts, the bidder shall demonstrate that the goal will be met or that, prior to bidding, adequate good faith efforts to meet the goal were made.

Bidders are cautioned that even though their submittal indicates they will meet the stated DBE goal, their submittal should also include their adequate good faith efforts information along with their DBE goal information to protect their eligibility for award of the contract in the event the Department, in its review, finds that the goal has not been met.

The bidder's DBE information shall include the names, addresses and phone numbers of DBE firms that will participate, with a complete description of work or supplies to be provided by each, the dollar value of each DBE transaction, and a written confirmation from the DBE that it is participating in the contract. A copy of the DBE's quote will serve as written confirmation that the DBE is participating in the contract. When 100 percent of a contract item of work is not to be performed or furnished by a DBE, a description of the exact portion of that work to be performed or furnished by that DBE shall be included in the DBE information, including the planned location of that work. The work that a DBE prime contractor has committed to performing with its own forces as well as the work that it has committed to be performed by DBE subcontractors, suppliers and trucking companies will count toward the goal.

The information necessary to establish the bidder's adequate good faith efforts to meet the DBE goal shall be included in the "TELEPHONE LOG AND LIST OF REJECTED DBEs" form located in the Proposal and should include:

A. The names, dates and times of notices of all certified DBEs solicited by telephone for this project and the dates, times and methods used for following up initial solicitations to determine with certainty whether the DBEs were interested.
B. The names of DBEs who submitted bids which were not accepted and the reason for rejection of the DBE's bid.

It is the bidder's responsibility to be available, by phone, the day after the bid opening to answer questions and provide good faith effort clarification. The bidder shall also assure that listed DBEs are available, by phone, on the day after the bid opening.

If it is found that the goal has not been met, the Department will review the information submitted with the bid to determine the bidder’s good faith effort. In the event that the Department determines that a bidder has not made a good faith effort based on the information submitted with the bid and its independent investigation, the Department’s decision will be final.

5–1.17 PARTNERING

The State will promote the formation of a "Partnering" relationship with the Contractor in order to effectively complete the contract to the benefit of both parties. The purpose of this relationship will be to maintain cooperative communication and mutually resolve conflicts at the lowest responsible management level.

A one-day "Training in Partnering Concepts" session will be conducted regardless of whether the Contractor requests the formation of a "Partnering" relationship. The training session will be conducted locally for the Contractor and the Engineer's project representatives. The Contractor shall be represented by a minimum of 2 representatives, one being the Contractor's authorized representative pursuant to Section 5-1.06, "Superintendence," of the Standard Specifications. If, upon the Contractor's request, "Partnering" is approved by the Engineer, "Training in Partnering Concepts" will be conducted prior to the "Partnering Workshop." Scheduling of the "Training in Partnering Concepts" session and selection of the trainer and training site shall be determined cooperatively by the Contractor and the Engineer.

The Contractor may request the formation of a "Partnering" relationship by submitting a request in writing to the Engineer after approval of the contract. If the Contractor's request for "Partnering" is approved by the Engineer, scheduling of a "Partnering Workshop," selecting the "Partnering" facilitator and workshop site, and other administrative details shall be as agreed to by both parties. If agreed to by the parties, additional “Partnering Workshops” will be conducted as needed throughout the life of the contract.

The costs involved in providing the trainer and training site for the "Training in Partnering Concepts" session will be borne by the State. The Contractor shall pay all compensation for the wages and expenses of the trainer and for the expenses of obtaining the training site. The State will reimburse the Contractor for these costs as extra work in conformance with the provisions in Section 4-1.03D of the Standard Specifications. Full compensation for the wages and expenses of the Contractor's representatives, including travel costs, shall be considered as included in the contract prices paid for the various items of work and no additional compensation will be allowed therefor.

The costs involved in providing the "Partnering Workshop" facilitator and workshop site will be borne equally by the State and the Contractor. The Contractor shall pay all compensation for the wages and expenses of the facilitator and for the expenses of obtaining the workshop site. The State's share of these costs will be reimbursed to the Contractor in a contract change order.

Markups will not be added to the costs of providing the "Training in Partnering Concepts" trainer and site or to the costs of providing a "Partnering Workshop" facilitator and workshop site. All other costs associated with the "Partnering" relationship will be borne separately by the party incurring the costs.

The establishment of a "Partnering" relationship will not change or modify the terms and conditions of the contract and will not relieve either party of the legal requirements of the contract.

5-1.41 DRAWINGS

Attention is directed to Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications and these special provisions.

When working drawings are required by the Standard Specifications or these special provisions, the drawings shall be submitted in accordance with the provisions in Section 55-1.02, "Drawings," of the Standard Specifications and the following:

1. Working drawings shall be submitted to the Engineer at Office of the Resident Engineer, Department of Transportation, 995 Western Drive, Richmond, CA 94801.
2. Working drawings shall not exceed 22" x 34" in size.
3. Microfilms are required of all approved shop drawings and shall be only a 24x reduction.
4. All working drawing submittals, including re-submittals, shall include electronic versions of the working drawings in Microstation 95 or a more current design file format. All other information accompanying the working drawings shall be submitted in Adobe Acrobat Version 3.0 or later file format. This information shall be submitted on a compact disk media compatible with the Microsoft Windows Operating System. The diskette shall include both as a file and cover jacket a list of the files on the disk and for what they are being submitted.

Attention is directed to the Engineer's review time of working drawings, as specified elsewhere in these special provisions. The time to be provided for the Engineer's review of Structural Steel working drawings shall be 6 weeks. The time to be provided for the Engineer's review of all other working drawings shall be 4 weeks unless otherwise specified in the Standard Specifications or these special provisions.

Said Engineer's review time is for the initial working drawing submittal. The Contractor shall allow additional time as specified herein for the Engineer's review of working drawing re-submittal and simultaneous submittals.

The Contractor shall incorporate two activities for each submittal within the CPM Schedule required in the section entitled "Progress Schedule (Critical Path)" elsewhere in these special provisions. The two submittal activities shall be the initial working drawing submittal preparation and the Engineer's review. Re-submittals shall be added to the CPM Schedule as they occur and shall include the two activities required above. Each path of submittals shall have a successor relationship to a procurement activity, a fabrication activity, and/or a construction activity. Each submittal activity shall be coded with the applicable Scope Breakdown Structure Level 1, Level 2, and Level 3 codes given at the end of this specification. In addition, each submittal activity description shall identify the approximate number of sheets to be included in the particular submittal.

The Contractor shall allow the review time specified herein, after complete working drawings and all supporting data are submitted to the Engineer. Working drawings shall show complete details of the method and materials the Contractor proposes to use in the work. Attention is directed to the section entitled "Existing Highway Facilities," elsewhere in these special provisions for the Contractor's certification, which shall indicate that field dimensions have been verified for a working drawing submittal. Working drawings not including the Contractor's certification will be returned by the Engineer as incomplete.

The review time for a set of working drawings will be considered as starting when the Engineer has received the complete set of working drawings and all supporting data.

If at any time during the review process the working drawings are determined to be incomplete or if the working drawings are stamped "Return for Corrections", then the drawings will be rejected and returned to the Contractor for correction. The review time on a set of returned drawings will be considered stopped on the date the drawings are date stamped by the Engineer for return. The Contractor shall submit a notice of re-submittal to the Engineer within 7 days after receipt of the rejected set. The notice shall contain the submittal number, revision number, and date the revised set will be returned for review. The revised set shall contain the same work as was originally submitted.

After a revised set of drawings has been received by the Engineer, the new review time for that set of revised drawings will be the same as the original review time.

The review time for a set of working drawings will be considered as completed on the date the working drawings have been reviewed, approved, and mailed to the Contractor with a date stamp by the Engineer.

After review and approval of the working drawings, between 6 and 12 sets, or otherwise specified elsewhere in these special provisions, as requested by the Engineer, and in addition to the number of sets required by the Contractor, shall be submitted to the Engineer for final approval. These sets will be the only sets stamped "Approved" and will be distributed for use during construction.

Working drawings will be required for, but shall not be limited to the following items:

Bridge removal plans
Protection shields plans
Debris containment and collection program
Temporary bracing systems
Fendering
Temporary supports
Prestressing existing steel truss members for temporary supports
Temporary structure
Falsework
Steel railing reconstruction
Shoring systems and cofferdam systems
Temporary trestles
Dredging plans Excavation, pile and cofferdam discharge plans
Test borings
Test boring and drilling fluids working schematic diagrams
Micropiling
Micropiling test frame assemblies and access platform
Cast-in-drilled hole concrete pile placing plan
Pile handling plan
Precast concrete assemblies
Precast assembly erection frames
Precast concrete girders
Precast concrete decks
Precast bent cap shells
Precast concrete panel
Precast concrete panel erection frames and temporary support bracing.
Prestressing and anchorage assemblies
Prestressing cast-in-place concrete
Prestressing at pier 19 for the viscous damping devices
Expansion joint assemblies
Seismic isolation joint assemblies
Joint seal assembly (MR=4")
Seismic isolation bearings
Viscous damping devices
Column restrainer brackets
Steel casings
Structural steel
Miscellaneous metal
Paint residue containment and collection program
Construction Procedure Demonstration
Short circuit study.
Protective Device Coordination Study

Working drawings shall be submitted in sets according to the Scope Breakdown Structure Level 1, Level 2, Level 3, and Level 4 codes given at the end of this specification. Each set of working drawings shall be coded with the applicable set of Scope Breakdown Structure codes, and each set of working drawings shall be limited to and represent no more work than what is defined by one set of Scope Breakdown Structure codes as determined by the Engineer. In addition, each set of working drawings shall be identified with a unique and sequential number.

In the event that several sets of working drawings corresponding to one set of Scope Breakdown Structure codes are submitted simultaneously or additional sets of drawings corresponding to one set of Scope Breakdown Structure codes are submitted for review before the review of the previously submitted sets of drawings has been completed, the Contractor shall designate the sequence in which all of the sets of drawings corresponding to the particular set of Scope Breakdown Structure codes are to be reviewed. In such event, the time to be provided for the review of any set of working drawings in the

sequence shall be not less than the review time specified for that set of working drawings plus one half of each of the original review times for each set of working drawings of higher priority that are still under review. The Contractor shall incorporate the designated review sequence into the CPM Schedule by designating predecessor and successor relationships between sequential submittal sets and ensuring that submittals have the correct construction activity successor relationship. The Contractor shall submit a detailed predecessor/successor report of submittal and submittal review activities generated from said schedule including activity start and finish dates and activity total float. The Contractor may change the sequence of review for any item by submitting a written notification outlining their proposal for reprioritization of working drawing submittal review in conformance with the following requirements:

1. All sets of working drawings corresponding to a particular set of Scope Breakdown Structure codes under review shall be reprioritized by the Contractor.
2. The proposed reprioritization, including review time for each submittal, shall be agreed upon by the Engineer and the Contractor before it is approved and implemented. The reprioritization shall be included in the CPM Schedule. The Engineer and the Contractor shall agree upon the impact to the CPM Schedule before the reprioritization is approved and implemented.
3. The review time for the new top priority set will restart and will not exceed the original review time starting from the time that the Contractor's reprioritization proposal has been approved, unless the set is returned for revisions.
4. The review time for each submittal will be adjusted based on the Contractor's reprioritization and the total number of working drawings under review at the time of the written notification.

Should the Engineer fail to review the complete working drawing submittal within the time specified and the delay can not be mitigated within the procurement/fabrication, and/or the construction time, and if, in the opinion of the Engineer, the completion of the Contractor's successor construction activity is delayed and a delay in completion of the contract ensues, an extension of time commensurate with the delay in completion of the work thus caused will be granted in accordance with Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Approval by the Engineer of the working drawings or field inspection performed by the Engineer will in no way relieve the Contractor of full responsibility for verifying field dimensions.

At the completion of the contract, one set of all approved final working drawings in electronic form, including any revisions required after approval, shall be furnished to the Engineer. This is in addition to the microfilm requirements listed above.

Electronic files of working drawings shall be Microstation Version 95 or a more current design file format and shall be submitted on compact disk media.

An index prepared specifically for the working drawings for each portion of the work which requires working drawings, containing sheet numbers and titles shall be included on the compact disk media. Electronic files for working drawings shall be arranged in the order of drawing numbers shown in the index.

The Contractor shall submit to the Engineer 3 copies of manufacturer's catalog sheets, maintenance and operation booklets or instructions for joint seal assembly (MR=4"), seismic isolation bearings, viscous damping devices, anti-washout admixtures, concrete coatings, and T-headed reinforcement. In addition, the Contractor shall submit 2 copies of steel lists and shop drawings for bar reinforcing steel in conformance with Section 52-1.03, "Steel Lists," of the Standard Specifications.

Full compensation for conforming to the above requirements shall be considered as included in the contract prices paid for the various contract items of work and no additional compensation will be allowed therefor.

Scope Breakdown Structure	
Richmond-San Rafael Bridge Project - Bridge Retrofit Contract 04-0438U4	
	Level 1 - Caltrans Segregation and Project Segment
	three-character alphanumeric code where character one denotes the Caltrans segregation (S for Level 2
	codes having an A or B in character one = Structures work; D for Level 2 codes having another letter in
	character one = District work) and characters two and three denote the project segment
	Structures
S00	Project Wide
S01	West Approach (C 237+00 to C 250+00 nominally)
S02	East Approach (C1 340+00 nominally to C1 324+40)
S10	Bridge Wide
S11	Trestles (Bent 1 to Deck Spans 28/37)
S12	West Plate Girder Structure (Piers A/8 to Pier 19)
S13	West Truss Structure (Pier 19 to Pier 33)
S14	West Cantilever Structure (Pier 33 to Pier 36)
S15	Central Truss Structure (Pier 36 to Pier 46)
S16	East Cantilever Structure (Pier 46 to Pier 49)
S17	East Truss Structure (Pier 49 to Pier 61)
S18	East Plate Girder Structure (Pier 61 to Piers 78L/78R)
	District
D00	Project Wide
D01	West Approach (C 237+00 to C 250+00 nominally)
D02	East Approach (C1 340+00 nominally to C1 324+40)
D10	Bridge Wide
D11	Trestles (Bent 1 to Deck Spans 28/37)
D12	West Plate Girder Structure (Piers A/8 to Pier 19)
D13	West Truss Structure (Pier 19 to Pier 33)
D14	West Cantilever Structure (Pier 33 to Pier 36)
D15	Central Truss Structure (Pier 36 to Pier 46)
D16	East Cantilever Structure (Pier 46 to Pier 49)
D17	East Truss Structure (Pier 49 to Pier 61)
D18	East Plate Girder Structure (Pier 61 to Piers 78L/78R)
	Level 2 - Work Category and Contract Location Type
	five-character alphanumeric code where characters one and two denote the work category and characters
	three through five denote the contract location type (if designated)
	Bridge
AI000	"Substructure" Mobilization Portion
BI000	"Superstructure" Mobilization Portion
RI000	Marine Access
AS000	"Substructure" Work Area Monitoring
BS000	"Superstructure" Work Area Monitoring
BSU0U	"Superstructure" Construction - Trestles - Abutment and Abutment Span - U Line
BSU0L	"Superstructure" Construction - Trestles - Abutment and Abutment Span - L Line
BSU1U	"Superstructure" Construction - Trestles - Unit 1 - U Line
BSU1L	"Superstructure" Construction - Trestles - Unit 1 - L Line
BSU2U	"Superstructure" Construction - Trestles - Unit 2 - U Line
BSU2L	"Superstructure" Construction - Trestles - Unit 2 - L Line
BSU3U	"Superstructure" Construction - Trestles - Unit 3 - U Line

BSU3L	"Superstructure" Construction - Trestles - Unit 3 - L Line
BSU4U	"Superstructure" Construction - Trestles - Unit 4 - U Line
BSU4L	"Superstructure" Construction - Trestles - Unit 4 - L Line
BSU5U	"Superstructure" Construction - Trestles - Unit 5 - U Line
BSU5L	"Superstructure" Construction - Trestles - Unit 5 - L Line
BSU6U	"Superstructure" Construction - Trestles - Unit 6 - U Line
BSU6L	"Superstructure" Construction - Trestles - Unit 6 - L Line
BSU7U	"Superstructure" Construction - Trestles - Unit 7 - U Line
BSU7L	"Superstructure" Construction - Trestles - Unit 7 - L Line
BSU8U	"Superstructure" Construction - Trestles - Unit 8 - U Line
BSU8L	"Superstructure" Construction - Trestles - Unit 8 - L Line
BSU9U	"Superstructure" Construction - Trestles - Unit 9 - U Line
BSU9L	"Superstructure" Construction - Trestles - Unit 9 - L Line
ASPB1	"Substructure" Construction - West Plate Girder Two-Bell Piers - Foundation Work
ASPB2	"Substructure" Construction - Truss and Cantilever Two-Bell Piers
BSPB1	"Superstructure" Construction - West Plate Girder Two-Bell Piers - Substructure and Superstructure Work
BSPB2	"Superstructure" Construction - Truss and Cantilever Two-Bell Piers
RSPB2	Two-Bell Piers - Earthwork
ASPB4	"Substructure" Construction - Truss and Cantilever Four-Bell Piers
BSPB3	"Superstructure" Construction - West and East Plate Girder Four-Bell Piers - Superstructure Work
BSPB4	"Superstructure" Construction - Truss and Cantilever Four-Bell Piers
RSPB4	Four-Bell Piers - Earthwork
BSPF0	"Superstructure" Construction - East Plate Girder Footing Piers
RSPF0	Footing Piers - Earthwork and Seal Course Concrete
BSPFU	"Superstructure" Construction - East Plate Girder Split Footing Piers - U Line "Left" Piers
RSPFU	Split Footing Piers - U Line "Left" Piers - Earthwork and Seal Course Concrete
BSPFL	"Superstructure" Construction - East Plate Girder Split Footing Piers - L Line "Right" Piers
RSPFL	Split Footing Piers - L Line "Right" Piers - Earthwork and Seal Course Concrete
BSS1U	"Superstructure" Construction - Plate Girder Spans - Upper Level Framing
BSS1L	"Superstructure" Construction - Plate Girder Spans - Lower Level Framing
BSS2U	"Superstructure" Construction - Truss Spans - Upper Floor Beams
BSS2L	"Superstructure" Construction - Truss Spans - Lower Floor Beams
BSS2N	"Superstructure" Construction - Truss Spans - Northern Trusses
BSS2S	"Superstructure" Construction - Truss Spans - Southern Trusses
BSS3U	"Superstructure" Construction - Cantilever Spans - Upper Floor Beams
BSS4U	"Superstructure" Construction - Cantilever Spans - Upper Bracing
BSS3L	"Superstructure" Construction - Cantilever Spans - Lower Floor Beams and Lower Bracing
BSS3N	"Superstructure" Construction - Cantilever Spans - Northern Trusses
BSS3S	"Superstructure" Construction - Cantilever Spans - Southern Trusses
	Roadway
RI000	Clearing and Grubbing and Utility Relocations
RC000	Temporary Roadway Construction (for Stage Construction)
RS000	Permanent Roadway Construction
	Facilities
FP000	Public Facility - Bike Path
	Traffic Handling
TC00U	Temporary Traffic Control (for Stage Construction) - U Line

TC00L	Temporary Traffic Control (for Stage Construction) - L Line
TI00U	Permanent Traffic Installation - U Line
TI00L	Permanent Traffic Installation - L Line
	Electrical
EC000	Temporary Electrical Installation (for Stage Construction)
EI000	Permanent Electrical Installation
	Mechanical
MC000	Temporary Mechanical Installation (for Stage Construction)
MI000	Permanent Mechanical Installation
	Pollution Control and Environmental
PC000	Pollution Control
PE000	Environmental Mitigation - Shoreline Restoration
	Miscellaneous Construction Costs
CI000	Indirect Construction Costs
	Level 3 - Work Type or System and Contract Location
	seven-character alphanumeric code where characters one through four denote the work type or system
	and characters five through seven denote the contract location (if designated)
	Bridge ***characters one through four***
CIM1	Mobilization
BJ01	Marine Access
BI01	Bridge Investigations and Testing - Test Borings
BI02	Bridge Investigations and Testing - Isolation Bearing Testing
BI03	Bridge Investigations and Testing - Viscous Damping Device Testing
BX01	Bridge Demolition (Bridge Removal)
BXT1	Bridge Demolition - Temporary Structures (Temporary Bracing, Temporary Support)
BE01	Earthwork - Structure Excavation
BE02	Earthwork - Structure Backfill (Pier Backfill, Armor Rock)
BP01	Piling - Steel Pipe Piles
BP02	Piling - CIDH Concrete Piles
BP03	Piling - CISS Concrete Piles
BP04	Piling - Micropiles
BC01	Concrete - PCC Patching
BC02	Concrete - Drill And Bond Dowel
BC03	Concrete - Core Concrete, Core And Pressure Grout Concrete
BC04	Concrete - Cast-In-Place Reinforced Concrete
BC05	Concrete - Precast Reinforced Concrete
BC06	Concrete - Prestressing
BC07	Concrete - Joint Seal, AC Membrane
WB02	Type 27 Modified Concrete Barrier
BS01	Steel - Steel Casing
BS02	Steel - Structural Steel
BS03	Steel - Rivet Removal, Pin Removal
BS04	Steel - Miscellaneous Metal, Steel Bridge Railing
BS05	Steel - Expansion Joints, Isolation Joints, Restrainers
BS06	Steel - Isolation Bearings
BS07	Steel - Viscous Damping Devices
BS08	Steel - Traveling Maintenance Scaffold
BS09	Steel - Rail Lowering
BS10	Steel - Painting
PA01	Work Area Monitoring

BT01	Timber - Plastic Wood
	Bridge ***characters five through seven***
000	Undesignated
B00	Trestles - Abutment
B01	Trestles - Bent 1
B02	Trestles - Bent 2
B03	Trestles - Bent 3
B04	Trestles - Bent 4
B05	Trestles - Bent 5
B06	Trestles - Bent 6
B07	Trestles - Bent 7
B08	Trestles - Bent 8
B09	Trestles - Bent 9
B10	Trestles - Bent 10
B11	Trestles - Bent 11
B12	Trestles - Bent 12
B13	Trestles - Bent 13
B14	Trestles - Bent 14
B15	Trestles - Bent 15
B16	Trestles - Bent 16
B17	Trestles - Bent 17
B18	Trestles - Bent 18
B19	Trestles - Bent 19
B20	Trestles - Bent 20
B21	Trestles - Bent 21
B22	Trestles - Bent 22
B23	Trestles - Bent 23
B24	Trestles - Bent 24
B25	Trestles - Bent 25
B26	Trestles - Bent 26
B27	Trestles - Bent 27
B28	Trestles - Bent 28
B29	Trestles - Bent 29
B30	Trestles - Bent 30
B31	Trestles - Bent 31
B32	Trestles - Bent 32
B33	Trestles - Bent 33
B34	Trestles - Bent 34
B35	Trestles - Bent 35
B36	Trestles - Bent 36
B37	Trestles - Bent 37
D00	Trestles - Abutment Span
D01	Trestles - Deck Span 1
D02	Trestles - Deck Span 2
D03	Trestles - Deck Span 3
D04	Trestles - Deck Span 4
D05	Trestles - Deck Span 5
D06	Trestles - Deck Span 6
D07	Trestles - Deck Span 7
D08	Trestles - Deck Span 8
D09	Trestles - Deck Span 9
D10	Trestles - Deck Span 10
D11	Trestles - Deck Span 11

D12	Trestles - Deck Span 12
D13	Trestles - Deck Span 13
D14	Trestles - Deck Span 14
D15	Trestles - Deck Span 15
D16	Trestles - Deck Span 16
D17	Trestles - Deck Span 17
D18	Trestles - Deck Span 18
D19	Trestles - Deck Span 19
D20	Trestles - Deck Span 20
D21	Trestles - Deck Span 21
D22	Trestles - Deck Span 22
D23	Trestles - Deck Span 23
D24	Trestles - Deck Span 24
D25	Trestles - Deck Span 25
D26	Trestles - Deck Span 26
D27	Trestles - Deck Span 27
D28	Trestles - Deck Span 28
D29	Trestles - Deck Span 29
D30	Trestles - Deck Span 30
D31	Trestles - Deck Span 31
D32	Trestles - Deck Span 32
D33	Trestles - Deck Span 33
D34	Trestles - Deck Span 34
D35	Trestles - Deck Span 35
D36	Trestles - Deck Span 36
D37	Trestles - Deck Span 37
P0A	Pier A
P01	Pier 1
P02	Pier 2
P03	Pier 3
P04	Pier 4
P05	Pier 5
P06	Pier 6
P07	Pier 7
P08	Pier 8
P09	Pier 9
P10	Pier 10
P11	Pier 11
P12	Pier 12
P13	Pier 13
P14	Pier 14
P15	Pier 15
P16	Pier 16
P17	Pier 17
P18	Pier 18
P19	Pier 19
P20	Pier 20
P21	Pier 21
P22	Pier 22
P23	Pier 23
P24	Pier 24
P25	Pier 25

P26	Pier 26
P27	Pier 27
P28	Pier 28
P29	Pier 29
P30	Pier 30
P31	Pier 31
P32	Pier 32
P33	Pier 33
P34	Pier 34
P35	Pier 35
P36	Pier 36
P37	Pier 37
P38	Pier 38
P39	Pier 39
P40	Pier 40
P41	Pier 41
P42	Pier 42
P43	Pier 43
P44	Pier 44
P45	Pier 45
P46	Pier 46
P47	Pier 47
P48	Pier 48
P49	Pier 49
P50	Pier 50
P51	Pier 51
P52	Pier 52
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P59	Pier 59
P60	Pier 60
P61	Pier 61
P62	Pier 62
P63	Pier 63
P64	Pier 64
P65	Pier 65
P66	Pier 66
P67	Pier 67
P68	Pier 68
P69	Pier 69
P70	Pier 70
P71	Pier 71
P72	Pier 72
P73	Pier 73
P74	Pier 74
P75	Pier 75
P76	Pier 76
P77	Pier 77

P78	Pier 78
S0A	Span A
S01	Span 1
S02	Span 2
S03	Span 3
S04	Span 4
S05	Span 5
S06	Span 6
S07	Span 7
S08	Span 8
S09	Span 9
S10	Span 10
S11	Span 11
S12	Span 12
S13	Span 13
S14	Span 14
S15	Span 15
S16	Span 16
S17	Span 17
S18	Span 18
S19	Span 19
S20	Span 20
S21	Span 21
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S24	Span 24
S25	Span 25
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S28	Span 28
S29	Span 29
S30	Span 30
S31	Span 31
S32	Span 32
S33	Span 33
S34	Span 34
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S36	Span 36
S37	Span 37
S38	Span 38
S39	Span 39
S40	Span 40
S41	Span 41
S42	Span 42
S43	Span 43
S44	Span 44
S45	Span 45
S46	Span 46
S47	Span 47
S48	Span 48

S49	Span 49
S50	Span 50
S51	Span 51
S52	Span 52
S53	Span 53
S54	Span 54
S55	Span 55
S56	Span 56
S57	Span 57
S58	Span 58
S59	Span 59
S60	Span 60
S61	Span 61
S62	Span 62
S63	Span 63
S64	Span 64
S65	Span 65
S66	Span 66
S67	Span 67
S68	Span 68
S69	Span 69
S70	Span 70
S71	Span 71
S72	Span 72
S73	Span 73
S74	Span 74
S75	Span 75
S76	Span 76
S77	Span 77
	Roadway
RJ01000	Clearing and Grubbing
UU01000	Utility Relocations
RA01000	AC Paving
RAX1000	AC Paving Removal
WB01000	Type 50 Concrete Barrier
RU01000	Survey Monuments
	Facilities
FU01000	Informational Sign Board
FU02000	Prefabricated Bench
	Traffic Handling
TC01000	Control Devices
TD01000	Pavement Delineation
TDX1000	Pavement Delineation Removal
TG01000	Guard Rail and Safety Systems
TGX1000	Guard Rail and Safety Systems Removal
TS01000	Signs
TSX1000	Signs Removal
TU01000	Traffic Control System

	Electrical
EI01000	Power Supply and Distribution
FB01000	Building Work at Substations
EI02000	Lighting
EI03000	Traffic Operations - Call Boxes
EI04000	Monitoring System - Seismic Monitoring System
EI05000	Warning System - Aeronautical and Navigation Warning System
	Mechanical
MI01000	Mechanical System - Water and Air Lines
	Pollution Control and Environmental
PW01000	Control Measures - Water Pollution Control
PS01000	Control Measures - Soil Erosion Control
PE01000	Environmental Mitigation Measures - In Water
PE02000	Environmental Mitigation Measures - On Land
	Miscellaneous Construction Costs
CID1000	Indirect Costs - Electronic Diary Data
CIO1000	Indirect Costs - Time Related Overhead
CIS1000	Indirect Costs - Progress Schedule
	Level 4 - Contract Pay Item
	six-character numeric code per the Engineer's Estimate

WATER POLLUTION CONTROL SCHEDULE OF VALUES

Contract No. 04-0438U4

UNIT DESCRIPTION	UNIT	APPROXIMATE QUANTITY	VALUE	AMOUNT
NON-STORM AND WASTE MANAGEMENT CONTROLS				
DEWATERING	LS	LUMP SUM		
MATERIAL USE	LS	LUMP SUM		
SPILL PREVENTION AND CONTROL	LS	LUMP SUM		
SOLID WASTE MANAGEMENT	LS	LUMP SUM		
HAZARDOUS WASTE MANAGEMENT	LS	LUMP SUM		
CONCRETE WASTE MANAGEMENT	LS	LUMP SUM		
SANITARY/SEPTIC WASTE MANAGEMENT	LS	LUMP SUM		
VEHICLE AND EQUIPMENT CLEANING	LS	LUMP SUM		
VEHICLE AND EQUIPMENT FUELING	LS	LUMP SUM		
VEHICLE AND EQUIPMENT MAINTENANCE	LS	LUMP SUM		
SCHEDULING	LS	LUMP SUM		
ILLICIT DISCHARGE/ILLEGAL DUMPING REPORTING	LS	LUMP SUM		
TEMPORARY DRAINAGE INLET PROTECTION	LS	LUMP SUM		

10-1.13 PROGRESS SCHEDULE (CRITICAL PATH)

Progress schedules will be required for this contract. Progress schedules shall utilize the Critical Path Method (CPM).

Definitions - The following definitions apply to this section "Progress Schedule (Critical Path)":

1) Activity: Any task, or portion of a project, which takes time to complete.
2) Baseline Schedule: The initial CPM schedule representing the Contractor's original work plan, as accepted by the Engineer.
3) Controlling Operation: The activity considered at the time by the Engineer, within that series of activities defined as the critical path, which if delayed or prolonged, will delay the time of completion of the contract.
4) Critical Path: The series of activities, which determines the earliest completion of the contract (Forecast Completion Date).). This is the longest path of activities having the least amount of float.
5) Critical Path Method: A mathematical calculation to determine the earliest completion of the contract represented by a graphic representation of the sequence of activities that shows the interrelationships and interdependencies of the elements composing a project.
6) Current Contract Completion Date: The extended date for completion of the contract shown on the weekly statement of working days furnished by the Engineer in accordance with Section 8-1.06, "Time of Completion," of the Standard Specifications.
7) Early Completion Time: The difference in time between the current contract completion date and the Contractor's scheduled early forecast completion date as shown on the accepted baseline schedule, or schedule updates and revisions.
8) Float: The amount of time between the early start date and the late start date, or the early finish date and the late finish date, of any activity or group of activities in the network.
9) Forecast Completion Date: The completion date of the last scheduled work activity identified on the critical path.
10) Fragnet: A section or fragment of the network diagram comprised of a group of activities.
11) Free Float: The amount of time an activity can be delayed before affecting a subsequent activity.
12) Hammock Activity: An activity added to the network to span an existing group of activities for summarizing purposes.
13) Milestone: A marker in a network, which is typically used to mark a point in time or denote the beginning or end of a sequence of activities. A milestone has zero duration, but will otherwise function in the network as if it were an activity.
14) Revision: A change in the future portion of the schedule that modifies logic, adds or deletes activities, or alters activities, sequences, or durations.
15) Tabular Listing: A report showing schedule activities, their relationships, durations, scheduled and actual dates, and float.
16) Total Float: The amount of time that an activity may be delayed without affecting the total project duration of the critical path.
17) Update: The modification of the CPM progress schedule through a regular review to incorporate actual progress to date by activity, approved time adjustments, and projected completion dates.
18) Time Scaled Logic Diagram: A schematic display of the logical relationships of project activities, drawn from left to right to reflect project chronology with the positioning and length of the activity representing its duration.
19) Bar Chart (Gantt Chart): A graphic display of scheduled-related information, activities or other project elements are listed down the left side of the chart, dates are shown across the top, and activity durations are shown as date-placed horizontal bars.

Pre-construction Scheduling Conference - The Engineer shall schedule and conduct a Preconstruction Scheduling Conference with the Contractor's Project Manager and Construction Scheduler within seven days after the bidder has received the contract for execution. At this meeting, the requirements of this section of the special provisions will be reviewed with the Contractor. The Contractor shall be prepared to discuss its schedule methodology, proposed sequence of operations, the activity identification system for labeling all work activities, the schedule file numbering system, and any deviations it proposes to make from the Stage Construction Plans. The Engineer shall submit on a diskette a project-specific scheduling shell including an Activity Code Dictionary. The Contractor shall utilize these codes, and may add other codes as necessary, to group and organize the work activities. The code structure shall be finalized with the accepted baseline schedule. The Engineer may periodically request that the Contractor ~~to~~ utilize additional filters, layouts, and/or activity codes to further group or summarize the work activities.

Also, the Engineer and the Contractor shall review the requirements for all submittals applicable to the contract and discuss their respective preparation and review durations. All submittals and reviews are to be reflected on the Interim Baseline Schedule and the Baseline Schedule.

Interim Baseline Schedule - Within 15 days after approval of the contract, the Contractor shall submit to the Engineer an Interim Baseline Project Schedule which will serve as the progress schedule for the first 120 days of the project, or until the Baseline Schedule is accepted, whichever is sooner. The Interim Baseline Schedule shall utilize the critical path method. The Interim Baseline Schedule shall depict how the Contractor plans to perform the work for the first 120 days of the contract. Additionally, the Interim Baseline Schedule shall show all submittals required early in the project, and shall provide for all permits, and other non-work activities necessary to begin the work. The Interim Baseline Schedule submittal shall include a 3 l/2 inch floppy diskette which contains the data files used to generate the schedule.

The Engineer shall be allowed 10 days to review the schedule and to provide comments, including the Contractor's application of the supplied Activity Code Dictionary. The Interim Baseline Schedule does not require Caltrans acceptance but all comments are to be implemented into the Baseline Schedule. Re-submittal of the Interim Baseline Schedule is not required. Late review of the Interim Baseline Schedule shall not restrain the submittal of the Baseline Schedule.

Baseline Schedule - Within 30 days, after approval of the contract, the Contractor shall submit to the Engineer a Baseline Project Schedule including the incorporation of all comments provided to the Interim Baseline Schedule. The Baseline Schedule shall have a data date of the day prior to the first working day of the contract. The schedule shall not include any actual start dates, actual finish dates, or constraint dates (except for Contractual Milestone dates). The Baseline Schedule shall meet interim milestone dates, contract milestone dates, stage construction requirements, internal time constraints, show logical sequence of activities, and must not extend beyond the number of days originally provided for in the contract.

All task activities shall be assigned to a project calendar. Each calendar shall identify a workweek, and holidays. Use different calendars for work activities that occur on different work schedules, although activities for the preparation and the review of submittals plus the respective fabrication are to be assigned to the same calendar. The Contractor shall not add job inefficiencies or weather days to a project calendar without prior approval by the Engineer.

The Baseline CPM Schedule submitted by the Contractor shall have a sufficient number of activities to assure adequate planning of the project and to permit monitoring and evaluation of progress and the analysis of time impacts. The Baseline Schedule shall depict how the Contractor plans to complete the whole work involved, and shall show all activities that defines the critical path. Each activity shall have durations of not more than 20 working days, and not less than one working day unless permitted otherwise by the Engineer. All activities in the schedule, with the exception of the first and last activities, shall have a minimum of one predecessor and a minimum of one successor. The Contractor shall not assign negative lags to any activities.

The Baseline Schedule shall not attribute negative float to any activity. Float shall not be considered as time for the exclusive use of or benefit of either the State or the Contractor but shall be considered as a jointly owned, expiring resource available to the project and shall not be used to the financial detriment of either party. Any accepted schedule, revision or update having an early completion date shall show the time between the early completion date and the current Contract Completion Date as "total float".

The Contractor shall be responsible for assuring that all work sequences are logical and the network shows a coordinated plan for complete performance of the work. Failure of the Contractor to include any element of work required for the performance of the contract in the network shall not relieve the Contractor from completing all work within the time limit specified for completion of the contract. If the Contractor fails to define any element of work, activity or logic, the Contractor in the next monthly update or revision of the schedule shall correct it.

The Baseline Schedule shall be supplemented with resource allocations for every task activity to a level of detail that facilitates report generation based on labor craft and equipment class for the Contractor and subcontractors. The Contractor shall use average composite crews to display the labor loading of on-site construction activities. The Primavera resource dictionary shall identify the normal and maximum limits for each labor craft for the specified period of time. Based on the resource limits, the Contractor shall optimize and level labor to reflect a reasonable plan for accomplishing the work of the contract and to assure that resources are not duplicated in concurrent activities. Along with the baseline progress schedule, the Contractor shall also submit to the Engineer time-scaled resource histograms of the labor crafts and equipment classes to be utilized on the contract. The Contractor shall not create hammock activities for the purpose of resources loading.

The Contractor shall require each subcontractor to submit in writing a statement certifying that the subcontractor has concurred with the Contractor's CPM, including major updates, and that the subcontractor's related schedule has been incorporated accurately, including the duration of activities, labor and equipment loading. Should the Baseline schedule or

schedule update, submitted for acceptance, show variances from the requirements of the contract, the Contractor shall make specific mention of the variations in the letter of transmittal, in order that, if accepted, proper adjustments to the project schedule can be made. The Contractor will not be relieved of the responsibility for executing the work in strict accordance with the requirements of the contract documents. In the event of a conflict between the requirements of the contract documents and the information provided or shown on an accepted schedule, the requirements of the contract documents shall take precedence.

Each schedule submitted to the Engineer shall comply with all limits imposed by the contract, with all specified intermediate milestone and contract completion dates, and with all constraints, restraints or sequences included in the contract. The degree of detail shall include factors including, but not limited to:

1. Physical breakdown of the project;
2. Contract milestones and completion dates, substantial completion dates, constraints, restraints, sequences of work shown in the contract, the planned substantial completion date, and the final completion date;
3. Type of work to be performed, the sequences, and the major subcontractors involved;
4. All purchases, submittals, submittal reviews, manufacture, fabrication, tests, delivery, and installation activities for all major materials and equipment, including submittal of requests for audits of manufacturers and fabricators in conformance with "Manufacturing and Fabrication Qualification Audit for Materials" of these special provisions;
5) Preparation, submittal and approval of shop and working drawings and material samples, showing time, as specified elsewhere, for the Engineer's review. The same time frame shall be allowed for at least one resubmittal on all major submittals so identified in the contract documents;
6) Identification of interfaces and dependencies with preceding, concurrent and follow-on contractors, railroads, and utilities as shown on the plans or specified in the specifications;
7) Identification of each and every utility relocation and interface as a separate activity, including activity description and responsibility coding that identifies the type of utility and the name of the utility company involved.
8) Actual tests, submission of test reports, and approval of test results;
9) All start-up, testing, training, and assistance required under the Contract;
10) Punchlist and final clean-up;
11) Identification of any manpower, material, or equipment restrictions, as well as any activity requiring unusual shift work, such as double shifts, 6-day weeks, specified overtime, or work at times other than regular days or hours; and
12) Identification of each and every ramp closing and opening event as a separate one-day activity, including designation by activity coding and description that it is a north-bound, south-bound, east-bound, west-bound, and entry or exit ramp activity.
13) Separate resource graphs for the Contractor’s labor, equipment, and critical path labor, with an accompanying analysis of each and explanation for any variances (i.e. example front-end resource loading of schedule).
14) Equipment and labor shall be differentiated by a cost account code within the resource dictionary.

The Baseline Schedule submittal shall include a 3-l/2 inch floppy diskette which contains the data files used to generate the schedule, a schedule narrative describing the critical path, narratives providing additional schedule detail as requested by the Engineer, and all schedule reports.

The Engineer shall be allowed 15 days to review and accept or reject the baseline project schedule submitted. Rejected schedules shall be resubmitted to the Engineer within 5 days, at which time a new 15 day review period by the Engineer will begin.

Project Schedule Reports - Schedules submitted to the Engineer including Interim Baseline, Baseline, and update schedules shall include time scaled network diagrams in a layout format requested by the Engineer. The network diagrams submitted to the Engineer shall also be accompanied by four computer-generated mathematical analysis tabular reports for each activity included in the project schedule. The reports (8 1/2" x 11" size) shall include a network diagram report showing the activity columns only, a predecessor and successor report, a resource report (Interim Baseline and Baseline Schedules), and a scheduling and leveling calculation report. The network diagram reports shall include, at a minimum, the following for each activity:

1) Activity number and description;
2) Activity codes;
3) Original, actual and remaining durations;
4) Early start date (by calendar date);
5) Early finish date (by calendar date);
6) Actual start date (by calendar date);
7) Actual finish date (by calendar date);
8) Late start date (by calendar date);
9) Late finish date (by calendar date);
10) Identify activity calendar ID;
11) Total Float and Free Float, in work days and;
12) Percentage complete.

Network diagrams shall be sorted and grouped in a format requested by the Engineer reflecting the project breakdown per the supplied Activity Code Dictionary. They shall show a continuous flow of information from left to right per the project sorting and grouping codes, e.g., project milestones, submittals sub-grouped by description, and the construction activities sub-grouped by the supplied activity codes. The primary paths of criticality shall be clearly and graphically identified on the networks. The network diagram shall be prepared on E-size sheets (36" x 48"), shall have a title block in the lower right-hand corner, and a timeline on each page. Exceptions to the size of the network sheets and the use of computer graphics to generate the networks shall be subject to the approval of the Engineer.
Schedule network diagrams the tabular reports shall be submitted to the Engineer for acceptance in the following quantities:

a) 2 sets of the Network Diagrams;
b) 2 copies of the tabular reports (8 1/2" x 11" size); and
c) 3 computer diskettes.

Weekly Schedule Meetings - The Engineer and the Contractor shall hold weekly scheduling meetings to discuss the near term schedule activities, to address any long-term schedule issues, and to discuss any relevant technical issues. The Contractor shall develop a rolling 4-weeks schedule identifying the previous week worked and a 3-week look ahead. It shall provide sufficient detail to include the actual and planned activities of the Contractor and all subcontractors for offsite and construction activities, addressing all activities to be performed and to identify issues requiring engineering action or input. Each activity in the 4 weeks rolling schedule shall be identified by an associated CPM schedule activity ID number. This schedule should not be hand written. The Contractor should utilize the use of an Excel spreadsheet, or a Primavera scheduling software as acceptable by the Engineer. The Engineer shall provide the format of the schedule. This schedule shall be electronically submitted to the Engineer one day prior to the scheduled meeting date.

Monthly Update Schedules - The Contractor shall submit a Monthly Update Schedule to the Engineer once in each month within 5 days of the data date. The proposed update schedule prepared by the Contractor shall include all information available as of the 20th calendar day of the month, or other data date as established by the Engineer. A detailed list of all proposed schedule changes such as logic, duration, lead/lag, forecast completion date, additions and deletions shall be submitted with the update.

The monthly update of the schedule shall focus on the period from the last update to the current cut-off data date. Changes to activities or logic beyond the data date are classified as revisions and need to be addressed per the schedule revision section of this specification. Activities that have either started or finished shall be reported as they actually occurred and designated as complete, if actually completed. For activities in progress that are forecasted to complete longer than planned, the remaining durations shall be revised, not the original durations. All out of sequence activities are to be reviewed and their relationships either verified or changed.

The Monthly Update Schedule submitted to the Engineer shall be accompanied by a Schedule Narrative Report. The report shall describe the physical progress during the report period, plans for continuing the work during the forthcoming report period, actions planned to correct any negative float, and an explanation of potential delays or problems and their estimated impact on performance, milestone completion dates, forecast completion date, and the overall project completion date. In addition, alternatives for possible schedule recovery to mitigate any potential delay or cost increases shall be included for consideration by the Engineer. The report shall follow the outline set forth below:

Contractor's Schedule Narrative Report Outline:

1) Contractor's Transmittal Letter
2) Work completed during the period
3) Description of the current critical path
4) Description of current problem areas
5) Current and anticipated delays
   a) Cause of the delay
   b) Corrective action and schedule adjustments to correct the delay
   c) Impact of the delay on other activities, milestones, and completion dates
6) Changes in construction sequences
7) Pending items and status thereof
   a) Permits
   b) Change Orders
   c) Time Extensions
   d) Non-Compliance Notices
8) Contract completion date(s) status
   a) Ahead of schedule and number of days
   b) Behind schedule and number of days
9) Include updated Network Diagram and Reports

The Contractor shall provide to the Engineer a 3 1/2" electronic disk of the schedule, together with printed copies of the network diagrams and tabular reports described under "Project Schedule Reports", and the Schedule Narrative Report.
Portions of the network diagram on which all activities are complete need not be reprinted and submitted in subsequent updates. However, the electronic disk file of the submitted schedule and the related reports shall constitute a clear record of progress of the work from award of contract to final completion.

On a date determined by the Engineer, the Contractor shall meet with the Engineer to review the monthly schedule update. At the monthly progress meeting, the Contractor and the Engineer shall review the updated schedule and shall discuss the content of the Narrative Report. The Engineer shall be allowed 10 days after the meeting to review and accept or reject the update schedule submitted. Rejected schedules shall be resubmitted to the Engineer within 5 days, at which time a new 5 day review period by the Engineer will begin. All efforts shall be made between the Engineer and the Contractor to complete the review and the acceptance process prior to the next update schedule data date. To expedite the process a second meeting between the Engineer and the Contractor shall be held.

Schedule Revisions - If the Contractor desires to make a change to the accepted schedule, the Contractor shall request permission from the Engineer in writing, stating the reasons for the change, and proposed revisions to activities, logic and duration. The Contractor shall submit for acceptance an analysis showing the effect of the revisions on the entire project. The analysis shall include:

1. An updated schedule not including the revisions. The update schedule shall have a data date just prior to implementing
   the proposed revisions and include a project completion date;
2. A revised schedule that includes the proposed revisions. The schedule will have the same data date as the updated schedule and include a project completion date;
3. The Contractor shall add resources for all new activities and adjust resources for those activities with revised remaining durations.
4. A narrative explanation of the revisions and their impact to the schedule; and
5. Computer files of the updated schedule and the revised schedule sequentially numbered or renamed for archive (record) purposes.

The Engineer will provide a response within 10 days. No revision to the accepted baseline schedule or the schedule updates shall be made without the prior written approval of the Engineer.
The Engineer will request the Contractor to submit a proposed revised schedule within 15 days when:

a) There is a significant change in the Contractor's operations that will affect the critical path;
b) The current updated schedule indicates that the contract progress is 4 weeks or more behind the planned schedule, as determined by the Engineer; or
c) The Engineer determines that an approved or anticipated change will impact the critical path, milestone or completion dates, contract progress, or work by other contractors.

The Engineer shall be allowed 10 days to review and accept or reject a schedule revision. Rejected schedule revisions shall be revised and resubmitted to the Engineer within 10 days, at which time a new 10 day review period by the Engineer will begin. Only upon approval of a change by the Engineer shall it be reflected in the next schedule update submitted by the Contractor.

Schedule Time Extension Requests - When the Contractor requests a time extension due to contract change orders or delays, the Contractor shall submit to the Engineer a written Time Impact Analysis illustrating the influence of each change or delay on the current contract completion date or milestone completion date, utilizing the current accepted schedule. Each Time Impact Analysis shall include a schedule update and a schedule revision, both with the same data date, demonstrating how the Contractor proposes to incorporate the Change Order or delay into the current schedule. The schedule revision shall include the sequence of activities and any revisions to the existing activities to demonstrate the influence of the delay, the proposed method for incorporating the delay, and its impact into the schedule.
Each Time Impact Analysis shall demonstrate the estimated time impact based on the events of delay, the anticipated or actual date of the contract change order work performance, the status of construction at that point in time, and the event time computation of all activities affected by the change or delay. The event times used in the analysis shall be those included in the latest update of the current schedule in effect at the time the change or delay was encountered.
Time extensions will be granted only to the extent that equitable time adjustments for the activity or activities affected exceed the total or remaining float along the critical path of activities at the time of actual delay, or at the time the contract change order work is performed. Float time is not for the exclusive use or benefit of the Engineer or the Contractor, but is an expiring resource available to all parties as needed to meet contract milestones and the contract completion date. Time extensions will not be granted nor will delay damages be paid unless:

a) the delay is beyond the control and without the fault or negligence of the Contractor and its subcontractors or suppliers, at any tier; and,
b) the delay extends the actual performance of the work beyond the applicable current contract completion date and the most recent date predicted for completion of the project on the accepted schedule update current as of the time of the delay or as of the time of issuance of the contract change order.

Time Impact Analyses shall be submitted in triplicate within 15 days after the delay occurs or after issuance of the contract change order. A schedule file diskette is also to be submitted.

Acceptance or rejection of each Time Impact Analysis by the Engineer will be made within 15 days after receipt of the Time Impact Analysis, unless subsequent meetings and negotiations delay the review. A copy of the Time Impact Analysis accepted by the Engineer shall be returned to the Contractor and the accepted schedule revisions illustrating the influence of the contract change orders or delays shall be incorporated into the project schedule during the first update after acceptance.

Final Schedule Update - Within 15 days after the acceptance of the contract by the Director, the Contractor shall submit a final update of the schedule with actual start and actual finish dates for all activities. This schedule submission shall be accompanied by a certification, signed by an officer of the company and the Contractor's Project Manager stating "To the best of my knowledge, the enclosed final update of the project schedule reflects the actual start and completion dates of the activities contained herein."

Equipment and Software - The Contractor shall provide for the State's exclusive possession and use a complete computer system specifically capable of creating, storing, updating and producing CPM schedules. Before delivery and setup of the computer system, the Contractor shall submit to the Engineer for approval a detailed list of all computer hardware and software the Contractor proposes to furnish. The minimum computer system to be furnished shall include the following:

1) Complete computer system, including keyboard, mouse, 21 inch color SVGA monitor (1,024x768 pixels), latest available Intel Pentium III micro processor chip, or equivalent, or better;
2) Computer operating system software, compatible with the selected processing unit, for Windows 95 or later, or equivalent;

3) Minimum one hundred nine two (192) megabytes of random access memory (RAM);
4) A 40 gigabyte minimum hard disk drive, a 1.44 megabyte 3 l/2 inch floppy disk drive, DVD/CD-ROM drive 10/100 Ethernet card and 56k modem, Tape backup device with a minimum capacity 5 GB per tape and backup tapes for 3 complete backup sets;
5) A color-ink-jet plotter with a minimum 36Megabytes RAM, capable of 300 dots per inch color, 600 dots per inch monochrome, or equivalent. Plotter paper and ink cartridges throughout the contract. Plotter stand, roll paper assembly and automatic paper cutter. HP Design 1055 CM or equivalent with an 10/100 ethernet adapter.
6) CPM software shall be Primavera Project Planner, the latest version for Windows 95, or later;
7) Scheduler Analyzer Pro or equivalent – a suite of programs to assist in schedule analysis, the latest version for Windows 95, Windows NT or later and,
8) Microsoft Office software, the latest version for Windows 95, Windows NT or later, and McAfee Virus software or equivalent.

The computer hardware and software furnished shall be compatible with that used by the Contractor for the production of the CPM progress schedule required by the Contract, and shall include original instruction manuals and other documentation normally provided with the software.

The Contractor shall furnish, install, set up, maintain and repair the computer hardware and software ready for use at a location determined by the Engineer. The hardware and software shall be installed and ready for use by the first submission of the baseline schedule. The Contractor shall provide 24 hours of formal training for the Engineer, and three other agents of the department designated by the Engineer, in the use of the hardware and software to include schedule analysis, reporting, and resource and cost allocations. An authorized vendor of Project Primavera shall perform the training.

All computer hardware and software furnished shall remain the property of the Contractor and shall be removed by the Contractor upon acceptance of the contract when no claims involving contract progress are pending. When claims involving contract progress are pending, computer hardware or software shall not be removed until the final estimate has been submitted to the Contractor.

Payment - Progress schedule (critical path) will be paid for at a lump sum price. The contract lump sum price paid for progress schedule (critical path) shall include full compensation for furnishing all labor, materials (including computer hardware and software), tools, equipment, and incidentals; and for doing all the work involved in preparing, furnishing, updating and revising CPM progress schedules. Also for maintaining and repairing the computer hardware and training the Engineer in the use of the computer hardware and software as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Payments for progress schedule (critical path) will be made as follows:

Interim baseline schedule accepted, then 10 percent payment for progress schedule (critical path) will be made.
Baseline schedule accepted, then 10 percent payment for progress schedule (critical path) will be made.
Monthly update schedules accepted, then 75 percent payment for progress schedule (critical path) will be made equally for each update.
Final schedule update accepted, then 5 percent payment for progress schedule (critical path) will be made.

The Department will retain an amount equal to 25 percent of the estimated value of the work performed during the first estimate period in which the Contractor fails to submit an interim baseline, baseline, revised or updated CPM schedule conforming to the requirements of this section, as determined by the Engineer. Thereafter, on subsequent successive estimate periods the percentage the Department will retain will be increased at the rate of 25 percent per estimate period in which acceptable CPM progress schedules have not been submitted to the Engineer. Retention's for failure to submit acceptable CPM progress schedules shall be additional to all other retention's provided for in the contract. The retention for failure to submit acceptable CPM progress schedules will be released for payment on the next monthly estimate for partial payment following the date that acceptable CPM progress schedules are submitted to the Engineer.

The adjustment provisions in Section 4-1.03, "Changes," of the Standard Specifications, shall not apply to the item of progress schedule (critical path). Adjustments in compensation for the project schedule will not be made for any increased or decreased work ordered by the Engineer in furnishing project schedules.

10-1.31K REMOVE ASPHALT CONCRETE, CONCRETE, AND SLOPE PROTECTION MATERIAL

Existing asphalt concrete, concrete, and material, including other objectionable waste materials, previously used as slope protection within the right of way of the project limits at the locations shown on the plans to be removed, shall be removed to the limits shown as directed by the Engineer.

Except where the character of the material removed is such that, as determined by the Engineer, irregularities are unavoidable, tolerance requirements of the finished slope shall not deviate more than one foot from the established plane. These tolerances shall be measured perpendicular to the plane of the slope.

Attention is directed to "Hazardous and Non-Hazardous Materials, General", elsewhere in these special provisions regarding the presence of hazardous and non-hazardous materials. Attention is directed to the section entitled "Earthwork" elsewhere in these special provisions for the locations of Hazardous and Non-Hazardous materials. The material information provided at the piers shall be considered to be representative of the material located between the existing piers.

Removed materials shall be disposed of outside the highway right of way as provided in Section 15-2.03, "Disposal," of the Standard Specifications. Disposal of removed materials shall be concurrent with the removal operations. Stockpiling of removed materials within the State right of way will not be allowed.

Removing asphalt concrete, concrete, and slope protection material will be measured by the cubic yard in the same manner specified for roadway excavation as provided in Section 19, "Earthwork," of the Standard Specifications.

10-1.33 EARTHWORK

Earthwork shall conform to the provisions in Section 19, "Earthwork," of the Standard Specifications and these special provisions.

Attention is directed to "Aerially Deposited Lead, General" and "Hazardous and Non-Hazardous Material, General", elsewhere in these special provisions regarding hazardous and non-hazardous materials.

Earthwork below elevation 4.6' National Geodetic Vertical Datum (NGVD) for purposes of constructing temporary site access, installing temporary platforms or work trestles will not be allowed.

Attention is directed to Section “Non-Storm Water Discharges” elsewhere in these special provisions.

Surplus excavated material and those materials classified as "materials with aerially deposited lead" and "hazardous and non-hazardous material" shall be disposed of outside the highway right of way in accordance with the provisions in Section 7-1.13 of the Standard Specifications.

Where a portion of existing surfacing is to be removed, the outline of the area to be removed shall be cut on a neat line with a power-driven saw to a minimum depth of 0.17-foot before removing the surfacing. Full compensation for cutting existing surfacing shall be considered as included in the contract price paid per cubic yard for remove base and surfacing and no additional compensation will be allowed therefor.

Structure excavation for substructure work, designated as (Type D), for footings at the locations shown on the substructure plans will be measured and paid for as structure excavation (Type D). Ground water or surface water is expected to be encountered at these locations, but seal course concrete is not shown or specified. Structure excavation for footings at locations not designated on the substructure plans as structure excavation (Type D) and where ground or surface water is encountered will be measured and paid for as described below.

The quantities of structure excavation, of the types designated in the Engineer’s Estimate, will be computed on the basis of the dimensions and details shown on the superstructure plans and the limits of hazardous and non-hazardous material shown in the following table, "SOIL ANALYTICAL RESULTS - Richmond-San Rafael Bridge" of this section.

Structure excavation, designated as (Type DNH), for footings at dry ground surface locations shown on the superstructure plans will be measured and paid for as structure excavation (Type DNH). Ground water and non-hazardous materials are expected to be encountered at these locations, but seal course concrete is not shown or specified.

Structure excavation, designated as (Type DH), for footings at dry ground surface locations shown on the superstructure plans will be measured and paid for as structure excavation (Type DH). Ground water and hazardous materials are expected to be encountered at these locations, but seal course concrete is not shown or specified. This material shall be disposed of at a facility licensed to accept hazardous material as shown in "Soil Analytical Results - Richmond-San Rafael Bridge" of this section for these locations.

Structure excavation, designated as (Type ANH), for footings at the locations shown on the superstructure plans will be measured and paid for as structure excavation (Type ANH). Ground water or surface water and non-hazardous material are expected to be encountered at these locations

Structure excavation, designated as (Type AH), for footings at the locations shown on the superstructure plans will be measured and paid for as structure excavation (Type AH). Ground water or surface water and hazardous material are expected to be encountered at these locations. This material shall be disposed of at a facility licensed to accept hazardous material as shown in "Soil Analytical Results - Richmond-San Rafael Bridge" of this section for these locations.

Sealed cofferdams shall be used around all excavated areas at pier bases at all upland locations and in shallow Bay waters to minimize and/or prevent erosion, sedimentation, and contamination of the work. Sealed cofferdams will be required at various pier locations including but not limited to: Pier No. 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 71R, 72, 72R, 73, 73R, 74, 74R, 75, 75R, 76, 76R, 77, 77R.

SOIL ANALYTICAL RESULTS
Richmond-San Rafael Bridge
Seismic Retrofit Project

Pier No.	Zone (ft bgs)	Sample Location	Sample Depth[1] (ft bgs)	Lead Concentration			Oil & Grease (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Toluene (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	Soil Classi-fication
				Total (mg/kg)	WET (mg/L)	TCLP (mg/L)										
66	0-7.5	C	Surface	81.1	11	0.27	NA	ND	ND	ND	ND	ND	420	NA	NA	Haz
		R	Surface	481	21	0.58	ND	ND	ND	ND	ND	ND	790	NA	NA	
		L	0.5	12	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	
		C	2.5	10.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	2.5	526	19	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	740	33	0.7	510	NA	NA	NA	NA	NA	NA	NA	NA	
		C	5	13.4	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		R	5	12.4	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		C	7.5	11.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	7.5	12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	7.5-19	L	10	12	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	Non-Haz
		C	10	10.8	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		R	10	21.2	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		R	15	91.6	1.9	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		C	19	11.5	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		R	19	11.3	NA	NA	NA	ND	ND	ND	ND	48	ND	ND	ND	
67	0-7.5	L	Surface	96.7	10	0.75	NA	ND	0.0034	ND	ND	ND	710	NA	NA	Haz
		R	Surface	715	56	1.7	NA	ND	ND	ND	ND	ND	4500	NA	NA	
		L	0.5	190	14	0.8	150	NA	NA	NA	NA	NA	NA	NA	NA	
		L	2.5	107	11	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	2.5	36.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	260	12	0.7	450	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	8.57	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		R	5	21.6	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		L	7.5	16.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	7.5	20.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	7.5-13	L	10	13	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	Non-Haz
		L	10	11.1	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		R	10	16.9	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		L	13	10.2	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		R	13	16.3	NA	NA	NA	ND	ND	ND	ND	ND	47	NA	NA	
68	0-2.5	C	Surface	385	0.29	NA	NA	0.012	0.089	0.0014	ND	ND	380	NA	NA	Haz
		R	Surface	154	18	0.7	NA	ND	ND	ND	ND	14	160	NA	NA	
		L	0.5	560	38	NA	2000[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
		C	2.5	13.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	2.5	12.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2.5-13	L	5	170	3.6	NA	870[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	Non-Haz

		C	5	10.3	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		R	5	13	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		C	7.5	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	7.5	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	10	31[3]	NA	NA	780[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
		C	10	11.6	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		R	10	8.93	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		C	13	10.6	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		R	13	17.8	NA	NA	NA	ND	ND	ND	ND	ND	83	NA	NA	

Pier No.	Zone	Sample Location	Sample Depth[1]	Lead Concentration			Oil & Grease	Ethyl-benzene	Total Xylenes	Toluene	TPHg	TPHd	TPHmo	VOCs	SVOCs	Soil Classification
				Total	WET	TCLP										
	(ft bgs)		(ft bgs)	(mg/kg)	(mg/L)	(mg/L)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
69	0-0.5	L	Surface	315	27	1.3	NA	ND	ND	ND	ND	ND	190	NA	NA	Haz
		R	Surface	332	34	0.91	NA	ND	0.75	0.0079	ND	ND	170	NA	NA	
		L	0.5	17	NA	NA	1100	NA	NA	NA	NA	NA	NA	NA	NA	
	0.5-15	L	2.5	6.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Non-Haz
		R	2.5	70.3	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	16	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	5.4	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		R	5	16.1	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		L	7.5	6.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	7.5	4.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	10	7	NA	NA	4800	NA	NA	NA	NA	NA	NA	NA	NA	
		L	10	5.52	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		R	10	7.55	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		L	15	10.7	NA	NA	NA	ND	ND	ND	ND	480	920	ND	ND	
		R	15	8.15	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
70	0-10	L	Surface	287	14	0.33	NA	0.0031	0.024	ND	ND	ND	590	NA	NA	Haz
		R	Surface	156	12	0.18	NA	ND	ND	ND	ND	ND	150	NA	NA	
		L	0.5	180	10	NA	2000[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
		L	2.5	318	15	0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	2.5	21.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	110	9.3	NA	870[3]	ND[2]	143	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
		L	5	72.9	16	2.0	NA	ND	ND	ND	ND	ND	1300	ND	ND	
		R	5	58.1	2.7	NA	NA	ND	ND	ND	ND	ND	1600	NA	NA	
		L	7.5	9.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	7.5	354	16	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	10	31[3]	NA	NA	780[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
		L	10	9.64	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		R	10	9.7	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
	10-18	L	15	9	NA	NA	20	ND	ND	NA	ND	ND	NA	ND	ND	Non-Haz

		L	15	7.23	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	
		R	15	13.8	NA	NA	NA	ND	ND	ND	ND	38	71	NA	NA	
		L	18	10	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	ND	
		L	18	5.87	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		R	18	8.23	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
71	0-7.5	L	Surface	255	18	0.58	NA	ND	0.0036	ND	ND	ND	290	NA	NA	Haz
		R	Surface	67.9	1.6	NA	NA	ND	ND	ND	ND	79	980	NA	NA	
		C	0.5	25	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	
		L	2.5	18.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	2.5	252	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	12.5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		C	5	750	18	2.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	
		R	5	36.1	NA	NA	NA	ND	ND	ND	ND	31	200	NA	NA	
		L	7.5	11.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	7.5	21.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	7.5-10	L	9	14.1	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	Non-Haz
		R	9	5.37	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	
		C	10	56	0.5	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	

Pier No.	Zone (ft bgs)	Sample Location	Sample Depth[1] (ft bgs)	Lead Concentration Total (mg/kg)	Lead Concentration WET (mg/L)	Lead Concentration TCLP (mg/L)	Oil & Grease (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Toluene (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	Soil Classification
72	0-7.5	L	Surface	213	7.0	<0.02	NA	0.1	0.56	0.0059	ND	ND	860	NA	NA	Haz
		R	Surface	225	9.6	0.04	NA	0.0045	0.07	ND	ND	ND	600	NA	NA	
		C	0.5	44	NA	NA	2000[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
		L	2.5	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	2.5	6.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	9.14	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		C	5	380	23	NA	870[3]	ND[2]	143	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
		R	5	229	7.0	0.11	NA	ND	ND	ND	ND	700	2300	NA	NA	
		L	7.5	10.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	7.5	8.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	7.5-10	L	9.5	8.52	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	Non-Haz
		R	9.5	85.5	3.9	NA	NA	ND	ND	ND	ND	ND	220	NA	NA	
		C	10	31[3]	NA	NA	780[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
73	0-0.5	L	Surface	130	5.7	0.04	NA	0.047	0.42	ND	ND	160	140	NA	NA	Haz
		R	Surface	89.4	7.7	<0.02	NA	0.02	0.12	0.0013	ND	96	140	NA	NA	
		C	0.5	13	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	
	0.5-7	L	2.5	43.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Non-Haz

		R	2.5	79.2	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	13.5	NA	NA	NA	ND	0.0051	ND	ND	130	180	32.1	ND	
		C	5	82	3	NA	5000	NA	NA	NA	NA	NA	NA	NA	NA	
		R	5	48.7	NA	NA	NA	ND	ND	ND	ND	ND	130	NA	NA	
		R	6.5	20.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	7	22.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
74	0-2.5	L	Surface	277	34	0.30	NA	0.0019	0.021	ND	ND	ND	430	NA	NA	Haz
		R	Surface	25.7	NA	NA	NA	0.0077	0.001	0.047	ND	ND	3900	NA	NA	
		L	0.5	56	6.3	NA	13003	ND2	ND2	NA	ND2	ND2	NA	ND2	ND2	
		L	2.5	15.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	2.5	4.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2.5-11	L	5	17	NA	NA	460[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	Non-Haz
		L	5	39.3	NA	NA	NA	ND	ND	ND	ND	ND	790	ND	ND	
		R	5	9.3	NA	NA	NA	ND	ND	ND	ND	ND	320	NA	NA	
		L	7.5	48.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		R	8.5	14.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	10	59[3]	2.8[3]	NA	880[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
		L	11	8.62	NA	NA	NA	ND	ND	ND	ND	ND	990	ND	ND	
		R	11	<3.68	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
75	0-0.5	L	Surface	292	30	1.2	NA	ND	ND	ND	ND	ND	68	NA	NA	Haz
		R	0/6.0	16.8	NA	NA	NA	ND	ND	ND	ND	98	430	13	ND	
		L	0.5	33	NA	NA	90	NA	NA	NA	NA	NA	NA	NA	NA	
	0.5-22	L	2.5	17.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Non-Haz
		L	5	33	NA	NA	210	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	35.6	NA	NA	NA	ND	ND	ND	ND	ND	710	ND	ND	
		L	7.5	15.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	10	15	NA	NA	60	NA	NA	NA	NA	NA	NA	NA	NA	
		L	10	<4.27	NA	NA	NA	ND	ND	ND	ND	ND	53	NA	NA	
		L	15	12	NA	NA	310	100	800	NA	500	46	NA	2000	NA	
		L	15	6.62	NA	NA	NA	ND	0.0063	ND	ND	1100	3100	41.3	ND	
		L	20	13	NA	NA	2200	ND	7	NA	0.2	ND	NA	22	NA	
		L	22	33	NA	NA	1200	ND	13	NA	0.4	ND	NA	14	NA	
		L	22	4.39	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	

Pier No.	Zone (ft bgs)	Sample Location	Sample Depth[1] (ft bgs)	Lead Concentration			Oil & Grease (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Toluene (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	Soil Classification
				Total (mg/kg)	WET (mg/L)	TCLP (mg/L)										
76	0-2.5	L	Surface	47	NA	NA	NA	ND	ND	ND	ND	ND	620	ND	ND	Haz
		R	0/6.0	18.1	NA	NA	NA	ND	ND	ND	ND	73	200	310	ND	
		S	0/6.0	815	5.7	0.298	NA	ND	ND	ND	ND	ND	1100	ND	ND	
		L	0.5	200	14	NA	1300[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	
		L	2.5	4.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2.5-23	L	5	17	NA	NA	460[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	Non-Haz

		L	5	16.4	NA	NA	NA	ND	ND	ND	ND	ND	77	25	1740	
		L	7.5	16.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	10	59[3]	2.8[3]	NA	880[3]	ND2	ND2	NA	ND2	ND2	NA	ND2	ND2	
		L	10	10.7	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	
		L	15	<4.59	NA	NA	NA	ND	ND	ND	ND	ND	ND	27	ND	
		L	23	18.2	NA	NA	NA	ND	ND	ND	ND	ND	540	ND	ND	
77	0-7.5	L	Surface	172	8.0	0.57	NA	ND	ND	ND	ND	ND	700	NA	NA	Haz
		SL	0/6.0	49.4	NA	NA	NA	ND	ND	ND	ND	92	560	ND	3300	
		SR	0/6.0	23.8	NA	NA	NA	ND	ND	ND	ND	25	260	ND	ND	
		L	0.5	43	NA	NA	1100	NA	NA	NA	NA	NA	NA	NA	NA	
		L	2.5	57.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	24	NA	NA	2600	NA	NA	NA	NA	NA	NA	NA	NA	
		L	5	134	9.1	0.60	NA	ND	0.0062	ND	ND	ND	1800	6.2	ND	
		L	7.5	74.6	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	7.5-23	L	10	47	NA	NA	2400	NA	NA	NA	NA	NA	NA	NA	NA	Non-Haz
		L	10	33.7	NA	NA	NA	ND	ND	ND	ND	ND	110	NA	NA	
		L	15	7.75	NA	NA	NA	ND	ND	ND	ND	ND	58	ND	ND	
		L	15	19	NA	NA	870	ND	ND	NA	ND	ND	NA	ND	ND	
		L	20	20	NA	NA	380	ND	ND	NA	ND	60	NA	ND	ND	
		L	23	12	NA	NA	1900	ND	ND	NA	ND	56	NA	ND	ND	
		L	23	55.9	1.7	NA	NA	ND	ND	ND	ND	77	220	NA	NA	
78	0-0.5	L	0.5	12000	NA	NA	1300[3]	ND[2]	ND[2]	NA	ND[2]	ND[2]	NA	ND[2]	ND[2]	Haz

NOTES:
1 This table incorporates CH2M HILL (April 1997) and PSI (April 1998) analytical results.

2 This chemical was not detected during analysis of a composite sample including soil from this sampling location and depth.

3 This chemical was detected during analysis of a composite sample including soil from this sampling location and depth.

C - Center
L - Left
ft bgs - feet below ground surface
Haz - Soil material with contaminant levels that meet or exceed the contaminant levels specified in the State of California Code of Regulations (CCR) Title 22.
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
NA - Not Analyzed.
ND - Analyzed but Not Detected.
Non-Haz - Soil material with either contaminant levels below the levels specified in CCR Title 22 or with non-detect contaminant levels.
R - Right
S - Sediment
SVOCs - Semivolatile Organic Compounds reported as the sum of all detected constituents.
TCLP - Toxicity Characteristic Leaching Procedure.
TPH-d - Total Petroleum Hydrocarbons measured as diesel
TPH-g - Total Petroleum Hydrocarbons measured as gasoline
TPH-mo - Total Petroleum Hydrocarbons measured as motor oil
VOCs - Volatile Organic Compounds reported as the sum of all detected compounds.
WET - Waste Extraction Test.

(For Section 10-1A.20, "REINFORCEMENT')

ULTIMATE BUTT SPLICES
(SUBSTRUCTURE)

ULTIMATE BUTT SPLICES

Ultimate butt splices shall be either welded or mechanical splices, shall be used at the locations shown on the plans, and shall conform to the provisions in Section 52, "Reinforcement," of the Standard Specifications and these special provisions.

GENERAL REQUIREMENTS

The Contractor shall designate in writing an ultimate butt splicing Quality Control Manager (QCM). The QCM shall be responsible directly to the Contractor for 1) the quality of all ultimate butt splicing including the inspection of materials and workmanship performed by the Contractor and all subcontractors; and 2) submitting, receiving, and approving all correspondence, required submittals, and reports regarding ultimate butt splicing to and from the Engineer.

The QCM shall not be employed or compensated by any subcontractor, or by other persons or entities hired by subcontractors, who will provide other services or materials for the project. The QCM may be an employee of the Contractor.

The length of any type of ultimate mechanical butt splice shall not exceed 10 times the bar diameter of the larger bar to be spliced.

All ultimate prejob, production, and job control sample splices shall be 1) a minimum length of 5 feet for reinforcing bars No. 8 or smaller and 6.5 feet for reinforcing bars No. 9 or larger, with the splice located at mid-point, and 2) suitably identified prior to shipment with weatherproof markings that do not interfere with the Engineer's tamper-proof markings or seals. Any splice that shows signs of tampering will be rejected.

A minimum of one control bar shall be removed from the same bar as, and adjacent to, all ultimate prejob, production, and job control sample splices. Control bars shall be 1) a minimum length of 3 feet for reinforcing bars No. 8 or smaller and 5 feet for reinforcing bars No. 9 or larger, and 2) suitably identified prior to shipment with weatherproof markings that do not interfere with the Engineer's tamper-proof markings or seals. The portion of adjacent bar remaining in the work shall also be identified with weatherproof markings that correspond to its adjacent control bar.

Shorter length sample splice and control bars may be furnished if approved in writing by the Engineer.

Each sample splice and its associated control bar shall be identified and marked as a set. Each set shall be identified as representing a prejob, production, or job control sample splice.

The portion of hoop reinforcing bar, removed to obtain a sample splice and control bar, shall be replaced using a prequalified ultimate mechanical butt splice, or the hoop shall be replaced in kind.

Reinforcing bars, other than hoops, from which sample splices are removed, shall be repaired using ultimate mechanical butt splices conforming to the provisions in "Prejob Test Requirements for Ultimate Butt Splices" specified herein, or the bars shall be replaced in kind. These bars shall be repaired or replaced such that no splices are located in the "No Splice Zone" shown on the plans.

Section 52-1.08E, "Job Control Tests," of the Standard Specifications shall not apply.

The provisions for total slip shall not apply to any ultimate splices that are welded or that are used on hoops.

The independent qualified testing laboratory used to perform the testing of all ultimate butt sample splices and control bars shall not be employed or compensated by any subcontractor, or by other persons or entities hired by subcontractors who will provide other services or materials for the project, and shall have the following:

A. Proper facilities, including a tensile testing machine capable of breaking the largest size of reinforcing bar to be tested.
B. A device for measuring the total slip of the reinforcing bars across the splice to the nearest 0.001 inch, that, when placed parallel to the longitudinal axis of the bar is able to simultaneously measure movement across the splice, at 2 locations, 180 degrees apart.
C. Operators who have received formal training for performing the testing requirements of ASTM Designation: A 370/A 370M and California Test 670.
D. A record of annual calibration of testing equipment performed by an independent third party that has 1) standards that are traceable to the National Institute of Standards and Technology, and 2) a formal reporting procedure, including published test forms.

ULTIMATE BUTT SPLICE TEST CRITERIA

Ultimate prejob, production, and job control sample splices shall be tensile tested in conformance with the requirements described in ASTM Designation: A 370/A 370M and California Test 670.

Ultimate prejob and production sample splices shall rupture in the reinforcing bar either: 1) outside of the affected zone or 2) within the affected zone, provided that the sample has achieved at least 95 percent of the ultimate tensile strength of the control bar associated with the sample. In addition, necking of the bar shall be visibly evident at rupture regardless of whether the bar breaks inside or outside the affected zone.

The affected zone is the portion of the reinforcing bar where any properties of the bar, including the physical, metallurgical, or material characteristics, have been altered by fabrication or installation of the splice.

The ultimate tensile strength of each control bar shall be determined by tensile testing the bar to rupture and shall be determined for all control bars, regardless of where each sample splice ruptures. If 2 control bars are tested for one sample splice, the bar with the lower ultimate tensile strength shall be considered the control bar.

Testing to determine the minimum tensile strength, in conformance with the provisions in the ninth paragraph of Section 52-1.08, "Splicing," of the Standard Specifications, will not be required.

PREJOB TEST REQUIREMENTS FOR ULTIMATE BUTT SPLICES

Prior to use in the work, all ultimate butt splices shall conform to the following prejob test requirements:

A. Eight prejob sample splices for each bar size of each splice type including ultimate mechanical butt splices, ultimate complete joint penetration butt welded splices, and ultimate resistance butt welded splices, that will be used in the work, shall be fabricated by the Contractor. For deformation-dependent types of couplers, 8 sample prejob splices shall also be fabricated for each reinforcing bar size and deformation pattern that will be used in the work.

B. The sample splices shall be fabricated using the same splice materials, position, operators, location, and equipment, and following the same procedures as will be used to make the splices in the work. In addition, for resistance butt welded splices, the sample splices shall have the weld flash removed and be epoxy-coated as specified elsewhere in these special provisions.

C. At the option of the Contractor, operator qualification tests may be performed simultaneously with the preparation of prejob sample splices.

D. If different diameters of hoops are shown on the plans, prejob sample splices, as described above, will only be required for the smallest hoop diameter. In addition, these splices shall be fabricated using the same radius as shown on the plans for these hoops.

E. Unless otherwise directed in writing by the Engineer, 4 prejob sample splices and control bar sets shall be shipped to the Transportation Laboratory and the remaining 4 sets shall be tested by the Contractor's independent qualified testing laboratory.

F. Each group of 4 sets from a prejob test shall be securely bundled together and identified by location and contract number with weatherproof markings prior to shipment. Bundles containing fewer than 4 sets will not be tested by the Transportation Laboratory, nor shall they be tested by the independent laboratory.

G. All 8 sample splices from each prejob test shall conform to the provisions in "Ultimate Butt Splice Test Criteria" specified herein.

H. Prior to performing any tensile tests on prejob test sample splices, one of the 4 samples shall be tested for, and shall conform to, the provisions for total slip. Should this sample not meet these requirements, one retest, in which the 3 remaining samples are tested for total slip, will be allowed. All 3 of these remaining samples tested shall conform to the aforementioned slip requirements.

I. For each bundle of 4 sets, a Prejob Test Report shall be prepared by the independent testing laboratory performing the testing. The report shall 1) be signed by an engineer who represents the laboratory and is registered as a Civil Engineer in the State of California; 2) include, as a minimum, the following information for each set: contract number, bridge number, bar size, type of splice, length of mechanical splice, physical condition of test sample splice and control bar, any notable defects, limits of affected zone, total measured slip, location of visible necking area, ultimate strength of each splice, ultimate strength and 95 percent of this ultimate strength for each control bar, and a comparison between 95 percent of the ultimate strength of each control bar and the ultimate strength of its associated splice; and 3) be submitted to the QCM for review and approval, and then to the Engineer.

J. Test results for each bundle of 4 sets will be reported in writing to the Contractor within 2 weeks after receipt of the bundle by the Transportation Laboratory. In the event that more than one bundle is received on the same day, 2 additional working days shall be allowed for providing test results for each additional bundle received. A test report will be made for each bundle received.

K. Should the Engineer fail to provide the test results within this time allowance and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of the delay in providing the test results, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

PRODUCTION TEST REQUIREMENTS FOR ULTIMATE BUTT SPLICES

Production tests shall be performed for all ultimate butt splices used in the work. A production test shall consist of 4 sets of sample splices and control bars removed from each lot of completed splices, except when quality assurance tests are performed.

A lot of ultimate butt splices is defined as 1) 150, or fraction thereof, of the same type of ultimate mechanical butt splices used for each bar size and each bar deformation pattern that is used in the work or 2) 150, or fraction thereof, of ultimate complete joint penetration butt welded splices, or ultimate resistance butt welded splices for each bar size used in the work. If different diameters of hoop reinforcement are shown on the plans, separate lots shall be used for each different hoop diameter.

After all splices in a lot have been completed, the QCM shall notify the Engineer in writing that all couplers in this lot conform to the specifications and are ready for testing. The sample splices will either be selected by the Engineer at the job site or a fabrication facility, provided the facility is located within an 50 mile radius of the jobsite.

After notification has been received, within 5 working days the Engineer will randomly select the 4 sample splices to be removed from the lot and place tamper-proof markings or seals on them. The Contractor or QCM shall select the adjacent control bar for each sample splice bar, and the Engineer will place tamper-proof markings or seals on them. These ultimate production sample splices and control bars shall be removed by the Contractor, and tested by an independent qualified testing laboratory, in the presence of either the Engineer or the Engineer's authorized representative.

The Engineer or the Engineer's authorized representative will be at the independent qualified testing laboratory within a maximum of 1 week after receiving written notification that the samples are at the laboratory and ready for testing. Should the Engineer or the Engineer's authorized representative fail to be at the laboratory within this time allowance, and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of this action, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

A sample splice or control bar from any set will be rejected if any tamper-proof marking or seal is disturbed prior to testing.

The 4 sets from each production test shall be securely bundled together and identified with a completed sample identification card prior to shipment to the independent laboratory. The card will be furnished by the Engineer. Bundles of samples containing fewer than 4 sets of splices shall not be tested.

A Production Test Report for all testing performed on each lot shall be prepared by the independent testing laboratory performing the testing and submitted to the QCM for review and approval. The report shall be signed by an engineer who represents the laboratory and is registered as a Civil Engineer in the State of California. The report shall include, as a minimum, the following information for each set: contract number, bridge number, lot number and location, bar size, type of splice, length of mechanical splice, physical condition of test sample splice and control bar, any notable defects, limits of affected zone, total measured slip, location of visible necking area, ultimate strength of each splice, ultimate strength and 95 percent of this ultimate strength for each control bar, and a comparison between 95 percent of the ultimate strength of each control bar and the ultimate strength of its associated splice.

The QCM must review, approve, and forward each Production Test Report to the Engineer for review before any splices represented by the report are encased in concrete. The Engineer shall have 3 working days to review each Production Test Report and respond in writing after a complete report has been received. Should the Contractor elect to encase any splices prior to receiving notification from the Engineer, it is expressly understood that the Contractor will not be relieved of the Contractor's responsibility for incorporating material in the work that conforms to the requirements of the plans and specifications. Any material not conforming to these requirements will be subject to rejection. Should the Contractor elect to wait to encase any splices pending notification by the Engineer, and should the Engineer fail to complete the review and provide notification within this time allowance, and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of the delay in notification, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Prior to performing any tensile tests on production test sample splices, one of the 4 samples shall be tested for, and shall conform to, the provisions for total slip. Should this sample not meet these requirements, one retest, in which the 3 remaining samples are tested for total slip, will be allowed. Should any of the 3 remaining samples not conform to these requirements, all splices in the lot represented by this production test will be rejected.

If 3 or more sample splices from any production test conform to the provisions in "Ultimate Butt Splice Test Criteria" specified herein, all splices in the lot represented by this production test will be considered acceptable.

Should only 2 sample splices from any production test conform to the provisions in "Ultimate Butt Splice Test Criteria" specified herein, one additional production test shall be performed on the same lot of splices. Should any of the 4 sample splices from this additional test fail to conform to these provisions, all splices in the lot represented by these production tests will be rejected.

If only one sample splice from any production test conforms to the provisions in "Ultimate Butt Splice Test Criteria" specified herein, all splices in the lot represented by this production test will be rejected.

If a production test for any lot fails, the Contractor will be required to repair or replace all reinforcing bars from which sample splices were removed, complete in place, before the Engineer selects any additional splices from this lot for further testing.

Whenever any lot of ultimate butt splices is rejected, additional ultimate butt splices shall not be used in the work until 1) the QCM performs a complete review of the Contractor's quality control process for these splices, 2) a written report is submitted to the Engineer describing the cause of failure for the splices in this lot and provisions for correcting these failures in future lots, and 3) the Engineer has provided the Contractor with written notification that the report is acceptable. The Engineer shall have 3 working days after receipt of the report to provide notification to the Contractor. Should the Engineer not provide notification within this time allowance, and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of this action, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Production tests will not be required on any repaired splice from a lot, regardless of the type of prequalified ultimate mechanical butt splice used to make the repair.

Should an additional production test be required, the Engineer may select any repaired splice for use in the additional production test.

QUALITY ASSURANCE TEST REQUIREMENTS FOR ULTIMATE BUTT SPLICES

For the first production test performed, and for at least one, randomly selected by the Engineer, of every 5 additional production tests, or portion thereof, performed thereafter, the Contractor shall concurrently prepare 4 additional ultimate job control sample splices along with associated control bars. These ultimate job control samples shall be prepared in the same manner as specified herein for ultimate prejob sample splices and control bars.

Each time 4 additional ultimate job control sample splices are prepared, 2 of these job control sample splice and associated control bar sets and 2 of the production sample splice and associated control bar sets, together, shall conform to the requirements for ultimate production sample splices in "Production Test Requirements for Ultimate Butt Splices" specified herein.

The 2 remaining job control sample splice and associated control bar sets, along with the 2 remaining production sample splice and associated control bar sets shall be shipped, unless otherwise directed in writing by the Engineer, to the Transportation Laboratory for quality assurance testing. The 4 sets shall be securely bundled together and identified by location and contract number with weatherproof markings prior to shipment. Bundles containing fewer than 4 sets will not be tested.

Quality assurance testing will be performed in conformance with the requirements for ultimate production sample splices in "Production Test Requirements for Ultimate Butt Splices" specified herein.

Test results for each bundle of 4 sets will be reported in writing to the Contractor within 5 working days after receipt of the bundle by Transportation Laboratory. In the event that more than one bundle is received on the same day, 2 additional working days shall be allowed for providing test results for each additional bundle received. A test report will be made for each bundle received. Should the Contractor elect to encase any splices prior to receiving notification from the Engineer, it is expressly understood that the Contractor will not be relieved of the Contractor's responsibility for incorporating material in the work that conforms to the requirements of the plans and specifications. Any material not conforming to these requirements will be subject to rejection. Should the Contractor elect to wait to encase any splices pending notification by the Engineer, and should the Engineer fail to complete the review and provide notification within this time allowance, and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of the delay in notification, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

MEASUREMENT AND PAYMENT.--Measurement and payment for reinforcement in structures shall conform to the provisions in Section 52-1.10, "Measurement," and Section 52-1.11, "Payment," of the Standard Specifications and these special provisions.

Full compensation for conforming to the provisions of "Ultimate Butt Splices," of these special provisions shall be considered as included in the contract prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

10-1A.28 CLEAN AND PAINT STRUCTURAL STEEL

Exposed new metal surfaces and connections to existing steel, except where galvanized, shall be cleaned and painted in conformance with the provisions in Sections 59-2, "Painting Structural Steel," and 91, "Paint," of the Standard Specifications and these special provisions.

Section 59-2.01, "General," of the Standard Specifications is amended by adding the following paragraph after the first paragraph:

> Unless otherwise specified, painting Contractors or subcontractors shall be required to have the following certifications from the "SSPC: The Society for Protective Coatings" (formerly the Steel Structures Painting Council), prior to performing the work.

For cleaning and painting of structural steel in the field, certification in conformance with the requirements in Qualification Procedure No. 1, "Standard Procedure For Evaluating Painting Contractors" (SSPC-QP 1).

For the removal of paint from structural steel, certification in conformance with the requirements in Qualification Procedure No. 2, "Standard Procedure For Evaluating The Qualifications of Painting Contractors To Remove Hazardous Paint" (SSPC-QP 2).

For cleaning and painting of structural steel in a permanent painting facility, certification in conformance with the requirements in Qualification Procedure No. 3, "Standard Procedure For Evaluating Qualifications of Shop Painting Contractors" (SSPC-QP 3). The AISC's Sophisticated Paint Endorsement (SPE) quality program will be considered equivalent to SSPC-QP 3.

The third paragraph of Section 59-2.03, "Blast Cleaning," of the Standard Specifications is amended to read:

> Exposed steel or other metal surfaces to be blast cleaned shall be cleaned in conformance with the requirements in Surface Preparation Specification No. 6, "Commercial Blast Cleaning," of the SSPC: The Society for Protective Coatings. Blast cleaning shall leave all surfaces with a dense, uniform, angular anchor pattern of not less than 1 1/2 mils as measured in conformance with the requirements in ASTM Designation: D4417.

The first paragraph of Section 59-2.06, "Hand Cleaning," of the Standard Specifications is amended to read:

> Dirt, loose rust and mill scale, or paint which is not firmly bonded to the surfaces shall be removed in conformance with the requirements in Surface Preparation Specification No. 2, "Hand Tool Cleaning," of the SSPC: The Society for Protective Coatings. Edges of old remaining paint shall be feathered.

The fourth paragraph of Section 59-2.12, "Painting," of the Standard Specifications is amended to read:

> The dry film thickness of the paint will be measured in place with a calibrated Type 2 magnetic film thickness gage in conformance with the requirements of specification SSPC-PA2 of the SSPC: The Society for Protective Coatings.

The Contractor shall provide suitable enclosures to permit cleaning and painting during weather in which the temperature or humidity exceeds the limits for cleaning or painting designated herein, except as approved by the Engineer. Provisions shall be made to artificially control atmospheric conditions inside the enclosures within limits suitable for cleaning throughout the cleaning operation, painting throughout the painting operation, and for the drying period. Full compensation for providing and maintaining such enclosures shall be considered as included in the prices paid for the various contract items of work requiring paint and no additional compensation will be allowed therefor.

No extension of contract time will be granted as a result of temperature or humidity which exceeds the limits for cleaning or painting designated herein, except as approved by the Engineer.

The fifth paragraph in Section 59-1.03, "Application," of the Standard Specifications is amended to read:

> Unless otherwise specified, should 7 days elapse between paint applications, the painted surface shall be water rinsed prior to the next paint application. Water rinsing is defined as a pressurized water rinse with a minimum nozzle pressure of 1200 psi. During rinsing, the tip of the pressure nozzle shall be placed between 12 and 18 inches from the surface to be rinsed. The nozzle shall have a maximum fan tip angle of 30°.

The ninth paragraph in Section 59-1.03, “Application,” of the Standard Specifications is amended to read:

Runs, sags, thin and excessively thick areas in the paint film, skips and holidays, or areas of non-uniform appearance shall be considered as evidence that the work is unsatisfactory, and the Contractor may be required to blast clean the areas and reapply the paint.

The second paragraph in Section 59-2.01, “General,” of the Standard Specifications is amended to read:

All exposed surfaces of structural steel and other metals, including inside surfaces of bolt holes when required, except galvanized or metalized surfaces, shall be cleaned and painted.

The first subparagraph of the first paragraph in Section 59-2.12, "Painting," of the Standard Specifications is amended to read:

Structures, other than sign structures, shall be blast cleaned and painted with the total thickness of undercoats before erection. Finish coats and final coats shall be applied after erection. If concrete deck is to be placed on a steel member to be painted, finish coats and final coats shall be applied after concrete deck placement. After erection and deck placement, but before applying subsequent paint, areas where paint has been damaged or has deteriorated and exposed unpainted surfaces shall be thoroughly cleaned, foreign substances shall be removed, and surfaces shall be spot painted with undercoats to the specified thickness. Damaged areas of undercoat paint shall be blast cleaned and painted as specified in the special provisions.

The third paragraph in Section 59-2.12, "Painting," of the Standard Specifications is amended to read:

Contact surfaces of stiffeners, railings, built up members, or any open seam, shall be caulked with non-silicone type sealing compound conforming to the provisions in Federal Specification TT-S-230, Type II, or other approved material. The sealing compound shall be applied no sooner than 72 hours after the last application of undercoat. The sealing compound shall be allowed to cure as recommended by the manufacturer prior to water rinsing and the application of the first finish coat. When no finish coats are applied, the sealing compound shall be gray in color.

The fourth paragraph in Section 59-2.12, "Painting," of the Standard Specifications is amended to read:

The dry film thickness of the paint will be measured in place with a calibrated Type 2 magnetic film thickness gauge in conformance with the requirements of Steel Structure Painting Council Specification SSPC-PA2.

The existing paint systems consist of materials listed in "Existing Facilities" of these special provisions. Attention is directed to the section entitled “Existing Highway Facilities,” of these special provisions, for Caltrans Report on Painting Thickness, dated August 1999. Attention is directed to Section 2-1.03, “Examination of Plans, Specifications, Contract, and Site of Work,” of the Standard Specifications, for Contractor’s responsibility to examine carefully the site of work.

CLEANING.--Exposed new metal surfaces and areas of connections to existing steel, except where galvanized, shall be dry blast cleaned and dry spot blast cleaned, respectively, in conformance with the provisions of Surface Preparation Specification No. 10, "Near White Blast Cleaning," of the SSPC: The Society for Protective Coatings. Blast cleaning shall leave surfaces with a dense, uniform, angular anchor pattern of no less than 1 1/2 mils as measured in conformance with the requirements of ASTM Designation: D 4417.

The areas of existing steel to be dry spot blast cleaned shall consist of, as a minimum: (1) contact surfaces of structural steel connections, (2) member surfaces under bolt heads, nuts or washers of all new high-strength bolted connections, (3) exposed bare surfaces of existing steel remaining after trimming, cutting, drilling, reaming, or member removal, (4) all areas of existing steel within a 4-inch radius measured in any direction from the of point of application of heat for welding or flame cutting and (5) all areas within a 4 inch by 4 inch square centered on rivet or bolt to be removed.

The Contractor shall utilize dry spot blast methods that minimize disturbance of existing paint outside the limits specified herein. All painted surfaces outside the limits specified that are marred or damaged as a result of operations of the Contractor shall be repaired by the Contractor, at their expense, with materials and to a condition equal to that of the coating specified herein, or as approved in writing by the Engineer.

Abrasives used for blast cleaning existing steel shall conform with the requirements of Abrasive Specification No. 1, “Mineral and Slag Abrasives,” of the SSPC: The Society for Protective Coatings and shall not contain hazardous material. Mineral and slag abrasives shall comply with the requirements for Class A, grade 2 to 3 as defined herein.

A Certificate of Compliance conforming to the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications and a Material Safety Data Sheet shall be furnished prior to use for each shipment of blast cleaning material for existing steel, except for silica sand.

The inside surfaces of bolt holes shall be cleaned in conformance with the provisions of Surface Preparation Specification No. 1, “Solvent Cleaning,” of the Steel Structures Painting Council, and visible rust shall be removed.

Attention is directed to Section 10-1A.02, “Existing Facilities,” regarding requirements for debris handling when cleaning existing structural steel. All requirements of this section shall apply if the Contractor elects to reclassify the blast material rather than dispose or recycle the blast material.

PAINTING.--Blast cleaned surfaces shall receive a single undercoat consisting of a waterborne inorganic zinc coating conforming to the provisions of AASHTO Designation M 300, Type II, except that: 1) the first 3 sentences of Section 4.7, "Primer Field Performance Requirements," and the entire Section 4.7.1 shall not apply, and 2) zinc dust shall be Type II in conformance with ASTM Designation: D520. The inorganic zinc coating shall be listed on the qualified products list which may be obtained from the Transportation Laboratory.

The inside surfaces of bolt holes shall be painted with one application of a zinc rich primer (organic vehicle type).

Inorganic zinc coating shall be used within 12 hours of initial mixing.

Application of inorganic zinc coating shall conform to provisions for applying zinc-rich coating in Section 59-2.13, "Application of Zinc-Rich Primer," of the Standard Specifications.

Inorganic zinc coating shall not be applied when the atmospheric or surface temperature is less than 45° F nor more than 85° F nor when the relative humidity exceeds 85 percent.

The single undercoat of inorganic zinc coating shall be applied to the required dry film thickness in 2 or more applications within 4 hours after blast cleaning.

The total dry film thickness of all applications of the single undercoat of inorganic zinc coating shall be not less than 4 mils nor more than 8 mils, except that the total dry film thickness on each contact surface of high strength bolted connections, including the surfaces of outside existing members within the grip under bolt heads, nuts and washers, shall be between 1 mil and 4 mils and may be applied in one application.

Areas where mudcracking occurs in the inorganic zinc coating shall be blast cleaned and repainted with inorganic zinc coating to the specified thickness.

All exposed area of inorganic zinc coating shall be thoroughly rinsed with a pressure system using fresh water and a minimum nozzle pressure of 1200 psi. During rinsing, the tip of the pressure nozzle shall be placed between 12 and 18 inches from the surface to be rinsed.

Dry spray (or overspray), as defined in the Steel Structures Painting Manual, Volume 1, “Good Painting Practice,” of the SSPC: The Society for Protective Coatings, shall be removed prior to application of subsequent coats or final acceptance. Removal of dry spray shall be by screening or other methods that minimize polishing of the inorganic zinc surface. The dry film thickness of the coating after removal of dry spray shall be in conformance with the provisions for applying the single undercoat, as specified herein.

The inorganic zinc coating shall be tested for adhesion and cure. The locations of the tests will be determined by the Engineer. The sequence of the testing operations shall be determined by the Contractor. The testing for adhesion and cure will be performed no sooner than 72 hours after application of the single undercoat of inorganic zinc coating. At the Contractor's expense, satisfactory access shall be provided to allow the Engineer to determine the location of the tests and to test the inorganic zinc coating cure. The inorganic zinc coating shall pass both of the following tests:

The inorganic zinc coating shall have a minimum adhesion to steel of 600 psi when measured at no more than 6 locations per member using a self-aligning adhesion tester in conformance with the requirements in ASTM Designation: D 4541. The Contractor, at the Contractor's expense, shall: (1) verify compliance with the adhesion requirements, (2) furnish test results to the Engineer, and (3) repair the coating after testing.

The inorganic zinc coating shall exhibit a solid, hard and polished metal surface when firmly scraped with the knurled edge of a quarter. Inorganic zinc coating that is powdery, soft or does not exhibit a polished metal surface, as determined by the Engineer, shall be repaired by the Contractor, at the Contractor's expense, by blast cleaning and repainting with inorganic zinc coating to the specified thickness.

The surface pH of the inorganic zinc primer shall be checked in conformance with ASTM Designation: D4262 by wetting the surface with deionized water and applying pH paper with a capability of measuring in increments of 0.5 pH units. Application of final coats will not be permitted unless the surface pH is less than 8.

Except as approved by the Engineer, a minimum curing time of 72 hours shall be allowed between application of inorganic zinc coating and water rinsing.

Exposed areas of inorganic zinc coating shall be thoroughly water rinsed.

Exposed areas of inorganic zinc coating shall receive a minimum of 2 finish coats of an exterior grade latex paint supplied by the manufacturer of the inorganic zinc coating.

The first finish coat shall be applied within 48 hours following water rinsing.

The finish coat paint shall be formulated for application to inorganic zinc coating and shall conform to the following:

Property	Value	ASTM Designation
Pigment content, percent	24 max.	D 3723
Nonvolatile content, mass percent	49 min.	D 2369
Viscosity, KU	75 min. to 90 max.	D 562
Fineness of dispersion, Hegman	6 min.	D 1210
Drying time at 77°F, 50% RH, 4 mil wet film Set to touch, minutes Dry through, hours	 30 max. 1 max.	D 1640
Adhesion	4A	D 3359, Procedure A

No visible color change in the finish coats shall occur when tested in conformance with the requirements of ASTM Designation: G 53 using FS 40 UV-B bulbs for a minimum of 38 cycles. The cycle shall be 4 hours of ultraviolet (UV) exposure at 140° F and 4 hours of condensate exposure at 104° F.

The vehicle shall be an acrylic or modified acrylic copolymer with a minimum of necessary additives.

The first finish coat shall be applied in 2 applications. The first application shall consist of a spray applied mist application. The second application shall be applied after the mist application has dried to a set to touch condition. The first finish coat color shall match Federal Standard 595B No. 34272. The total dry film thickness of both applications of the first finish coat shall be not less than 2 mils.

Except as approved by the Engineer, a minimum drying time of 12 hours shall be allowed between finish coats.

The second finish coat color shall match existing paint. The total dry film thickness of all applications of the second finish coat shall be not less than 2 mils.

The 2 finish coats shall be applied in 3 or more applications to a total dry film thickness of not less than 4 mils nor more than 8 mils.

The total dry film thickness of all applications of inorganic zinc coating and finish coat paint shall be not less than 8 mils nor more than 14 mils.

At the Contractor's option, the zinc-coated fasteners may be prepared and painted in accordance with Section 59-3, "Painting Galvanized Surfaces," of the Standard Specifications, except that the pre-treatment of vinyl wash primer will not be required. In lieu of the abrasive blasting as specified in the Standard Specifications, all exposed surfaces may be roughened by sanding with 120-grit sandpaper or equivalent. Surface roughening shall not remove zinc-coating.

Additional cleaning and painting outside the limits designated herein shall be done as directed by the Engineer and will be considered as extra work as specified in Section 4-1.03D, "Extra Work," of the Standard Specifications. Cost of repair of damage to existing paint caused by the Contractor's operations shall be borne by the Contractor.

MEASUREMENT AND PAYMENT.--Dry spot blast cleaning and undercoat painting of blast cleaned areas of existing surfaces will be measured by the square foot of spot blast cleaned areas, and will be paid for as spot blast clean and paint undercoat.

The contract price paid per square foot for spot blast clean and paint undercoat shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in spot blast cleaning

and painting undercoat on the existing surfaces complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The contract lump sum price paid for clean and paint structural steel shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in cleaning and painting the exposed surfaces of the new structural steel and finish coat on undercoated areas of existing metal, complete in place, including rinsing with a pressure system, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

(For Section 10-1B.24, "SEISMIC ISOLATION BEARINGS")

TESTING.—All seismic isolation bearings shall be prototype and proof tested to verify compliance with the physical parameters and energy requirements shown on the plans. Prototype and proof test specimens of seismic isolation bearings shall be conditioned for 12 hours at 70 degrees F. +/- 10 degrees prior to testing and the ambient temperature of the testing facility shall be maintained at 70 degrees F. +/- 10 degrees for the duration of the testing. All tests shall be performed in the presence of the Engineer.

All prototype testing shall be performed at the "Seismic Response Modification Device Test System (SRMD)" on the University of California, San Diego campus, telephone (619) 534-4640. All prototype testing will be paid for by the State, except for any re-testing due to rejection of a seismic isolation bearing. The Contractor shall notify the SRMD facility and Engineer, in writing, at least 21 days prior to the shipping of each type of seismic isolation bearing(s) to be tested.

The Contractor shall coordinate with the SRMD facility for the design and manufacturing of the adapter plates to be used to attach the bearings to the test apparatus. After testing, all adapter plates will become the property of the State.

All prototype tests shall be performed using continuous sinusoidal input at the period as shown on the plans for each device, or at a period as determined by the Engineer, unless specified otherwise herein.

The Contractor shall coordinate the testing with the SRMD facility specifying the quantity of bearings needed at pre-set times to meet the construction schedules. Testing will not be scheduled at the SRMD facility until after 12 months after contract award.

For each type of isolation bearing, the Contractor shall allow four weeks for the SRMD facility to perform the prototype testing.

All proof testing shall be performed within the continental United States. All proof testing shall be performed by the Contractor at a laboratory as approved by the Engineer, or at the Contractor's option, at the manufacturer's facility upon approval of the Engineer. All testing apparatus shall be calibrated in accordance with ASTM E4.

The Contractor shall notify the Engineer, in writing, at least 14 days prior to start of each proof test.

The hysteretic behavior of the specimens for the prototype and proof tests shall remain stable and the specimens shall show no signs of distress at all loading conditions. Anchorage components shall show no signs of distress.

Prototype and proof tested seismic isolation bearings shall be permanently marked on 2 of 4 sides; the markings shall consist of production lot number and serial number, bearing type, date of fabrication, design dead plus live load, self weight, maximum seismic lateral displacement (D_T), and contract number.

Unless otherwise determined by the Engineer, all testing shall follow the numerical sequences listed.

PROTOTYPE TESTING.--A complete series of prototype tests shall be performed on at least one full-sized specimen for each bearing type designated on the plans. A complete series of prototype tests shall be performed on individual specimens. Prototype test specimens shall not be used in the finished work and shall become the property of the State.

A complete series of prototype tests shall be performed in each of 2 directions, which are at 0° and 90° relative to the primary axis of the seismic isolation bearings for circular bearings, and at 0°and 45° relative to the primary axis of the seismic isolation bearings for square bearings.

Prototype tests 1, 2 and 3 shall be performed on seismic isolation bearings at a vertical load equal to the dead load plus seismic live load shown on the plans. For all prototype tests and for each cycle of test, the time, axial load, axial displacement, shear force, shear displacement and rotation of the prototype specimen(s) shall be continuously recorded.

Prototype Test 1. Twenty fully reversed continuous sinusoidal cycles of loading at the maximum non-seismic displacement due to maximum non-seismic lateral force shown on the plans.

Prototype Test 2. Four fully reversed continuous sinusoidal cycles of loading at each of the following increments of the maximum seismic lateral displacement (D_T) shown on the plans: 1.0, 0.25, 0.50, 0.75, and 1.0. For the first series of testing at 1.0 times the maximum seismic lateral displacement (D_T) shown on the plans, the testing shall be performed at a peak velocity of 0.2 inch per second.

Prototype Test 3. Three series of four fully reversed continuous sinusoidal cycles of loading to a displacement equal to the maximum seismic lateral displacement (D_T) shown on the plans, separated by a cooling time of less than one hour between two consecutive series. The test shall be started from a displacement equal to the maximum thermal displacement as shown on the plans one hour after loading the device to the maximum thermal displacement.

Prototype Test 4. Three fully reversed continuous sinusoidal cycles of loading at 1.2 times the maximum seismic lateral displacement (D_T) shown on the plans at a vertical load of dead load plus seismic live load plus maximum seismic overturning force shown on the plans. And, three fully reversed continuous sinusoidal cycles of loading at 1.2 times the maximum seismic lateral displacement (D_T) shown on the plans at a vertical load of dead load minus maximum seismic overturning force as shown on the plans.

Prototype Test 5. Each prototype bearing shall be tested for vertical compression stiffness at the loads of 0.3 and 1.1 times the combination of the maximum dead load and maximum live load at an imposed rotation of the minimum rotation capacity under all loadings as shown on the plans.

The prototype tests results shall satisfy the following criteria:

1. The force produced by the displacement specified in Prototype Test 1 shall be no less than the maximum non-seismic lateral force as shown on the plans.

2. The load-displacement plots of Prototype Tests 1, 2 3, and 4 shall have a positive incremental lateral stiffness (lateral load divided by displacement).
3. At each displacement increment specified in Prototype Test 2, effective stiffness (K_{eff}) of each of the cycles except the first cycle shall be within ±15 percent of the average value of effective stiffness (K_{eff}) of the given test specimen over all the cycles except the first cycle of test. The energy dissipated per cycle (EDC), for each cycle in Prototype Test 2 for the first series of testing at 1.0 times the maximum seismic lateral displacement (D_T) as shown on plans shall be equal to or greater than 85% of the value of EDC_{min} shown on the plans. The average K_{eff} for the last 3 cycles in Prototype Test 2 for the first series of testing at 1.0 times the maximum seismic displacement (D_T) as shown on plans shall be within 15% of the value of K_{eff} as shown on plans.
4. The energy dissipated per cycle (EDC) for each cycle of Prototype Test 3 shall be equal to or greater than 85% of the value of EDC_{min} shown on plans.
5. Prototype specimens shall remain stable and without splits, fractures or lack of rubber to steel bond under all loading and displacement conditions.
6. For Prototype Test 5, the measured vertical compression stiffness shall be equal to or greater than the minimum vertical compression stiffness value shown on the plans.
7. Bearings shall be inspected for uniformity of rubber layer thickness, lack of parallelism of the internal steel plates and surface cracking in accordance with ASTM D4014 Sections 9.1.3.1 and 9.1.3.2. Variations in the location of steel plates in excess of 1/8-inch shall be cause for rejection.

If a seismic isolation bearing that is prototype tested fails to meet any of the acceptance criteria for testing as determined by the Engineer, then that seismic isolation bearing will be rejected and the Contractor shall modify the design and submit revised working drawings including these modifications and prototype test another seismic isolation bearing. Seismic isolation bearing prototype testing operations shall not begin until the Engineer has approved the revised working drawings in writing. No extension of time or compensation will be made for modifying working drawings or supplemental calculations, for resubmittal and review of working drawings and supplemental calculations, for rejection of a seismic isolation bearing, and for designing and testing additional seismic isolation bearings.

After successful prototype testing, a full sized prototype specimen shall be used by the Contractor to deliver to the State as directed by the Engineer.

PROOF TESTING.--Prior to installation, all seismic isolation bearings shall be proof tested as follows:

Proof Test 1. Proof compression test: A one hour sustained proof load test on each production bearing shall be required. The compressive load for the test shall be 1.5 times the sum of maximum dead load plus maximum live load combination.

Proof Test 2. Proof vertical compression stiffness test: Each production bearing shall be tested for vertical compression stiffness at the load of 0.3 and 1.1 times the combination of the maximum dead load and maximum live load at an imposed rotation of the minimum rotation capacity under all loadings as shown on the plans. For each test, the time, axial load and axial displacement of the specimen(s) shall be continuously recorded.

Proof Test 3. Proof combined compression and shear test: Each production bearing shall be tested at a vertical load of 1.0 times the total of dead load plus seismic live load shown on the plans and 4 full reversed continuous sinusoidal cycles of loading at 1.0 times the maximum seismic lateral displacement(D_T) shown on the plans. Proof Test 3 shall be performed at a peak velocity of 0.2 inch per second. For each cycle of test, the time, axial load, axial displacement, shear force and shear displacement of the specimen(s) shall be continuously recorded. Proof Test 3 shall be performed in each of 2 directions, which are at 0° and 90° relative to the primary axis of the seismic isolation bearings for circular bearings, and at 0°and 45° relative to the primary axis of the seismic isolation bearings for square bearings.

The proof tests results shall satisfy the following criteria:

1. Proof tested seismic isolation bearings shall remain stable and without splits, fractures or lack of rubber to steel bond at all loading conditions.
2. Bearings shall be inspected for uniformity of rubber layer thickness, lack of parallelism of the internal steel plates and surface cracking in accordance with ASTM D4014 Sections 9.1.3.1 and 9.1.3.2. Variations in the location of steel plates in excess of 1/8-inch shall be cause for rejection.

3. The measured vertical compression stiffness shall be equal to or greater than the minimum vertical compression stiffness value shown on the plans.
4. The averaged (K_{eff}) for the last 3 cycles shall be within 15% of the value of (K_{eff}) shown on the plans.
5. The energy dissipated per cycle (EDC) shall be equal to or greater than 85% of the value of EDC_{min} shown on the plans.

If a seismic isolation bearing that is proof tested fails to meet any of the acceptance criteria for testing as determined by the Engineer, then that seismic isolation bearing will be rejected. No extension of time or compensation will be made for re-testing additional seismic isolation bearings due to rejection of a seismic isolation bearing.

(For Section 10-1B.27, "VISCOUS DAMPING DEVICES")

PROTOTYPE TESTS.-- For each viscous damper type shown on the plans, two full-scale prototype dampers shall be manufactured and tested in accordance with these special provisions. A complete series of prototype tests shall be performed on individual specimen

The prototype tests shall be performed on damping devices as follows:

Prototype Test 1. One fully reversed cycle at slow speed from zero displacement to maximum displacement in compression, then to the maximum displacement in tension, and then back to zero displacement.

Prototype Test 2. Five continuous fully reversed cycles of sinusoidal loading to achieve peak velocity and reach the value of test displacement at each of the following increments of the design rated velocity or a lower velocity as determined by the Engineer: 0.25, 0.50, 0.75, and 1.0. The minimum value of test displacement shall be plus and minus 12.0 inches.

Prototype Test 3. Three continuous fully reversed cycles of sinusoidal loading through the full stroke of the damping device, and to achieve the peak velocity at the design rated velocity as shown on the plans or at a lower velocity as determined by the Engineer.

Prototype Test 4. Two prototype viscous damping devices (225 Kips) tested shall be tested continuously for wind loads with a +/- 1 inch stroke at a 2.5 second period for two series of 100 sinusoidal cycles, separated by a cooling time of less than one hour between the two series. Tests shall be terminated when the temperature of the damper has reached the manufacturer's maximum recommended temperature and the device will be rejected.

The prototype test results shall satisfy the following conditions:

The displacement capacity results from Prototype Test 1 shall be greater than or equal to the total stroke as shown on the plans.

All resisting force (F) values from Prototype Test 2 shall be within +/-8% of the "Design Criteria" formulae shown on the plans for the first cycle for each increment of the design rated velocity.

The value of all resisting force (F) values from Prototype Test 2 for each increment of the design rated velocity, and each of the last four cycles shall be within 15% of the "Design Criteria" formula shown on the plans.

For the first cycle in Prototype Test 3 for Viscous Damping Devices (Pier 19), the value of energy dissipated per cycle (EDC) shall not be less than the EDC_{min} value shown on the plans.

Damper test results shall display a first cycle peak resisting force for Test 3 within +/- 8% of the "Design Criteria" formula as shown on the plans. The peak force from the third cycle shall not drop more than 15% from the peak force of the first cycle for Test 3.

There shall be no visible leakage or signs of physical deterioration, in the judgment of the Engineer, observed during or after these Prototype Tests.

The Contractor may incorporate the prototype damper into the structure at the approval of the Engineer.

If a viscous damping device that is prototype tested fails to meet any of the acceptance criteria for testing, as determined by the Engineer, then that viscous damping device will be rejected and the Contractor shall modify the design and submit revised working drawings including these modifications and prototype test another viscous damping device. Viscous damping device prototype testing operations shall not begin until the Engineer has approved the revised working drawings in writing. No extension of time or compensation will be made for modifying working drawings or supplemental calculations, for resubmittal and review of working drawings and supplemental calculations, for rejection of a viscous damping device, and for designing and testing additional viscous damping devices.

PROOF (PRODUCTION) TESTS.-- Prior to installation, each damping device shall be proof tested in the presence of the Engineer, as follows:

Proof Test 1. Proof Pressure Test. An internal pressure equal to 125 percent of the operating pressure at the design rated velocity shall be applied to each damping device and maintained for a minimum of 120 seconds without a pressure drop. Proof Test 1. Will be performed by the manufacturer at their facility prior to shipment.

Proof Test 2. Stroke Verification Test. One fully reversed cycle at slow speed from zero displacement to maximum displacement in compression, then to the maximum displacement in tension, and then back to zero displacement.

Proof Test 3. Full Velocity and Stroke Test. Three continuous fully reversed cycles of sinusoidal loading through the total stroke of the damping device, and to achieve peak design velocity at the design rated velocity as shown on the plans, at a lower velocity as determined by the Engineer.

The proof test results shall satisfy the following conditions:

There shall be no visible leakage or signs of physical deterioration, in the judgment of the Engineer, observed during or after these Proof tests.

The displacement capacity results from Proof Test 2 shall be greater than or equal to the total stroke shown on the plans.

Damper test results shall display a first cycle peak resisting force for Proof Test 3 within +/-8% of the "Design Criteria" formula as shown on the plans. The peak force from the third cycle shall not drop more than 15% from the peak force of the first cycle for Proof Test 3.

For the first cycle in Proof Test 3 for Viscous Damping Devices (Pier 19), the value of Energy Dissipated per Cycle (EDC) shall not be less than the EDC_{min} value shown on the plans.

If a proof test damping device fails to comply with these specifications, it shall be rejected and replaced, at no cost to the State.

If a viscous damping device that is proof tested fails to meet any of the acceptance criteria for testing as determined by the Engineer, then that viscous damping device will be rejected. No extension of time or compensation will be made for re-testing additional viscous damping devices due to rejection of a viscous damping device.

(For Section 10-1B.29, "REINFORCEMENT")

ULTIMATE BUTT SPLICES (SUPERSTRUCTURE)

ULTIMATE BUTT SPLICES

Ultimate butt splices shall be either welded or mechanical splices, shall be used at the locations shown on the plans, and shall conform to the provisions in Section 52, "Reinforcement," of the Standard Specifications and these special provisions.

GENERAL REQUIREMENTS

The Contractor shall designate in writing an ultimate butt splicing Quality Control Manager (QCM). The QCM shall be responsible directly to the Contractor for 1) the quality of all ultimate butt splicing including the inspection of materials and workmanship performed by the Contractor and all subcontractors; and 2) submitting, receiving, and approving all correspondence, required submittals, and reports regarding ultimate butt splicing to and from the Engineer.

The QCM shall not be employed or compensated by any subcontractor, or by other persons or entities hired by subcontractors, who will provide other services or materials for the project. The QCM may be an employee of the Contractor.

The length of any type of ultimate mechanical butt splice shall not exceed 10 times the bar diameter of the larger bar to be spliced.

All ultimate prejob, production, and job control sample splices shall be 1) a minimum length of 5 feet for reinforcing bars No. 8 or smaller and 6.5 feet for reinforcing bars No. 9 or larger, with the splice located at mid-point, and 2) suitably identified prior to shipment with weatherproof markings that do not interfere with the Engineer's tamper-proof markings or seals. Any splice that shows signs of tampering will be rejected.

A minimum of one control bar shall be removed from the same bar as, and adjacent to, all ultimate prejob, production, and job control sample splices. Control bars shall be 1) a minimum length of 3 feet for reinforcing bars No. 8 or smaller and 5 feet for reinforcing bars No. 9 or larger, and 2) suitably identified prior to shipment with weatherproof markings that do not interfere with the Engineer's tamper-proof markings or seals. The portion of adjacent bar remaining in the work shall also be identified with weatherproof markings that correspond to its adjacent control bar.

Shorter length sample splice and control bars may be furnished if approved in writing by the Engineer.

Each sample splice and its associated control bar shall be identified and marked as a set. Each set shall be identified as representing a prejob, production, or job control sample splice.

The portion of hoop reinforcing bar, removed to obtain a sample splice and control bar, shall be replaced using a prequalified ultimate mechanical butt splice, or the hoop shall be replaced in kind.

Reinforcing bars, other than hoops, from which sample splices are removed, shall be repaired using ultimate mechanical butt splices conforming to the provisions in "Prejob Test Requirements for Ultimate Butt Splices" specified herein, or the bars shall be replaced in kind. These bars shall be repaired or replaced such that no splices are located in the "No Splice Zone" shown on the plans.

Section 52-1.08E, "Job Control Tests," of the Standard Specifications shall not apply.

The provisions for total slip shall not apply to any ultimate splices that are welded or that are used on hoops.

The independent qualified testing laboratory used to perform the testing of all ultimate butt sample splices and control bars shall not be employed or compensated by any subcontractor, or by other persons or entities hired by subcontractors who will provide other services or materials for the project, and shall have the following:

A. Proper facilities, including a tensile testing machine capable of breaking the largest size of reinforcing bar to be tested.
B. A device for measuring the total slip of the reinforcing bars across the splice to the nearest 0.001 inch, that, when placed parallel to the longitudinal axis of the bar is able to simultaneously measure movement across the splice, at 2 locations, 180 degrees apart.
C. Operators who have received formal training for performing the testing requirements of ASTM Designation: A 370/A 370M and California Test 670.
D. A record of annual calibration of testing equipment performed by an independent third party that has 1) standards that are traceable to the National Institute of Standards and Technology, and 2) a formal reporting procedure, including published test forms.

ULTIMATE BUTT SPLICE TEST CRITERIA

Ultimate prejob, production, and job control sample splices shall be tensile tested in conformance with the requirements described in ASTM Designation: A 370/A 370M and California Test 670.

Ultimate prejob and production sample splices shall rupture in the reinforcing bar either: 1) outside of the affected zone or 2) within the affected zone, provided that the sample has achieved at least 95 percent of the ultimate tensile strength of the control bar associated with the sample. In addition, necking of the bar shall be visibly evident at rupture regardless of whether the bar breaks inside or outside the affected zone.

The affected zone is the portion of the reinforcing bar where any properties of the bar, including the physical, metallurgical, or material characteristics, have been altered by fabrication or installation of the splice.

The ultimate tensile strength of each control bar shall be determined by tensile testing the bar to rupture and shall be determined for all control bars, regardless of where each sample splice ruptures. If 2 control bars are tested for one sample splice, the bar with the lower ultimate tensile strength shall be considered the control bar.

Testing to determine the minimum tensile strength, in conformance with the provisions in the ninth paragraph of Section 52-1.08, "Splicing," of the Standard Specifications, will not be required.

PREJOB TEST REQUIREMENTS FOR ULTIMATE BUTT SPLICES

Prior to use in the work, all ultimate butt splices shall conform to the following prejob test requirements:

A. Eight prejob sample splices for each bar size of each splice type including ultimate mechanical butt splices, ultimate complete joint penetration butt welded splices, and ultimate resistance butt welded splices, that will be used in the work, shall be fabricated by the Contractor. For deformation-dependent types of couplers, 8 sample prejob splices shall also be fabricated for each reinforcing bar size and deformation pattern that will be used in the work.

B. The sample splices shall be fabricated using the same splice materials, position, operators, location, and equipment, and following the same procedures as will be used to make the splices in the work. In addition, for resistance butt welded splices, the sample splices shall have the weld flash removed and be epoxy-coated as specified elsewhere in these special provisions.

C. At the option of the Contractor, operator qualification tests may be performed simultaneously with the preparation of prejob sample splices.

D. If different diameters of hoops are shown on the plans, prejob sample splices, as described above, will only be required for the smallest hoop diameter. In addition, these splices shall be fabricated using the same radius as shown on the plans for these hoops.

E. Unless otherwise directed in writing by the Engineer, 4 prejob sample splices and control bar sets shall be shipped to the Transportation Laboratory and the remaining 4 sets shall be tested by the Contractor's independent qualified testing laboratory.

F. Each group of 4 sets from a prejob test shall be securely bundled together and identified by location and contract number with weatherproof markings prior to shipment. Bundles containing fewer than 4 sets will not be tested by the Transportation Laboratory, nor shall they be tested by the independent laboratory.

G. All 8 sample splices from each prejob test shall conform to the provisions in "Ultimate Butt Splice Test Criteria" specified herein.

H. Prior to performing any tensile tests on prejob test sample splices, one of the 4 samples shall be tested for, and shall conform to, the provisions for total slip. Should this sample not meet these requirements, one retest, in which the 3 remaining samples are tested for total slip, will be allowed. All 3 of these remaining samples tested shall conform to the aforementioned slip requirements.

I. For each bundle of 4 sets, a Prejob Test Report shall be prepared by the independent testing laboratory performing the testing. The report shall 1) be signed by an engineer who represents the laboratory and is registered as a Civil Engineer in the State of California; 2) include, as a minimum, the following information for each set: contract number, bridge number, bar size, type of splice, length of mechanical splice, physical condition of test sample splice and control bar, any notable defects, limits of affected zone, total measured slip, location of visible necking area, ultimate strength of each splice, ultimate strength and 95 percent of this ultimate strength for each control bar, and a comparison between 95 percent of the ultimate strength of each control bar and the ultimate strength of its associated splice; and 3) be submitted to the QCM for review and approval, and then to the Engineer.

J. Test results for each bundle of 4 sets will be reported in writing to the Contractor within 2 weeks after receipt of the bundle by the Transportation Laboratory. In the event that more than one bundle is received on the same day, 2 additional working days shall be allowed for providing test results for each additional bundle received. A test report will be made for each bundle received.

K. Should the Engineer fail to provide the test results within this time allowance and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of the delay in providing the test results, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

PRODUCTION TEST REQUIREMENTS FOR ULTIMATE BUTT SPLICES

Production tests shall be performed for all ultimate butt splices used in the work. A production test shall consist of 4 sets of sample splices and control bars removed from each lot of completed splices, except when quality assurance tests are performed.

A lot of ultimate butt splices is defined as 1) 150, or fraction thereof, of the same type of ultimate mechanical butt splices used for each bar size and each bar deformation pattern that is used in the work or 2) 150, or fraction thereof, of ultimate complete joint penetration butt welded splices, or ultimate resistance butt welded splices for each bar size used in the work. If different diameters of hoop reinforcement are shown on the plans, separate lots shall be used for each different hoop diameter.

After all splices in a lot have been completed and the bars have been epoxy-coated, the QCM shall notify the Engineer in writing that all couplers in this lot conform to the specifications and are ready for testing. The sample splices will either be selected by the Engineer at the job site or a fabrication facility, provided the facility is located within an 50 mileradius of the jobsite.

At the option of the Contractor, sample splices for reinforcement, in 66” CIDH concrete piling at Bents 33-L, 34-L, 35-L, 36-L, and 37-L may be either 1) removed from the completed lot, or 2) prepared in the same manner as specified herein for ultimate prejob sample splices and control bars.

After notification has been received, within 5 working days the Engineer will randomly select the 4 sample splices to be removed from the lot and place tamper-proof markings or seals on them. The Contractor or QCM shall select the adjacent control bar for each sample splice bar, and the Engineer will place tamper-proof markings or seals on them. These ultimate production sample splices and control bars shall be removed by the Contractor, and tested by an independent qualified testing laboratory, in the presence of either the Engineer or the Engineer's authorized representative.

The Engineer or the Engineer's authorized representative will be at the independent qualified testing laboratory within a maximum of 1 week after receiving written notification that the samples are at the laboratory and ready for testing. Should the Engineer or the Engineer's authorized representative fail to be at the laboratory within this time allowance, and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of this action, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

A sample splice or control bar from any set will be rejected if any tamper-proof marking or seal is disturbed prior to testing.

The 4 sets from each production test shall be securely bundled together and identified with a completed sample identification card prior to shipment to the independent laboratory. The card will be furnished by the Engineer. Bundles of samples containing fewer than 4 sets of splices shall not be tested.

A Production Test Report for all testing performed on each lot shall be prepared by the independent testing laboratory performing the testing and submitted to the QCM for review and approval. The report shall be signed by an engineer who represents the laboratory and is registered as a Civil Engineer in the State of California. The report shall include, as a minimum, the following information for each set: contract number, bridge number, lot number and location, bar size, type of splice, length of mechanical splice, physical condition of test sample splice and control bar, any notable defects, limits of affected zone, total measured slip, location of visible necking area, ultimate strength of each splice, ultimate strength and 95 percent of this ultimate strength for each control bar, and a comparison between 95 percent of the ultimate strength of each control bar and the ultimate strength of its associated splice.

The QCM must review, approve, and forward each Production Test Report to the Engineer for review before any splices represented by the report are encased in concrete. The Engineer shall have 3 working days to review each Production Test Report and respond in writing after a complete report has been received. Should the Contractor elect to encase any splices prior to receiving notification from the Engineer, it is expressly understood that the Contractor will not be relieved of the Contractor's responsibility for incorporating material in the work that conforms to the requirements of the plans and specifications. Any material not conforming to these requirements will be subject to rejection. Should the Contractor elect to wait to encase any splices pending notification by the Engineer, and should the Engineer fail to complete the review and provide notification within this time allowance, and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of the delay in notification, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

At the option of the Contractor, any splices at the locations listed below may be encased in concrete prior to having the QCM review, approve, and forward each Production Test Report to the Engineer. Should the Contractor exercise this option, it is expressly understood that the Contractor will not be relieved of the Contractor's responsibility for incorporating material in the work that conforms to the requirements of the plans and specifications. Any material not conforming to these requirements will be subject to rejection.

Main reinforcement in 66" CIDH concrete piling at Bents 33-L, 34-L, 35-L, 36-L, and 37-L.

Prior to performing any tensile tests on production test sample splices, one of the 4 samples shall be tested for, and shall conform to, the provisions for total slip. Should this sample not meet these requirements, one retest, in which the 3 remaining samples are tested for total slip, will be allowed. Should any of the 3 remaining samples not conform to these requirements, all splices in the lot represented by this production test will be rejected.

If 3 or more sample splices from any production test conform to the provisions in "Ultimate Butt Splice Test Criteria" specified herein, all splices in the lot represented by this production test will be considered acceptable.

Should only 2 sample splices from any production test conform to the provisions in "Ultimate Butt Splice Test Criteria" specified herein, one additional production test shall be performed on the same lot of splices. Should any of the 4 sample splices from this additional test fail to conform to these provisions, all splices in the lot represented by these production tests will be rejected.

If only one sample splice from any production test conforms to the provisions in "Ultimate Butt Splice Test Criteria" specified herein, all splices in the lot represented by this production test will be rejected.

If a production test for any lot fails, the Contractor will be required to repair or replace all reinforcing bars from which sample splices were removed, complete in place, before the Engineer selects any additional splices from this lot for further testing.

Whenever any lot of ultimate butt splices is rejected, additional ultimate butt splices shall not be used in the work until 1) the QCM performs a complete review of the Contractor's quality control process for these splices, 2) a written report is submitted to the Engineer describing the cause of failure for the splices in this lot and provisions for correcting these failures in future lots, and 3) the Engineer has provided the Contractor with written notification that the report is acceptable. The Engineer shall have 3 working days after receipt of the report to provide notification to the Contractor. Should the Engineer not provide notification within this time allowance, and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of this action, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Production tests will not be required on any repaired splice from a lot, regardless of the type of prequalified ultimate mechanical butt splice used to make the repair.

Should an additional production test be required, the Engineer may select any repaired splice for use in the additional production test.

QUALITY ASSURANCE TEST REQUIREMENTS FOR ULTIMATE BUTT SPLICES

For the first production test performed, and for at least one, randomly selected by the Engineer, of every 5 additional production tests, or portion thereof, performed thereafter, the Contractor shall concurrently prepare 4 additional ultimate job control sample splices along with associated control bars. These ultimate job control samples shall be prepared in the same manner as specified herein for ultimate prejob sample splices and control bars.

Each time 4 additional ultimate job control sample splices are prepared, 2 of these job control sample splice and associated control bar sets and 2 of the production sample splice and associated control bar sets, together, shall conform to the requirements for ultimate production sample splices in "Production Test Requirements for Ultimate Butt Splices" specified herein.

The 2 remaining job control sample splice and associated control bar sets, along with the 2 remaining production sample splice and associated control bar sets shall be shipped, unless otherwise directed in writing by the Engineer, to the Transportation Laboratory for quality assurance testing. The 4 sets shall be securely bundled together and identified by location and contract number with weatherproof markings prior to shipment. Bundles containing fewer than 4 sets will not be tested.

Quality assurance testing will be performed in conformance with the requirements for ultimate production sample splices in "Production Test Requirements for Ultimate Butt Splices" specified herein.

Test results for each bundle of 4 sets will be reported in writing to the Contractor within 5 working days after receipt of the bundle by Transportation Laboratory. In the event that more than one bundle is received on the same day, 2 additional working days shall be allowed for providing test results for each additional bundle received. A test report will be made for each bundle received. Should the Contractor elect to encase any splices prior to receiving notification from the Engineer, it is expressly understood that the Contractor will not be relieved of the Contractor's responsibility for incorporating material in

the work that conforms to the requirements of the plans and specifications. Any material not conforming to these requirements will be subject to rejection. Should the Contractor elect to wait to encase any splices pending notification by the Engineer, and should the Engineer fail to complete the review and provide notification within this time allowance, and if, in the opinion of the Engineer, the Contractor's controlling operation is delayed or interfered with by reason of the delay in notification, the delay will be considered a right of way delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

MEASUREMENT AND PAYMENT.--Measurement and payment for reinforcement in structures shall conform to the provisions in Section 52-1.10, "Measurement," and Section 52-1.11, "Payment," of the Standard Specifications and these special provisions.

Full compensation for conforming to the provisions of "Ultimate Butt Splices," of these special provisions shall be considered as included in the contract prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

10-1B.36 CLEAN AND PAINT STRUCTURAL STEEL

Exposed new metal surfaces and connections to existing steel, except where galvanized, shall be cleaned and painted in conformance with the provisions in Sections 59-2, "Painting Structural Steel," and 91, "Paint," of the Standard Specifications and these special provisions.

Section 59-2.01, "General," of the Standard Specifications is amended by adding the following paragraph after the first paragraph:

Unless otherwise specified, painting Contractors or subcontractors shall be required to have the following certifications from the "SSPC: The Society for Protective Coatings" (formerly the Steel Structures Painting Council), prior to performing the work.

A For cleaning and painting of structural steel in the field, certification in conformance with the requirements in Qualification Procedure No. 1, “Standard Procedure For Evaluating Painting Contractors” (SSPC-QP 1).

16. For the removal of paint from structural steel, certification in conformance with the requirements in Qualification Procedure No. 2, “Standard Procedure For Evaluating The Qualifications of Painting Contractors To Remove Hazardous Paint” (SSPC-QP 2).
17. For cleaning and painting of structural steel in a permanent painting facility, certification in conformance with the requirements in Qualification Procedure No. 3, “Standard Procedure For Evaluating Qualifications of Shop Painting Contractors” (SSPC-QP 3). The AISC’s Sophisticated Paint Endorsement (SPE) quality program will be considered equivalent to SSPC-QP 3.

The third paragraph of Section 59-2.03, “Blast Cleaning,” of the Standard Specifications is amended to read:

Exposed steel or other metal surfaces to be blast cleaned shall be cleaned in conformance with the requirements in Surface Preparation Specification No. 6, “Commercial Blast Cleaning,” of the SSPC: The Society for Protective Coatings. Blast cleaning shall leave all surfaces with a dense, uniform, angular anchor pattern of not less than 1 1/2 mils as measured in conformance with the requirements in ASTM Designation: D4417.

The first paragraph of Section 59-2.06, “Hand Cleaning,” of the Standard Specifications is amended to read:

Dirt, loose rust and mill scale, or paint which is not firmly bonded to the surfaces shall be removed in conformance with the requirements in Surface Preparation Specification No. 2, “Hand Tool Cleaning,” of the SSPC: The Society for Protective Coatings. Edges of old remaining paint shall be feathered.

The fourth paragraph of Section 59-2.12, “Painting,” of the Standard Specifications is amended to read:

The dry film thickness of the paint will be measured in place with a calibrated Type 2 magnetic film thickness gage in conformance with the requirements of specification SSPC-PA2 of the SSPC: The Society for Protective Coatings.

The Contractor shall provide suitable enclosures to permit cleaning and painting during weather in which the temperature or humidity exceeds the limits for cleaning or painting designated herein, except as approved by the Engineer. Provisions shall be made to artificially control atmospheric conditions inside the enclosures within limits suitable for cleaning throughout the cleaning operation, painting throughout the painting operation, and for the drying period. Full compensation for providing and maintaining such enclosures shall be considered as included in the prices paid for the various contract items of work requiring paint and no additional compensation will be allowed therefor.

No extension of contract time will be granted as a result of temperature or humidity which exceeds the limits for cleaning or painting designated herein, except as approved by the Engineer.

The fifth paragraph in Section 59-1.03, "Application," of the Standard Specifications is amended to read:

Unless otherwise specified, should 7 days elapse between paint applications, the painted surface shall be water rinsed prior to the next paint application. Water rinsing is defined as a pressurized water rinse with a minimum nozzle pressure of 1200 psi. During rinsing, the tip of the pressure nozzle shall be placed between 12 and 18 inches from the surface to be rinsed. The nozzle shall have a maximum fan tip angle of 30°.

The ninth paragraph in Section 59-1.03, "Application," of the Standard Specifications is amended to read:

Runs, sags, thin and excessively thick areas in the paint film, skips and holidays, or areas of non-uniform appearance shall be considered as evidence that the work is unsatisfactory, and the Contractor may be required to blast clean the areas and reapply the paint.

The second paragraph in Section 59-2.01, "General," of the Standard Specifications is amended to read:

All exposed surfaces of structural steel and other metals, including inside surfaces of bolt holes when required, except galvanized or metalized surfaces, shall be cleaned and painted.

The first subparagraph of the first paragraph in Section 59-2.12, "Painting," of the Standard Specifications is amended to read:

Structures, other than sign structures, shall be blast cleaned and painted with the total thickness of undercoats before erection. Finish coats and final coats shall be applied after erection. If concrete deck is to be placed on a steel member to be painted, finish coats and final coats shall be applied after concrete deck placement. After erection and deck placement, but before applying subsequent paint, areas where paint has been damaged or has deteriorated and exposed unpainted surfaces shall be thoroughly cleaned, foreign substances shall be removed, and surfaces shall be spot painted with undercoats to the specified thickness. Damaged areas of undercoat paint shall be blast cleaned and painted as specified in the special provisions.

The third paragraph in Section 59-2.12, "Painting," of the Standard Specifications is amended to read:

Contact surfaces of stiffeners, railings, or built up members, or any open seam, shall be caulked with non-silicone type sealing compound conforming to the provisions in Federal Specification TT-S-230, Type II, or other approved material. The sealing compound shall be applied no sooner than 72 hours after the last application of undercoat. The sealing compound shall be allowed to cure as recommended by the manufacturer prior to water rinsing and application of the first finish coat. When no finish coats are applied, the sealing compound shall be gray in color.

The fourth paragraph in Section 59-2.12, "Painting," of the Standard Specifications is amended to read:

The dry film thickness of the paint will be measured in place with a calibrated Type 2 magnetic film thickness gauge in conformance with the requirement of Steel Structure Painting Council Specification SSPC-PA2.

The existing paint systems consist of materials listed in "Existing Facilities" of these special provisions. Attention is directed to the section entitled “Existing Highway Facilities,” of these special provisions, for Caltrans Report on Painting Thickness, dated August 1999. Attention is directed to Section 2-1.03, “Examination of Plans, Specifications, Contract, and Site of Work,” of the Standard Specifications, for Contractor’s responsibility to examine carefully the site of work.

CLEANING.--Exposed new metal surfaces and areas of connections to existing steel, except where galvanized, shall be dry blast cleaned and dry spot blast cleaned, respectively, in conformance with the provisions of Surface Preparation Specification No. 10, "Near White Blast Cleaning," of the SSPC: The Society for Protective Coatings. Blast cleaning shall leave all surfaces with a dense, uniform, angular anchor pattern of no less than 1 1/2 mils as measured in conformance with the requirement of with ASTM Designation: D 4417.

The areas of existing steel to be dry spot blast cleaned shall consist of, as a minimum: (1) contact surfaces of structural steel connection, (2) member surfaces under bolt heads, nuts or washers of all new high-strength bolted connections, (3) exposed bare surfaces of existing steel remaining after trimming, cutting, drilling, reaming, or member removal, (4) all areas of existing steel within a 4-inch radius measured in any direction from the of point of application of heat for welding or flame cutting and (5) all areas within a 4 inch by 4 inch square centered on rivet or bolt to be removed.

The Contractor shall utilize dry spot blast methods that minimize disturbance of existing paint outside the limits specified herein. All painted surfaces outside the limits specified that are marred or damaged as a result of operations of the Contractor shall be repaired by the Contractor, at their expense, with materials and to a condition equal to that of the coating specified herein, or as approved in writing by the Engineer.

Abrasives used for blast cleaning existing steel shall conform with the requirements of Abrasive Specification No. 1, “Mineral and Slag Abrasives,” of the SSPC: The Society for Protective Coatings and shall not contain hazardous material. Mineral and slag abrasives shall comply with the requirements for Class A, grade 2 to 3 as defined therein.

The inside surfaces of bolt holes shall be cleaned in conformance with the provisions of Surface Preparation Specification No. 1, "Solvent Cleaning," of the Steel Structures Painting Council, and visible rust shall be removed.

At the main spans vertical member retrofitting where stiffeners and cover plates are added to existing steel members without the removal of any existing steel, the existing steel surface area that will be in contact with the new stiffeners and cover plates, and the existing steel surface area that will be within the grip under bolt heads, nut, and washers need not be dry blast cleaned but shall be steam cleaned in accordance with Section 59-2.05, “Steam Cleaning,” of the Standard Specifications.

Attention is directed to Section 10-1A.02, “Existing Facilities,” regarding requirements for debris handling when cleaning existing structural steel. All requirements of this section shall apply if the Contractor elects to reclassify the blast material rather than dispose or recycle the blast material.

PAINTING.--Blast cleaned surfaces shall receive a single undercoat consisting of a waterborne inorganic zinc coating conforming to the provisions of AASHTO Designation M 300, Type II, except that: 1) the first 3 sentences of Section 4.7, "Primer Field Performance Requirements," and the entire Section 4.7.1 shall not apply, and 2) zinc dust shall be Type II in conformance with ASTM Designation: D520. The inorganic zinc coating shall be listed on the qualified products list which may be obtained from the Transportation Laboratory.

The inside surfaces of bolt holes shall be painted with one application of a zinc rich primer (organic vehicle type).

Inorganic zinc coating shall be used within 12 hours of initial mixing.

Application of inorganic zinc coating shall conform to provisions for applying zinc-rich coating in Section 59-2.13, "Application of Zinc-Rich Primer," of the Standard Specifications.

Inorganic zinc coating shall not be applied when the atmospheric or surface temperature is less than 45° F nor more than 85° F nor when the relative humidity exceeds 85 percent.

The single undercoat of inorganic zinc coating shall be applied to the required dry film thickness in 2 or more applications within 4 hours after blast cleaning.

The total dry film thickness of all applications of the single undercoat of inorganic zinc coating shall be not less than 4 mils nor more than 8 mils, except that the total dry film thickness on each contact surface of high strength bolted connections, including the surfaces of outside existing members within the grip under bolt heads, nuts and washers, shall be between 1 mil and 4 mils and may be applied in one application.

Areas where mudcracking occurs in the inorganic zinc coating shall be blast cleaned and repainted with inorganic zinc coating to the specified thickness.

All exposed area of inorganic zinc coating shall be thoroughly rinsed with a pressure system using fresh water and a minimum nozzle pressure of 1200 psi. During rinsing, the tip of the pressure nozzle shall be placed between 12 and 18 inches from the surface to be rinsed.

Dry spray (or overspray), as defined in the Steel Structures Painting Manual, Volume 1, “Good Painting Practice,” of the SSPC: The Society for Protective Coatings, shall be removed prior to application of subsequent coats or final acceptance. Removal of dry spray shall be by screening or other methods that minimize polishing of the inorganic zinc surface. The dry film thickness of the coating after removal of dry spray shall be in conformance with the provisions for applying the single undercoat, as specified herein.

The inorganic zinc coating shall be tested for adhesion and cure. The locations of the tests will be determined by the Engineer. The sequence of the testing operations shall be determined by the Contractor. The testing for adhesion and cure will be performed no sooner than 72 hours after application of the single undercoat of inorganic zinc coating. At the Contractor's expense, satisfactory access shall be provided to allow the Engineer to determine the location of the tests and to test the inorganic zinc coating cure. The inorganic zinc coating shall pass both of the following tests:

The inorganic zinc coating shall have a minimum adhesion to steel of 600 psi when measured at no more than 6 locations per member using a self-aligning adhesion tester in conformance with the requirements in ASTM Designation: D 4541. The Contractor, at the Contractor's expense, shall: (1) verify compliance with the adhesion requirements, (2) furnish test results to the Engineer, and (3) repair the coating after testing.

The inorganic zinc coating shall exhibit a solid, hard and polished metal surface when firmly scraped with the knurled edge of a quarter. Inorganic zinc coating that is powdery, soft or does not exhibit a polished metal surface, as determined by the Engineer, shall be repaired by the Contractor, at the Contractor's expense, by blast cleaning and repainting with inorganic zinc coating to the specified thickness.

The surface pH of the inorganic zinc primer shall be checked in conformance with ASTM Designation: D4262 by wetting the surface with deionized water and applying pH paper with a capability of measuring in increments of 0.5 pH units. Application of final coats will not be permitted unless the surface pH is less than 8.

Except as approved by the Engineer, a minimum curing time of 72 hours shall be allowed between application of inorganic zinc coating and water rinsing.

Exposed areas of inorganic zinc coating shall be thoroughly water rinsed.

Exposed areas of inorganic zinc coating shall receive a minimum of 2 finish coats of an exterior grade latex paint supplied by the manufacturer of the inorganic zinc coating.

The first finish coat shall be applied within 48 hours following water rinsing.

The finish coat paint shall be formulated for application to inorganic zinc coating and shall conform to the following:

Property	Value	ASTM Designation
Pigment content, percent	24 max.	D 3723
Nonvolatile content, mass percent	49 min.	D 2369
Viscosity, KU	75 min. to 90 max.	D 562
Fineness of dispersion, Hegman	6 min.	D 1210
Drying time at 77°F, 50% RH, 4 mil wet film Set to touch, minutes Dry through, hours	 30 max. 1 max.	D 1640
Adhesion	4A	D 3359, Procedure A

No visible color change in the finish coats shall occur when tested in conformance with the requirements of ASTM Designation: G 53 using FS 40 UV-B bulbs for a minimum of 38 cycles. The cycle shall be 4 hours of ultraviolet (UV) exposure at 140° F and 4 hours of condensate exposure at 104° F.

The vehicle shall be an acrylic or modified acrylic copolymer with a minimum of necessary additives.

Except as approved by the Engineer, a minimum drying time of 12 hours shall be allowed between finish coats.

The second finish coat color shall match the existing paint color. The total dry film thickness of all applications of the second finish coat shall be not less than 2 mils.

The 2 finish coats shall be applied in 3 or more applications to a total dry film thickness of not less than 4 mils nor more than 8 mils.

The total dry film thickness of all applications of inorganic zinc coating and finish coat paint shall be not less than 8 mils nor more than 14 mils.

At the Contractor's option, the zinc-coated fasteners may be prepared and painted in accordance with Section 59-3, "Painting Galvanized Surfaces," of the Standard Specifications, except that the pre-treatment of vinyl wash primer will not be required. In lieu of the abrasive blasting as specified in the Standard Specifications, all exposed surfaces may be roughened by sanding with 120-grit sandpaper or equivalent. Surface roughening shall not remove zinc-coating.

Additional cleaning and painting outside the limits designated herein shall be done as directed by the Engineer and will be considered as extra work as specified in Section 4-1.03D, "Extra Work," of the Standard Specifications. Cost of repair of damage to existing paint caused by the Contractor's operations shall be borne by the Contractor.

MEASUREMENT AND PAYMENT.--Dry spot blast cleaning and undercoat painting of blast cleaned areas of existing surfaces will be measured by the square foot of spot blast cleaned areas, and will be paid for as spot blast clean and paint undercoat.

The contract price paid per square foot for spot blast clean and paint undercoat shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in spot blast cleaning and painting undercoat on the existing surfaces complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Full compensation for steam cleaning as required in these special provisions for the main spans vertical member retrofitting shall be considered as included in the contract price paid per square foot for spot blast clean and paint undercoat, and no additional compensation will be allowed therefor.

The contract lump sum price paid for clean and paint structural steel shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in cleaning and painting the exposed surfaces of the new structural steel and finish coat on undercoated areas of existing metal, complete in place, including rinsing with a pressure system, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

ENGINEER'S ESTIMATE
04-0438U4

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	129000	TEMPORARY RAILING (TYPE K)	LF	150,120		
22	016608	TEMPORARY TRAFFIC SCREEN	LF	150,120		
23	129100	TEMPORARY CRASH CUSHION MODULE	EA	244		
24	016609	TEMPORARY SINGLE LINE CRASH CUSHION/END TREATMENT	EA	3		
25	016610	REMOVE WOOD PILES	EA	30		
26	016611	REMOVE METAL PONTOON	LS	LUMP SUM	LUMP SUM	
27	016612	REMOVE STEEL PIPES	LF	200		
28	150662	REMOVE METAL BEAM GUARD RAILING	LF	25		
29	150715	REMOVE PAINTED TRAFFIC STRIPE AND PAVEMENT MARKING	LF	86,900		
30	150718	REMOVE THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKING	LF	37,800		
31	150722	REMOVE PAVEMENT MARKER	EA	6,670		
32	016613	REMOVE ASPHALT CONCRETE, CONCRETE, AND SLOPE PROTECTION MATERIAL	CY	3,900		
33	150860	REMOVE BASE AND SURFACING	CY	850		
34 (S)	151568	RECONSTRUCT THRIE BEAM BARRIER	LF	200		
35 (S)	151572	RECONSTRUCT METAL BEAM GUARD RAILING	LF	125		
36	152320	RESET ROADSIDE SIGN	EA	30		
37 (S)	153101	PLANE ASPHALT CONCRETE PAVEMENT	SQYD	1,140		
38	BLANK					
39	BLANK					
40	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	

ENGINEER'S ESTIMATE
04-0438U4

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61 (S)	016617	MODIFY ELECTRICAL SYSTEM CABLE	LS	LUMP SUM	LUMP SUM	
62 (S)	860415	LIGHTING (STAGE CONSTRUCTION)	LS	LUMP SUM	LUMP SUM	
63 (S)	016618	COMMUNICATION CONDUIT SYSTEM	LS	LUMP SUM	LUMP SUM	
64 (S)	016619	ELECTRICAL SERVICE (BACK UP POWER SYSTEM)	LS	LUMP SUM	LUMP SUM	
65 (S)	991065	MECHANICAL WORK	LS	LUMP SUM	LUMP SUM	
66 (S)	994650	BUILDING WORK	LS	LUMP SUM	LUMP SUM	
67	047867	REMOVE UNSOUND CONCRETE AND APPLY PORTLAND CEMENT CONCRETE PATCH (4" DEPTH)	SQFT	6,370		
68	047868	BRIDGE REMOVAL (PORTION) (SUBSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
69	047869	BRIDGE REMOVAL (PORTION) (FENDER) (SUBSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
70	047870	TEMPORARY BRACING SYSTEM (SUBSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
71	047871	TEMPORARY FENDERING (SUBSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
72 (F)	047872	STRUCTURE EXCAVATION (TYPE D) (SUBSTRUCTURE)	CY	35,000		
73 (F)	047873	PIER BACKFILL (SUBSTRUCTURE)	CY	2,490		
74 (F)	047874	ARMOR ROCK (SUBSTRUCTURE)	CY	6,270		
75 (S)	047875	TEST BORINGS (SUBSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
76	047876	FURNISH 12" XS STEEL PIPE PILING (SUBSTRUCTURE)	LF	22,215		
77 (S)	047877	DRIVE 12" XS STEEL PIPE PILE (SUBSTRUCTURE)	EA	144		
78 (S)	047878	INSTALL 12" XS STEEL PILE EXTENSION (SUBSTRUCTURE)	EA	16		
79 (S)	047879	INSTALL 12" XS STEEL SENSOR PILE EXTENSION (SUBSTRUCTURE)	EA	1		
80	047880	FURNISH 14" STEEL PIPE PILING (SUBSTRUCTURE)	LF	9,480		

ENGINEER'S ESTIMATE
04-0438U4

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	047941	BRIDGE REMOVAL (PORTION), LOCATION E (SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
142	047942	RECONSTRUCT STEEL BRIDGE RAILING (SUPERSTRUCTURE)	LF	269		
143	047943	TEMPORARY STRUCTURE (SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
144	047944	TEMPORARY SUPPORT, LOCATION A (SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
145	047945	TEMPORARY SUPPORT, LOCATION B (SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
146	047946	TEMPORARY SUPPORT, LOCATION C (SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
147	047947	TEMPORARY SUPPORT, LOCATION D (SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
148 (F)	BLANK					
149 (F)	047949	STRUCTURE EXCAVATION (TYPE AH) (SUPERSTRUCTURE)	CY	1,441		
150 (F)	047950	STRUCTURE EXCAVATION (TYPE DH) (SUPERSTRUCTURE)	CY	1,028		
151 (F)	047951	STRUCTURE BACKFILL (BRIDGE) (SUPERSTRUCTURE)	CY	1,210		
152 (S)	047952	66" CAST-IN-DRILLED-HOLE CONCRETE PILING (SUPERSTRUCTURE)	LF	13,427		
153 (S)	047953	MICROPILE (SUPERSTRUCTURE)	EA	282		
154 (S)	047954	TEST BORINGS (SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
155 (S)	047955	PRESTRESSING CAST-IN-PLACE CONCRETE (SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
156 (S)	047956	PRESTRESSING VISCOUS DAMPING DEVICE BRACKETS (SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM	
157	047957	SEAL COURSE CONCRETE (SUPERSTRUCTURE)	CY	366		
158 (F)	047958	STRUCTURAL CONCRETE, BRIDGE FOOTING (SUPERSTRUCTURE)	CY	2,880		
159 (F)	047959	STRUCTURAL CONCRETE, BRIDGE (SUPERSTRUCTURE)	CY	6,000		
160 (F)	047960	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) (SUPERSTRUCTURE)	CY	80		

ENGINEER'S ESTIMATE
04-0438U4

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201 (S-F)	048001	MISCELLANEOUS METAL (RESTRAINER-CABLE TYPE) (SUPERSTRUCTURE)	LB	460,700		
202 (S-F)	048002	MISCELLANEOUS METAL (RESTRAINER - ROD TYPE) (SUPERSTRUCTURE)	LB	108,000		
203 (S-F)	048003	MISCELLANEOUS METAL (BRIDGE) (SUPERSTRUCTURE)	LB	544,000		
204 (F)	048004	CONCRETE BARRIER (TYPE 27 MODIFIED) (SUPERSTRUCTURE)	LF	12,958		
205	BLANK					
206 (F)	019347	STRUCTURE EXCAVATION (TYPE ANH) (SUPERSTRUCTURE)	CY	4,544		
207 (F)	019348	STRUCTURE EXCAVATION (TYPE DNH) (SUPERSTRUCTURE)	CY	1,227		
208	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID: _____

GENERAL DECISION CA000029 06/30/00 CA29
General Decision Number CA000029

Superseded General Decision No. CA990029

State: California

Construction Type:
BUILDING
DREDGING
HEAVY
HIGHWAY

County(ies):

ALAMEDA	**MARIPOSA**	**SAN MATEO**
CALAVERAS	**MERCED**	**SANTA CLARA**
CONTRA COSTA	**MONTEREY**	**SANTA CRUZ**
FRESNO	**SAN BENITO**	**STANISLAUS**
KINGS	**SAN FRANCISCO**	**TUOLUMNE**
MADERA	**SAN JOAQUIN**	

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	02/11/2000
1	03/03/2000
2	03/17/2000
3	04/28/2000
4	06/09/2000
5	06/16/2000
6	06/30/2000

COUNTY(ies):

ALAMEDA	MARIPOSA	SAN MATEO
CALAVERAS	MERCED	SANTA CLARA
CONTRA COSTA	MONTEREY	SANTA CRUZ
FRESNO	SAN BENITO	STANISLAUS
KINGS	SAN FRANCISCO	TUOLUMNE
MADERA	SAN JOAQUIN	

ASBE0016A 08/01/1999

	Rates	Fringes
INSULATOR/ASBESTOS WORKER Includes the application of all insulating materials, protective coverings, coatings, and finishings to all types of mechanical systems	36.13	7.41

ASBE0016E 05/01/1999

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:		
ASBESTOS REMOVAL WORKER/ HAZARDOUS MATERIAL HANDLER Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not	22.01	4.28

ASBE0016F 05/01/1999

	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:		
ASBESTOS REMOVAL WORKER/ HAZARDOUS MATERIAL HANDLER Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not	22.01	4.28

BOIL0092A 10/01/1999

	Rates	Fringes
BOILERMAKER	29.56	9.81
TUBE WELDER	31.06	9.81

BRCA0003B 08/01/1998

	Rates	Fringes
MARBLE FINISHER	21.12	4.97

BRCA0003D 08/01/1998

	Rates	Fringes
MARBLE SETTER	25.89	12.92

BRCA0003G 07/01/1999

	Rates	Fringes
SAN FRANCISCO AND SAN MATEO COUNTIES:		
BRICKLAYER	29.45	9.75

FOOTNOTES:
Underground work such as tunnel work, sewer work, manholes, catch basins, sewer pipes and telephone conduit: $5.00 per day additional.
Additionally, for work in direct contact with raw sewage: $2.50 per day additional.
Operating a saw or grinder: $0.50 per hour additional.
Gunite nozzle person: $1.00 per hour additional.
On one or two person light duty swinging scaffolds, from and including the seventh floor to the sky (floors to be determined by the number on the elevator identity or floor identity): $10.00 per day additional.

BRCA0003K 07/01/1999

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN BENITO AND SANTA CLARA COUNTIES:		
BRICKLAYER	28.67	8.53
CALAVERAS, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
BRICKLAYER	24.45	7.05

FOOTNOTES:
Underground work such as tunnel work, sewer work, manholes, catch basins, sewer pipes and telephone conduit shall be paid $5.00 per day above the regular wage.

In addition to the daily allowance specified in the preceding sentence, all employees working in direct contact with raw sewage shall receive an additional allowance of $2.50 per day above the regular wage.
Fifty cents ($0.50) per hour extra will be allowed for operating a saw or grinder, provided such work is for the major portion of the day.
A gunite nozzle person shall receive $1.00 per hour above the journeyman wage rate.
On one or two-person light-duty swinging scaffolds, from and including the seventh floor to the sky, $10.00 per day over and above the regular wage shall be paid. The floors shall be determined by the number on the elevator identity or floor identity.

BRCA0003O 07/01/1999

	Rates	Fringes
MONTEREY AND SANTA CRUZ COUNTIES:		
BRICKLAYER	27.38	9.05

FOOTNOTES:
  Underground work such as tunnel work, sewer work, manholes, catch basins, sewer pipes and telephone conduit: $5.00 per day additional. In addition to the daily allowance specified in the preceding sentence, all workers working in direct contact with raw sewage: $2.50 per day additional.
  Operating a saw or grinder, provided such work is for the major portion of the day: $0.50 per hour additional.
  Gunite nozzle person: $1.00 per hour additional.
  Work on one or two person light duty swinging scaffolds, from and including the seventh floor to the sky (floors to be determined by the number on the elevator identity or floor identity): $10.00 per day additional.

BRCA0003Q 07/01/1999

	Rates	Fringes
FRESNO, KINGS, MADERA, MARIPOSA AND MERCED COUNTIES:		
BRICKLAYER	22.35	8.15

BRCA0003T 04/01/1998

	Rates	Fringes
ALAMEDA, CALAVERAS, CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:		
TILE SETTER	25.03	7.60
TILE FINISHER	13.06	5.27

BRCA0004P 07/01/1999

	Rates	Fringes
TERRAZZO WORKER	29.33	5.70
TERRAZZO FINISHER	15.56	5.02

FOOTNOTE:
  Base machine operator: $.75 per hour additional.

BRCA9003A 04/01/1999

	Rates	Fringes
FRESNO, KINGS, MADERA, MARIPOSA AND MERCED COUNTIES:		
TILE FINISHER	15.70	4.22
TILE SETTER	20.29	5.00

CARP0003A 08/01/1999

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:		

DRYWALL INSTALLER/LATHER	27.00	11.065
DRYWALL STOCKER/SCRAPPER	13.50	6.265

MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES:

DRYWALL INSTALLER/LATHER	23.87	11.065
DRYWALL STOCKER/SCRAPPER	11.94	6.265

REMAINDER OF COUNTIES:

DRYWALL INSTALLER/LATHER	23.02	11.065
DRYWALL STOCKER/SCRAPPER	11.51	6.265

NOTE: Effective 7/1/99 new projects public or private, valued at twenty-five milllion dollars or more shall be paid at the Alameda, Contra Costa, San Francisco, San Mateo, and Santa Clara Counties rate.

CARP0012E 09/01/1993

	Rates	Fringes
CALAVERAS, SAN JOAQUIN AND STANISLAUS COUNTIES:		
TILE FINISHER	12.80	3.12

CARP0034A 07/01/1996

	Rates	Fringes
DIVERS:		
Diver standby	25.95	12.955
Diver wet pay	37.20	12.955
Tender	25.95	12.955
Saturation diver	45.80	12.955
Manned submersible	45.80	12.955
Manifold operator/life support Technician	29.55	12.955
Remote controlled vehicle-remote operated vehicle pilot	25.95	12.955
Bell winch operator	25.95	12.955

DEPTH PAY (Surface Diving):

50 to 100 ft	$1.32/ft
100 to 150 ft	$66.00 + $1.85/ft
150 to 200 ft	$158.00 + $2.65/ft
200 ft and over	$291.00 + $3.00/ft

CARP0034C 07/01/1997

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES:		
PILEDRIVER	24.95	12.765
PILEDRIVER - BRIDGE BUILDER	25.91	10.165
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS, AND TUOLUMNE COUNTIES:		
PILEDRIVER	24.95	12.765
PILEDRIVER - BRIDGE BUILDER	22.43	10.165

MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES:

PILEDRIVER	24.95	12.765
PILEDRIVER - BRIDGE BUILDER	23.28	10.165

CARP0035A 07/01/1999

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES:		
CARPENTER	27.00	10.935
HARDWOOD FLOORLAYER; SHINGLER; POWER SAW OPERATOR; STEEL SCAFFOLD AND STEEL SHORING ERECTOR; SAW FILER	27.15	10.935
BRIDGE BUILDERS	27.00	10.935
MILLWRIGHT	27.00	12.395
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS, AND TUOLUMNE COUNTIES:		
CARPENTER	22.52	10.935
HARDWOOD FLOORLAYER; SHINGLER; POWER SAW OPERATOR; STEEL SCAFFOLD AND STEEL SHORING ERECTOR; SAW FILER	22.67	10.935
BRIDGE BUILDERS	23.52	10.935
MILLWRIGHT	23.17	12.395
MONTEREY, SAN BENITO, AND SANTA CRUZ COUNTIES:		
CARPENTER	23.87	10.935
HARDWOOD FLOORLAYER; SHINGLER; POWER SAW OPERATOR; STEEL SCAFFOLD AND STEEL SHORING ERECTOR; SAW FILER	24.02	10.935
BRIDGE BUILDERS	24.37	10.935
MILLWRIGHT	24.52	12.395

FOOTNOTE: Effective 7/1/99 new projects public or private, valued at twenty-five million dollars or more shall be paid at the Alameda, Contra Costa, San Francisco, San Mato, and Santa Clara counties rate.

CARP0035H 07/01/1999

	Rates	Fringes
MODULAR FURNITURE INSTALLER	16.87	7.465

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* ELEC0006A 12/01/1999

	Rates	Fringes

ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO,
SAN MATEO, SANTA CLARA, AND SANTA CRUZ COUNTIES:

COMMUNICATIONS AND SYSTEMS WORK:		
Communications and Systems Installer	21.32	3%+4.10
Communications and Systems Technician	24.28	3%+4.10

SCOPE OF WORK:
Including any data system whose only function is to transmit or receive information; excluding all other data systems or multiple systems which include control function or power supply; inclusion or exclusion of terminations and testings of conductors determined by their function; excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs for which the conductors for the fire alarm

system are installed in conduit; excluding installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excluding energy management systems.

FOOTNOTE:
Fire alarm work when installed in raceways (including wire and cable pulling), on projects which involve new or major remodel building construction, for which the conductors for the fire alarm system are installed in the conduit, shall be performed by the inside electrician.

ELEC0006D 06/01/1998

	Rates	Fringes
SAN FRANCISCO COUNTY:		
LINE CONSTRUCTION:		
Line technician; ground person/driver	34.375	3% + 11.665
Cable splicer	38.67	3% + 11.665
Ground person	29.92	3% + 11.665

ELEC0006E 11/01/1998

	Rates	Fringes
SAN FRANCISCO COUNTY:		
SIGN ELECTRICIAN	20.00	3%

FOOTNOTE:
Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, 4th of July, Labor Day, Thanksgiving Day, Day after Thanksgiving, and Christmas Day. To be eligible for holiday pay the worker must work the first business day before and after said holiday.

ELEC0006H 06/01/1998

	Rates	Fringes
SAN FRANCISCO COUNTY:		

ELECTRICIAN:

Electrician	34.375	3% + 11.57
Cable splicer	38.67	3% + 11.57

ELEC0006K 12/01/1999

	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
COMMUNICATIONS AND SYSTEMS WORK:		
Communications and Systems		
Installer	18.72	3%+4.10
Communications and Systems Technician	21.31	3%+4.10

SCOPE OF WORK:
Including any data system whose only function is to transmit or receive information; excluding all other data systems or multiple systems which include control function or power supply; inclusion or exclusion of terminations and testings of conductors determined by their function; excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs for which the conductors for the fire alarm system are installed in conduit; excluding installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excluding energy management systems.

FOOTNOTE:
Fire alarm work when installed in raceways (including wire and cable pulling), on projects which involve new or major remodel building construction, for which the conductors for the fire alarm system are installed in the conduit, shall be performed by the inside electrician.

ELEC0100B 06/01/1997

	Rates	Fringes
FRESNO, KINGS, MADERA, COUNTIES:		
LINE TECHNICIAN	20.78	3.75%+ 6.81

ELEC0100C 06/01/2000

	Rates	Fringes
FRESNO, KINGS, AND MADERA COUNTIES:		
ELECTRICIAN	24.10	3% + 8.51

ELEC0234A 10/25/1999

	Rates	Fringes
MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES:		
ELECTRICIANS	25.96	3% + 10.99

ELEC0234B 05/27/1996

	Rates	Fringes
MONTEREY, SAN BENITO, AND SANTA CRUZ COUNTIES:		
LINE CONSTRUCTION:		
Within the radius of 25 air miles from the intersection of Dolan Road and Hwy. #1 in Moss Landing; and an area extending 5 miles east and west of Hwy. #101 south to the San Luis Obispo County line:		
Line technician & Equipment Operator	23.20	4%+9.80
Cable Splicer	26.10	4%+9.80
Ground Person/Truck Driver	17.40	4%+8.35
Remainder of County:		
Line Technician & Equipment Operator	25.52	4%+9.80
Cable Splicer	28.42	4%+9.80
Ground Person/Truck Driver	19.72	4%+8.35

ELEC0302A 06/01/2000

	Rates	Fringes
CONTRA COSTA COUNTY:		
ELECTRICIANS:		
Electrician	33.46	3%+8.16
Cable splicer	36.81	3%+8.16

ELEC0302B 06/01/1996

	Rates	Fringes
CONTRA COSTA COUNTY:		
LINE CONSTRUCTION:		
Line technician	29.26	3%+8.60
Cable splicer	32.19	3%+8.60
Equipment operator	26.33	3%+8.60
Ground person	21.95	3%+8.60

ELEC0332A 06/01/1999

	Rates	Fringes
SANTA CLARA COUNTY:		
ELECTRICIANS:		
Electrician	33.50	3% + 11.06
Cable splicer	37.69	3% + 11.06

FOOTNOTES:

Work under compressed air or where gas masks are required, or work on ladders, scaffolds, stacks, "Bosun's chairs," or other structures and where the workers are not protected by permanent guard rails at a distance of 40 to 60 ft. from the ground or supporting structures: to be paid one and one-half times the straight-time rate of pay.

Work on structures of 60 ft. or over (as described above): to be paid twice the straight-time rate of pay.

Welding: $5.00 per day additional.

ELEC0332B 06/01/1999

	Rates	Fringes
SANTA CLARA COUNTY:		
LINE CONSTRUCTION:		
Line technician; line equipment person	33.50	3% + 11.06
Cable splicer	37.69	3% + 11.06
Ground person	29.32	3% + 10.11

FOOTNOTE:

Work on wooden poles, "H" frames or similar structures at a height of 75 ft. or more, or work on steel towers on tower structures where the point of attachment of the lowest high voltage insulator to the tower is 100 ft. or more: to be paid double time.

Flood lighting equipment or warning and signal lighting or similar equipment installed on towers over 100 ft. shall be considered premium work as provided above.

In determining height premium work, the top of the concrete footing of the stepped leg of the tower, or the ground level of the poles to be climbed and the lower side of the cross arm from which workers are required to work, shall be the determining factors.

There shall be no height premium work for the erection of steel transmission towers themselves.

ELEC0595A 06/01/2000

	Rates	Fringes
ALAMEDA COUNTY:		
ELECTRICIANS:		
Electrician	33.49	3% + 11.89
Cable splicer	37.48	3% + 11.89

ELEC0595B 12/01/1999

	Rates	Fringes
CALAVERAS AND SAN JOAQUIN COUNTIES:		
ELECTRICIANS:		
Tunnel work:		
Electrician	27.19	5.75%+ 8.59
Cable splicer	30.59	5.75%+ 8.59
All other work:		
Electrician	27.06	5.75%+ 8.59
Cable splicer	30.44	5.75%+ 8.59

ELEC0617A 06/01/1999

	Rates	Fringes

SAN MATEO COUNTY:

ELECTRICIAN	35.80	3% + 9.86

ELEC0684A 01/01/2000

	Rates	Fringes
MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES:		
Electrician	25.57	6% + 8.75
Cable splicer	27.85	6% + 8.75

ELEC1245A 06/01/1999

	Rates	Fringes
LINE CONSTRUCTION AND OUTSIDE UTILITY TRANSMISSION WORK:		
Line worker; Cable splicer	30.39	4.5% + 6.78
Powder worker	28.87	4.5% + 6.54
Ground person	19.75	4.5% + 6.50
Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), and overhead and underground distribution line equipment)	25.83	4.5% + 6.50
Line worker, welding	31.91	4.5% + 7.02

SCOPE OF WORK:
All outside work on electrical transmission lines, switchyards and substations, and outside work in electrical utility distribution systems owned, maintained and operated by electrical utility companies, municipalities, or governmental agencies.

ELEV0008A 08/01/1999

	Rates	Fringes
ELEVATOR MECHANIC	40.955	6.935

FOOTNOTE:
Vacation Pay: 8% with 5 or more years of service, 6% for 6 months to 5 years service. Paid Holidays: New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Friday after, and Christmas Day.

ENGI0001A 05/01/1999

	Rates	Fringes
POWER EQUIPMENT OPERATORS		
CRANES AND ATTACHMENTS		
DREDGING		
TUNNEL AND UNDERGROUND		

These areas do not apply to piledrivers and steel erectors.

AREA 1: ALAMEDA, CONTRA COSTA, KINGS, MERCED, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ AND STANISLAUS COUNTIES

The remaining counties are split between Area 1 and Area 2 as noted below:

CALAVERAS COUNTY:

AREA 1: Area within the line beginning at the southernmost point of Calaveras County,
Thence northerly along the southeasterly county line to the intersection with the easterly line of Range 15 East,
Thence northerly to the northeast corner of Township 5N, Range 15E,
Thence westerly to the southeast corner of Township 6N, Range 14E,
Thence northerly along the range line to the intersection with the northerly line of said county,
Thence westerly and southerly along the county line to the point of beginning.

AREA 2: Remainder of Calaveras County.

FRESNO COUNTY:

AREA 1: Area within the line beginning at the southeast corner of Township 13S, Range 28E,
Thence northerly to the northeast corner of Township 13S, Range 28E,
Thence westerly to the southeast corner of Township 12S, Range 27E,
Thence northerly to the northeast corner of Township 12S, Range 27E,
Thence westerly to the southeast corner of Township 11S, Range 26E,
Thence northerly to the northeast corner of Township 11S, Range 26E,
Thence westerly to the southeast corner of Township 10S,

Range 25E,
Thence northerly to the northeast corner of Township 9S, Range 25E,
Thence westerly to the southeast corner of Township 8S, Range 24E,
Thence northerly to the northeast corner of Township 8S, Range 24E,
Thence westerly along the north line of Township 8S to the intersection with the Fresno County line,
Thence southwesterly and northwesterly along said county line to the intersection with the southeasterly line of Merced County,
Thence southwesterly along said county line to the intersection with the easterly line of San Benito County,
Thence southerly along said county line to the intersection with the easterly line of Monterey County,
Thence southeasterly along said county line to the intersection with the northwesterly line of Kings County,
Thence northeasterly along the southeasterly line of Fresno County to the point of beginning.

AREA 2: Remainder of Fresno County.

MADERA COUNTY:

AREA 1: Area within the line beginning at the point of intersection of Fresno County, Madera County, and Merced County,
Thence southeasterly and northeasterly along the southerly line of Madera County to the intersection with the northerly line of Township 8S,
Thence westerly to the southeast corner of Township 7S, Range 23E,
Thence northerly to the northeast corner of Township 6S, Range 23E,
Thence westerly along the north line of Township 6S to the intersection of the northwesterly line of Madera County,
Thence southwesterly along said county line to the point of beginning.

AREA 2: Remainder of Madera County.

MARIPOSA COUNTY:

AREA 1: Area within the line beginning at the point of intersection of Stanislaus County with Mariposa County,
Thence southeasterly along the westerly line of Mariposa County to the intersection of Madera County,
Thence northeasterly along said county line to the intersection of the southerly line of Township 5S,
Thence westerly to the southeast corner of Township 5S, Range 20E,

Thence northerly to the northeast corner of Township 5S, Range 20E,
Thence westerly to the southeast corner of Township 4S, Range 19E,
Thence northerly along the range line to the intersection with the northerly line of Mariposa County,
Thence westerly along said county line to the point of beginning.

AREA 2: Remainder of Mariposa County.

MONTEREY COUNTY:

AREA 1: Area within a line beginning at the intersection of the southerly line of Township 19S with the Pacific Ocean,
Thence easterly along the southerly line of Township 19S to the northwest corner of Township 20S, Range 6E,
Thence southerly to the southwest corner of Township 20S, range 6E,
Thence easterly to the northwest corner of Township 21S, Range 7E,
Thence southerly to the southwest corner of Township 21S, Range 7E,
Thence easterly to the northwest corner of Township 22S, Range 9E,
Thence southerly to the southwest corner of Township 22S, Range 9E,
Thence easterly to the northwest corner of Township 23S, Range 10E,
Thence southerly to the southwest corner of Township 24S, Range 10E,
Thence easterly along the southerly line of Township 24S to the southeasterly corner of Monterey County,

Thence northwesterly along said county line to the point of intersection with the southerly line of Santa Cruz County,
Thence westerly along the northerly line of Monterey County to the Pacific Ocean,
Thence southerly along the Pacific Ocean to the point of beginning.

AREA 2: Remainder of Monterey County.

TUOLUMNE COUNTY:

AREA 1: Area within the line beginning at the point of intersection of the easterly line of Township 2S, Range 19E, with the southerly line of Tuolumne County,
Thence northerly to the northeast corner of Township 1S, Range 19E,
Thence westerly to the southeast corner of Township 1N, Range 18E,
Thence northerly to the northeast corner of Township 3N, Range 18E,
Thence westerly to the southeast corner of Township 4N, Range 17E,

Thence northerly to the northeast corner of Township 4N, Range 17E,
Thence northerly to the northeast corner of Township 4N, Range 17E,
Thence westerly to the southeast corner of Township 5N, Range 15E,
Thence northerly to the intersection of the county line with the easterly line of Township 5N, Range 15E,
Thence southwesterly along the county line to the intersection of the northeasterly line of Stanislaus County,
Thence southeasterly along said county line to the southernmost corner of Tuolumne County,
Thence easterly along the county line to the point of beginning.

AREA 2: Remainder of Tuolumne County.

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	Rates	Fringes
POWER EQUIPMENT OPERATORS:		
DREDGING: CLAMSHELL & DIPPER DREDGING;		
HYDRAULIC SUCTION DREDGING:		
AREA 1:		
Lever person/operator	32.79	11.16
Dredge dozer; Heavy duty repair person/welder	27.83	11.16
Booster pump operator; Deck engineer; Deck mate; Dredge tender; Winch operator	26.71	11.16
Barge person; Deckhand; Fire person; Leveehand; Oiler	23.41	11.16
AREA 2:		
Lever person/operator	34.79	11.16
Dredge dozer; Heavy duty		

repair person/welder	29.83	11.16
Booster pump operator; Deck engineer; Deck mate; Dredge tender; Winch operator	28.71	11.16
Barge person; Deckhand; Fire-person; Levee hand; Oiler	25.41	11.16

ENGI0003C 06/16/2000

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:		
POWER EQUIPMENT OPERATORS:		
GROUP 1	32.82	12.70
GROUP 2	31.29	12.70
GROUP 3	29.81	12.70
GROUP 4	28.43	12.70
GROUP 5	27.16	12.70
GROUP 6	25.84	12.70
GROUP 7	26.70	12.70
GROUP 8	23.56	12.70
GROUP 8-A	21.35	12.70
POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:		
GROUP 1	33.70	12.70
Truck crane oiler	26.73	12.70
Oiler	24.44	12.70
GROUP 2	31.94	12.70
Truck crane oiler	26.47	12.70
Oiler	24.23	12.70
GROUP 3	30.20	12.70
Truck crane oiler	26.23	12.70
Hydraulic	25.84	12.70
Oiler	23.95	12.70
POWER EQUIPMENT OPERATORS - PILEDRIVERS:		
GROUP 1	34.04	12.70
Truck crane oiler	27.06	12.70
Oiler	24.78	12.70
GROUP 2	31.22	12.70
Truck crane oiler	26.81	12.70
Oiler	24.51	12.70
GROUP 3	29.54	12.70
Truck crane oiler	26.52	12.70
Oiler	24.29	12.70
GROUP 4	28.77	12.70
GROUP 5	26.13	12.70
GROUP 6	23.90	12.70
POWER EQUIPMENT OPERATORS - STEEL ERECTORS:		
GROUP 1	34.67	12.70
Truck crane oiler	27.35	12.70
Oiler	25.12	12.70
GROUP 2	32.90	12.70
Truck crane oiler	27.13	12.70
Oiler	24.85	12.70
GROUP 3	31.42	12.70
Truck crane oiler	26.86	12.70
Hydraulic	26.47	12.70

Oiler	24.63	12.70
GROUP 4	29.40	12.70
GROUP 5	28.10	12.70

FOOTNOTE:
Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60 per hour additional.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine; Crane mounted continuous flight tie back machine; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Multiple engine scraper (when used as plush pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572, or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/boxperson; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull-type elevating loader; Gradesetter, grade checker (mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber-tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt; Mine or shaft hoist; Portable crusher; Power jumbo ooperator (setting slip-forms, etc., in tunnels); Screed

(automatic or manual); Self-propelled compactor with dozer;

Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom-type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, ariports and canals); Deck engineer, drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcatlarger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); screed (except asphaltic concrete paving); Self-propelled pipeline wrapping machine; Soils & materials tester; Tractor

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker (with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip seal; Self-propelled automatically applied concrete curing machine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck-type loader

GROUP 8: Bit charpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete dquipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (self-propelled floating); Ross Carrier (construction site); Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator; Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader - Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe - trencher)

POWER EQUIPMENT OPERATOR CLASSIFICATIONS
ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and Dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted,

over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and Dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and Dragline up to and including 1 cu. yd.; Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Boom truck or dual purpose A-frame truck, non-rotating, over 15 tons

POWER EQUIPMENT OPERATORS - PILEDRIVER CLASSIFICATIONS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell
over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including
100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-propelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

POWER EQUIPMENT OPERATORS - STEEL ERECTOR CLASSIFICATIONS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-

propelled boom-type lifting device over 100 tons

GROUP 2: Crane, over 45 tons up to and including 100 tons; Derrick, 100 tons & under; Self-propelled boom-type lifting device over 45 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under

GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty repair person/welder

GROUP 5: Boom cat

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	Rates	Fringes
POWER EQUIPMENT OPERATORS:		

TUNNEL AND UNDERGROUND WORK:

AREA 1:

UNDERGROUND:		
GROUP 1-A	31.29	12.70
GROUP 1	28.82	12.70
GROUP 2	27.56	12.70
GROUP 3	27.23	12.70
GROUP 4	25.09	12.70
GROUP 5	23.95	12.70
SHAFTS, STOPES AND RAISES:		
GROUP 1-A	31.39	12.70
GROUP 1	28.92	12.70
GROUP 2	27.66	12.70
GROUP 3	26.33	12.70
GROUP 4	25.19	12.70
GROUP 5	24.05	12.70

AREA 2:

UNDERGROUND:		
GROUP 1-A	33.29	12.70
GROUP 1	30.82	12.70
GROUP 2	29.56	12.70
GROUP 3	28.23	12.70
GROUP 4	27.09	12.70
GROUP 5	25.95	12.70
SHAFTS, STOPES AND RAISES:		
GROUP 1-A	33.39	12.70
GROUP 1	30.92	12.70
GROUP 2	29.66	12.70
GROUP 3	28.33	12.70
GROUP 4	27.19	12.70
GROUP 5	26.05	12.70

FOOTNOTE:
Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60

per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1-A: Tunnel bore machine operator, 20' diameter or more

GROUP 1: Heading shield operator; Heavy-duty repairperson/welder; Mucking machine (rubber tired, rail or track type); Raised bore operator (tunnels); Tunnel mole bore operator

GROUP 2: Combination slusher and motor operator; Concrete pump or pumpcrete gun; Power jumbo operator

GROUP 3: Drill doctor; Mine or shaft hoist

GROUP 4: Combination slurry mixer cleaner; Grouting machine operator; Motor person

GROUP 5: Bit sharpener; Brake person; Combination mixer and compressor (gunite); Compressor operator; Oiler (assistant to engineer); Pump operator; Slusher operator

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	Rates	Fringes
KINGS, MERCED, SAN BENITO, SAN JOAQUIN, SANTA CRUZ AND STANISLAUS COUNTIES:		
BUILDING CONSTRUCTION:		
POWER EQUIPMENT OPERATORS:		
GROUP 1	30.40	12.79
GROUP 2	28.95	12.79
GROUP 3	27.55	12.79
GROUP 4	26.22	12.79
GROUP 5	25.01	12.79
GROUP 6	23.74	12.79
GROUP 7	22.65	12.79
GROUP 8	21.57	12.79
GROUP 8-A	19.45	12.79
POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:		
GROUP 1	31.25	12.79
Truck crane oiler	24.59	12.79
Oiler	22.42	12.79
GROUP 2	29.56	12.79
Truck crane oiler	24.35	12.79
Oiler	22.20	12.79
GROUP 3	27.92	12.79
Truck crane oiler	24.11	12.79
Hydraulic	23.74	12.79
Oiler	21.95	12.79
POWER EQUIPMENT OPERATORS - PILEDRIVERS:		
GROUP 1	31.56	12.79
Truck crane oiler	24.91	12.79
Oiler	22.74	12.79
GROUP 2	29.85	12.79
Truck crane oiler	24.68	12.79
Oiler	22.49	12.79
GROUP 3	28.24	12.79
Truck crane oiler	24.41	12.79
Oiler	22.26	12.79
GROUP 4	26.54	12.79
GROUP 5	24.04	12.79
GROUP 6	21.90	12.79
POWER EQUIPMENT OPERATORS - STEEL ERECTION:		
GROUP 1	32.19	12.79
Truck crane oiler	25.20	12.79
Oiler	23.06	12.79
GROUP 2	30.48	12.79
Truck crane oiler	24.98	12.79
Oiler	22.81	12.79
GROUP 3	29.09	12.79
Truck crane oiler	24.73	12.79
Hydraulic	24.35	12.79
Oiler	22.58	12.79
GROUP 4	27.16	12.79
GROUP 5	25.91	12.79

HEAVY AND HIGHWAY CONSTRUCTION:

POWER EQUIPMENT OPERATORS:

GROUP 1	31.82	12.79
GROUP 2	30.29	12.79
GROUP 3	28.81	12.79
GROUP 4	27.43	12.79
GROUP 5	26.16	12.79
GROUP 6	24.84	12.79
GROUP 7	23.70	12.79
GROUP 8	22.56	12.79
GROUP 8-A	20.35	12.79

POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:

GROUP 1	32.70	12.79
Truck crane oiler	25.73	12.79
Oiler	23.44	12.79
GROUP 2	30.94	12.79
Truck crane oiler	25.47	12.79
Oiler	23.23	12.79
GROUP 3	29.20	12.79
Truck crane oiler	25.23	12.79
Hydraulic	24.84	12.79
Oiler	22.95	12.79

POWER EQUIPMENT OPERATORS - PILEDRIVERS:

GROUP 1	33.04	12.79
Truck crane oiler	26.06	12.79
Oiler	23.78	12.79
GROUP 2	31.22	12.79
Truck crane oiler	25.81	12.79
Oiler	23.51	12.79
GROUP 3	29.54	12.79
Truck crane oiler	25.52	12.79
Oiler	23.29	12.79
GROUP 4	27.77	12.79
GROUP 5	25.13	12.79
GROUP 6	22.90	12.79

POWER EQUIPMENT OPERATORS - STEEL ERECTORS:

GROUP 1	33.67	12.79
Truck crane oiler	26.35	12.79
Oiler	24.12	12.79
GROUP 2	31.90	12.79
Truck crane oiler	26.13	12.79
Oiler	23.85	12.79
GROUP 3	30.42	12.79
Truck crane oiler	25.86	12.79
Hydraulic	25.47	12.79
Oiler	23.63	12.79
GROUP 4	28.40	12.79
GROUP 5	27.10	12.79

FOOTNOTE:
Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine; Crane mounted continuous flight tie back machine; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull-type elevating loader; Gradesetter, grade checker (mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber-tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom-type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling

equipment Texoma 600, Hughes 200 Series or similar up to and

including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self-propelled pipeline wrapping machine; Soils & materials tester; Tractor

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing mahcine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck-type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (self-propelled floating); Ross Carrier (construction site); Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator; Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader - Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe - trencher)

POWER EQUIPMENT OPERATOR CLASSIFICATIONS
ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100

tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Boom truck or dual purpose A-frame truck, non-rotating, over 15 tons

POWER EQUIPMENT OPERATORS - PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-propelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

POWER EQUIPMENT OPERATORS - STEEL ERECTORS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-propelled boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons; Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under

GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty repair person/welder

GROUP 5: Boom cat

ENGI0004L 07/01/1999

	Rates	Fringes
CALAVERAS, FRESNO, MADERA, MARIPOSA, MONTEREY AND TUOLUMNE COUNTIES:		
BUILDING CONSTRUCTION:		
POWER EQUIPMENT OPERATORS:		
AREA 1:		
GROUP 1	30.40	12.79
GROUP 2	28.95	12.79
GROUP 3	27.55	12.79

GROUP 4	26.22	12.79
GROUP 5	25.01	12.79
GROUP 6	23.74	12.79
GROUP 7	22.65	12.79
GROUP 8	21.57	12.79
GROUP 8-A	19.45	12.79
AREA 2:		
GROUP 1	32.40	12.79
GROUP 2	30.95	12.79
GROUP 3	29.55	12.79
GROUP 4	28.22	12.79
GROUP 5	27.01	12.79
GROUP 6	25.74	12.79
GROUP 7	24.65	12.79
GROUP 8	23.57	12.79
GROUP 8-A	21.45	12.79
POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:		
AREA 1:		
GROUP 1	31.25	12.79
Truck crane oiler	24.59	12.79
Oiler	22.42	12.79
GROUP 2	29.56	12.79
Truck crane oiler	24.35	12.79
Oiler	22.20	12.79
GROUP 3	27.92	12.79
Truck crane oiler	24.11	12.79
Hydraulic	23.74	12.79
Oiler	21.95	12.79
AREA 2:		
GROUP 1	33.25	12.79
Truck crane oiler	26.59	12.79
Oiler	24.42	12.79
GROUP 2	31.56	12.79
Truck crane oiler	26.35	12.79
Oiler	24.20	12.79
GROUP 3	29.92	12.79
Truck crane oiler	26.11	12.79
Hydraulic	25.74	12.79
Oiler	23.95	12.79
POWER EQUIPMENT OPERATORS - PILEDRIVERS:		
GROUP 1	31.56	12.79
Truck crane oiler	24.91	12.79
Oiler	22.74	12.79
GROUP 2	29.85	12.79
Truck crane oiler	24.68	12.79
Oiler	22.49	12.79
GROUP 3	28.24	12.79
Truck crane oiler	24.41	12.79
Oiler	22.26	12.79
GROUP 4	26.54	12.79
GROUP 5	24.04	12.79
GROUP 6	21.90	12.79
POWER EQUIPMENT OPERATORS - STEEL ERECTION:		
GROUP 1	32.19	12.79

Truck crane oiler	25.20	12.79
Oiler	23.06	12.79
GROUP 2	30.48	12.79
Truck crane oiler	24.98	12.79
Oiler	22.81	12.79
GROUP 3	29.09	12.79
Truck crane oiler	24.73	12.79
Hydraulic	24.35	12.79
Oiler	22.58	12.79
GROUP 4	27.16	12.79
GROUP 5	25.91	12.79

HEAVY AND HIGHWAY CONSTRUCTION:

POWER EQUIPMENT OPERATORS:

AREA 1:		
GROUP 1	31.82	12.79
GROUP 2	30.29	12.79
GROUP 3	28.81	12.79
GROUP 4	27.43	12.79
GROUP 5	26.16	12.79
GROUP 6	24.84	12.79
GROUP 7	23.70	12.79
GROUP 8	22.56	12.79
GROUP 8-A	20.35	12.79
AREA 2:		
GROUP 1	33.82	12.79
GROUP 2	32.29	12.79
GROUP 3	30.81	12.79
GROUP 4	29.43	12.79
GROUP 5	28.16	12.79
GROUP 6	26.84	12.79
GROUP 7	25.70	12.79
GROUP 8	24.56	12.79
GROUP 8-A	22.35	12.79

POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:

AREA 1:		
GROUP 1	32.70	12.79
Truck crane oiler	25.73	12.79
Oiler	23.44	12.79
GROUP 2	30.94	12.79
Truck crane oiler	25.47	12.79
Oiler	23.23	12.79
GROUP 3	29.20	12.79
Truck crane oiler	25.23	12.79
Hydraulic	24.84	12.79
Oiler	22.95	12.79
AREA 2:		
GROUP 1	34.70	12.79
Truck crane oiler	27.73	12.79
Oiler	25.44	12.79
GROUP 2	32.94	12.79
Truck crane oiler	27.47	12.79
Oiler	25.23	12.79
GROUP 3	31.20	12.79
Truck crane oiler	27.23	12.79

Hydraulic	26.84	12.79
Oiler	24.95	12.79

POWER EQUIPMENT OPERATORS - PILEDRIVERS:		
GROUP 1	33.04	12.79
Truck crane oiler	26.06	12.79
Oiler	23.78	12.79
GROUP 2	31.22	12.79
Truck crane oiler	25.81	12.79
Oiler	23.51	12.79
GROUP 3	29.54	12.79
Truck crane oiler	25.52	12.79
Oiler	23.29	12.79
GROUP 4	27.77	12.79
GROUP 5	25.13	12.79
GROUP 6	22.90	12.79

POWER EQUIPMENT OPERATORS - STEEL ERECTORS:		
GROUP 1	33.67	12.79
Truck crane oiler	26.35	12.79
Oiler	24.12	12.79
GROUP 2	31.90	12.79
Truck crane oiler	26.13	12.79
Oiler	23.85	12.79
GROUP 3	30.42	12.79
Truck crane oiler	25.86	12.79
Hydraulic	25.47	12.79
Oiler	23.63	12.79
GROUP 4	28.40	12.79
GROUP 5	27.10	12.79

FOOTNOTE:
Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine; Crane mounted continuous flight tie back machine; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull-type elevating loader; Gradesetter, grade checker (mechanical or otherwise); Grooving and grinding machine; Heading shield

operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber-tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Timber

skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom-type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self-propelled pipeline wrapping machine; Soils & materials tester; Tractor

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing mahcine (on streets, highways, airports and canals); Self-propelled compactor

(without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck-type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator;

Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (self-propelled floating); Ross Carrier (construction site); Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator; Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader - Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe - trencher)

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Boom truck or dual purpose A-frame truck, non-rotating, over 15 tons

POWER EQUIPMENT OPERATORS - PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-propelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

POWER EQUIPMENT OPERATORS - STEEL ERECTORS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-propelled boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons; Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under
GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty repair person/welder
GROUP 5: Boom cat

IRON0001U 01/01/2000

	Rates	Fringes
ALAMEDA, CALAVERAS, CONTRA COSTA, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:		
IRONWORKERS:		
Fence erector	23.29	13.83
Ornamental, reinforcing and structural	24.18	13.83

FOOTNOTE:
CITY OF SAN FRANCISCO (defined as the city limits of San Francisco (as described by the San Francisco County Recorder's Office as of July 1, 1998), the Golden Gate Bridge in its entirety, and the west side of the San Francisco Bay Bridge up to and including Treasure Island):
Congestion zone fee: $8.00 per day.

IRON0001V 07/01/1999

	Rates	Fringes
MONTEREY COUNTY:		
IRONWORKERS:		
Fence erector	23.29	13.83
Ornamental, reinforcing and structural	24.18	13.83

FOOTNOTE:
Work at the Army Defense Language Institute, and the Naval Post Graduate School: $2.00 per hour additional.

LABO0036A 07/01/1999

	Rates	Fringes
SAN FRANCISCO AND SAN MATEO COUNTIES:		
BRICK TENDER	19.84	7.57

FOOTNOTES:
  Underground work such as sewers, manholes, catch basins, sewer pipes, telephone conduits, tunnels and cut trenches: $5.00 per day additional.
  Work in live sewage: $2.50 per day additional.

LABO0036B 07/01/1999

	Rates	Fringes
SAN FRANCISCO AND SAN MATEO COUNTIES:		
PLASTERER TENDER	19.87	7.66

FOOTNOTES:
  Work on a suspended scaffold: $5.00 per day additional.
  Work operating a plaster mixer pump gun: $1.00 per hour additional.

LABO0067B 12/01/1998

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES:		
ASBESTOS REMOVAL LABORER	12.17	4.13
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS, AND TUOLUMNE COUNTIES:		
ASBESTOS REMOVAL LABORER	10.58	4.13

SCOPE OF WORK:
 Covers site mobilization; initial site clean-up; site preparation; removal of asbestos-containing materials from walls and ceilings; or from pipes, boilers and mechanical systems only if they are being scrapped; encapsulation, enclosure and disposal of asbestos-containing materials by hand or with equipment or machinery; scaffolding; fabrication of temporary wooden barriers; and assembly of decontamination stations.

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* LABO0067H 06/26/2000

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:		
LABORERS:		
Construction specialist group	22.86	7.55
Group 1	22.16	7.55
Group 1-a	22.38	7.55
GROUP 1-b: see note below		
GROUP 1-c	22.21	7.55
GROUP 1-d: see note below		
GROUP 1-e	22.71	7.55
GROUP 1-f	22.74	7.55
GROUP 1-g (Contra Costa County)	22.36	7.55
GROUP 2	22.01	7.55
GROUP 3	21.91	7.55
GROUP 4	15.60	7.55

See groups 1-b and 1-d under laborer classifications.

GUNITE LABORERS:		
GROUP 1	23.12	7.55
GROUP 2	22.62	7.55
GROUP 3	22.03	7.55
GROUP 4	21.91	7.55
WRECKING WORK:		
GROUP 1	22.16	7.55
GROUP 2	22.01	7.55
GROUP 3	15.60	7.55
GARDENERS, HORTICULTURAL AND LANDSCAPE LABORERS:		
New construction	21.91	7.55
Establishment warranty period	15.60	7.55
TUNNEL AND SHAFT LABORERS:		
GROUP 1	26.52	7.55
GROUP 2	26.29	7.55
GROUP 3	26.04	7.55
GROUP 4	25.77	7.55
GROUP 5	25.59	7.55
GROUP 6	25.05	7.55

FOOTNOTES:
Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive $0.25 per hour above the applicable wage rate. This shall not apply to workers entitled

to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Masonry and plasterer tender; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids;

Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those

who work inside recently active, large diameter sewers, and all recently active sewer manholes shal receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive $ .25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 1-g, CONTRA COSTA COUNTY: Pipelayer (including grade checking in connection with pipelaying); Caulker; Bander; Pipewrapper; Conduit layer; Plastic pipe layer; Pressure pipe tester; No joint pipe and stripping of same, including repair of voids; Precast manhole setters, cast in place manhole form setters

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: All clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and

washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:

A: at demolition site for the salvage of the material.
B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural nozzle operator

GROUP 2: Nozzle operator (including gun, pot); Ground person

GROUP 3: Rebound
GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)
GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

GROUP 3: General laborer (includes all clean-up work, loading lumber, loading and burning of debris)

TUNNEL AND SHAFT LABORER CLASSIFICATIONS

GROUP 1: Diamond driller; Ground person; Gunite and shotcrete nozzle operator

GROUP 2: Rod person; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powder person - heading; Cherry picker operator - where car is lifted; Concrete finisher in tunnel; Concrete screed person; Grout pump operator and pot person; Gunite & shotcrete gun person & pot person; Header person; High pressure nozzle operator; Miner - tunnel, including top and bottom person on shaft and raise work; Nipper; Nozzle operator on slick line; Sandblaster - pot person

GROUP 4: Steel form raiser and setter; Timber person, retimber person (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powder person - primer house

GROUP 5: Vibrator operator, pavement breaker; Bull gang - muckers, track person; Concrete crew - includes rodding and

spreading

GROUP 6: Dump person (any method); Grout crew; Rebound person; Swamper

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* LABO0067J 06/26/2000

	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:		
LABORERS:		
Construction specialist group	21.86	7.55
GROUP 1	21.16	7.55
GROUP 1-a	21.38	7.55
GROUP 1-b: see note below		
GROUP 1-c	21.21	7.55
GROUP 1-d: see note below		
GROUP 1-e	21.71	7.55
GROUP 1-f	21.74	7.55
GROUP 2	21.01	7.55
GROUP 3	20.90	7.55
GROUP 4	14.60	7.55

See groups 1-b and 1-d under laborer classifications.

GUNITE LABORERS:		
GROUP 1	21.62	7.55
GROUP 2	21.62	7.55
GROUP 3	21.03	7.55
GROUP 4	20.91	7.55
WRECKING WORK:		
GROUP 1	21.16	7.55
GROUP 2	21.01	7.55
GROUP 3	14.60	7.55
GARDENERS, HORTICULTURAL AND LANDSCAPE LABORERS:		
New construction	20.90	7.55
Establishment warranty period	14.60	7.55

TUNNEL AND SHAFT LABORERS:

GROUP 1	26.52	7.55
GROUP 2	26.29	7.55
GROUP 3	26.04	7.55
GROUP 4	25.77	7.55
GROUP 5	25.59	7.55
GROUP 6	20.05	7.55

FOOTNOTE:
Laborers working off or with or from bos'n chairs, swinging scaffolds, belts (not applicable to workers entitled to receive the wage rate set forth in Group 1-a): $0.25 per hour additional.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Masonry and plasterer tender; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar ype; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper;

Bit grinder

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes, shall receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds (underground structures). All employees performing work covered herein shall receive $ .25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.
GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: All clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:
A: at demolition site for the salvage of the material.

B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.

C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural nozzle operator

GROUP 2: Nozzle operator (including gun, pot); Ground person

GROUP 3: Rebound

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

GROUP 3: General laborer (includes all clean-up work, loading lumber, loading and burning of debris)

TUNNEL AND SHAFT LABORER CLASSIFICATIONS

GROUP 1: Diamond driller; Ground person; Gunite and shotcrete nozzle operator

GROUP 2: Rod person; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powder person - heading; Cherry picker operator - where car is lifted; Concrete finisher in tunnel; Concrete screed person; Grout pump operator and pot person; Gunite & shotcrete gun person & pot person; Header person; High pressure nozzle operator; Miner - tunnel, including top and bottom person on shaft and raise work; Nipper; Nozzle operator on slick line; Sandblaster - pot person

GROUP 4: Steel form raiser and setter; Timber person, retimber person (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powder prerson - primer house

GROUP 5: Vibrator operator, pavement breaker; Bull gang - muckers, track person; Concrete crew - includes rodding and spreading

GROUP 6: Dump person (any method); Grout crew; Rebound person; Swamper

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LABO0073C 07/01/1999

	Rates	Fringes
CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		

BRICK TENDER 23.20 4.55

FOOTNOTE:
Refractory work where heat-protective clothing is required: $2.00 per hour additional.

LABO0073E 10/01/1998

	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
PLASTERER TENDER	22.36	4.88

LABO0166A 07/01/1999

	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
BRICK TENDER	20.90	10.26

FOOTNOTES:
Work on jobs where heat-protective clothing is required: $2.00 per hour additional.
Work at grinders: $.25 per hour additional.
Manhole work: $2.00 per day additional.

LABO0166B 07/01/1999

	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
PLASTERER TENDERS:		
Plasterer tender	23.25	10.16
Gun operator	24.00	10.16

LABO0185A 07/01/1999

	Rates	Fringes
MONTEREY AND SAN BENITO COUNTIES:		
BRICK TENDER	22.95	4.55

FOOTNOTE:
Refractory work where heat-protective clothing is required: $2.00 per hour additional.

LABO0270A 07/01/1999

	Rates	Fringes
SANTA CLARA COUNTY:		
BRICK TENDER	23.05	6.20

FOOTNOTE:
Refractory work where heat-protective clothing is required: $2.00 per hour additional.

LABO0270B 07/01/1999

	Rates	Fringes
SANTA CRUZ COUNTY:		
BRICK TENDER	22.05	6.20

FOOTNOTE:
Refractory work where heat-protective clothing is required: $2.00 per hour additional.

LABO0294A 07/01/1999

	Rates	Fringes
FRESNO, KINGS AND MADERA COUNTIES:		
BRICK TENDER	23.50	4.55

FOOTNOTE:
Refractory work where heat-protective clothing is required: $2.00 per hour additional.

LABO0297A 09/01/1998

	Rates	Fringes
MONTEREY AND SAN BENITO COUNTIES:		
PLASTERER TENDER	15.95	

FOOTNOTE:
Mixer person: $4.00 per day additional.

PAIN0008A 07/01/1999

	Rates	Fringes
SAN FRANCISCO COUNTY:		
PAINTER	26.56	8.20

PAIN0012A 01/01/2000

	Rates	Fringes
ALAMEDA, CONTRA COSTA, MERCED, MARIPOSA, MONTEREY, SAN BENITO,		
SAN FRANCISCO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
SOFT FLOOR LAYER	27.00	11.25

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* PAIN0016A 01/01/2000

	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
PAINTERS:		
Work on industrial buildings (used for the manufacture and processing of goods for sale or service); Also, steel construction (bridges, stacks, towers, tanks and similar structures):		
Brush and Roller	23.10	9.94
Spray and Sandblast	24.50	9.94

Application of exotic materials	24.10	9.94
All other work:		
Brush and Roller	23.10	9.94
Application of exotic materials	24.10	9.94

FOOTNOTE:
High time (free fall conditions): With a minimum of 2 hrs. exposure, work over 50 ft. above ground or water level to be paid 1/2 hr. per day additional; work from 100 ft. to 180 ft. above ground or water level to be paid 1 hr. per day additional; and work over 180 ft. above ground or water level to be paid 2 hrs. per day additional.

PAIN0016C 08/01/1999

	Rates	Fringes
ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
DRYWALL FINISHERS:		
Remodel/tenant improvement work (shopping centers, offices and warehouses where the taping contractor is working directly for the tenant)	21.73	8.28
All other work	27.43	9.98

PAIN0016H 01/01/1999

	Rates	Fringes
FRESNO, KINGS AND MADERA COUNTIES:		
DRYWALL TAPER	20.49	5.39
PAINTER	19.74	5.39

FOOTNOTES:
Paperhangers, and work over 30 feet (does not include work from a lift): $0.50 per hour additional.
Spray painters and sandblasters: $0.75 per hour additional.
Lead paint abaters: $0.75 per hour additional.

PAIN0016K 01/01/1999

	Rates	Fringes
FRESNO, KINGS, MADERA AND COUNTIES:		
SOFT FLOOR LAYER	18.63	4.09

PAIN0016N 01/01/2000

	Rates	Fringes
MONTEREY, SAN BENITO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
PAINTER:		
COMMERCIAL/INDUSTRIAL	23.55	7.84

PAIN0016Q 03/01/1999

	Rates	Fringes
CALAVERAS AND SAN JOAQUIN COUNTIES:		
Drywall Taper	18.85	7.23
PAINTERS:		
Brush	18.05	7.23
Sandblaster; Waterblaster; Steam cleaning	19.05	7.23
Work with coal tar and exotic materials	19.80	7.23

PAIN0016S 03/01/1999

	Rates	Fringes
MARIPOSA, MERCED, STANISLAUS, AND TOULUMNE COUNTIES:		
DRYWALL FINSHER	17.53	8.10
PAINTER:		
Brush	16.53	8.10
Paperhanger; Spray & Sandblast	17.03	8.10
Hazardous coating, application and removal	18.28	8.10

PAIN0169A 07/01/1999

	Rates	Fringes
FRESNO, KINGS, MADERA, MARIPOSA AND MERCED COUNTIES:		
GLAZIER	23.55	7.97

FOOTNOTE:
Welding in connection with glazing work: $1.00 per hour additional.

PAIN0169E 07/01/1999

	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
GLAZIER	28.15	9.91

PAIN0169I 07/01/1999

	Rates	Fringes
ALAMEDA AND CONTRA COSTA:		
SHOWER DOOR INSTALLER	22.88	4.60

PAID HOLIDAYS:
New Year's Day, President's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Day after Thanksgiving, and Christmas Day.

PAIN0718B 07/01/1999

	Rates	Fringes
SAN FRANCISCO AND SAN MATEO COUNTIES:		

GLAZIER	28.17	9.89

PAIN0767A 07/01/1999

	Rates	Fringes
CALAVERAS, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
GLAZIER	22.54	10.57

PAID HOLIDAYS:
New Year's Day, Washington's Birthday, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day.

FOOTNOTE:
Work thirty (30) feet or over free fall: $0.60 per hour additional.

PAIN1176A 04/01/1998

	Rates	Fringes
PARKING LOT STRIPING/HIGHWAY MARKING:		
GROUP 1 & GROUP 4	22.21	6.36
GROUP 2	21.10	6.36
GROUP 3 & GROUP 5	18.88	6.36
Service Person (maintenance and repair of equipment)	13.33	5.87
Parking Lot, Game Court and Playground Installer	13.80	5.87

PARKING LOT STRIPING / HIGHWAY MARKING CLASSIFICATIONS

GROUP 1: STRIPER: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape traffic stripes and markings

GROUP 2: TRAFFIC DELINEATING DEVICE APPLICATOR: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices; includes all related surface preparation (sandblasting, waterblasting, grinding) as part of the application process

GROUP 3: TRAFFIC SURFACE ABRASIVE BLASTER: Removal of traffic lines and markings; preparation of surface for coatings and traffic control devices

GROUP 4: TRAFFIC PROTECTIVE DELINEATING SYSTEMS INSTALLER: Removes, relocates, installs permanently affixed roadside and parking delineation barricades, fencing, guard rail, cable anchor, retaining walls, reference signs, and monument markers

GROUP 5: TRAFFIC CONTROLPERSON: Sole function is to control and direct traffic through both conventional and moving lane closures

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PAIN1237C 06/01/1999

	Rates	Fringes
CALAVERAS, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
SOFT FLOOR LAYER	20.57	9.10

PAIN1621A 07/01/1999

	Rates	Fringes
MONTEREY, SAN BENITO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
GLAZIER	29.07	8.99

PLAS0001D 06/28/1999

	Rates	Fringes
CEMENT MASONS:		
Cement mason	22.35	9.46
Swing or slip form scaffolds;		
Mastic, magnesite, gypsum, epoxy, polyester, resin and all composition	23.10	9.46

PLAS0066B 07/01/1999

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN MATEO AND SAN FRANCISCO COUNTIES:		
PLASTERER	27.21	10.70

PLAS0300A 07/01/1999

	Rates	Fringes
FRESNO, KINGS AND MADERA COUNTIES:		
PLASTERER	19.58	7.20
SAN BENITO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
PLASTERER	22.99	7.40
CALAVERAS AND SAN JOAQUIN COUNTIES:		
PLASTERER	20.98	8.50
MONTEREY COUNTY:		
PLASTERER	22.65	6.82
MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES:		
PLASTERER	21.00	8.50

PLUM0036A 01/01/2000

	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
PLUMBER & STEAMFITTER	28.29	9.19

PLUM0036C 01/01/2000

	Rates	Fringes
MONTEREY AND SANTA CRUZ COUNTIES:		
PLUMBER & STEAMFITTER	28.29	9.19

PLUM0036E 01/01/2000

	Rates	Fringes
FRESNO COUNTY:		
PIPE TRADES PERSON:		
Building construction only	11.50	4.70

SCOPE OF WORK:
Installation of corrugated metal piping for drainage, as well as installation of corrugated metal piping for culverts in connection with storm sewers and drains; Grouting, dry packing and diapering of joints, holes or chases including paving over joints, in piping; Temporary piping for dirt work for building site preparation; Operating jack hammers, pavement breakers, chipping guns, concrete saws and spades to cut holes, chases and channels for piping systems; Digging, grading, backfilling and ground preparation for all types of pipe to all points of the jobsite; Ground preparation including ground leveling, layout and planting of shrubbery, trees and ground cover, including watering, mowing, edging, pruning and fertilizing, the breaking of concrete, digging, backfilling and tamping for the preparation and completion of all work in connection with lawn sprinkler and landscaping; Loading, unloading and distributing materials at jobsite; Putting away materials in storage bins in jobsite secure storage area; Demolition of piping and fixtures for remodeling and additions; Setting up and tearing down work benches, ladders and job shacks; Clean-up and sweeping of jobsite; Pipe wrapping and waterproofing where tar or similar material is applied for protection of buried piping; Flag person

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PLUM0036I 01/01/2000

	Rates	Fringes
MERCED COUNTY:		
PIPE TRADES PERSON:		
Building construction only	11.50	4.70

SCOPE OF WORK:
Installation of corrugated metal piping for drainage, as well as installation of corrugated metal piping for culverts in connection with storm sewers and drains; Grouting, dry packing and diapering of joints, holes or chases including paving over joints, in piping; Temporary piping for dirt work for building site preparation; Operating jack hammers, pavement breakers, chipping guns, concrete saws and spades to cut holes, chases and channels for piping systems; Digging, grading, backfilling and ground preparation for all types of pipe to all points of the jobsite; Ground preparation including ground leveling, layout and planting of shrubbery, trees and ground cover, including watering, mowing, edging, pruning and fertilizing, the breaking of concrete, digging, backfilling and tamping for the preparation and completion of all work in connection with lawn sprinkler and landscaping; Loading, unloading and distributing materials at

jobsite; Putting away materials in storage bins in jobsite secure storage area; Demolition of piping and fixtures for remodeling and additions; Setting up and tearing down work benches, ladders and job shacks; Clean-up and sweeping of jobsite; Pipe wrapping and waterproofing where tar or similar material is applied for protection of buried piping; Flag person

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PLUM0038A 07/01/1999

	Rates	Fringes
SAN FRANCISCO COUNTY:		
PLUMBERS:		
Work on wooden frame structures 5 stories or less excluding high-rise buildings and commercial work such as hospitals, prisons, hotels and schools	28.50	17.35
All other work	38.00	18.42
LANDSCAPE/IRRIGATION FITTER	27.32	10.15

PLUM0159A 07/01/1999

	Rates	Fringes
CONTRA COSTA COUNTY:		
PLUMBERS & STEAMFITTERS:		
Work on apartments over 4 stories, and motels	24.51	8.79
All other work	32.61	13.39

PLUM0342A 07/01/1999

	Rates	Fringes
CONTRA COSTA COUNTY:		
STEAMFITTER	34.01	12.89

PLUM0342B 07/01/1999

	Rates	Fringes
ALAMEDA COUNTY:		
PLUMBER & STEAMFITTER	34.01	12.89

PLUM0355D 07/01/1999

	Rates	Fringes
ALAMEDA, CALAVERAS, CONTRA COSTA, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, STANISLAUS, AND TUOLUMNE COUNTIES:		
LANDSCAPE FITTER; UNDERGROUND UTILITY WORKER	22.00	4.90

PLUM0393A 09/01/1998

	Rates	Fringes

SAN BENITO AND SANTA CLARA COUNTIES:

PLUMBER & PIPEFITTER:
  Work on motels and hotels which
 do not exceed 4 stories in
 height, excluding garages and
 parking areas 20.64 5.30
  All other work 39.32 10.47

 PLUM0467A 07/01/1999

	Rates	Fringes
SAN MATEO COUNTY:		
PLUMBER; PIPEFITTER; STEAMFITTER	35.03	11.51
REFRIGERATION & AIR CONDITIONING	36.28	11.76

 ROOF0027C 09/01/1999

	Rates	Fringes
FRESNO, KINGS, AND MADERA COUNTIES:		
ROOFER	20.40	6.55

FOOTNOTE:
  Work with pitch, pitch base of pitch impregnated products or any material containing coal tar pitch, on any building old or new, where both asphalt and pitchers are used in the application of a built-up roof or tear off: $2.00 per hour additional.

 ROOF0040B 08/01/1999

	Rates	Fringes
SAN FRANCISCO & SAN MATEO COUNTIES:		
ROOFER	21.47	10.57

 ROOF0081A 08/01/1999

	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
ROOFER	21.45	9.60

 ROOF0081E 09/09/1999

	Rates	Fringes
CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
ROOFER	18.87	5.94

 ROOF0095B 08/01/1996

	Rates	Fringes
MONTEREY, SAN BENITO, SANTA CLARA, AND SANTA CRUZ COUNTIES:		
ROOFERS:		
Kettle person (2 kettles); Bitumastic, enameler, coal tar, pitch and		

mastic worker	26.07	6.75
All other work	24.07	6.75

SFCA0483A 01/01/2000

	Rates	Fringes
ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:		
SPRINKLER FITTER (FIRE)	34.59	11.20

SFCA0669K 04/01/1999

	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:		
SPRINKLER FITTER (FIRE)	27.35	6.40

SHEE0104A 07/01/1999

	Rates	Fringes
ALAMEDA AND CONTRA COSTA COUNTIES:		
SHEET METAL WORKER (does not include metal deck and siding):		
Work on any multi-family dwelling over 4 stories that incorporates a separate and independent unit for heating and/or cooling purposes (excluding built-up central air handling systems)	30.25	12.06
Work on projects with an HVAC contract price of $270,000 equipped with packaged units or a unitary system; Also, tenant completion work extending from an existing trunk line or an existing water or air loop to registers and/or diffusers; Also, remodel or add-on contracts on existing facilities providing the contract price is $165,000 or less; Also, architectural sheet metal contracts of $100,000 or less; Also, pre-engineered and pre-manufactured siding	30.03	13.53
All other work	35.32	13.70

SHEE0104B 07/01/1999

	Rates	Fringes
MONTEREY AND SAN BENITO COUNTIES:		
SHEET METAL WORKER	29.71	11.40

SHEE0104D 07/01/1999

	Rates	Fringes
SAN MATEO COUNTY:		
SHEET METAL WORKER (does not include metal deck and siding):		
Work on any multi-family dwelling of 4 stories or more that incorporates a separate and independent unit for heating and/or cooling purposes (excluding built-up central air handling systems)	31.82	11.54
Work with an HVAC contract price of $250,000 equipped with packaged units or a unitary system; Also, tenant completion work extending from an existing trunk line or air loop to registers and/or diffusers; Also, remodel or add-on contracts on existing facilities providing the contract price is $150,000 or less; Also, architectural sheet metal contracts of $100,000 or less; Also, pre-engineered and pre-manufactured siding	32.67	11.94
All other work	36.14	12.68

SHEE0104E 07/01/1999

	Rates	Fringes
SAN FRANCISCO COUNTY:		
SHEET METAL WORKER (does not include metal deck and siding):		
Work on any multi-family dwelling of 4 stories or more that incorporates a separate and independent unit for heating and/or cooling purposes (excluding built-up central air handling systems)	32.02	11.41
Work with an HVAC contract price of $50,000 or less; Also, tenant completion work providing the contract price is $50,000 or less; Also, remodel or add-on contracts on existing facilities providing the contract price is $50,000 or less; Also, architectural sheet metal contracts of $100,000 or less; Also, pre-engineered and pre-manufactured siding	34.74	12.77
All other work	35.74	13.27

SHEE0104G 07/01/1999

	Rates	Fringes
SANTA CRUZ COUNTY:		
SHEET METAL WORKER	30.65	10.46

SHEE0104H 07/01/1999

	Rates	Fringes
SANTA CLARA COUNTY:		
SHEET METAL WORKER (does not include metal deck and siding):		
Work on any multiple family housing unit over 4 stories in height that incorporates a separate and independent unit for heating and/or cooling purposes (excluding built-up central air handling systems)	33.07	11.03
Work with an HVAC contract price of $250,000 equipped with packaged units or a unitary system; Also, tenant completion work extending from an existing trunk line or air loop to registers and/or diffusers; Also, remodel or add-on contracts on existing facilities providing the contract price is $150,000 or less; Also, architectural sheet metal contracts of $100,000 or less; Also pre-engineered and pre-manufactured siding	34.40	10.95
All other work	36.49	12.50

SHEE0104O 07/01/1999

	Rates	Fringes
ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:		
SHEET METAL WORKERS:		
Metal deck and siding	27.44	11.80

SHEE0162A 01/01/2000

	Rates	Fringes
CALAVERAS AND SAN JOAQUIN COUNTIES:		
SHEET METAL WORKER	21.96	10.23

SHEE0162C 01/01/2000

	Rates	Fringes
MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES:		
SHEET METAL WORKER (does not include metal deck and siding)	23.05	11.10

SHEE0162D 06/01/1999

	Rates	Fringes
FRESNO, KINGS, MADERA and TULARE COUNTIES:		
SHEET METAL WORKER	25.98	11.54

SHEE0162M 07/01/1999

	Rates	Fringes
CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:		
SHEET METAL WORKERS:		
Metal deck and siding	29.42	9.52

TEAM0094A 06/16/1999

	Rates	Fringes
TRUCK DRIVERS:		
GROUP 1	21.06	11.46
GROUP 2	21.36	11.46
GROUP 3	21.66	11.46
GROUP 4	22.01	11.46
GROUP 5	22.36	11.46

FOOTNOTES:

Articulated dump truck; Bulk cement spreader (with or without auger); Dumpcrete truck; Skid truck (debris box); Dry pre-batch concrete mix trucks; Dumpster or similar type; Slurry truck: Use dump truck yardage rate.

Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2-axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuel person; Snow buggy; Steam cleaning; Bus or personhaul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 2: Dump trucks, 6 yds. and under 8 yds.; Transit mixers, through 10 yds.; Water trucks, under 7,000 gals.; Jetting trucks, under 7,000 gals.; Vacuum trucks, under 7,500 gals.; Single-unit flat rack (3-axle unit); Highbed heavy duty transport; Scissor truck; Rubber-tired muck car (not self-loaded); Rubber-tired truck jumbo; Winch truck and "A" frame drivers; Combination winch truck with hoist; Road oil truck or bootperson; Buggymobile; Ross, Hyster and similar straddle carriers; Small rubber-tired tractor

GROUP 3: Dump trucks, 8 yds. and including 35 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks, 7,500 gals. and over; Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self-propelled street sweeper with self-contained refuse bin; Boom truck - hydro-lift or Swedish type extension or retracting crane; P.B. or similar type self-loading truck; Tire repairperson; Truck repairperson; Combination bootperson and road oiler; Dry distribution truck (A bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 4: Dump trucks, over 35 yds. and under 65 yds.; Water pulls - DW 10's, 20's, 21's and other similar equipment when pulling Aqua/pak or water tank trailers; Helicopter pilots (when transporting men and materials); DW10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTourneau Pulls, Tournorocker,

Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(v)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

GENERAL DECISION CA000009 06/30/00 CA9
General Decision Number CA000009

Superseded General Decision No. CA990009

State: California

Construction Type:
BUILDING
DREDGING
HEAVY
HIGHWAY

County(ies):

ALPINE	**MODOC**	**SISKIYOU**
AMADOR	**NAPA**	**SOLANO**
BUTTE	**NEVADA**	**SONOMA**
COLUSA	**PLACER**	**SUTTER**
EL DORADO	**PLUMAS**	**TEHAMA**
GLENN	**SACRAMENTO**	**TRINITY**
LASSEN	**SHASTA**	**YOLO**
MARIN	**SIERRA**	**YUBA**

BUILDING CONSTRUCTION PROJECTS; DREDGING CONSTRUCTION PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); AND HIGHWAY CONSTRUCTION PROJECTS

AMADOR COUNTY:
BUILDING CONSTRUCTION:

See wage data group ID no. SUCA1002A, only.

Modification Number	Publication Date
0	02/11/2000
1	03/03/2000
2	04/14/2000
3	04/28/2000
4	06/09/2000
5	06/16/2000
6	06/30/2000

COUNTY(ies):

ALPINE	MODOC	SISKIYOU
AMADOR	NAPA	SOLANO
BUTTE	NEVADA	SONOMA
COLUSA	PLACER	SUTTER
EL DORADO	PLUMAS	TEHAMA
GLENN	SACRAMENTO	TRINITY
LASSEN	SHASTA	YOLO
MARIN	SIERRA	YUBA

ASBE0016A 08/01/1999

	Rates	Fringes
INSULATOR/ASBESTOS WORKER Includes the application of all insulating materials, protective coverings, coatings, and finishings to all types of mechanical systems	36.13	7.41

ASBE0016H 05/01/1999

	Rates	Fringes
MARIN AND NAPA COUNTIES:		
ASBESTOS REMOVAL WORKER/ HAZARDOUS MATERIAL HANDLER Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not	22.01	4.28

ASBE0016I 05/01/1999

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
ASBESTOS REMOVAL WORKER/ HAZARDOUS MATERIAL HANDLER Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not	22.01	4.28

BOIL0092A 10/01/1999

	Rates	Fringes
BOILERMAKER	29.56	9.81
TUBE WELDER	31.06	9.81

BRCA0003B 08/01/1998

	Rates	Fringes
MARBLE FINISHER	21.12	4.97

BRCA0003E 07/01/1999

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SUTTER, TEHAMA, YOLO AND YUBA COUNTIES:		
BRICKLAYER	24.45	7.05

FOOTNOTES:

Underground work such as tunnel work, sewer work, manholes, catch basins, sewer pipes and telephone conduit shall be paid $5.00 per day above the regular wage.

In addition to the daily allowance specified in the preceding sentence, all employees working in direct contact with raw sewage shall receive an additional allowance of $2.50 per day above the regular wage.

Fifty cents ($0.50) per hour extra will be allowed for operating a saw or grinder, provided such work is for the major portion of the day.

A gunite nozzle person shall receive $1.00 per hour above the journeyman wage rate.

On one or two-person light-duty swinging scaffolds, from and including the seventh floor to the sky, $10.00 per day over and above the regular wage shall be paid. The floors shall be determined by the number on the elevator identity or floor identity.

BRCA0003F 07/01/1999

	Rates	Fringes
MARIN, NAPA, SISKIYOU, SOLANO, SONOMA AND TRINITY COUNTIES:		
BRICKLAYER	29.45	9.75

FOOTNOTES:

Underground work such as tunnel work, sewer work, manholes, catch basins, sewer pipes and telephone conduit: $5.00 per day additional.

Additionally, for work in direct contact with raw sewage: $2.50 per day additional.

Operating a saw or grinder: $0.50 per hour additional.

Gunite nozzle person: $1.00 per hour additional.

On one or two person light duty swinging scaffolds, from and including the seventh floor to the sky (floors to be determined

by the number on the elevator identity or floor identity): $10.00 per day additional.

BRCA0003P 07/01/1999

	Rates	Fringes
TERRAZZO WORKER	32.00	9.65
TERRAZZO FINISHER	22.47	5.00

BRCA0003S 04/01/2000

	Rates	Fringes
ALPINE, AMADOR COUNTIES:		

TILE SETTER	26.73	7.10
TILE FINISHER	15.71	5.87

NAPA, SISKIYOU, SOLANO, MARIN,
and TRINITY COUNTIES:

TILE SETTERS	29.43	7.10
TILE FINISHERS	15.71	5.87

SONOMA COUNTY:

TILE SETTER	26.27	7.10
TILE FINISHER	15.66	4.92

BRCA0003X 08/01/1998

	Rates	Fringes
ALPINE, AMADOR, MARIN, NAPA, SISKIYOU, SOLANO, SONOMA AND TRINITY COUNTIES:		
MARBLE SETTER	30.65	9.96
MARBLE FINISHER	21.67	5.52

BRCA0003Y 08/01/1998

	Rates	Fringes
BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SUTTER, TEHAMA, YOLO AND YUBA COUNTIES:		
MARBLE SETTER	30.65	9.96
MARBLE FINISHER	21.67	5.52

BRCA0029A 04/02/1993

	Rates	Fringes
BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS SACRAMENTO, SHASTA, SIERRA, SUTTER,TEHAMA, YOLO,AND YUBA COUNTIES		
TILE SETTER	24.98	5.03
TILE FINISHER	15.00	2.40

CARP0003L 08/01/1998

	Rates	Fringes
MARIN, NAPA, SOLANO AND SONOMA COUNTIES:		
DRYWALL INSTALLER/LATHER	26.00	9.725
DRYWALL STOCKER/SCRAPPER	13.00	5.255
REMAINDER OF COUNTIES:		
DRYWALL INSTALLER/LATHER	22.02	9.725
DRYWALL STOCKER/SCRAPPER	11.01	5.255

CARP0012B 09/01/1993

	Rates	Fringes
ALPINE AND AMADOR COUNTIES:		
TILE FINISHER	12.80	3.12

CARP0034A 07/01/1996

	Rates	Fringes
DIVERS:		
Diver standby	25.95	12.955
Diver wet pay	37.20	12.955
Tender	25.95	12.955
Saturation diver	45.80	12.955
Manned submersible	45.80	12.955
Manifold operator/life support Technician	29.55	12.955
Remote controlled vehicle-remote operated vehicle pilot	25.95	12.955
Bell winch operator	25.95	12.955

DEPTH PAY (Surface Diving):

50 to 100 ft	$1.32/ft
100 to 150 ft	$66.00 + $1.85/ft
150 to 200 ft	$158.00 + $2.65/ft
200 ft and over	$291.00 + $3.00/ft

CARP0034B 07/01/1997

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
PILEDRIVER	24.95	12.765
PILEDRIVER - BRIDGE BUILDER	22.43	10.165
MARIN, NAPA, SOLANO AND SONOMA COUNTIES:		
PILEDRIVER	24.95	12.765
PILEDRIVER - BRIDGE BUILDER	25.91	10.165

CARP0035C 07/01/1999

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO,AND YUBA COUNTIES		
CARPENTER	22.52	10.935
HARDWOOD FLOORLAYER; SHINGLER; POWER SAW OPERATOR; STEEL SCAFFOLD AND STEEL SHORING ERECTOR; SAW FILER	22.67	10.935
BRIDGE BUILDERS	23.52	10.935
MILLWRIGHT	23.17	12.395
MARIN, NAPA, SOLANO AND SONOMA COUNTIES		

CARPENTER	27.00	10.935
HARDWOOD FLOOR LAYER; SHINGLER; POWER SAW OPERATOR; STEEL SCAFFOLD AND STEEL SHORING ERECTOR; SAW FILER	27.15	10.935
BRIDGE BUILDERS	27.00	10.935
MILLWRIGHT	27.00	12.395

FOOTNOTE: Effective 7/1/99 new projects public or private, vaulued at twenty five million dollars or more shall be paid at thr MARIN, NAPA, SOLANO AND SONOMA COUNTIES counties rate.

CARP0035H 07/01/1999

	Rates	Fringes
MODULAR FURNITURE INSTALLER	16.87	7.465

ELEC0006B 12/01/1999

	Rates	Fringes
COMMUNICATIONS AND SYSTEMS WORK:		
Communications and Systems Installer	21.32	3%+4.10
Communications and Systems Technician	24.28	3%+4.10

SCOPE OF WORK:
Including any data system whose only function is to transmit or receive information; excluding all other data systems or multiple systems which include control function or power supply; inclusion or exclusion of terminations and testings of conductors determined by their function; excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs; excluding installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access; excluding energy management systems.

In the Counties of Fresno, Kings and Madera, fire alarm work shall be performed at the current inside wireman total cost package.

ELEC0077D 02/01/2000

	Rates	Fringes
MODOC AND SISKIYOU COUNTIES:		
LINE CONSTRUCTION AND OUTSIDE UTILITY TRANSMISSION WORK:		
Cable splicer, lead pole sprayer	29.41	3.5% + 6.85
Line technician, pole sprayer, heavy line equipment operator, line welder	26.52	3.5% + 6.85
Line equipment operator	22.86	3.5% + 5.10
Head ground person, powder worker,		

jackhammer operator	19.95	3.5% + 5.10
Ground person	18.74	3.5% + 5.10
Tree trimmer	20.57	3.5% + 5.10
Tree trimmer ground person	11.04	3.5% + 5.10

ELEC0180A 06/01/2000

	Rates	Fringes
NAPA AND SOLANO COUNTIES:		
ELECTRICIANS:		
Electrician	30.60	3% + 7.62
Cable splicer	34.43	3% + 7.62

ELEC0180B 06/01/1996

	Rates	Fringes
NAPA AND SOLANO COUNTIES		
LINE CONSTRUCTION:		
Line Technician	27.37	3%+6.00
Heavy Equipment Operator	23.26	3%+6.00
Truck Driver; Ground Person	20.53	3%+6.00

ELEC0340C 06/01/1996

	Rates	Fringes
ALPINE, AMADOR, COLUSA, EL DORADO, NEVADA, PLACER, SACRAMENTO, SIERRA, SUTTER, YOLO, AND YUBA COUNTIES		
ELECTRICAL SUBCONTRACTS $5 MILLION AND OVER:		
Electrician	25.23	3%+7.30
Cable splicer	27.75	3%+7.30
Tunnel work	25.48	3%+7.30
ELECTRICAL SUBCONTRACTS UNDER $5 MILLION:		
Electrician	24.59	3%+6.05
Cable splicer	27.05	3%+6.05
Tunnel work	24.84	3%+6.05

ELEC0442A 06/01/1996

	Rates	Fringes
BUTTE, GLENN, PLUMAS, SHASTA, TEHAMA, AND TRINITY COUNTIES		
ELECTRICIANS:		
Electricians	20.00	3%+6.25
Cable splicers	22.00	3%+6.25
Tunnel work	21.00	3%+6.25

ELEC0442B 06/01/1996

	Rates	Fringes
BUTTE, GLENN, PLUMAS, SHASTA, TEHAMA, AND TRINITY COUNTIES		
LINE CONSTRUCTION:		
Line technician	20.00	3%+6.25
Cable splicer	22.00	3%+6.25
Ground person	16.00	3%+6.25

ELEC0442C 06/01/1996

	Rates	Fringes
LASSEN COUNTY (Sierra Army Depot, Herlong):		
ELECTRICIANS:		
Electrician	26.00	3%+6.25
Cable splicer	28.60	3%+6.25
REMAINDER OF LASSEN COUNTY:		
ELECTRICIANS:		
Electrician	20.00	3%+6.25
Cable Splicer	22.00	3%+6.25
Tunnel Work	21.00	3%+6.25

ELEC0442E 06/01/1996

	Rates	Fringes
LASSEN COUNTY (Sierra Army Depot - Herlong)		
LINE CONSTRUCTION:		
Line Technician	26.00	3%+6.25
Cable Splicer	28.60	3%+6.25
Ground Person	20.80	3%+6.25
LASSEN COUNTY (Remainder)		
LINE CONSTRUCTION:		
Line Technician	20.00	3%+6.25
Cable Splicer	22.00	3%+6.25
Ground Person	16.00	3%+6.25

ELEC0551B 01/01/1996

	Rates	Fringes
MARIN AND SONOMA COUNTIES		
LINE CONSTRUCTION:		
Line Technician	23.51	3%+8.45
Cable Splicer	25.39	3%+8.45
Heavy Equipment Operator	21.16	3%+8.035
Ground Person	18.81	3%+7.62

ELEC0551G 07/01/1997

	Rates	Fringes
MARIN AND SONOMA COUNTIES		
ELECTRICIAN	26.75	3% + 8.61

ELEC0659K 01/01/2000

	Rates	Fringes
MODOC and SISKIYOU COUNTIES:		
ELECTRICIANS	25.53	3% + 7.25

ELEC1245A 06/01/1999

	Rates	Fringes
LINE CONSTRUCTION AND OUTSIDE UTILITY TRANSMISSION WORK:		
Line worker; Cable splicer	30.39	4.5% + 6.78
Powder worker	28.87	4.5% + 6.54
Ground person	19.75	4.5% + 6.50
Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), and overhead and underground distribution line equipment)	25.83	4.5% + 6.50
Line worker, welding	31.91	4.5% + 7.02

SCOPE OF WORK:
All outside work on electrical transmission lines, switchyards and substations, and outside work in electrical utility distribution systems owned, maintained and operated by electrical utility companies, municipalities, or governmental agencies.

ELEV0008A 08/01/1999

	Rates	Fringes
ELEVATOR MECHANIC	40.955	6.935

FOOTNOTE:
Vacation Pay: 8% with 5 or more years of service, 6% for 6 months to 5 years service. Paid Holidays: New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Friday after, and Christmas Day.

ENGI0001B 05/01/1999

	Rates	Fringes
POWER EQUIPMENT OPERATORS CRANES AND ATTACHMENTS DREDGING TUNNEL AND UNDERGROUND		

These areas do not apply to piledrivers and steel erectors.

AREA 1: BUTTE, MARIN, NAPA, SACRAMENTO, SOLANO, SUTTER, YOLO AND YUBA COUNTIES

AREA 2: MODOC COUNTY

The remaining counties are split between Area 1 and Area 2 as noted below:

ALPINE COUNTY:

AREA 1: Area within the line beginning at the northernmost point of Alpine County at the intersection of the California/Nevada state boundary,
Thence southeasterly along the state boundary to the intersection of the northerly line of Township 10N, Range 21E,

Thence westerly to the intersection of said county line and the northerly line of Township 10N, Range 18E,
Thence northerly along said county line to the point of beginning.

AREA 2: Remainder of Alpine County.

AMADOR COUNTY:

AREA 1: Area lying westerly of the east line of Range 14E.
AREA 2: Area lying easterly of the east line of Range 14E.

COLUSA COUNTY:

AREA 1: Area lying easterly of the east line of the following townships: Township 16N, Range 7W; Township 17N, Range 7W; Township 18N, Range 7W.

AREA 2: Remainder of Colusa County.

EL DORADO COUNTY:

AREA 1: Beginning at the point of intersection of the northerly line of El Dorado County with the easterly line of Range 10E,
Thence southwesterly along said county line to the southwest corner of said county,
Thence easterly along said county line to the intersection of the easterly line of Township 8N, Range 14#,
Thence northerly to the northeast corner of Township 10N, Range 14E,
Thence easterly along the 2nd standard parallel north to the intersection of the easterly line of said county,
Thence northerly along said county line to the California/Nevada State Border,
Thence northerly along said border to the northerly line of said county,
Thence westerly along the county line to the intersection with the easterly line of Township 14N, Range 14E,
Thence southerly to the southeast corner of Township 14N, Range 14E,
Thence easterly to the northeast corner of Township 13N,

Range 15E,
Thence southerly to the southeast corner of Township 13N, Range 15E,
Thence easterly to the northeast corner of Townshp 12N, Range 16E,
Thence southerly to the southeast corner of Township 12N, Range 16E,
Thence westerly to the southeast corner of Township 12N, Range 10E,
Thence northerly along the township line to the point of beginning.

AREA 2: Remainder of El Dorado County.

GLENN COUNTY:

AREA 1: Area lying easterly of the east line of the following

townships: Township 18N, Range 7W; Township 19N, Range 7W; Township 20N, Range 7W; Township 21N, Range 7W.

AREA 2: Remainder of Glenn County.

LASSEN COUNTY:

AREA 1: Area lying within the following townships: Township 27N, Range 8E; Township 28N, Range 8E; Township 30N, Range 6E; Township 31N, Range 6E; township 32N, Range 6E.

AREA 2: Remainder of Lassen County.

NEVADA COUNTY:

AREA 1: Area lying south and west of the following described line:

Beginning at the point of intersection of the northerly line of Nevada County with the easterly line of Township 18N, Range 10E,
Thence southerly to the southeast corner of Township 18N, Range 10E,
Thence easterly along the township line to the northeast corner of Township 17N, Range 14E,
Thence southerly to the northwest corner of Township 17N, Range 15E,
Thence easterly along the township line to the intersection of the California/Nevada state border.

AREA 2: Remainder of Nevada County.

PLACER COUNTY:

AREA 1: Beginning at the point of intersection of the northerly line of Placer County with the California/Nevada state border,

Thence southwesterly along said county line to the southwest corner of said county,
Thence easterly and northeasterly along said county line to the intersection with the easterly line of Range 10E,
Thence northerly to the northwest corner of Township 15N, Range 11E,
Thence easterly to the northeast corner of Township 15N, Range 11E,
Thence northerly to the northwest corner of Township 16N, Range 12E,
Thence easterly to the northwest corner of Township 16N, Range 12E,
Thence easterly to the northeast corner of Township 16N, Range 14E,
Thence southerly along the range line to the intersection of the southerly line of said county,
Thence easterly along said county line to the California/Nevada state border,
Thence northerly along said border to the point of beginning.

AREA 2: Remainder of Placer County.

PLUMAS COUNTY:

AREA 1: Beginning at the point of intersection of the northerly line of Plumas County with the easterly line of Township 30N, Range 6E,
Thence southerly to the southeast corner of Township 29N, Range 6E,
Thence easterly to the northeast corner of Township 28N, Range 8E,
Thence southerly to the southeast corner of Township 27N, Range 8E,
Thence westerly to the northeast corner of Township 27N, Range 7E,
Thence southerly to the southwest corner of Township 23N, Range 8E,
Thence easterly to the northeast corner of Township 22N, Range 8E,
Thence southerly to the northwest corner of Township 21N, Range 9E,
Thence easterly to the intersection of the Plumas County line,
Thence southwesterly and northwesterly along said county line to the most northwesterly point of said county,
Thence easterly along said county line to the point of beginning.

AREA 2: Remainder of Plumas County.

SHASTA COUNTY:

AREA 1: Beginning at the intersection of the southerly line of Shasta County with the easterly line of Township 29N, Range 9W,
Thence northerly to the southeast corner of Township 30N, Range 9W,
Thence westerly to the southwest corner of Township 30N, Range 9W,
Thence northerly along the range line to the intersection of said county line,
Thence northerly along said county line to the intersection with the southerly line of Township 35N,
Thence easterly to the southeast corner of Township 35N, Range 7E,
Thence northerly to the northwest corner of Township 37N, Range 6W,
Thence easterly to the northeast corner of Township 37N, Range 6W,
Thence northerly to the northwest corner of Township 38N, Range 5W,
Thence easterly along said county line to the intersection with the easterly line of Township 39S, Range 1W,
Thence southerly to the southeast corner of Township 37N, Range 1W,
Thence easterly to the northeast corner of Township 36N, Range 3E,
Thence southerly to the northwest corner of Township 35N, Range 4E,
Thence easterly to the northeast corner of Township 35N, Range 4E,
Thence southerly to the northwest corner of Township 35N, Range 5E,
Thence easterly to the northeast corner of Township 35N, Range 5E,

Thence southerly to the northwest corner of Township 32N,
Range 6E,
Thence easterly to the intersection of said county line and
Township 32N,
Thence southerly and westerly along said county line to the
point of beginning.

AREA 2: Remainder of Shasta County.

SIERRA COUNTY:

AREA 1: Area lying southerly and westerly of a line beginning at a point of intersection of the southerly line of said county with the easterly line of Tonwship 18N, Range 10E,
Thence northerly to the northeast corner of Township 20N,
Range 10E,
Thence westerly to the southeast corner of Township 21N,

Range 9E,
Thence northerly to the northeast corner of Township 21N,
Range 9E,
Thence westerly along the township line to the intersection
of the northerly line of said county.

AREA 2: Remainder of Sierra County.

SISKIYOU COUNTY:

AREA 1: Beginning at the point of intersection of the southerly line of Siskiyou County with the easterly line of Range 6W,
Thence northerly to the northeast corner of Township 40N,
Range 6W,
Thence westerly to the southwest corner of Township 41N,
Range 6W,
Thence northerly to the southeast corner of Township 42N,
Range 7W,
Thence westerly to the southwest corner of Township 42N,
Range 7W,
Thence northerly to the southeast corner of Township 43N,
Range 8W,
Thence westerly to the southwest corner of Township 43N,
Range 8W,
Thence northerly along the range line to the
California/Oregon border,
Thence easterly along the state border to the intersection
with the easterly line of Range 5W,
Thence southerly to the northwest corner of Township 42N,
Range 4W,
Thence easterly to the northeast corner of Township 42N,
Range 4W,
Thence southerly to the southeast corner of Township 41N,
Range 4W,
Thence easterly to the northeast corner of Township 40N,
Range 2W,
Thence southerly along the range line to the southerly line
of said county,
Thence westerly along said county line to the point of
beginning.

AREA 2: Remainder of Siskiyou County.

SONOMA COUNTY:

AREA 1: Area lying easterly and southeasterly of the east line of the following townships:
Township 8N, Range 13W
Township 9N, Range 13W
Township 10N, Range 13W
Townshp 11N, Range 13W

AREA 2: Remainder of Sonoma County.

TEHAMA COUNTY:

AREA 1: Area lying easterly of the east line of the following townships:
Township 23N, Range 9W
Township 24N, Range 9W
Township 25N, Range 9W
Township 26N, Range 9W
Township 27N, Range 9W
Township 28N, Range 9W
Township 29N, Range 9W

AREA 2: Remainder of Tehama County.

TRINITY COUNTY:

AREA 1: Area lying easterly of the line beginning at the intersection of the easterly line of Township 30N, Range 10W Mount Diablo Meridian (MDM) with the easterly line of Trinity County,
Thence northerly to the northeast corner of Township 30N, Range 10W MDM,
Thence northerly to the northeast corner of Township 30N, Range 10W MDM,
Thence westerly to the wouthwest corner of Township 31N, Range 10W, MDM,
Thence northerly to the northwest corner of Township 34N, Range 10W MDM,
Thence easterly to the northeast corner of Township 34N, Range 7W, MDM,
Thence northerly to the northwest corner of Township 37N, Range 6W MDM,
Thence easterly to the southwest corner of Township 38N, Range 5W MDM,
Thence northerly to the northeast corner of Township 40N, Range 6W MDM,
Thence westerly to the southwest corner of Township 41N, Range 6W MDM,
Thence northerly to the northwest corner of Township 41N, Range 6W MDM.
Also the area lying westerly of a line beginning at the southeast corner of Township 6N, Range 5E, of the Humboldt Meridian.

AREA 2: Remainder of Trinity County.

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	Rates	Fringes
POWER EQUIPMENT OPERATORS:		

DREDGING: CLAMSHELL & DIPPER DREDGING;
HYDRAULIC SUCTION DREDGING:

AREA 1:		
Lever person/operator	32.79	11.16
Dredge dozer; Heavy duty repair person/welder	27.83	11.16
Booster pump operator; Deck engineer; Deck mate; Dredge tender; Winch operator	26.71	11.16
Barge person; Deckhand; Fire person; Leveehand; Oiler	23.41	11.16
AREA 2:		
Lever person/operator	34.79	11.16
Dredge dozer; Heavy duty repair person/welder	29.83	11.16
Booster pump operator; Deck engineer; Deck mate; Dredge tender; Winch operator	28.71	11.16
Barge person; Deckhand; Fire-person; Levee hand; Oiler	25.41	11.16

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ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:

	Rates	Fringes
BUILDING CONSTRUCTION:		
POWER EQUIPMENT OPERATORS:		
AREA 1:		
GROUP 1	30.40	12.79
GROUP 2	28.95	12.79
GROUP 3	27.55	12.79
GROUP 4	26.22	12.79
GROUP 5	25.01	12.79
GROUP 6	23.74	12.79
GROUP 7	22.65	12.79
GROUP 8	21.57	12.79
GROUP 8-A	19.45	12.79
AREA 2:		
GROUP 1	32.40	12.79
GROUP 2	30.95	12.79
GROUP 3	29.55	12.79
GROUP 4	28.22	12.79
GROUP 5	27.01	12.79
GROUP 6	25.74	12.79
GROUP 7	24.65	12.79
GROUP 8	23.57	12.79
GROUP 8-A	21.45	12.79
POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:		
AREA 1:		

GROUP 1	31.25	12.79
Truck crane oiler	24.59	12.79
Oiler	22.42	12.79
GROUP 2	29.56	12.79
Truck crane oiler	24.35	12.79
Oiler	22.20	12.79
GROUP 3	27.92	12.79
Truck crane oiler	24.11	12.79
Hydraulic	23.74	12.79
Oiler	21.95	12.79
AREA 2:		
GROUP 1	33.25	12.79
Truck crane oiler	26.59	12.79
Oiler	24.42	12.79
GROUP 2	31.56	12.79
Truck crane oiler	26.35	12.79
Oiler	24.20	12.79
GROUP 3	29.92	12.79
Truck crane oiler	26.11	12.79
Hydraulic	25.74	12.79
Oiler	23.95	12.79
POWER EQUIPMENT OPERATORS - PILEDRIVERS:		
GROUP 1	31.56	12.79
Truck crane oiler	24.91	12.79
Oiler	22.74	12.79
GROUP 2	29.85	12.79
Truck crane oiler	24.68	12.79
Oiler	22.49	12.79
GROUP 3	28.24	12.79
Truck crane oiler	24.41	12.79
Oiler	22.26	12.79
GROUP 4	26.54	12.79
GROUP 5	24.04	12.79
GROUP 6	21.90	12.79
POWER EQUIPMENT OPERATORS - STEEL ERECTION:		
GROUP 1	32.19	12.79
Truck crane oiler	25.20	12.79
Oiler	23.06	12.79
GROUP 2	30.48	12.79
Truck crane oiler	24.98	12.79
Oiler	22.81	12.79
GROUP 3	29.09	12.79
Truck crane oiler	24.73	12.79
Hydraulic	24.35	12.79
Oiler	22.58	12.79
GROUP 4	27.16	12.79
GROUP 5	25.91	12.79
HEAVY AND HIGHWAY CONSTRUCTION:		
POWER EQUIPMENT OPERATORS:		
AREA 1:		
GROUP 1	31.82	12.79
GROUP 2	30.29	12.79
GROUP 3	28.81	12.79
GROUP 4	27.43	12.79

GROUP 5	26.16	12.79
GROUP 6	24.84	12.79
GROUP 7	23.70	12.79
GROUP 8	22.56	12.79
GROUP 8-A	20.35	12.79
AREA 2:		
GROUP 1	33.82	12.79
GROUP 2	32.29	12.79
GROUP 3	30.81	12.79
GROUP 4	29.43	12.79
GROUP 5	28.16	12.79
GROUP 6	26.84	12.79
GROUP 7	25.70	12.79
GROUP 8	24.56	12.79
GROUP 8-A	22.35	12.79
POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:		
AREA 1:		
GROUP 1	32.70	12.79
Truck crane oiler	25.73	12.79
Oiler	23.44	12.79
GROUP 2	30.94	12.79
Truck crane oiler	25.47	12.79
Oiler	23.23	12.79
GROUP 3	29.20	12.79
Truck crane oiler	25.23	12.79
Hydraulic	24.84	12.79
Oiler	22.95	12.79
AREA 2:		
GROUP 1	34.70	12.79
Truck crane oiler	27.73	12.79
Oiler	25.44	12.79
GROUP 2	32.94	12.79
Truck crane oiler	27.47	12.79
Oiler	25.23	12.79
GROUP 3	31.20	12.79
Truck crane oiler	27.23	12.79
Hydraulic	26.84	12.79
Oiler	24.95	12.79
POWER EQUIPMENT OPERATORS - PILEDRIVERS:		
GROUP 1	33.04	12.79
Truck crane oiler	26.06	12.79
Oiler	23.78	12.79
GROUP 2	31.22	12.79
Truck crane oiler	25.81	12.79
Oiler	23.51	12.79
GROUP 3	29.54	12.79
Truck crane oiler	25.52	12.79
Oiler	23.29	12.79
GROUP 4	27.77	12.79
GROUP 5	25.13	12.79
GROUP 6	22.90	12.79
POWER EQUIPMENT OPERATORS - STEEL ERECTORS:		
GROUP 1	33.67	12.79
Truck crane oiler	26.35	12.79

Oiler	24.12	12.79
GROUP 2	31.90	12.79
Truck crane oiler	26.13	12.79
Oiler	23.85	12.79
GROUP 3	30.42	12.79
Truck crane oiler	25.86	12.79
Hydraulic	25.47	12.79
Oiler	23.63	12.79
GROUP 4	28.40	12.79
GROUP 5	27.10	12.79

FOOTNOTE:
Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine; Crane mounted continuous flight tie back machine; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull-type elevating loader; Gradesetter, grade checker (mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber-tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete

mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom-type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling

equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self-propelled pipeline wrapping machine; Soils & materials tester; Tractor

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing mahcine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck-type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (self-propelled floating); Ross Carrier (construction site); Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator; Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader - Bobcat 743

series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe - trencher)

POWER EQUIPMENT OPERATOR CLASSIFICATIONS
ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100

tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Boom truck or dual purpose A-frame truck, non-rotating, over 15 tons

POWER EQUIPMENT OPERATORS - PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-propelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

POWER EQUIPMENT OPERATORS - STEEL ERECTORS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-propelled boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons; Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under

GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty

repair person/welder

GROUP 5: Boom cat

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	Rates	Fringes
MARIN AND SOLANO COUNTIES:		
POWER EQUIPMENT OPERATORS:		
GROUP 1	32.82	12.70
GROUP 2	31.29	12.70
GROUP 3	29.81	12.70
GROUP 4	28.43	12.70
GROUP 5	27.16	12.70
GROUP 6	25.84	12.70
GROUP 7	24.70	12.70
GROUP 8	23.56	12.70
GROUP 8-A	21.35	12.70
POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:		
GROUP 1	33.70	12.70
Truck crane oiler	26.73	12.70
Oiler	24.44	12.70
GROUP 2	31.94	12.70
Truck crane oiler	26.47	12.70
Oiler	24.23	12.70
GROUP 3	30.20	12.70
Truck crane oiler	26.23	12.70
Hydraulic	25.84	12.70
Oiler	23.95	12.70
POWER EQUIPMENT OPERATORS - PILEDRIVERS:		
GROUP 1	34.04	12.70
Truck crane oiler	27.06	12.70
Oiler	24.78	12.70
GROUP 2	32.22	12.70
Truck crane oiler	26.81	12.70
Oiler	24.51	12.70
GROUP 3	30.54	12.70
Truck crane oiler	26.52	12.70
Oiler	24.29	12.70
GROUP 4	28.77	12.70
GROUP 5	26.13	12.70
GROUP 6	23.90	12.70
POWER EQUIPMENT OPERATORS - STEEL ERECTORS:		
GROUP 1	34.67	12.70
Truck crane oiler	27.35	12.70
Oiler	25.12	12.70
GROUP 2	32.90	12.70
Truck crane oiler	27.13	12.70
Oiler	24.85	12.70
GROUP 3	31.42	12.70
Truck crane oiler	26.86	12.70
Hydraulic	26.47	12.70
Oiler	24.63	12.70
GROUP 4	29.40	12.70
GROUP 5	28.10	12.70

FOOTNOTE:
Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine; Crane mounted continuous flight tie back machine; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull-type elevating loader; Gradesetter, grade checker (mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber-tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete

pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom-type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self-propelled pipeline wrapping machine; Soils & materials tester; Tractor

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing mahcine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck-type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (self-propelled floating); Ross Carrier (construction site); Rotomist

operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator; Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader - Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe - trencher)

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Boom truck or dual purpose A-frame truck, non-rotating, over 15 tons

POWER EQUIPMENT OPERATORS - PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-propelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

POWER EQUIPMENT OPERATORS - STEEL ERECTORS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-propelled boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons; Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under
GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty repair person/welder
GROUP 5: Boom cat

ENGI0003G 06/16/2000

	Rates	Fringes
POWER EQUIPMENT OPERATORS:		
TUNNEL AND UNDERGROUND WORK:		
AREA 1:		
UNDERGROUND:		

GROUP 1-A	31.29	12.70
GROUP 1	28.82	12.70
GROUP 2	27.56	12.70
GROUP 3	27.23	12.70
GROUP 4	25.09	12.70
GROUP 5	23.95	12.70

SHAFTS, STOPES AND RAISES:

GROUP 1-A	31.39	12.70
GROUP 1	28.92	12.70
GROUP 2	27.66	12.70
GROUP 3	26.33	12.70
GROUP 4	25.19	12.70
GROUP 5	24.05	12.70

AREA 2:

UNDERGROUND:

GROUP 1-A	33.29	12.70
GROUP 1	30.82	12.70
GROUP 2	29.56	12.70
GROUP 3	28.23	12.70
GROUP 4	27.09	12.70
GROUP 5	25.95	12.70

SHAFTS, STOPES AND RAISES:

GROUP 1-A	33.39	12.70
GROUP 1	30.92	12.70
GROUP 2	29.66	12.70
GROUP 3	28.33	12.70
GROUP 4	27.19	12.70
GROUP 5	26.05	12.70

FOOTNOTE:

Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1-A: Tunnel bore machine operator, 20' diameter or more

GROUP 1: Heading shield operator; Heavy-duty repairperson/welder; Mucking machine (rubber tired, rail or track type); Raised bore operator (tunnels); Tunnel mole bore operator

GROUP 2: Combination slusher and motor operator; Concrete pump or pumpcrete gun; Power jumbo operator

GROUP 3: Drill doctor; Mine or shaft hoist

GROUP 4: Combination slurry mixer cleaner; Grouting machine operator; Motor person

GROUP 5: Bit sharpener; Brake person; Combination mixer and compressor (gunite); Compressor operator; Oiler (assistant to engineer); Pump operator; Slusher operator

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ENGI0003N 06/16/2000

	Rates	Fringes

AMADOR COUNTY:

HEAVY AND HIGHWAY CONSTRUCTION:

POWER EQUIPMENT OPERATORS:

AREA 1:		
GROUP 1	32.82	12.70
GROUP 2	31.29	12.70
GROUP 3	29.81	12.70
GROUP 4	28.43	12.70
GROUP 5	27.16	12.70
GROUP 6	25.84	12.70
GROUP 7	24.70	12.70
GROUP 8	23.56	12.70
GROUP 8-A	21.35	12.70
AREA 2:		
GROUP 1	34.82	12.70
GROUP 2	33.29	12.70
GROUP 3	31.81	12.70
GROUP 4	30.43	12.70
GROUP 5	29.16	12.70
GROUP 6	27.84	12.70
GROUP 7	26.70	12.70
GROUP 8	25.56	12.70
GROUP 8-A	23.35	12.70

POWER EQUIPMENT OPERATORS - ALL CRANES AND ATTACHMENTS:

AREA 1:		
GROUP 1	33.70	12.70
Truck crane oiler	26.73	12.70
Oiler	24.44	12.70
GROUP 2	31.94	12.70
Truck crane oiler	26.47	12.70
Oiler	24.23	12.70
GROUP 3	30.20	12.70
Truck crane oiler	26.23	12.70
Hydraulic	25.84	12.70
Oiler	23.95	12.70
AREA 2:		
GROUP 1	35.70	12.70
Truck crane oiler	28.73	12.70
Oiler	26.44	12.70
GROUP 2	33.94	12.70
Truck crane oiler	28.47	12.70
Oiler	26.23	12.70
GROUP 3	32.20	12.70
Truck crane oiler	28.23	12.70
Hydraulic	27.84	12.70
Oiler	25.95	12.70

POWER EQUIPMENT OPERATORS - PILEDRIVERS:

GROUP 1	34.04	12.70
Truck crane oiler	27.06	12.70
Oiler	24.78	12.70
GROUP 2	32.22	12.70
Truck crane oiler	26.81	12.70
Oiler	24.51	12.70
GROUP 3	30.54	12.70

Truck crane oiler	26.52	12.70
Oiler	24.29	12.70
GROUP 4	28.77	12.70
GROUP 5	26.13	12.70
GROUP 6	23.90	12.70

POWER EQUIPMENT OPERATORS - STEEL ERECTORS:

GROUP 1	34.67	12.70
Truck crane oiler	27.35	12.70
Oiler	25.12	12.70
GROUP 2	32.90	12.70
Truck crane oiler	27.13	12.70
Oiler	24.85	12.70
GROUP 3	31.42	12.70
Truck crane oiler	26.86	12.70
Hydraulic	26.47	12.70
Oiler	24.63	12.70
GROUP 4	29.40	12.70
GROUP 5	28.10	12.70

FOOTNOTE:
Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine; Crane mounted continuous flight tie back machine; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/boxman; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull-type elevating loader; Gradesetter, grade checker (mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber-tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Timber

skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-Place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt; Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom-type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self-propelled pipeline wrapping machine; Soils & materials tester; Tractor

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt), Chip Seal; Self-propelled automatically applied concrete curing machine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck-type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (self-

propelled floating); Ross Carrier (construction site); Rotomist

operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator; Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader - Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe - trencher)

POWER EQUIPMENT OPERATOR CLASSIFICATIONS
ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and Dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and Dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and Dragline up to and including 1 cu. yd.; Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) -under 15 tons; Boom truck or dual purpose A-frame truck, non-rotating, over 15 tons

POWER EQUIPMENT OPERATORS - PILEDRIVER CLASSIFICATIONS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-propelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

POWER EQUIPMENT OPERATORS - STEEL ERECTOR CLASSIFICATIONS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-propelled Boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons;
Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower Crane

GROUP 3: Crane, 45 tons and under; Self-propelled Boom-type lifting device, 45 tons and under

GROUP 4: Chicago Boom; Forklift, 10 tons and over; Heavy-duty Repair Person/Welder
GROUP 5: Boom Cat

IRON0001N 07/01/1999

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, MARIN, MODOC, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
IRONWORKERS:		
Fence erector	24.83	14.375
Ornamental, reinforcing and structural	23.94	14.375

IRON0001W 07/01/1999

	Rates	Fringes
LASSEN COUNTY:		
IRONWORKERS:		
Fence erector	23.94	14.375
Ornamental, reinforcing and structural	24.83	14.375

FOOTNOTE:
Work at Susanville Federal Prison: $3.00 per hour additional.

IRON0001X 07/01/1999

	Rates	Fringes
SONOMA COUNTY:		
IRONWORKERS:		
Fence erector	23.29	13.83
Ornamental, reinforcing and structural	24.18	13.83

FOOTNOTE:
Work at the U.S. Coast Guard - Two Rock: $1.00 per hour additional.

LABO0067C 12/01/1998

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
ASBESTOS REMOVAL LABORER	10.58	4.13

MARIN AND NAPA COUNTIES:

ASBESTOS REMOVAL LABORER	12.17	4.13

SCOPE OF WORK:
Covers site mobilization; initial site clean-up; site preparation; removal of asbestos-containing materials from walls and ceilings; or from pipes, boilers and mechanical systems only if they are being scrapped; encapsulation, enclosure and disposal of asbestos-containing materials by hand or with equipment or machinery; scaffolding; fabrication of temporary wooden barriers; and assembly of decontamination stations.

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* LABO0067F 06/26/2000

	Rates	Fringes
MARIN COUNTY:		
LABORERS:		
Construction specialist group	22.86	7.55
GROUP 1	22.16	7.55
GROUP 1-a	22.38	7.55
GROUP 1-b: see note below		
GROUP 1-c	22.21	7.55
GROUP 1-d: see note below		
GROUP 1-e	22.71	7.55
GROUP 1-f	22.74	7.55
GROUP 2	22.01	7.55
GROUP 3	21.91	7.55
GROUP 4	15.60	7.55

See groups 1-b and 1-d under laborer classifications.

GUNITE LABORERS:		
GROUP 1	23.12	7.55
GROUP 2	22.62	7.55
GROUP 3	22.03	7.55
GROUP 4	21.91	7.55
WRECKING WORK:		
GROUP 1	22.16	7.55
GROUP 2	21.01	7.55
GROUP 3	15.60	7.55
GARDENERS, HORTICULTURAL AND LANDSCAPE		
LABORERS:		
New construction	21.91	7.55
Establishment warranty period	15.60	7.55
TUNNEL AND SHAFT LABORERS:		
GROUP 1	26.52	7.55
GROUP 2	26.29	7.55
GROUP 3	26.04	7.55
GROUP 4	25.77	7.55
GROUP 5	25.59	7.55
GROUP 6	25.05	7.55

FOOTNOTE:
Laborers working off or with or from bos'n chairs, swinging

scaffolds, belts (not applicable to workers entitled to receive the wage rate set forth in Group 1-a): $0.25 per hour additional.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Masonry and plasterer tender; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post

hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those sho work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers'

work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive $ .25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading

and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: All clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:

A: at demolition site for the salvage of the material.
B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural nozzle operator

GROUP 2: Nozzle operator (including gun person, pot person); Rod person; Ground person

GROUP 3: Rebound person

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)
GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

GROUP 3: General laborer (includes all clean-up work, loading lumber, loading and burning of debris)

TUNNEL AND SHAFT LABORER CLASSIFICATIONS

GROUP 1: Diamond driller; Ground person; Gunite and shotcrete

nozzle operator

GROUP 2: Rod person; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powder person - heading; Cherry picker operator - where car is lifted; Concrete finisher in tunnel; Concrete screed person; Grout pump operator and pot person; Gunite & shotcrete gun person & pot person; Header person; High pressure nozzle operator; Miner - tunnel, including top and bottom person on shaft and raise work; Nipper; Nozzle operator on slick line; Sandblaster - pot person

GROUP 4: Steel form raiser and setter; Timber person, retimber person (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powder person - primer house

GROUP 5: Vibrator operator, pavement breaker; Bull gang - muckers, track person; Concrete crew - includes rodding and spreading

GROUP 6: Dump person (any method); Grout crew; Rebound person; Swamper

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* LABO0067I 06/26/2000

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
LABORERS:		
Construction specialist group	21.86	7.55
GROUP 1	21.16	7.55
GROUP 1-a	21.38	7.55
GROUP 1-b: see note below		
GROUP 1-c	21.21	7.55
GROUP 1-d: see note below		

GROUP 1-e	21.71	7.55
GROUP 1-f	21.74	7.55
GROUP 2	21.01	7.55
GROUP 3	20.90	7.55
GROUP 4	14.60	7.55

See groups 1-b and 1-d under laborer classifications.

GUNITE LABORERS:

GROUP 1	22.12	7.55
GROUP 2	21.62	7.55
GROUP 3	21.03	7.55
GROUP 4	20.91	7.55

WRECKING WORK:

GROUP 1	21.16	7.55
GROUP 2	21.01	7.55
GROUP 3	14.60	7.55

GARDENERS, HORTICULTURAL AND LANDSCAPE LABORERS:

New construction	21.91	7.55
Establishment warranty period	14.60	7.55

TUNNEL AND SHAFT LABORERS:

GROUP 1	26.52	7.55
GROUP 2	26.29	7.55
GROUP 3	26.04	7.55
GROUP 4	25.77	7.55
GROUP 5	25.59	7.55
GROUP 6	25.05	7.55

FOOTNOTE:
Laborers working off or with or from bos'n chairs, swinging scaffolds, belts (not applicable to workers entitled to receive the wage rate set forth in Group 1-a): $0.25 per hour additional.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Masonry and plasterer tender; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar ype; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer;

Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post

hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes, shall receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds (underground structures). All employees performing work covered herein shall receive $ .25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.
GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading

and unloading, carrying and hauling of all rods and materials for

use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: All clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:
A: at demolition site for the salvage of the material.
B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural nozzle operator

GROUP 2: Nozzle operator (including gun, pot); Ground person

GROUP 3: Rebound

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

GROUP 3: General laborer (includes all clean-up work, loading lumber, loading and burning of debris)

TUNNEL AND SHAFT LABORER CLASSIFICATIONS

GROUP 1: Diamond driller; Ground person; Gunite and shotcrete nozzle operator

GROUP 2: Rod person; Shaft work & raise (below actual or

excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powder person - heading; Cherry picker operator - where car is lifted; Concrete finisher

in tunnel; Concrete screed person; Grout pump operator and pot person; Gunite & shotcrete gun person & pot person; Header person; High pressure nozzle operator; Miner - tunnel, including top and bottom person on shaft and raise work; Nipper; Nozzle operator on slick line; Sandblaster - pot person

GROUP 4: Steel form raiser and setter; Timber person, retimber person (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powder person - primer house

GROUP 5: Vibrator operator, pavement breaker; Bull gang - muckers, track person; Concrete crew - includes rodding and spreading

GROUP 6: Dump person (any method); Grout crew; Rebound person; Swamper

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LABO0073A 10/01/1998

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MARIN, MODOC, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
PLASTERER TENDER	22.36	4.88

LABO0139B 07/01/1999

	Rates	Fringes
NAPA, SOLANO AND SONOMA COUNTIES:		
BRICK TENDER	23.70	4.55

FOOTNOTE:
Refractory work where heat-protective clothing is required: $2.00 per hour additional.

LABO0185C 07/01/1999

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
BRICK TENDER	22.95	4.55

FOOTNOTE:
Refractory work where heat-protective clothing is required: $2.00 per hour additional.

LABO0291A 07/01/1999

	Rates	Fringes
MARIN COUNTY:		
BRICK TENDER	24.70	4.55

FOOTNOTE:

Refractory work where heat-protective clothing is required: $2.00 per hour additional.

PAIN0008F 07/01/1999

	Rates	Fringes
MARIN COUNTY:		
PAINTERS:		
General contracts of $7 million and under	20.75	6.85
General contracts over $7 million	23.36	6.85

PAIN0008J 07/01/1999

	Rates	Fringes
SONOMA COUNTY:		
PAINTERS:		
General contracts of $7 million and under	20.50	6.85
General contracts over $7 million,	24.11	6.85

PAIN0012D 01/01/2000

	Rates	Fringes
MARIN, NAPA, SOLANO AND SONOMA COUNTIES:		
SOFT FLOOR LAYER	27.00	11.25

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* PAIN0016D 01/01/2000

	Rates	Fringes
NAPA AND SOLANO COUNTIES:		
PAINTERS:		
Brush and Roller	23.10	8.74
Industrial	23.35	8.74
Industrial Sandblast/Spray	24.10	8.74
Spray/Blasting	24.50	8.74
Spray Exotic Materials	24.10	8.74

PAIN0016E 08/01/1999

	Rates	Fringes
BUTTE AND COLUSA COUNTIES; GLENN COUNTY; LASSEN COUNTY (west of Hwy. 395, excluding Honey Lake); MARIN, MODOC AND NAPA COUNTIES; PLUMAS AND SHASTA COUNTIES; SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY AND YUBA COUNTIES; EL DORADO COUNTY (west of the Sierra Navada Mountains); NEVADA COUNTY (west of the Sierra Nevada Mountains); PLACER COUNTY (west of the Sierra Nevada Mountains); SACRAMENTO COUNTY; SIERRA COUNTY (west of the Sierra Nevada Mountains); AND YOLO COUNTY		

DRYWALL FINISHER:
  Remodel/tenant improvement work
 (shopping centers, offices and
 warehouses where the taping
 contractor is working directly
 for the tenant 22.38 8.28
  All other work 28.08 9.98

FOOTNOTE:
  Clean-up work (limited to clean-up, erection of interior OSHA approved scaffolding, masking, truck and forklift driving, stocking of taping materials, and sanding: 40% of the journeyman rate.

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 * PAIN0016G 01/01/2000

	Rates	Fringes

BUTTE AND COLUSA COUNTIES; EL DORADO COUNTY (west of the Sierra Nevada Mountains); GLENN COUNTY; LASSEN COUNTY (west of Highway 395, excluding Honey Lake); MODOC COUNTY; NEVADA COUNTY (west of the Sierra Nevada Mountains); PLACER COUNTY (west of the Sierra Nevada Mountains); PLUMAS, SACRAMENTO AND SHASTA COUNTIES; SIERRA COUNTY (west of the Sierra Nevada Mountains); SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:

PAINTERS:
  Brush, Pot Tender, Roller 23.10 9.94
  Sandblaster, Spray, Structural
  Steel; Swing stage 24.10 9.94

 PAIN0016P 03/01/1999

	Rates	Fringes

ALPINE COUNTY:

DRYWALL TAPER 18.85 7.23

PAINTERS:
  Brush 18.05 7.23

  Sandblaster; Waterblaster;
 Steam cleaning 19.05 7.23
  Work with coal tar and exotic
 materials 19.80 7.23

FOOTNOTES:
  High time:
 Steel construction workers working on erected steel construction, bridges, stacks, towers, tanks and similar structures, from 50 to 100 ft. above ground or water level: to be paid 1/2 hr. per day additional.
 Work on such structures from 100 to 180 ft. above ground or water level: to be paid 1 hr. additional.
 Work on such structures over 180 ft. above ground or water level: to be paid 2 hrs. per day additional.

  Water level is defined as mean water level.

  Exterior stage:
 Work on exterior stage 4-7 stories: to be paid 1/2 hr. per day additional.

Work on exterior stage 8-11 stories: to be paid 1 hr. per day additional.
Work on exterior stage 12 stories or higher: to be paid 1-1/2 hrs. per day additional.

One story equals 10 ft.

PAIN0169D 07/01/1999

	Rates	Fringes
NAPA COUNTY; SOLANO COUNTY (west of a line defined as follows: Hwy. 80 corridor beginning at the City of Fairfield, including Travis Air Force Base and Suisun City; going north of Manakas Corner Rd., continue north on Suisun Valley Rd. to the Napa County line; Hwy. 80 corridor south on Grizzly Island Rd. to the Grizzly Island Management area):		
GLAZIER	28.15	9.91

PAIN0169H 07/01/1999

	Rates	Fringes
NAPA COUNTY; SOLANO COUNTY (west of a line defined as follows: Hwy. 80 corridor beginning at the City of Fairfield, including Travis Air Force Base and Suisun City; going north of Manakas Corner Rd., continue north on Suisun Valley Rd. to the Napa County line; Hwy. 80 corridor south on Grizzly Island Rd. to the Grizzly Island Management area):		
SHOWER DOOR INSTALLER	22.88	4.60

PAID HOLIDAYS:
New Year's Day, President's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Day after Thanksgiving, and Christmas Day.

PAIN0567A 10/01/1999

	Rates	Fringes
EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains); AND SIERRA COUNTY (east of the Sierra Nevada Mountains):		
DRYWALL TAPERS:		
Taper	21.28	4.36
Steeplejack - taper, over 40 ft. with open space below	22.78	4.36
PAINTERS:		
Brush and roller	20.03	4.36
Sandblaster; Special coating application - brush	20.53	4.36
Spray; Paperhanger	20.78	4.36
Structural steel & steeplejack, 40 ft. open space below (does not include stairways, tube steel, Q-decks, and trust joints worked off power lift in enclosed buildings); Special coating		

application - spray	20.73	4.36
Special coating application - spray steel	21.28	4.36
Swing stage	22.03	4.36

FOOTNOTE:
A special coating is a coating that requires the mixing of 2 or more products.

PAIN0567H 07/01/1999

	Rates	Fringes
EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains) AND SIERRA COUNTY (east of the Sierra Nevada Mountains):		
SOFT FLOOR LAYER	19.50	4.25

PAIN0718A 07/01/1999

	Rates	Fringes
MARIN AND SONOMA COUNTIES:		
GLAZIER	28.17	9.89

PAIN0767F 07/01/1999

	Rates	Fringes
ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA AND SISKIYOU COUNTIES; SOLANO COUNTY (east of a line defined as follows: Hwy. 80 corridor beginning at the City of Fairfield, including Travis Air Force Base and Suisun City; going north of Manakas Corner Rd., continue north on Suisun Valley Rd. to the Napa County line; Hwy. 80 corridor south on Grizzly Island Rd. to the Grizzly Island Management area); SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
GLAZIER	21.74	10.57

PAID HOLIDAYS:
New Year's Day, Washington's Birthday, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Day after Thanksgiving Day,and Christmas Day.

FOOTNOTE:
Work thirty (30) feet or over free fall: $0.60 per hour additional.

PAIN1176A 04/01/1998

	Rates	Fringes
PARKING LOT STRIPING/HIGHWAY MARKING:		
GROUP 1 & GROUP 4	22.21	6.36
GROUP 2	21.10	6.36
GROUP 3 & GROUP 5	18.88	6.36
Service Person (maintenance and repair of equipment)	13.33	5.87
Parking Lot, Game Court and		

Playground Installer	13.80	5.87

PARKING LOT STRIPING / HIGHWAY MARKING CLASSIFICATIONS

GROUP 1: STRIPER: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape traffic stripes and markings

GROUP 2: TRAFFIC DELINEATING DEVICE APPLICATOR: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating

devices; includes all related surface preparation (sandblasting, waterblasting, grinding) as part of the application process

GROUP 3: TRAFFIC SURFACE ABRASIVE BLASTER: Removal of traffic lines and markings; preparation of surface for coatings and traffic control devices

GROUP 4: TRAFFIC PROTECTIVE DELINEATING SYSTEMS INSTALLER: Removes, relocates, installs permanently affixed roadside and parking delineation barricades, fencing, guard rail, cable anchor, retaining walls, reference signs, and monument markers

GROUP 5: TRAFFIC CONTROLPERSON: Sole function is to control and direct traffic through both conventional and moving lane closures

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PAIN1237A 06/01/1999

	Rates	Fringes
ALPINE, BUTTE AND COLUSA COUNTIES; EL DORADO COUNTY (west of the Sierra Nevada Mountains); GLENN COUNTY; LASSEN COUNTY (west of Highway 395, beginning at Stacey and including Honey Lake); MODOC COUNTY; NEVADA COUNTY (west of the Sierra Nevada Mountains); PLACER COUNTY (west of the Sierra Nevada Mountains); PLUMAS, SACRAMENTO AND SHASTA COUNTIES; SIERRA COUNTY (west of the Sierra Nevada Mountains); SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
SOFT FLOOR LAYER	20.57	9.10

PLAS0001D 06/28/1999

	Rates	Fringes
CEMENT MASONS:		
Cement mason	22.35	9.46
Swing or slip form scaffolds; Mastic, magnesite, gypsum, epoxy, polyester, resin and all composition	23.10	9.46

PLAS0300C 07/01/1999

	Rates	Fringes
PLASTERER	20.98	8.50

PLUM0036F 01/01/2000

	Rates	Fringes
ALPINE COUNTY; AMADOR COUNTY (south of the San Joaquin River); BUTTE, COLUSA, GLENN, LASSEN, MODOC, PLUMAS, SHASTA, SIERRA,		

SISKIYOU, SUTTER, TEHAMA, TRINITY AND YUBA COUNTIES:

PLUMBER	27.79	9.19

PLUM0038B 07/01/1998

	Rates	Fringes
MARIN AND SONOMA COUNTIES:		
PLUMBERS:		
Work on structures 5 stories or less except for new additions or remodel of prisons or waste water treatment plants	27.04	12.86
All other work	36.05	13.93
LANDSCAPE/IRRIGATION FITTER	27.32	10.60

PLUM0343A 07/01/1999

	Rates	Fringes
NAPA AND SOLANO COUNTIES:		
PLUMBER AND STEAMFITTER:		
Work on condominiums and apartment houses which are over 4 stories; office buildings, schools, and other commercial structures for which the total plumbing bid does not exceed $250,000. Any project bid in phases shall not qualify unless the total project is less than $250,000 for the plumbing bid and $250,000 for the heating and cooling bid. Regardless of project size, hospitals, jails, institutions and industrial projects are not included.	24.00	10.45
All other work	32.00	11.70

FOOTNOTES:

While welding or fitting galvanized material: $.75 per hour additional.

Work from trusses, temporary staging, unguarded structures 35' from the ground or water: $.75 per hour additional.

Work from swinging scaffolds, boatswains chairs or similar devices: $.75 per hour additional.

PLUM0350A 02/01/1998

	Rates	Fringes
EL DORADO COUNTY (Lake Tahoe area only); NEVADA COUNTY (Lake Tahoe area only); AND PLACER COUNTY (Lake Tahoe area only):		
PLUMBER/PIPEFITTER	22.45	9.00

PLUM0355A 07/01/1999

	Rates	Fringes

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA COUNTIES

LANDSCAPE FITTER; UNDERGROUND UTILITY WORKER	22.00	4.90

PLUM0447A 07/01/1999

	Rates	Fringes
EL DORADO COUNTY (does not include Lake Tahoe area); NEVADA COUNTY (does not include Lake Tahoe area); PLACER COUNTY (does not include Lake Tahoe area); SACRAMENTO AND YOLO COUNTIES:		
PLUMBER; PIPEFITTER: Work on residential structures that are over 4 stories but not over 5 stories in height from the ground floor, including but not limited to condominiums and apartment houses. On defining height in stories, parking levels are not to be considered as occupied stories. Also, work on any commercial structure that the total plumbing bid does not exceed $150,000, and an additional $75,000 to cover work related to the piping for comfort air conditioning systems, but shall exclude all work on sewage plants, water treatment plants, industrial processing plants, cogeneration and biomass plants, any type of refrigeration work, including service, start-up work or instrumentation work, and all other similar work	19.98	7.12
All other work	28.97	10.25

PLUM0447B 07/01/1999

	Rates	Fringes
AMADOR COUNTY (north of the San Joaquin River):		
HEAVY AND HIGHWAY CONSTRUCTION:		
PLUMBER; PIPEFITTER	28.97	10.25

ROOF0081G 08/01/1999

	Rates	Fringes
MARIN, NAPA, SOLANO AND SONOMA COUNTIES:		
ROOFER	21.45	9.60

ROOF0081H 09/01/1999

	Rates	Fringes
ALPINE, ALPINE, BUTTE, COLUSA, EL DORADO, GLENN,LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA COUNTIES:		
ROOFER	18.26	10.03

SFCA0483C 01/01/2000

	Rates	Fringes
MARIN, NAPA, SOLANO AND SONOMA COUNTIES:		
SPRINKLER FITTER (FIRE)	34.59	11.20

SFCA0669C 04/01/1999

	Rates	Fringes
ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES:		
SPRINKLER FITTER (FIRE)	27.35	6.40

SHEE0104C 06/01/1999

	Rates	Fringes
TRINITY COUNTY:		
SHEET METAL WORKER (does not include metal deck and siding):		
Work on multiple family housing units over 4 stories where each individual family apartment is individually conditioned by a separate and independent unit or system; Also, work on any structure other than multiple family housing units, with a total HVAC and architectural sheet metal price of $125,000 or less	13.74	5.08
All other work	17.66	8.64

SHEE0104F 07/01/1998

	Rates	Fringes
MARIN, NAPA, SOLANO AND SONOMA COUNTIES:		
SHEET METAL WORKER (does not include metal deck and siding):		
Work on any multi-family dwelling over 4 stories that incorporates a separate and independent unit for heating and/or cooling purposes (excluding built-up central air handling systems)	29.45	11.51
Work on tenant completion		

projects providing the contract price is $220,000 or less; remodel or add-on contracts on existing facilities providing the contract price is $220,000 or less; architectural sheet metal work of $100,000 or less; pre-engineered and pre-manufactured siding	30.10	11.71
All other work	35.11	12.56

SHEE0104N 07/01/1999

	Rates	Fringes
MARIN, NAPA, SOLANO, SONOMA AND TRINITY COUNTIES:		
SHEET METAL WORKER:		
Metal deck and siding	27.44	11.80

SHEE0162F 07/01/1999

	Rates	Fringes
AMADOR, COLUSA, EL DORADO, NEVADA, PLACER, SACRAMENTO, SUTTER, YOLO AND YUBA COUNTIES:		
SHEET METAL WORKER (does not include metal deck and siding)	25.24	10.46

SHEE0162G 01/01/2000

	Rates	Fringes
AlPINE COUNTY:		
SHEET METAL WORKER:	21.96	10.23

SHEE0162H 07/01/1999

	Rates	Fringes
ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, YOLO AND YUBA COUNTIES:		
SHEET METAL WORKER:		
Metal deck and siding	29.42	9.52

SHEE0162N 07/01/1999

	Rates	Fringes
BUTTE, GLENN, LASSEN, MODOC, PLUMAS, SHASTA, SIERRA, SISKIYOU AND TEHAMA COUNTIES:		
SHEET METAL WORKER:	25.24	10.46

SUCA1002A 07/01/1985

	Rates	Fringes
AMADOR COUNTY:		
BUILDING CONSTRUCTION:		
BOILERMAKERS:		

Boilermaker	21.60	4.25
Boilermaker - blacksmith (storage tank erection)	17.25	4.00
Boilermaker - blacksmith (storage tank repair)	16.05	4.00
BRICKLAYER; STONEMASON	17.57	4.04
BRICK TENDER	13.80	3.46
CARPENTERS:		
Carpenter	18.58	6.455
Hardwood floorlayer; Power saw operator; Saw filer; Shingler; Steel scaffold erector and steel shoring	18.73	6.455
Millwright	19.48	7.855
Piledriver, bridge, wharf and dock builder	19.38	9.715
CEMENT MASONS:		
Cement mason	16.91	6.18
Swing or slip form scaffolds; Mastic, magnesite, gypsum, epoxy, polyester, resin and all composition	17.16	6.18
DRYWALL INSTALLERS/LATHERS:		
Drywall installer/lather	18.14	6.485
Drywall stocker, scrapper & clean-up	9.07	3.335
ELECTRICIANS:		
Electrician	16.30	3% + 3.38
Cable splicer	17.93	3% + 3.38
Residential electrician	12.50	3.30
Sound and signal technician	15.15	1.50
ELEVATOR CONSTRUCTOR	29.39	3.29 + a
GLAZIER	15.75	6.44
INSULATOR/ASBESTOS WORKER Includes the application of all insulating materials, protective coverings, coatings, and finishings to all types of mechanical systems	23.85	5.61
IRONWORKERS:		
Fence erector	18.01	8.93
Ornamental, reinforcing and structural	18.90	8.93
MARBLE FINISHER	13.92	3.67
MARBLE SETTER AND TERRAZZO WORKER	17.57	4.04
PAINTERS:		
Brush	13.39	4.60
Spray	14.14	4.60
Sandblaster; Scaffold; Sheetrock; Structural steel; Swing stage; Taper	13.79	4.60
PARKING LOT STRIPING WORK AND/OR HIGHWAY MARKERS:		
Traffic delineating device applicator	14.83	2.00 + b
Sandblaster; Striper; Wheel stop installer	14.30	2.00 + b
Slurry seal operation:		
Applicator operation; Shuttle; Squeegee	12.37	2.00 + b
Compactor, top, traffic		

control, service and spreader	10.39	2.00 + b
Mixer operator	13.95	2.00 + b
Traffic surface protective coating applicator	14.48	2.00 + b
PLASTERER	17.36	6.35
PLUMBER; STEAMFITTER:		
Amador County (northern half)	19.72	6.71
Amador County (southern half)	22.03	6.35
ROOFERS:		
Roofer (slate, tile and composition)	14.90	7.64
Enameler and pitch	17.65	7.64
SHEET METAL WORKER	18.37	12% + 5.06
SOFT FLOOR LAYER	16.01	3.00
SPRINKLER FITTER	21.87	3.23
TERRAZZO FINISHERS:		
Base machine operator	16.72	3.95
Terrazzo finisher	16.02	3.95
TILE SETTER	18.92	3.29
TILE FINISHER	10.68	1.65
LABORERS:		
GROUP 1	12.11	5.36
GROUP 1-a	12.31	5.36
GROUP 1-b	*	5.36
GROUP 1-c	12.16	5.36
GROUP 1-d	12.36	5.36
GROUP 1-e	12.59	5.36
GROUP 1-f	12.62	5.36
GROUP 2	11.98	5.36
GROUP 3	11.88	5.36
GROUP 4	8.46	5.36
GUNITE LABORERS:		
GROUP 1	12.52	5.36
GROUP 2	12.00	5.36
GROUP 3	11.88	5.36
WRECKING WORK:		
GROUP 1	12.11	5.36
GROUP 2	11.98	5.36
GROUP 3	11.88	5.36

*See Group 1-b under the group descriptions.

POWER EQUIPMENT OPERATORS:		
Area 1:		
GROUP 1-a	11.76	9.60
GROUP 1	15.54	9.60
GROUP 2	16.09	9.60
GROUP 3	16.42	9.60
GROUP 4	17.27	9.60
GROUP 5	17.60	9.60
GROUP 6	17.83	9.60
GROUP 7	18.08	9.60
GROUP 8	18.76	9.60
GROUP 9	19.10	9.60
GROUP 10	19.45	9.60
GROUP 10-a	19.64	9.60

GROUP 11	19.91	9.60
GROUP 11-a	21.71	9.60
GROUP 11-b	22.14	9.60
GROUP 11-c	22.65	9.60
Area 2:		
GROUP 1-a	13.76	9.60
GROUP 1	17.54	9.60
GROUP 2	18.09	9.60
GROUP 3	18.42	9.60
GROUP 4	19.27	9.60
GROUP 5	19.60	9.60
GROUP 6	19.83	9.60
GROUP 7	20.08	9.60
GROUP 8	20.76	9.60
GROUP 9	21.10	9.60
GROUP 10	21.45	9.60
GROUP 10-a	21.64	9.60
GROUP 11	21.91	9.60
GROUP 11-a	23.71	9.60
GROUP 11-b	24.14	9.60
GROUP 11-c	24.65	9.60
TRUCK DRIVERS:		
GROUP 1	16.80	7.04
GROUP 2	16.88	7.04
GROUP 3	16.90	7.04
GROUP 4	16.91	7.04
GROUP 5	16.92	7.04
GROUP 6	16.93	7.04
GROUP 7	16.95	7.04
GROUP 8	16.97	7.04
GROUP 9	16.98	7.04
GROUP 10	17.00	7.04
GROUP 11	17.01	7.04
GROUP 12	17.05	7.04
GROUP 13	17.06	7.04
GROUP 14	17.07	7.04
GROUP 15	17.10	7.04
GROUP 16	17.11	7.04
GROUP 17	17.12	7.04
GROUP 18	17.14	7.04
GROUP 19	17.15	7.04
GROUP 20	17.16	7.04
GROUP 21	17.21	7.04
GROUP 22	17.24	7.04
GROUP 23	17.25	7.04
GROUP 24	17.34	7.04
GROUP 25	17.35	7.04
GROUP 26	17.38	7.04
GROUP 27	17.40	7.04
GROUP 28	17.44	7.04
GROUP 29	17.45	7.04
GROUP 30	17.48	7.04
GROUP 31	17.54	7.04
GROUP 32	17.47	7.04
GROUP 33	17.69	7.04
GROUP 34	17.79	7.04
GROUP 35	17.84	7.04
GROUP 36	17.99	7.04
GROUP 37	18.14	7.04

FOOTNOTES:

a. Vacation Pay: 8% with 5 or more years of service, 6% for 6 months to 5 years service. Paid Holidays: New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Friday after, and Christmas Day.

b. Employer contributes $ .80 per hour to vacation fund for the first year of employment; 1 year but less than 5 years, 1.13 per hour to vacation fund; 5 years but less than 10 years, 1.48 per hour to vacation fund; over 10 years 1.83 per hour to vacation fund.

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt ironer and raker; Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Chainsaw, faller, logloader and bucker; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete saw; Concrete sander; Cribber and/or shoring; Cut granite curb setter; Form raiser; Slip form; Green Cutter, headerboard, hubsetter, aligner; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactors; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials; Lagging, sheeting, whaling, bracing, trenchjacking, handguided lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); Perma curb; Precast-manhole setter; Cast-in-place manhole form setter; Pressure pipe tester; Pavement breaker and spader, including tool grinder; Pipelayer, caulker, bander, pipewrapper, conduit layer, plastic pipelayer, post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry); Rotary Scarifier, multiple head concrete chipper; Davis trencher, 300 or similar type (and all small trenchers); Roto and Ditch Witch; Roto-tiller; Sandblaster, pot, gun, nozzle operator; Signalling and rigging; Tank cleaner; Tree climber; Vibrascreed, bull float in connection with laborers' work; Vibrator; Dri-pak-it machine; High pressure blow pipe (1-1/2-inch. or over, 100 lbs. pressure and over); Hydro seeder and similar type; Laser beam in connection with laborers' work

GROUP 1-a: Joy drill model TWM-2A; Gardener-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Diamond driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Multiple unit drill; Blaster and powder; All work or loading, placing and blasting of all power and explosives of whatever type regardless of method used for such loading and placing; High scaler (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaner receives an additional $4.00 per day; $5.00 per day on recently active large diameter sewers or sewer manholes

GROUP 1-c: Burning and welding in connection with laborers' work

GROUP 1-d: Repair track and road beds (cut and cover work of subway after the temporary cover has been placed)

GROUP 1-e: Laborer on general construction work on or in bell hole footings and shaft

GROUP 1-f: Wire winding machine in connection with guniting or shotcrete-aligner

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and digger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding;

Concrete laborer (wet or dry); Chuck tender; High pressure nozzle operator, adductor; Grout-crew; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Singlefoot, hand held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe under 12 inches

GROUP 3: All clean-up work of debris, grounds and buildings including but not limited to street cleaner; Cleaning and washing windows; Construction laborers including bridge and general laborer; Dump; Load spotter; Fire watcher; Street cleaner; Gardener, horticultural and landscape laborer; Jetting; Limber; Brush loader; Piler, maintenance landscape laborer on new construction; Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Fence erector; Guardrail erector; Pavement marker (button setter)

GROUP 4: Brick cleaner; Lumber cleaner

GUNITE CLASSIFICATIONS

GROUP 1: Nozzle operator (including gun, pot); Ground person

GROUP 2: Rebound person

GROUP 3: General laborer

WRECKING WORK CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows, doors, plumbing and electric fixtures)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

GROUP 3: General laborer (includes all clean-up work, loading lumber, loading and burning of debris)

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1-a: Landscape irrigation trencher, Davis trencher (300 or similar and all small trenchers including all trenching equipment with seats) capacity up to 3 ft. in depth

GROUP 1: Assistant to engineer (Brake; Fire tender; Heavy duty repair tender; Oiler; Deckhand; Signal; Switch; Tar pot fire tender)

GROUP 2: Compressor operator; Concrete mixer (up to and including 1 yd.); Conveyor belt operator (tunnel); Fire tender, hot plant; Hydraulic monitor; Mechanical conveyor (handling

building materials); Mixer box operator (concrete plant); Pump

operator; Spreader box (with screeds); Tar pot fire tender (power agitated)

GROUP 3: Box operator (bunker); Helicopter radio operator (signal); Motor operator; Locomotive (30 tons or under); Oiler; Ross Carrier (construction job site); Rotomist operator; Screed (except asphaltic concrete paving); Self-propelled, automatically applied concrete curing machine (on streets, highways, airports and canals); Trenching machine (maximum digging capacity 5 ft. depth); Tugger hoist, single drum; Truck crane oiler; Boiler tender

GROUP 4: Ballast jack tamper; Ballast regulation; Ballast tamper multipurpose; Box (asphalt plant); Elevator operator (inside); Fork lift or lumber stacker (construction job site); Line master; Material hoist (1 drum); Shuttlecar; Tie spacer; Towermobile

GROUP 5: Compressor operator (over 2); Concrete mixer (over 1 yd.); Concrete pump or pumpcrete gun; Generator; Grouting machine; Pressweld (air operated); Pumps (over 1); Welding machines (powered other than by electricity)

GROUP 6: BLH Lima road pactor or similar; Boom truck or dual-purpose A-frame truck; Concrete batch plant (wet or dry); Concrete saw (self-propelled unit) on streets, highways, airports and canals; Drilling and boring machinery, vertical and horizontal (not to apply to waterliners, wagon drills or jackhammers); Gradesetter, grade checker (mechanical or otherwise); Highline cableway signal; Locomotive (steam of over 30 tons); Maginnis internal full slab vibrator (on airports, highways, canals and warehouses); Mechanical finisher (concrete) (Clary, Johnson, Bidwell Bridge deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt; Portable crusher; Post driver (M-1500 and similar); Power jumbo operator (setting slip forms, etc., in tunnels); Roller (except asphalt); Screed (Barber-Greene and similar) (asphaltic concrete paving); Self-propelled compactor (single engine); Self-propelled pipeline wrapping machine, Perault, CRC, or similar types; Slip form pump (lifting device for concrete forms); Small rubber-tired tractor; Surface heater; Self-propelled power sweeper; Self-propelled tape machine; Auger-type drilling equipment, up to and including 30 ft. depth digging capacity m.r.c.

GROUP 7: Concrete conveyor or concrete pump, truck or equipment mounted (boom length to apply); Concrete conveyor, building site; Deck engineer; Dual drum mixer; Fuller Kenyon pump and similar types; Gantry rider (or similar); Hydra-hammer (or similar); Material hoist (2 or more drums); Mechanical finisher or spreader machine (asphalt, Barber-Greene and similar); Mine or shaft hoist; Mixermobile; Pavement breaker with or without compressor combination; Pipe bending machine (pipelines only); Pipe cleaning machine (tractor propelled and supported); Pipe wrapping machine (tractor propelled and supported); Refrigeration plant; Roller operator (finish asphalt); Self-propelled boom-type lifting device (center mount)

(10 tons or less m.r.c.); Self-propelled elevating grader plane; Slusher operator; Small tractor (with boom); Soil tester; Truck-

type loader; Welding machine (gasoline or diesel)

GROUP 8: Armor-Coater (or similar); Asphalt plant engineer; Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete batch plant (multiple units); Dozer; Heading shield operator; Heavy-duty repair and/or welder; Ken Seal machine (or similar); Kolman loader; Loader (up to 2 yds.); Mechanical trench shield; Portable crushing and screening plant; Push cat; Rubber-tired earth-moving equipment (up to and including 45 cu. yds. "struck" m.r.c.) (Euclids, T-Pulls, DW-10, 20, 21 and similar); Rubber-tired dozer; Self-propelled compactor with dozer; Sheepfoot; Timber skidder (rubber-tired or similar equipment); Tractor-drawn scraper; Tractor; Trenching machine; Tri-batch paver; Tunnel mole boring machine; Woods-Mixer (and other similar Pugmill equipment)

GROUP 9: Canal finger drain digger; Chicago boom; Combination mixer and compressor (gunite); Combination slurry mixer and/or cleaner; Highline cable (5 tons and under); Lull Hi-lift or similar (20 ft. or over); Mucking machine (rubber-tired, rail or track type); Tractor (with boom) (D-6 or larger and similar)

GROUP 10: Boom-type backfilling machine; Bridge crane; Cary-lift (or similar); Chemical grouting machine, truck-mounted; Combination backhoe and loader (up to and including 1/2 cu. yd. m.r.c.); Derrick (2 operators required when swing engine remote from hoist); Derrick barge (except excavation work); Do-mor loader; Adams elegrader; Elevating grader; Heavy rotary drill rig (including caisson foundation work and Euclid loader and similar type); Robbins type drill; Koehring Skooper (or similar); Lift slab machine (Vagtborg and similar types); Loader (2 yds. up to and including 4 yds.); Locomotive, 100 tons (single or multiple units); Multiple engine earthmoving machine (Euclids, dozers, etc.) (no tandem scraper); Pre-stress wire wrapping machine; Reservoir-debris tug (self-propelled floating); Rubber-tired scraper, self-loading (paddle wheels, etc.); Shuttle car (reclaim station); Single-engine scraper over 45 yds.; Soil stabilizer (P & H or equal); Sub-grader (Gurrier or other automatic type); Tractor, compressor drill combination; Track-laying-type earthmoving machine (single engine with tandem scrapers); Train loading station; Trenching machine, multi-engine with sloping attachment, Jeffco or similar; Vacuum cooling plant; Whirley crane (up to and including 25 tons)

GROUP 10-a: Backhoe (hydraulic) (up to and including 1 cu. yd. m.r.c.); Backhoe (cable) (up to and including 1 cu. yd. m.r.c.); Combination backhoe and loader (over 3/4 cu. yd. m.r.c.); Continuous flight tie back auger (crane attached/separate controls); Crane not over 25 tons, Hammerhead and Gantry; Gradall (up to and including 1 cu. yd.); Power blade operator (single engine); Power shovel, clamshell, dragline (up to and including 1 cu. yd. m.r.c.) (long boom pay); Rubber-tired scraper, self-loading (Paddle Wheel, twin engine); Self-

propelled boom-type lifting device (center mount); over 10 tons up to and including 25 tons); CMI dual land auto grader SP-30 or similar

GROUP 11: Automatic concrete slip-form paver (Gradesetter, Screed); Automatic railroad car dumper; Canal trimmer with ditching attachment; Cary-lift, Campbell or similar; Continuous

flight tie back auger (crane attached, single controls); Crane (over 25 tons up to and including 125 tons); Drott travelift 650-A-1 or similar (45 tons or over); Euclid loader when controlled from the Pullcat; Highline cableway (over 5 tons); Loader (over 4 cu. yds. up to and including 12 cu. yds.); Miller formless M-900 slope paver or similar (grade setter required); Multiple engine scraper (when used as Push Pull); Power blade operator (multi-engine); Power shovel, clamshell, dragline, backhoe, gradall (over 1 cu. yd. up to and including 7 cu. yds. m.r.c., long boom pay); Rubber-tired earthmoving machine (multiple propulsion power units and two or more scrapers) (up to and including 75 cu. yds. struck m.r.c.); Self-propelled compactor boom-type lifting device (center mount) (over 25 tons m.r.c.); Single engine rubber-tired earthmoving machine (with tandem scrapers); Slip form paver (concrete or asphalt) (screed required); Tandem cat; Tower crane mobile (including rail mounted); Trencher (pulling attached shield); Tower cranes, Universal Liebher and similar types (in the erection, dismantling and moving of equipment); Wheel excavator (up to and including 750 cu. yds. per hour); Whirley crane (over 25 tons); Multi-earthmoving equipment (up to and including 75 cu. yds. "struck" m.r.c.); Truck-mounted hydraulic crane when remote control equipped (over 10 tons up to and including 25 tons)

GROUP 11-A: Band wagon (in conjunction with wheel excavator); Crane (over 125 tons); Loader (over 12 cu. yds. up to and including 18 cu. yds.); Power shovel, clamshell, backhoe, gradall and dragline (over 7 cu. yds. m.r.c.); Rubber-tired multi-purpose earthmoving machine (2 units over 75 cu. yds. "struck" m.r.c.); Wheel excavator (over 750 cu. yds. per hour)

GROUP 11-b: Loader (over 18 yds.)

GROUP 11-c: Operator of helicopter (when used in erection work); Remote-controlled earthmoving equipment

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Bulk cement spreader (with or without auger, under 4 yds. water level); Bus driver; Concrete pump machine; Concrete pump truck (when flat rack truck is used appropriate flat rack rate shall apply); Dump (under 4 yds. water level); Dumpcrete truck (under 4 yds. water level); Dumpster (under 4 yds. water level); Escort or pilot car driver; Nipper truck (when flat rack truck is used appropriate flat rack rate shall apply); Pickup; Skid (debris box, under 4 yds. water level); Team driver; Truck (dry pre-batch concrete mix, under 4 yds. water level)

GROUP 2: Teamster oiler and/or greaser and/or service person

GROUP 3: Bulk cement spreader (with or without auger, 4 yds. and under 6 yds. water level); Dump (4 yds. and under 6 yds. water level); Dumpcrete (4 yds. and under 6 yds. water level); Dumpster (4 yds. and under 6 yds. water level); Skid (debris box, 4 yds. and under 6 yds. water level); Single unit flat rack (2 axle unit); Industrial lift truck (mechanical tailgate); Truck (dry pre-batch concrete mix, 4 yds. and under 6 yds. water level)

GROUP 4: Jetting truck and water truck (under 2,500 gallons)

GROUP 5: Road oil truck or boot person

GROUP 6: Lift jitney, fork lift

GROUP 7: Transit mix, agitator (under 6 yds.)

GROUP 8: Fuel and/or grease truck driver or fuel

GROUP 9: Vacuum truck, under 3,500 gallons

GROUP 10: Scissor truck; Single unit flat rack (2 axle unit); Industrial lift truck (mechanical tailgate); Small rubber-tired tractor (when used within Teamsters' jurisdiction)

GROUP 11: Jetting truck and water trucks, 2,500 gallons and under 4,000 gallons

GROUP 12: Combination winch truck with hoist; Transit mix agitator (6 yds. and under 8 yds.)

GROUP 13: Vacuum truck, 3,500 gallons and under 5,500 gallons

GROUP 14: Rubber-tired muck car (not self-loaded)

GROUP 15: Bulk cement spreader (with or without auger, 6 yds. and under 8 yds. water level); Dump (6 yds. and under 8 yds. water level); Dumpcrete (6 yds. and under 8 yds. water level); Dumpster (6 yds. and under 8 yds. water level); Skid (debris box, 6 yds. and under 8 yds. water level); Truck (dry pre-batch concrete mix, 6 yds. and under 8 yds. water level)

GROUP 16: A-frame, winch truck; Buggymobile; Jetting and water truck (4,000 gallons and under 5,000 gallons); Rubber-tired jumbo

GROUP 17: Heavy-duty transport (high bed)

GROUP 18: Ross Hyster and similar straddle carrier

GROUP 19: Transit mix agitator (8 yds. through 10 yds.)

GROUP 20: Vacuum truck (5,500 gallons and under 7,500 gallons)

GROUP 21: Jetting truck and water truck (5,000 gallons and under 7,000 gallons)

GROUP 22: Combination boot person and road oiler

GROUP 23: Transit mix agitator (over 10 yds. through 12 yds.)

GROUP 24: Bulk cement spreader (with or without auger, 8 yds. and including 12 yds. water level); Dump (8 yds. and including 12 yds. water level); Dumpcrete (8 yds. and including 12 yds. water level); Self-propelled street sweeper with self-contained refuse bin; Skid (debris box, 8 yds. and including 12 yds. water level); Snow Go and/or snow plow; Truck (dry pre-batch concrete mix, 8 yds. and including 12 yds. water level)

GROUP 25: Heavy-duty transport (gooseneck lowbed)

GROUP 26: Transit mix agitator (over 12 yds. through 17 yds.)

GROUP 27: Ammonia nitrate distributor driver and mixer; Bulk cement spreader (with or without auger, over 12 yds. and including 18 yds. water level); Dump (over 12 yds. and including 18 yds. water level); Dumpcrete (over 12 yds. and including 18 yds. water level); Dumpster (over 12 yds. and including 18 yds. water level); Skid (debris box, over 12 yds. and including 18 yds. water level); Truck (dry pre-batch concrete mix, over 12 yds. and including 18 yds. water level)

GROUP 28: Double gooseneck (7 or more axles); Heavy-duty transport tiller

GROUP 29: P.B. or similar type self-loading truck

GROUP 30: Transit mix agitator (over 14 yds. through 16 yds.)

GROUP 31: Bulk cement spreader (with or without auger, over 18 yds. and including 24 yds. water level); Combination dump and dump trailer; Dump (over 18 yds. and including 24 yds. water level); Dumpcrete (over 18 yds. and including 24 yds. water level); Dumpster (over 18 yds. and including 24 yds. water level); Skid (debris box, over 18 yds. and including 24 yds. water level); Transit mix agitator (over 12 yds. through 16 yds); Truck (dry pre-batch concrete mix, over 18 yds. and including 24 yds. water level)

GROUP 32: Bulk cement spreader (with or without auger, over 24 yds. and including 35 yds. water level); Dump (over 24 yds. and including 35 yds. water level); Dumpcrete (over 24 yds. and including 35 yds. water level); Dumpster (over 24 yds. and including 35 yds. water level); DW 10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTournapulls, Tournarocker, Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers; Skid (debris box, over 24 yds. and including 35 yds. water level); Truck (dry pre-batch concrete mix, over 24 yds. and including 35 yds. water

level)

GROUP 33: Truck repair person

GROUP 34: Bulk cement spreader (with or without auger, over 35 yds. and including 50 yds. water level); Dump (over 35 yds. and including 50 yds. water level); Dumpcrete (over 35 yds. and including 50 yds. water level); Dumpster (over 35 yds. and including 50 yds. water level); Skid (debris box, over 35 yds. and including 50 yds. water level); Truck (dry pre-batch concrete mix, over 35 yds. and including 50 yds. water level)

GROUP 35: DW 10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTournapulls, Tournarocker, Euclid and similar type equipment when pulling Aqua/Pak or water tank trailers

GROUP 36: Bulk cement spreader (with or without auger, over 50 yds. and under 65 yds. water level); Dump (over 50 yds. and under 65 yds. water level); Dumpcrete (over 50 yds. and under 65 yds. water level); Dumpster (over 50 yds. and under 65 yds. water

level); Helicopter pilot (when transporting workers or 8aterials); Skid (debris box, over 50 yds. and under 65 yds. water level); Truck (dry pre-batch concrete mix, over 50 yds. and under 65 yds. water level)

GROUP 37: Bulk cement spreader (with or without auger, 65 yds. and including 80 yds. water level); Dump (65 yds. and including 80 yds. water level); Dumpcrete (65 yds. and including 80 yds. water level); Dumpster (65 yds. and including 80 yds. water level); Skid (debris box, 65 yds. and including 80 yds. water level); Truck (dry pre-batch concrete mix, 65 yds. and including 80 yds. water level)

GROUP 38: Bulk cement spreader (with or without auger, over 80 yds. and including 95 yds. water level); Dump (over 80 yds. and including 95 yds. water level); Dumpcrete (over 80 yds. and including 95 yds. water level); Dumpster (over 80 yds. and including 95 yds. water level); Skid (debris box, over 80 yds. and including 95 yds. water level); Truck (dry pre-batch concrete mix, over 80 yds. and including 95 yds. water level)

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	Rates	Fringes
TRUCK DRIVERS:		
GROUP 1	21.06	11.46
GROUP 2	21.36	11.46
GROUP 3	21.66	11.46
GROUP 4	22.01	11.46
GROUP 5	22.36	11.46

FOOTNOTES:

Articulated dump truck; Bulk cement spreader (with or without auger); Dumpcrete truck; Skid truck (debris box); Dry pre-batch concrete mix trucks; Dumpster or similar type; Slurry truck: Use

dump truck yardage rate.

Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2-axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuelperson; Snow buggy; Steam cleaning; Bus or personhaul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 2: Dump trucks, 6 yds. and under 8 yds.; Transit mixers, through 10 yds.; Water trucks, under 7,000 gals.; Jetting trucks, under 7,000 gals.; Vacuum trucks, under 7,500 gals.; Single unit (flat rack 3-axle unit); Highbed heavy duty transport; Scissor truck; Rubber-tired muck car (not self-loaded); Rubber-tired truck, jumbo; Winch truck and "A" frame drivers; Combination

winch truck with hoist; Road oil truck or bootperson; Buggymobile; Ross, Hyster and similar straddle carrier; Small rubber-tired tractor

GROUP 3: Dump trucks, 8 yds. and including 35 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks, 7,500 gals. and over; Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self-propelled street sweeper with self-contained refuse bin; Boom truck - hydro-lift or Swedish type extension or retracting crane; P.B. or similar type self-loading truck; Tire repairperson; Truck repairperson; Combination bootperson and road oiler; Dry distribution truck (A bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 4: Dump trucks, over 35 yds. and under 65 yds.; Water pulls - DW 10's, 20's, 21's and other similar equipment when pulling Aqua/pak or water tank trailers; Helicopter pilots (when transporting men or materials); DW10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTourneau Pulls, Tournorocker, Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler

WELDERS - Receive rate prescribed for craft performing operation

to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(v)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the

Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor

200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION