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June 9, 2018

Addendum No.: 3

City Project No. 17-22, North Valley Regional Recycled Water Pipeline – Turlock Component

Plan holders:

Addendum No. 3 has been prepared by Carollo Engineers and is attached hereto and consists of 140 pages:

If you have any questions, please contact Stephen Fremming at (209) 668-5417 or email at sfremming@turlock.ca.us.

Sincerely,

Randall Jones
Assistant Engineer



**CITY OF TURLOCK
TURLOCK, CA**

NORTH VALLEY REGIONAL RECYCLED WATER PROGRAM

CLIENT PROJECT NO. 17-22A

**ADDENDUM NO. 3
TO THE
CONTRACT DOCUMENTS**

June 2018



Bid Set Signed by:

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Bidders on the above-named project are hereby notified that the Bidding Documents are modified as indicated below. Bidders are required to acknowledge receipt of this Addendum in the space provided on the Document 00410 Bid Form.

This Addendum No. 3 shall become part of the Contract and provisions of the Contract apply.

SPECIFICATIONS

The following sections are modified as indicated below.

1. SECTION 00002 - TABLE OF CONTENTS:
 - a. ADD "Dewatering Agreement - Gioletti" as the title for Appendix R in Volume 4 listed on page vi.
2. SECTION 01756 - COMMISSIONING:
 - a. REPLACE section in its entirety with the attached section.
3. SECTION 02240 - DEWATERING
 - a. REPLACE section in its entirety with the attached section.
4. SECTION 02742A - ASPHALTIC CONCRETE PAVING:
 - a. REPLACE section in it its entirety with the attached section.

DRAWINGS

The following drawings will be "replaced with the attached drawings" as part of Addendum 2:

1. Drawing: G01
Narrative of Edit: Added City of Modesto signature block per Modesto requirements

APPENDICES

The following appendices are modified as indicated below:

1. APPENDIX J - DEPARTMENT OF INDUSTRIAL RELATIONS PREVAILING WAGES LAWS
 - a. ADD Federal Wage Determination in Appendix J after the General Prevailing Wage Determinations.
2. APPENDIX K - STANISLAUS COUNTY DRAFT ENCROACHMENT PERMIT
 - a. REPLACE section in its entirety with the attached section.
3. APPENDIX R - DEWATERING AGREEMENT - GIOLETTI
 - a. REPLACE section in its entirety with the attached section.

SECTION 01756

COMMISSIONING

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Requirements for each Commissioning phase of, the Project equipment/system and/or facility.

1.02 DEFINITIONS

- A. Commissioning - The process of planning, testing, and process start-up of the installation for compliance with contract requirements and demonstrating, through documented verification, that the project has successfully met the Contractual requirements. It includes training the Owner's staff to operate the facility.
- B. Commissioning Phases - The work activities of facility commissioning are grouped into the phases defined in the table below.

Commissioning		
Planning Phase	Testing and Training Phase	Process Start-Up Phase
Owner Training Plan and Schedule	Source Testing	Process Start-up
Commissioning Schedule	Owner Training	Process Operational Period
Subsystem Testing Plan	Installation Testing	Instrumentation and Controls Fine-Tuning
	Closeout Documentation	

- C. Component - A basic building block of equipment, subsystems, and systems that requires installation or functional testing but does not have an electrical connection or internal electronics. (Examples: filter effluent piping and manual isolation valves).
- D. Device - A basic building block of equipment, subsystems, and systems that requires installation or functional testing and does have an electrical connection or internal electronics. (Examples: filter level transmitter or water pump pressure transmitter).
- E. Equipment - An assembly of component(s) and devices(s) that requires installation or functional testing. (Examples: Pump, motor, VFD, Ozone Generator, UV Disinfection System, etc.).
- F. Facility - A grouping of process areas, systems, subsystems, equipment, components, and devices (Examples: treatment plant, pump station, etc.).
- G. Functional Testing - Testing performed on a completed subsystem to demonstrate that equipment/system meets manufacturers' calibration and adjustment

requirements and other requirements as specified. Functional testing includes operating equipment/system manually in local, manually in remote (or remote manual), and automatically in remote (in remote auto).

- H. Installation Testing - Testing to demonstrate that subsystem component (piping, power, networks, devices, etc.) is ready and meets the project requirements in advance of functional testing. Installation testing also includes manufacturers' certification of installation and other requirements as specified to prepare equipment/system for Functional Testing. Also referred to as Field Acceptance Testing.
- I. Manufacturer's Certificate of Source Testing - When applicable, the form is used during Source Testing for the manufacturer to confirm that the applicable source tests have been performed and results conform to the Contract Documents. The form is provided at the end of this Section.
- J. Manufacturer's Certificate of Installation and Functionality Compliance - The form is used during Installation Testing and Functional Testing. It is submitted at the end of Functional Testing to confirm that the equipment/system is installed in conformance with the Contract Documents and that it meets the Functional Testing requirements defined in the Contract Documents. The form is provided at the end of this Section.
- K. Process Area - A grouping of systems, subsystems, equipment, components, and devices that divide a facility into functional areas. (Examples: Filter Process Area or Chemical Area).
- L. Process Operational Period - A period of time after completion of the process start-up set aside for final Operational Testing to verify facility performance meets the Contract Document requirements. This period may specifically limit other construction activities.
- M. Process Start-up Phase - Operating the facility to verify performance meets the Contract Document requirements.
- N. Process Start-Up - Activities conducted after the testing and training phase that are necessary to place systems or process areas into operational service.
- O. Product - A system, subsystem or component.
- P. Subsystem - A building block of systems made up from a grouping of components, devices, and equipment that perform a definable function. (Examples: Filter No. 1 Backwash Subsystem, Sedimentation Basin No. 1 Hoseless Sludge Removal Subsystem).
- Q. System - A grouping of subsystems, equipment, components, and devices that perform a definable function. (Examples: Filter No. 1, Sedimentation Basin).

1.03 COMMISSIONING COORDINATOR (CC)

- A. Designate and provide a CC for this project.
- B. CC responsibilities include the following:
 - 1. Lead efforts relating to Commissioning.

2. Be thoroughly familiar with commissioning requirements in the Contract Documents.
3. Be regularly engaged and experienced in all aspects of commissioning.
4. Provide technical instruction for commissioning.
5. Provide primary interface with Construction Manager and Owner for efforts relating to Commissioning of Project facilities.
6. Coordinate training efforts.

C. Designate and provide CC assistants, as needed.

1.04 SERVICES OF MANUFACTURER'S REPRESENTATIVES

- A. Qualification of manufacturer's representative as specified in the Contract Documents technical sections include the following:
 1. Authorized representative of the manufacturer, factory trained and experienced in the technical applications, installation, operation, and maintenance of respective equipment/system with full authority by the equipment/system manufacturer to issue the certifications required of the manufacturer.
 2. Competent, experienced technical representative of equipment/system manufacturer for assembly, installation, testing guidance, and training.
 3. Additional qualifications may be specified in the individual sections.
 4. Submit qualifications of the manufacturer's representative no later than 30 days in advance of required observations.
 5. Representative subject to approval by Owner, Construction Manager, and Engineer.
 6. No substitute representatives will be allowed until written approval by Owner, Construction Manager, and Engineer has been obtained.
- B. Completion of manufacturer on-site services: Engineer or Construction Manager approval required.
- C. Manufacturer is responsible for determining the time required to perform the specified services.
 1. Minimum times specified in the Contract Documents are estimates.
 2. No additional costs associated with performing the required services will be approved.
 3. Manufacturer required to schedule services in accordance with the Contractor's project schedule up to and including making multiple trips to project site when there are separate milestones associated with installation of each occurrence of manufacturer's equipment.
- D. Manufacturer's on-site services as specified in the Contract Documents include the following:
 1. Assistance during Commissioning Phase and Process Start-Up Phase.
 2. Other requirements as specified in the Contract Documents.

1.05 PLANNING PHASE

- A. Overview of Planning Phase:
 1. Define approach and timing for Commissioning.

- B. Owner training plan and schedule:
1. Training outcomes:
 - a. Owner's operations, maintenance, and engineering staff have the information needed to safely operate, maintain, and repair the equipment/systems provided in the Contract Documents.
 2. Training objectives:
 - a. To instruct personnel in the operation and maintenance of the equipment/system. Instruction shall include step-by-step troubleshooting procedures with all necessary test equipment/system.
 - b. To instruct personnel in the removal, inspection, and cleaning of equipment/system as needed.
 - c. Training tailored to the skills and job classifications of the staff attending the classes (e.g., plant superintendent, treatment plant operator, maintenance technician, electrician, etc.).
 - d. Provide supporting documentation, such as vendor operation and maintenance manuals.
 3. Training schedule:
 - a. Schedule Owner's staff training within the constraints of their workloads. Those who will participate in this training have existing full-time work assignments, and training is an additional assigned work task, therefore, scheduling is imperative. Owner staff work schedules regularly shift, as treatment facilities are typically operated on an around-the-clock basis.
 4. Training plan:
 - a. Coordinate and arrange for manufacturer's representatives to provide both classroom-based learning and field (hands-on) training, based on training module content and stated learning objectives.
 - b. Conduct classroom training at location designated by Owner.
 - c. Scope and sequence:
 - 1) Plan and schedule training in the correct sequence to provide prerequisite knowledge and skills to trainees.
 - a) Describe recommended procedures to check/test equipment/system following a corrective maintenance repair.
 5. Training scheduling coordination:
 - a. CC is responsible for the following:
 - 1) Coordinate schedule for training periods with the Owner's personnel and manufacturer's representatives (instructors).
 - b. Complete Owner training no sooner than 15 calendar days prior to start of process start-up of each system.
 6. Meetings:
 - a. CC is responsible for setting commissioning coordination meeting dates and times, as well as preparing the agendas and meeting minutes.
 - b. CC shall meet with Construction Manager, Engineer and Owner's designated training coordinator to develop list of personnel to be trained and to establish expected training outcomes and objectives at least 60 calendar days prior to commissioning of equipment/system.
 - c. CC shall conduct commissioning progress meetings a minimum 90 days prior to substantial completion.
 7. Submittals:
 - a. Submit Training Plan Schedule 30 calendar days before the first scheduled training session, including but not limited to lesson plans, participant materials, instructor's resumes, and training delivery schedules.

- b. Submit training documentation including the following:
 - 1) Training plan:
 - a) Training modules.
 - b) Scope and sequence statement.
 - c) Contact information for manufacturer's instructors including name, phone, and e-mail address.
 - d) Instructor qualifications.
 - 2) Training program schedule:
 - a) Format: Bar chart:
 - (1) Additionally include in the Project Progress Schedule.
 - b) Contents:
 - (1) Training modules and classes.
- 8. Training sessions:
 - a. Provide training sessions for equipment/system as specified in the individual equipment/system section.

C. Commissioning Schedule:

- 1. Commissioning overview:
 - a. Comply with Commissioning Roles and Responsibilities Matrix specified at the end of this Section.
- 2. Submittal due date:
 - a. Submit Commissioning Schedule not less than 30 calendar days prior to planned initial commissioning of each subsystem or system.
- 3. Schedule requirements:
 - a. Schedule durations and float for commissioning activities to ensure Work does not fall behind schedule due to complications or delays during commissioning.
 - b. Time-scaled network diagram detailing the work to take place in the period prior to planned initial commissioning of equipment and systems, and prior to the date of Substantial Completion, together with supporting narrative.
 - c. Provide detailed schedule of commissioning activities including durations and sequencing requirements.
 - 1) Identify the following activities:
 - a) Testing and Training Phase:
 - (1) Source Testing.
 - (2) Owner Training.
 - (3) Installation Testing.
 - (4) Functional Testing.
 - (5) Closeout Documentation.
 - b) Process Start-Up Phase:
 - (1) Process Start-Up.
 - (2) Process Operational Period.
 - (3) Instrumentation and Controls Fine-Tuning.
 - d. Schedule manufacturer's services to avoid conflict with other on-site testing or other manufacturers' on-site services.
 - e. Verify that conditions necessary to allow successful testing have been met before scheduling services.

- D. Subsystem testing plans:
1. Provide separate testing plans for each individual subsystem and system that include the following:
 - a. Approach to testing including procedures, schedule, and recirculation requirements.
 - b. Test objective: Demonstrate subsystem meets the design requirements as specified in the technical sections.
 - c. Test descriptions, forms, temporary systems (pumps, piping, etc.), shutdown requirements for existing systems, test forms, test logs, witness forms, and checklists to be used to control and document the required tests.
 - d. Test forms: Include, but not limited to, the following information:
 - 1) Tag and name of equipment/system to be tested.
 - 2) Test date.
 - 3) Names of persons conducting the test.
 - 4) Names of persons witnessing the test, where applicable.
 - 5) Test data.
 - 6) Applicable project requirements.
 - 7) Check offs for each completed test or test step.
 - 8) Place for signature of person conducting tests and for the witnessing person, as applicable.
 - e. Define start-up sequencing of unit processes:
 - 1) Include testing of alarms, interlocks, permissives, control circuits, capacities, speeds, flows, pressures, vibrations, sound levels, and other parameters.
 - 2) Provide detailed test procedures setting forth step-by-step descriptions of the procedures for systematic testing of equipment/system.
 - 3) Demonstrate proper rotation, alignment, speed, flow, pressure, vibration, sound level, adjustments, and calibration.
 - a) Perform initial checks in the presence of and with the assistance of the manufacturer's representative.
 - 4) Demonstrate proper operation of each control loop function including mechanical, electrical, alarms, local and remote controls, instrumentation, and other equipment/system functions.
 - a) Generate signals with test equipment/system to simulate operating conditions in each control mode.
 2. Engineer or Construction Manager approval of test plan is required prior to performing test.
 - a. Revise and update test plans based on review comments, actual progress, or to accommodate changes in the sequence of activities.
 - b. Submit test reports for each phase of testing for each equipment/system.
 - c. Engineer or Construction Manager approval of preceding test reports is required prior to start of next test.
 - d. Tests will be rescheduled if test plan is not approved by the required deadline.
 - 1) Contractor is responsible for any resulting delay.
 3. Contractor is responsible to reproduce and distribute final test procedures.
 - a. Provide 3 copies for Engineer and 2 copies for Construction Manager.
 4. Tests may commence only after Engineer or Construction Manager has received approved test plan copies.

5. Submittals:
 - a. Submit test plans not less than 30 calendar days prior to planned installation testing of subsystem or system.
 - b. Completed Manufacturer's Certificate of Installation and Functionality Compliance.
 - c. Test procedures and forms: Provide signed-off copy of test forms and test reports upon completion of the test.
 - d. Test reports:
 - 1) Submit preliminary copies within 1 day after testing completion.
 - 2) Submit final copies and report within 14 days after testing completion.

1.06 TESTING AND TRAINING PHASE

- A. Overview of Testing and Training Phase:
 1. General:
 - a. Include specified Source Testing, Owner Training, Installation Testing, Functional Testing, and Closeout Documentation required by this Section and the technical sections.
 2. Contractor responsibilities:
 - a. Furnish labor, power, tools, equipment, instruments, and services required for and incidental to completing commissioning activities in accordance with the approved Commissioning Plans.
 - b. Prior to testing, verify equipment protective devices and safety devices have been installed, calibrated, and tested.
 - c. Acceptable tests: Demonstrate the equipment/system performance meets the requirements stated in the Contract Documents.
 - 1) When the equipment/system fails to meet the specified requirements, perform additional, more detailed, testing to determine the cause, correct, repair, or replace the causative components and repeat the testing that revealed the deficiency.
- B. Source testing:
 1. Also referred to as factory testing or factory acceptance testing (FAT).
 2. Test components, devices, and equipment/system for proper performance at point of manufacture or assembly as specified in the technical sections.
 3. Notify the Engineer and Construction Manager in writing when the equipment/system is ready for source inspection and testing.
 4. Source Test Plan:
 - a. As specified in this Section and other technical sections.
 - b. Source testing requirements as specified in technical sections.
 - 1) Non-witnessed: Provide Manufacturer's Certificate of Source Testing.
 - 2) Witnessed: Unless otherwise specified, one Owner's representative and the Engineer shall be present during testing.
 - 3) Provide Manufacturer's Certificate of Source Testing.
 - c. Prepared by Contractor as a result of discussions and planning emerging from regularly conducted commissioning meetings for source tests as specified in the Contract Documents.
 - d. Provide the following items for each Source Test:
 - 1) Purpose and goals of the test.
 - 2) Identification of each item of equipment/system, including system designation, location, tag number, control loop identifier, etc.

- 3) Description of the pass/fail criteria that will be used.
- 4) Listing of pertinent reference documents (Contract Documents and industry standards or sections applicable to the testing).
- 5) Complete description, including drawings or photographs, of test stands and/or test apparatus.
- 6) Credentials of test personnel.
- 7) Descriptions of test equipment to be used, product information, and all appropriate calibration records for the test equipment.
- 8) Test set-up procedures.
- 9) Detailed step-by-step test procedures.
 - a) The level of detail shall be sufficient for any witness with a rudimentary technical aptitude to be able to follow the steps and develop confidence that the tests were being performed as planned.
 - b) All steps are significant, and all steps shall be included in the procedures.
- 10) Sample data logs and data recording forms.
- 11) Sample computations or analyses with the results in the same format as the final report to demonstrate how data collected will be used to generate final results.
 - a) Complete disclosure of the calculation methodologies.
 - b) Include a sample for each type of computation required for the test and analysis of the results.
- 12) Detailed outline of the Source Test report.
- 13) Sample test reports.
- e. Submit Source Test Plan and forms as specified in the technical sections.
 - 1) Submit a copy of the Source Test Plan at least 21 days before any scheduled test date.
 - 2) Engineer or Construction Manager approval of Source Test Plan required prior to beginning source testing.
 - 3) Schedule the testing after approval of the test procedures submittal.
- f. Indicate the desired dates for source inspection and testing.
 - 1) Notify the Engineer and Construction Manager of the scheduled tests a minimum of 15 days before the date of the test.
5. Test results:
 - a. Prepare and submit test results with collected data attached.
6. Contractor is responsible for the following costs associated with one Owner's representative and Engineer witnessing Source Tests.
 - a. Include costs for at least the following:
 - 1) Transportation (if source testing is located more than 100 miles from the project site):
 - a) Travel on commercial airline to site including air flight costs.
 - 2) Hotel costs at a facility with an American Automobile Association 4 star rating or equivalent for single occupancy room per person per day (if source testing is located more than 100 miles from the project site).
 - 3) On-site time: 1 day at the site, unless specified otherwise.
 - b. If Source Test is not ready when the witnesses arrive or if the Source Test fails, the witnesses will return home with Contractor responsible for costs associated with the trip including costs described above. Contractor is responsible for rescheduling the Source Test and witnesses' costs associated with the second trip including costs described above.

- c. Contractor is responsible for witnesses' costs associated with retests including costs described above.
- 7. Contractor is responsible for providing fuel, chemicals, and other consumables needed for Source Testing.

C. Owner training:

- 1. Training instruction format:
 - a. The training for operations and maintenance personnel shall be provided as one entity.
 - b. Instructors shall apply adult education best practices, emphasizing learner participation and activity.
 - c. Training delivery may include problem solving, question/answer, hands-on instruction, practice, evaluation/feedback tools, and lecture.
 - d. Visual aids and hands-on practice sessions must support training objectives.
 - e. Lecturing should be less than 30 percent of class time.
 - f. Conduct hands-on instruction according to the following descriptions:
 - 1) Present hands-on demonstrations of at least the following tasks:
 - a) Proper start-up, shutdown, and normal and alternative operating strategies.
 - b) Common corrective maintenance repairs for each group.
 - c) Describe recommended procedures to check/test equipment/system following a corrective maintenance repair.
 - 2) Use tools and equipment provided by manufacturer to conduct the demonstrations.
 - a) Submit requests for supplemental assistance and facilities with the Contractor's proposed lesson plans.
 - 3) Contractor remains responsible for equipment disassembly or assembly during hands-on training situations involving equipment disassembly or assembly by Owner's personnel.
 - a) Provide written certification of proper equipment/system operation to Engineer and Construction Manager after completion of hands-on training.
- 2. Class agenda:
 - a. Include the following information in the agenda:
 - 1) Instructor name.
 - 2) Listing of subjects to be discussed.
 - 3) Time estimated for each subject.
 - 4) Allocation of time for Owner staff to ask questions and discuss the subject matter.
 - 5) List of documentation to be used or provided to support training.
 - b. Owner may request that particular subjects be emphasized and the agenda be adjusted to accommodate these requests.
 - c. Distribute copies of the agenda to each student at the beginning of each training class.
- 3. Number of students:
 - a. Estimated maximum class size: 5 persons.
 - 1) Owner will determine the actual number of students.
 - 2) Construction Manager will provide an estimated headcount 1 week prior to the class, so that the instructor can provide the correct number of training aids for students.

4. Instructor qualifications:
 - a. Provide instructors completely knowledgeable in the equipment/system for which they are training.
 - b. Provide instructors experienced in conducting classes.
 - c. Provide instructor's technical preparation and instructional technology skills and experience.
 - d. Sales representatives are not qualified instructors unless they possess the detailed operating and maintenance knowledge required for proper class instruction.
 - e. If, in the opinion of the Owner, an appropriately knowledgeable person did not provide the scheduled training, such training shall be rescheduled and repeated with a suitable instructor.
5. Training aids:
 - a. Instructors are encouraged to use audio-visual devices, P&IDs, models, charts, etc. to increase the transfer of knowledge.
 - b. Instructors shall provide such equipment (televisions, video recorder/player, computer, projectors, screens, easels, etc.), models, charts, etc. for each class.
 - c. Instructor is responsible for confirming with Construction Manager and Owner in advance of each class that the classroom will be appropriate for the types of audiovisual equipment to be employed.
6. Classroom documentation:
 - a. Trainees will keep training materials and documentation after the session.
 - b. Operations and maintenance manuals, as specified in technical sections:
 - 1) Provide a minimum of 2 copies of final Engineer-approved operations and maintenance manuals as specified in Section 01782 - Operation and Maintenance Data for use during the classroom instruction.
 - 2) Owner reserves the right to delay training for a particular equipment item if the operations and maintenance manuals for that equipment are incomplete, inaccurate, or otherwise unsuitable for use by the Owner's staff.
 - 3) No contract extensions or extra costs will be allowed for training delays due to operations and maintenance manual submittal delays.
 - c. Provide supplemental documentation handouts to support instruction.
 - d. Digitally record audio and video of each training session.
 - 1) Include classroom and field instruction with question and answering periods.
 - 2) Construction Manager approval required for producer of video materials from one of the following options:
 - a) Qualified, professional video production company.
 - b) Contractor demonstrates satisfactory skill.
 - 3) Record in digital format and recording shall become property of the Owner.
 - a) Provide audio quality that is not degraded during the recording of the field sessions due to background noise, space, distance or other factors.
 - 4) Video files shall be file format and delivery medium as directed and approved by Owner.
 - 5) Provide 2 complete sets of video materials fully indexed and cataloged with printed labels stating session content and dates recorded.

- 6) The Contractor shall provide a written release from all claims to the recorded training material produced, if required.
- e. Training modules:
 - 1) Provide a training module for each equipment category.
 - 2) Divide each training module's instructional content into discrete lesson plans.
- f. Lesson plans:
 - 1) Provide performance-based learning objectives.
 - 2) State learning objectives in terms of what the trainees will be able to do at the end of the lesson.
 - 3) Define student conditions of performance and criteria for evaluating instructional success.
 - 4) Instruction lesson plan outlines for each trade.
 - a) Provide specific components and procedures.
 - 5) Minimum requirements:
 - a) Hands-on demonstrations planned for the instructions.
 - b) Cross-reference training aids.
 - c) Planned training strategies such as whiteboard work, instructor questions, and discussion points or other planned classroom or field strategies.
 - d) Attach handouts cross-referenced by section or topic in the lesson plan.
 - e) Indicate duration of outlined training segments.
 - 6) Provide maintenance instruction lesson plans including mechanical, HVAC, instrumentation, and electrical aspects:
 - a) Equipment operation:
 - (1) Describe equipment's operating (process) function and system theory.
 - (2) Describe equipment's fundamental operating principles and dynamics.
 - (3) Identify equipment's mechanical, electrical, and electronic components and features.
 - (4) Identify support equipment associated with the operation of subject equipment.
 - (5) Detail the relationship of each piece of equipment or component to the subsystems, systems, and process.
 - (6) Cite hazards associated with the operations, exposure to chemicals associated with the component, or the waste stream handled by the component.
 - (7) Specify appropriate safety precautions, equipment, and procedures to eliminate, reduce, or overcome hazards.
 - b) Detailed component description:
 - (1) Define Preventative Maintenance (PM) inspection procedures required on equipment in operation, spot potential trouble symptoms (anticipate breakdowns), and forecast maintenance requirements (predictive maintenance).
 - (a) Review preventive maintenance frequency and task analysis table.
 - (2) Identify each component function and describe in detail.
 - (3) Where applicable, group relative components into subsystems.

- (4) Identify and describe in detail equipment safety features, permissive and controls interlocks.
 - 7) Provide the following information in equipment troubleshooting lesson plans:
 - a) Define recommended systematic troubleshooting procedures as they relate to specific craft problems.
 - b) Provide component specific troubleshooting checklists as they relate to specific craft problems.
 - 8) Provide the following information in equipment Corrective Maintenance (CM) troubleshooting lesson:
 - a) Describe recommended equipment preparation requirements as they relate to specific craft problems.
 - b) Identify and describe the use of any special tools required for maintenance of the equipment as they relate to specific craft problems.
 - c) Describe component removal/installation and disassembly/assembly procedures for specific craft repairs.
 - d) Perform at least 2 hands-on demonstrations of common corrective maintenance repairs.
 - (1) Additional demonstrations may be required by the Owner.
 - e) Describe recommended measuring instruments and procedures, and provide instruction on interpreting alignment measurements, as appropriate.
- 7. Class logistics:
 - a. Delivery time minimum: 2 hours.
 - b. Delivery time maximum: 4 hours.
 - 1) Longer time requires Construction Manager approval.
 - c. Class agenda:
 - 1) Refreshment break: One 10-minute break.
 - 2) Meal break: One 45-minute break, unless otherwise specified.
 - 3) Schedule refreshment breaks and meal breaks to meet the class needs and Owner work rules.
 - d. Schedule specific sessions:
 - 1) Minimum of 30 days in advance to allow Owner staffing arrangements to take place.
 - 2) At the times requested by the Owner, within the period 7 a.m. to 7 p.m. Monday through Friday.
 - a) Times scheduled will be at Owner's discretion.
 - 3) Owner approval and confirmation required for session schedules.
 - 4) Provide minimum of 1 sessions for each class, coordinated with the Owners' staff availability, unless otherwise noted.
- 8. Distribute Training Evaluation Form following each training session.
 - a. Training Evaluation Form is included in this Section.
 - b. Return completed Training Evaluation Forms to Owner's designated training coordinator immediately after session is completed.
 - c. Revise training sessions judged "Unsatisfactory" by a majority of attendees.
 - 1) Conduct training sessions again until a satisfactory rating is achieved at no additional cost to Owner.

9. Submittals:
 - a. Prior to the training session:
 - 1) Instructor qualifications: Due 30 calendar days prior to initial training session.
 - 2) Training course materials: Due 14 calendar days prior to initial training session.
 - a) Training agenda, lesson plan, presentation, and handouts.
 - b) Other audio-visual aids utilized during each training course.
 - c) Format: 2 electronic copies and 3 hard copies organized in notebooks.
 - b. Post training session:
 - 1) Training course materials: Due 14 calendar days after class completion.
 - a) Video recordings.
 - b) Class attendance sheet.
 - c) Training agenda, final lesson plan, presentation, and handouts.
 - d) Other audio-visual aids utilized during each training course.
 - e) Provide materials for all sessions of the class in a single transmittal.
 - f) Format: 2 electronic copies and 3 hard copies organized in notebooks.

- D. Installation Testing:
 1. Perform subsystem testing according to approved Subsystem Testing Plans.
 2. Initiate the Manufacturer's Certificate of Installation and Functionality Compliance for all equipment.
 - a. Manufacturer's Certificate of Installation and Functionality Compliance form is included in this Section.
 - b. Manufacturer's Certificate of Installation and Functionality Compliance certifies the equipment meets the following requirements:
 - 1) Has been properly installed, adjusted, aligned, and lubricated.
 - 2) Is free of any stresses imposed by connecting piping or anchor bolts.
 - 3) Is able to be operated as necessary for Functional Testing.
 - c. Form shall be submitted after completion of Functional Testing, as specified in this Section.
 3. Coordinate Installation Testing with restrictions and requirements as specified in Section 01140 - Work Restrictions.
 4. Perform coating holiday testing as specified in Section 09960 - High-Performance Coatings.
 5. Perform pressure and leakage testing as specified in individual component Sections and Section 15956 - Piping Systems Testing.
 6. Electrical devices and subsystems Installation Testing: As specified below, in Section 16950 - Field Electrical Acceptance Tests, and the technical sections.
 - a. Perform insulation resistance tests on all wiring except wiring and control wiring inside electrical panels.
 - b. Perform grounding resistance tests on grounding systems.
 - c. Test and set relays and circuit breaker trip units for proper operation.
 - 1) Settings as documented in approved electrical studies performed as specified in Section 16305 - Electrical System Studies.
 - d. Perform direct-current high-potential tests on all cables that will operate at more than 2,000 volts.

7. Instrumentation devices and subsystems Installation Testing: As specified below, in Section 17950 - Testing, Calibration, and Commissioning, and technical sections.
- E. Functional Testing:
1. Perform subsystem testing according to approved Subsystem Testing Plan.
 2. Notify the Construction Manager 5 days prior to when the Work is ready for Functional Testing.
 - a. Perform testing in the presence of the Construction Manager.
 3. Determine Functional Testing durations with Owner's input.
 - a. Durations will vary depending on the availability of water for testing.
 - b. Target minimum Functional Test duration: 8 hours.
 - 1) Identify equipment/system that cannot be tested for a minimum of 8 hours as specified in technical sections.
 4. Perform Functional Testing as specified in technical sections.
 - a. Perform Functional Testing in addition to the other tests specified in the technical sections.
 - b. Perform Functional Testing to demonstrate that the component equipment functions as an entire system in accordance with the design requirements.
 - c. Perform Functional Testing to demonstrate that the unit process has operated in a manner necessary to demonstrate equipment/system functions manually in local, manually in remote (or remote manual), and automatically in remote (in remote auto).
 - d. Perform testing with Contractor-provided water.
 - e. Repair or replace parts that operate improperly and retest.
 - f. Submit testing results as specified in the technical sections to the Owner, Construction Manager, and Engineer for approval of Functional Testing results.
 5. Provide completed Manufacturer's Certificate of Installation and Functionality Compliance forms for all equipment.
 - a. Manufacturer's Certificate of Installation and Functionality Compliance form is included in this Section.
 - b. Manufacturer's Certificate of Installation and Functionality Compliance certifies the equipment/system meets the following requirements:
 - 1) Is suitable for satisfactory full-time operation under full-load conditions.
 - 2) Operates within the allowable limits for vibration and noise.
 - 3) Electrical and instrumentation requirements:
 - a) Electrical equipment, instrumentation, and control panels are properly installed, calibrated, and functioning.
 - b) Electrical Installation Testing is complete, and test results have been approved by the Engineer or Construction Manager.
 - (1) Noted deficiencies have been corrected.
 - (2) Relays, circuit breakers, and other protective devices are set.
 - c) Control logic for start-up, shutdown, sequencing, interlocks, control, and emergency shutdown has been tested and is properly functioning.
 - d) Motor control is calibrated and tested.

F. Closeout documentation:

1. Submittals:

a. Provide records generated during Commissioning Phase of Project.

1) Required documents include but are not limited to:

- a) Training documentation.
- b) Manufacturer's Certificate of Source Testing.
- c) Manufacturer's Certificate of Installation and Functionality Compliance.
- d) Daily logs of equipment/system testing identifying tests conducted and outcome.
- e) Test forms and documentation.
- f) Functional Testing results.
- g) Logs of time spent by manufacturer's representatives performing services on the job site.
- h) Equipment lubrication records.
- i) Electrical phase, voltage, and amperage measurements.
- j) Insulation resistance measurements.
- k) Bearing temperature measurements.

2) Data sheets of control loop testing including testing and calibration of instrumentation devices and setpoints. Format: 2 electronic copies and 3 hard copies organized in notebooks.

3) Due date: Within 14 calendar days of Substantial Completion.

1.07 PROCESS START-UP PHASE

A. Overview of Process Start-Up Phase:

1. Operating the facility to verify performance meets the Contract Document requirements.

B. Process Start-Up:

1. Perform process start-up in the presence of the Construction Manager.

2. Pre-start-up activities:

- a. Commissioning Documentation and Data Review.
- b. Start-Up Go/No-Go Decision Criteria.
- c. Building and Fire Inspection Compliance Check.
- d. Process Start-Up Sequence Review.
 - 1) Submit a Process Start-Up plan for review by Engineer and Construction Manager not less than 30 calendar days prior to planned commencement of process start-up activities.
 - 2) Include the following:
 - a) Pre-start-up activities.
 - b) Process Start-Up.
 - c) Process Operational Period.

e. Description of Temporary Testing Arrangement, if applicable.

f. Final Process Start-Up Forms and Documentations.

g. Final Operational Testing Plan.

3. Control loop tuning.

- a. Perform control loop tuning during system testing with water to the extent possible.

4. Process area start-ups.

- a. Process start-up individual process areas comprised of multiple interdependent systems where possible and beneficial to reduce complexity and risk of complete facility testing.
 - b. Process area test flows may be limited by upstream and downstream process constraints (i.e., tank and basin volumes) and/or localized recirculation capabilities.
- 5. Facility-wide process start-up.
 - a. Upon approved completion of pre-start-up activities, perform entire facility process start-up.
 - 1) Complete control loop tuning during this phase of process start-up.
 - 2) Continue process start-up operations until facility meets or exceeds the Contract requirements.
 - b. Process control systems testing:
 - 1) Test complete system instrumentation, controls and PLC, HMI, and LOI programming for the facility.
 - c. HVAC systems start-up and testing:
 - 1) Test complete HVAC system for the facility.
 - d. Ancillary systems start-up and testing:
 - 1) Test complete security system, phone system, fire alarm system, etc. for the facility.
 - e. Remaining equipment/system tests:
 - 1) Conduct remaining specified equipment/system performance tests that could not be performed during the Testing and Training Phase due to inter-system and/or treatment process dependencies.
- C. Process Operational Period:
 - 1. Prior to beginning the Process Operational Period:
 - a. Correct any outstanding punch list items prior to the Operational Testing.
 - 2. Duration: 7 calendar days.
 - 3. Construction Manager will be present for process operational period unless such presence is expressly waived in writing.
 - 4. Prove facility conformance with Contract Document requirements.
 - 5. Contractor to provide:
 - a. Specified start-up materials and operating supplies.
 - b. Necessary craft of labor assistance, in the event of an emergency equipment failure requiring immediate attention (emergency is defined as a failure of function which precludes the further operation of a critical segment of or the whole of the Work) with a response time of not more than 4 hours from the time of notification.
 - c. Manufacturer's authorized representative to supervise placing equipment/systems in operation and provide guidance during Operational Testing per applicable section.
 - d. Necessary manufacturer's representatives and operating supplies for retesting systems that fail to pass the initial Operational Testing due to deficiencies in products of workmanship at no additional cost to the Owner.
 - e. List of 24-hour "on-call" representative supervisory persons who will monitor the Operational Testing and serve as liaison for the Engineer, Construction Manager, and Owner.
 - 6. Owner will provide:
 - a. Operations personnel for duration of test.

7. Prior to date of Substantial Completion of Installation, the Contractor's CC shall oversee Process Operational Period.
 - a. Owner staff will operate the completed Project construction.
 - b. Entire system shall continuously meet performance requirements and shall operate without fault, failure, or defect for a continuous period.
 - c. Individual equipment/system failures that are corrected within 24 hours and do not prevent the entire project from continuously satisfying the established operational requirements shall not require the consecutive day test to be restarted unless the failure recurs.
 - d. Restart the consecutive test period for any of the following conditions:
 - 1) Any failure of the complete Project construction to meet operational requirements.
 - 2) When malfunctions or deficiencies cause shutdown or partial operation of the facility, or results in failure of the complete Project construction to meet operational requirements.
 - 3) Any individual equipment/system failure that meets any of the following conditions:
 - a) Requires more than 24 hours to correct, unless otherwise specified in Section 17950 - Testing, Calibration, and Commissioning.
 - b) Recurs within the 24-hour correction period requiring further correction.
 - 4) Immediately correct defects in material, workmanship, or equipment/system which became evident during Operational Testing.

1.08 INSTRUMENTATION AND CONTROLS FINE-TUNING:

- A. After the Process Operational Period, test PCIS system for additional 60 days as specified in Section 17950 - Testing, Calibration, and Commissioning to identify issues and make corrections, as needed.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

MANUFACTURER'S CERTIFICATE OF SOURCE TESTING

OWNER _____ EQPT/SYSTEM _____
PROJECT NAME _____ EQPT TAG NO. _____
PROJECT NO. _____ EQPT SERIAL NO. _____
SPECIFICATION NO. _____
SPECIFICATION TITLE _____

Comments: _____

I hereby certify Source Testing has been performed on the above-referenced equipment/system as defined in the Contract Documents, and results conform to the Contract Document requirements. Testing data is attached.

Date of Execution: _____, 20____

Manufacturer: _____

Manufacturer's Authorized Representative Name (*print*): _____

(Authorized Signature)

If applicable, Witness Name (*print*): _____

(Witness Signature)

**MANUFACTURER'S CERTIFICATE OF
INSTALLATION AND FUNCTIONALITY COMPLIANCE**

OWNER _____ EQPT/SYSTEM _____
PROJECT NAME _____ EQPT TAG NO. _____
PROJECT NO. _____ EQPT SERIAL NO. _____
SPECIFICATION NO. _____
SPECIFICATION TITLE _____

I hereby certify that the above-referenced equipment/system has been: (Check Applicable)

- ☐ Installed in accordance with manufacturer's recommendations.
- ☐ Inspected, checked, and adjusted.
- ☐ Serviced with proper initial lubricants.
- ☐ Electrical/instrumentation and mechanical connections meet quality and safety standards.
- ☐ All applicable safety equipment has been properly installed.
- ☐ Functionally tested.
- ☐ System has been performance tested, and meets or exceeds specified performance requirements.

NOTES:

Attach test results with collected data and test report.

Attach written certification report prepared by and signed by the electrical and/or instrumentation subcontractor.

Comments: _____

I, the undersigned manufacturer's representative, hereby certify that I am (i) a duly authorized representative of the manufacturer, (ii) empowered by the manufacturer to inspect, approve, and operate this equipment/system, and (iii) authorized to make recommendations required to ensure that the equipment/system furnished by the manufacturer is complete and operational, except as may be otherwise indicated herein. I further certify that all information contained herein is true and accurate.

Date: _____, 20 ____

Manufacturer: _____

Manufacturer's Authorized Representative Name (*print*): _____

By Manufacturer's Authorized Representative: _____
(Authorized Signature)

TRAINING EVALUATION FORM

DATE: _____ NAME OF REPRESENTATIVE: _____

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-
-

Sessions judged “Unsatisfactory” by a majority of attendees shall be revised and conducted again until a satisfactory rating is achieved.

COMMISSIONING ROLES AND RESPONSIBILITIES MATRIX

NO.	TASK	OWNER	CONTRACTOR	CONSTRUCTION MANAGER
Testing and Training Phase				
Source Testing				
1	Source Testing	Witness	Lead	Witness, Review AD3
Installation Testing				
2	Electrical Conductor Testing	No Action	Lead	Witness
3	Electrical Field Acceptance Tests	No Action	Lead	Witness
4	Instrument Field Calibration	No Action	Lead	Witness
5	Network Installation Testing	Witness	Lead	Witness
6	Loop Testing	Witness	Lead	Witness
7	Pressure Testing	No Action	Lead	Witness
8	Leak Testing	No Action	Lead	Witness
9	Holiday Testing	No Action	Lead	Witness
10	HVAC Testing	No Action	Lead	Witness
11	Motor Electrical Testing	No Action	Lead	Witness
Functional Testing				
12	Network Operational Testing	Witness	Lead	Review
13	Preliminary Run Testing Local/Manual Control	Witness	Lead	Review
14	PCIS Functional Demonstration Testing - Local/Auto Control Testing - Remote/Manual Contact Testing - Alarm Testing - Control Loop Testing	No Action	Lead	Review
15	Subsystem Start-Up and Testing	Witness	Lead	Review
16	Equipment/System Start-Up and Testing	Witness	Lead	Review
17	HVAC Start-Up and Testing	Witness	Lead	Review
18	Corrosion Control Start-Up and Testing	Witness	Lead	Review
19	Wide Area Network Communications Testing	Support	Lead	Witness
20	Manufacturer's Certificate of Installation and Functionality Compliance	No Action	Lead	Witness, Review
Process Start-Up Phase				
Process Start-Up				
23	Commissioning Documentation and Data Review	Review	Support	Lead
24	Start-Up Go/No-Go Decision Criteria	Lead	Support	Review
25	Building and Fire Inspection Compliance Check	No Action	Lead	Witness
26	HVAC Functionality Check	No Action	Lead	Witness

NO.	TASK	OWNER	CONTRACTOR	CONSTRUCTION MANAGER
Testing and Training Phase				
27	Start-Up Sequence Review	Support	Lead	Review
28	Temporary Testing Arrangement Finalization	Support	Lead	Support
29	Start-Up Forms Finalization	Support	Lead	Support
30	Operation Testing Plan Finalization	Review	Support	Lead
31	Test Water Management Plan Finalization	Support	Lead	Review
32	System Testing	Support	Lead	Witness
33	Control Loop Tuning	Support	Lead	Witness
34	Process Area Start-Ups	Support	Lead	Witness
35	Facility-Wide Start-Up	Support	Lead	Witness
36	Process Control Systems Testing	Support	Lead	Witness
38	HVAC Final Testing, Adjust, and Balancing	Witness	Lead	Witness, Review
Process Operational Period				
39	Operational Testing	Support	Lead	Witness, Review
40	Final Testing Reports	Support	Lead	Review
41	Water Quality Testing and Documentation	Support	Lead	Review
Instrumentation and Controls Reliability Phase				
Instrumentation and Controls Reliability Period				
42	As specified in Section 17950 - Testing, Calibration, and Commissioning			
Legend: Lead: Primarily responsible for organization, coordination, and execution of task work product or result. Support: Assist the lead with organization, coordination, and execution of task work product or result. Witness: Observe and document completion of task work product or result. Review: As necessary to accept task work product result. No Action: Limited or no involvement.				

AD3 Addendum No. 3

SECTION 02240

DEWATERING

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Installation and maintenance of dewatering systems.
 - 2. Disposal of water entering excavation or other parts of the work.
- B. Related sections:
 - 1. Section 03300 - Cast-in-Place Concrete.
 - 2. Section 03600 - Grouting.
 - 3. Section 02318 - Trenching

1.02 REFERENCES

- A. National Electrical Manufacturers Association (NEMA):
 - 1. 250 – Enclosures for Electrical Equipment (1000 V Maximum).
- B. The City of Turlock has installed a groundwater monitoring well along the pipeline alignment with a vibrating wire piezometer - see Appendix O in Volume 4 of the Contract Documents.
- C. The City of Modesto monitors groundwater wells in the vicinity of the Project - see Appendix N in Volume 4 of the Contract Documents.
- D. The geotechnical report includes groundwater elevations at the time geotechnical boring were completed - see Section 00800-SC-5.03 for information on how to obtain a PDF copy.
- E. Available information on groundwater quality is included in Appendix P in Volume 4 of the Contract Documents.

1.03 DEFINITIONS

- A. NEMA Type 4X enclosure in accordance with NEMA 250.

1.04 SYSTEM DESCRIPTION

- A. Design requirements:
 - 1. Contractor shall keep excavations reasonably free from groundwater and any other water. Draw down static groundwater level to minimum of 1 foot below anticipated bottom of excavations and trenches before excavation begins.
 - 2. Dewatering design analysis shall include the following:
 - a. Evaluation of anticipated subsurface conditions.
 - b. Required well spacing.
 - c. Diameter of wells.
 - d. Depth to screen, screen height, and mesh size.

- e. Backfill and filter pack.
 - f. Pump size.
 - g. Drawdown duration.
 - h. Drawdown and steady state flow rates.
 - i. Plans for de-silting of groundwater before discharge.
 - j. Expected settlements.
3. Include water drawdown curves in dewatering calculations.
 4. Coordinate dewatering design with excavation and shoring design. Excavation and shoring design shall consider changes in groundwater conditions and associated earth pressures.
 5. Do not place concrete or masonry foundations or concrete slabs in water. Do not allow water to rise over these elements until concrete or mortar has set for at least 24 hours.
 6. Maintain operation of dewatering system until complete structure and/or pipeline -- including walls, slabs, beams, struts, and other structural elements - has been constructed; concrete has attained its specified compressive strength; and backfill has been completed to finished grade.
 7. Provide standby power to ensure continuous dewatering in case of power failure.
- B. Dewatering shored excavations for construction of structures and/or pipelines:
1. Dewatering from within shoring is acceptable if it does not interfere with structure construction.
 - a. Obtain written permission from Engineer before locating wells, well points, or drain lines for dewatering within the limits of a structure's foundation.
 2. Use impermeable shoring system to minimize lowering of groundwater outside shoring at the micro-tunnel shaft locations. The Contractor shall lower the groundwater as required by this specification during the pipeline installation. Impermeable shoring is not required for the pipeline installation. ^{AD2}
 3. Extend impermeable shoring below bottom of excavation sufficient amount to:
 - a. Minimize lowering of groundwater outside shoring.
 - b. Prevent unstable excavation due to piping and heave.
 4. To minimize settlement outside shoring due to dewatering, do not lower groundwater outside shoring more than 1 foot. Provide groundwater recharge if required to maintain this groundwater elevation outside of shoring.
 5. Provide monitoring wells located outside shoring for monitoring groundwater elevation.
- C. Locate dewatering facilities where they will not interfere with utilities and construction work to be performed by others.
- D. Generator Noise: Generators shall not be so loud as to upset residents living near the project. Locate generators at sufficient distances from residents and/or use generators that produce low levels of noise. Generators shall not produce sound with a level more than 85 decibels at the edge of the allowable work area.
- E. Discharge of dewatering water:
1. Discharge of dewatering water shall be to locations shown in the Drawings. Dewatering water shall be discharged to either the City of Modesto Jennings

Treatment Plant or to the identified Private Properties and shall have the following requirements:

- a. City of Modesto Jennings Treatment Plant (Plant):
 - 1) Notify Plant staff a minimum of 2 months prior to planning to discharge to the Plant.
 - 2) There is not a time of year restriction for discharging to the Plant.
 - 3) Prior to discharge, sediment and silt shall be removed from the dewatering water through the use of a settling tank or similar method to achieve water quality with a maximum turbidity of 15 NTUs.
 - 4) Discharge to the Plant shall be to the Irrigation Forebay or to the Plant's irrigation system. Contractor shall connect to the irrigation system through above ground pipeline blowoff structures shown on the Construction Dewatering Drawing.
 - a) Contractor shall notify Construction Manager and City of Modesto a minimum 1 week prior to each connection of the Plant irrigation system and coordinate work with the Construction Manager and City of Modesto.
 - b) The static head of the irrigation pipeline shall be field verified by the Contractor, and is approximately 30 feet. The connection to the irrigation pipeline shall include a backflow preventer to prevent the irrigation system from flowing into the dewatering system.
 - 5) Upon completion of dewatering operations, Contractor shall remove dewatering piping and restore Plant facilities to pre-project conditions.
- b. Private Properties
 - 1) Turlock has reached out to all the property owners along the project alignment and has secured agreements with two private property owners (Silva and Mendes) for disposal of dewatering water to their properties.
 - 2) The terms, conditions, available acreage, seasonal requirements, and payment requirements of dewatering disposal to each private property are different. Each of the private property owner agreements is titled, "Agreement to Take Delivery of Trench Dewatering Water, North Valley Regional Recycled Water Project" and located in Volume 4 of the Contract Documents. Contractor shall comply with all the terms of these agreements.
 - 3) The Contractor, at the Contractor's sole option, shall elect which private properties to use for dewatering water disposal during bidding. The Contractor may elect not to use the private properties for dewatering water disposal.
 - 4) If the Contractor elects to use private properties for groundwater disposal, the Contractor's bid price shall include the total cost of the "Payment Terms" for the private properties.
 - 5) After bidding, the Contractor shall not be permitted to request use of a private property for dewatering water disposal that was not included in the bid price.
 - 6) Regulatory requirements:
 - a) Discharging dewatering water to private properties requires the Contractor to comply with the State Water Resources Control Board Water Quality Order No. 2003-0003-DWQ, Statewide General Waste Discharge Requirements (WDRs) for Discharges

to Land with a Low Threat to Water Quality, included in Volume 4 of the Contract Documents.

- b) This project is considered a small/temporary dewatering project.
- c) Prior to discharging dewatering water to private properties the Contractor shall obtain approval from the Central Valley Regional Water Quality Control Board.
- d) The following a general steps the Contractor shall follow to obtain approval:
- e) Complete and sign Form 200 and a Notice of Intent (Attachment 3 of the General Order). Include a letter with the following information:
 - (1) Project location with APNs or map showing the project location, staging area, and discharge areas
 - (2) Documentation of the property owner's permission to discharge to land, if applicable.
 - (3) Approximate duration of the discharge (a one-time event in number of weeks or months, or if on-going, etc.)
 - (4) Approximate or average volume of water to be discharged per day or for the duration of the project (gpm or gpd)
 - (5) Approximate acreage of discharge and brief description of the discharge area (landscaped, open field, cropped land, etc.), how the discharged water will be used (irrigation, dust control, etc.), and provisions that will be in place to prevent off-site discharge and discharge into surface water bodies.
 - (6) Available information on local groundwater such as approximate depth, flow direction, water quality information, uses, etc
- f) Submit to Scott Armstrong P.G., C.H.G., Senior Engineering Geologist, Central Valley Regional Water Quality Control Board, Waste Discharge to Land Permitting Unit, 11020 Sun Center Drive, Suite 200, Rancho Cordova, California 95670 (Direct: 916-464-4616).
- g) Include the fee (approximately \$3,000) paid by Contractor. Note a similar fee for the second calendar year will likely be required to be paid by the Contractor.
- h) Contractor shall complete a monitoring plan and monitor per Order No. 2003-0003-DWQ.
- i) When discharge is complete, Contractor shall submit a notice of termination of discharge to the Central Valley Regional Water Quality Control Board.
- j) For bid purposes, Contractor shall assume the infiltration rate of dewatering water applied to the properties is 0.13 in/hr, during dry weather conditions.

1.05 SUBMITTALS

A. Dewatering plan:

- 1. Dewatering design analysis and calculations signed by the engineer.
- 2. Required permits.
- 3. Arrangement, location, and depths of dewatering system components including the type of generator and noise produced by the generator.

4. Type and sizes of filters and a description of how sediment and silt shall be removed.
 5. Detailed drawings of the dewatering facility layout (including all dewatering related equipment such as pumps, standby generators, fuel cells, and other equipment) and connections to the Plant and private property discharge locations (if private properties are planned to be used). Drawings shall include connection details for the dewatering discharge location.
 6. Identify proposed alignment, support, and protection for discharge pipe. Identify location of discharge and provide details for that location.
- B. Well construction logs. Include:
1. Descriptions of actual materials encountered, categorized in accordance with Unified Soil Classification System.
 2. Construction details.
 3. Well development procedures and results.
 4. Deviations from original design.
- C. Flowmeter:
1. Product information on flowmeter and chart recorder.
 2. Recent flowmeter calibration documentation.
 3. Chart(s) from flowmeter chart recorder.
- D. Water Quality:
1. If the 42-inch project pipeline as a conveyance facility for dewatering water, submit bi-weekly water quality analysis data confirming the dewatering water meets the water quality requirements.
- E. Qualifications:
1. Dewatering contractor.
 2. Dewatering design engineer.
 3. Testing laboratory.

1.06 QUALITY ASSURANCE

- A. Dewatering plan and dewatering system analysis:
1. Prepared by a qualified Civil Engineer, licensed in the state where the Project is located.
 - a. The dewatering design engineer shall have at least 10 years of experience in designing similar systems.
- B. Dewatering Contractor shall have at least 10 years of experience in installing similar systems.
- C. Testing laboratory shall meet discharge permit testing laboratory qualifications.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Flowmeter and chart recorder: One of the following or equal:
1. Badger Turbo Series Meter with totalizer.

PART 3 EXECUTION

3.01 INSTALLATION

- A. During construction, provide and maintain ample means and devices to promptly remove and properly dispose of water entering excavation or other parts of the work, whether water is surface water or underground water.
- B. Keep excavations reasonably free of water.
- C. Make provisions to maintain continuous dewatering:
 - 1. Provide standby power to maintain dewatering during power outages and interruptions.
 - 2. ~~Provide 24-hour monitoring by personnel skilled in operation and maintenance of the system, and capable of providing or obtaining work required to maintain system operation~~ ^{AD3}
- D. Intercept and divert precipitation and surface water away from excavations. Use dikes, curb walls, ditches, pipes, sumps, or other means acceptable to Engineer.
- E. Disposal of water:
 - 1. Dispose of water from the work in suitable manner without damage to adjacent property.
 - 2. Do not drain water into work built or under construction.
 - 3. Dispose of water in such manner that it will not be a menace to public health or safety.
- F. Wells, well points, and drain lines for dewatering:
 - 1. Provide after receiving Engineer's written acceptance.
 - 2. Fill dewatering wells, pipes, and french drains to be left in place within structure foundation limits with Class "C" concrete as specified in Section 03300 or grout as specified in Section 03600.

3.02 CONSTRUCTION

- A. Prior to release of groundwater to its static level: Confirm that:
 - 1. All groundwater pressure relief devices for structure are fully operational.
 - 2. Construction of structure is complete and concrete has reached its specified compressive strength.
 - 3. Backfill of structure is complete.
- B. Control release of groundwater to its static level to prevent disturbance of natural foundation soils or compacted backfills and fills and to prevent flotation or movement of structures, pipelines, or other facilities.

3.03 FIELD QUALITY CONTROL

- A. Flowmeter and chart recorder:
 - 1. Provide flowmeter and continuous 24-hour chart recorder for recording dewatering flow.
 - 2. Maintain meter recorder and provide continuous reading charts with minimum capacity of 24 hours each.
 - 3. Calibrate flowmeter and recorder device to provide accuracy within 5 percent.

4. Submit written evidence of calibration of meter and recorder signed by a Professional Engineer registered in California.
5. Portable recorder (bench mount), dual scale, and mounted in NEMA Type 4X enclosure with transparent plastic door and latch. Operate unit off 115-volts, 60-Hertz power supply.
6. Submit readings to the Owner on a weekly basis.

END OF SECTION

AD2 Addendum No. 2

AD3 Addendum No. 3

SECTION 02742A

ASPHALTIC CONCRETE PAVING

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Asphalt pavement on prepared subgrade or aggregate base course to lines, grades, and compacted thickness as indicated on the Drawings.
- B. Related sections:
 - 1. Section 02050 - Soils and Aggregates for Earthwork.

1.02 REFERENCES

- A. ASTM International (ASTM):
 - 1. D 1557 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft. lbf/f₄³)(2,700 kN-m/m³).
 - 2. D 1561 - Standard Practice for Preparation of Bituminous Mixture Test Specimens by Means of California Kneading Compactor.
- B. Caltrans Standard Test Methods:
 - 1. Calif Test 202 - Sieve Analysis of Fine and Coarse Aggregates.
 - 2. Calif Test 304 - Preparation of Bituminous Mixtures for Testing.
 - 3. Calif Test 362 - Determining Asphalt Content in Bituminous Mixtures by Vacuum Extraction.
 - 4. Calif Test 375 - Determining the In-Place Density and Relative Compaction of AC Pavement.
 - 5. Calif Test 379 - Determining Asphalt Content in Bituminous Mixtures (Troxler Nuclear Gauge Model 3241).
- C. State of California Department of Transportation Standard Specifications, latest edition (Caltrans Standard Specifications):
 - 1. Section 39 - Hot Mix Asphalt.

1.03 SYSTEM DESCRIPTION

- A. This Work shall consist of furnishing and mixing aggregate and asphalt binder at a central mixing plant, spreading and compaction of the mixture as specified and as indicated on the Drawings.
- B. In general, asphalt concrete and asphalt concrete base shall conform to the requirements of the local agency owning the road. Where not elsewhere required, asphalt concrete and asphalt concrete base shall conform to Section 39 "Hot Mix Asphalt," and all applicable referenced sections of the Caltrans Standard Specifications:
 - 1. Where conflicts exist, this specification shall govern.

1.04 DEFINITIONS

- A. "Asphalt Concrete" as used by Caltrans shall be considered the "Surface Course," or the final lift of the pavement section.
- B. "Asphalt Concrete Base" as used by Caltrans shall be the remaining portion of the asphalt pavement section excluding the final lift.
- C. "Asphalt Pavement" shall be the total pavement section of asphalt including Asphalt Concrete and Asphalt Concrete Base.

1.05 SUBMITTALS

- A. Mix design.
- B. Shop drawings.
- C. Product Data:
 - 1. Asphalt.
 - 2. Asphalt aggregate.
 - 3. Pavement reinforcing fabric.
- D. Quality control submittals:
 - 1. Test results.
 - 2. Certificate of Compliance.
 - 3. Certificate of Competence.
- E. Equipment list.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Asphalt pavement delivery:
 - 1. Transport the mixture from the mixing plant to the point of use in vehicles having tight bodies previously cleaned of all foreign materials.
 - 2. Treat bodies as necessary to prevent material from sticking to the bodies.
 - 3. Cover each load with canvas or other suitable material of sufficient size and thickness to protect the asphalt mixture from the weather.

1.07 PROJECT CONDITIONS

- A. Environmental requirements:
 - 1. Asphalt concrete:
 - a. Place asphalt concrete only when surface is dry, and when atmospheric temperature in the shade is 40 degrees Fahrenheit and rising, or above 50 degrees Fahrenheit if falling.
 - b. Do not place asphalt concrete when weather is foggy or rainy, when base on which material is to be placed is in wet or frozen conditions, or when, in the opinion of the Engineer, weather conditions will prevent proper handling, finishing, or compaction of the mixtures.
 - 2. Prime coat:
 - a. Do not apply prime coat when atmospheric temperature is below 60 degrees Fahrenheit.

- b. Apply prime coat only when base course is dry or contains moisture not in excess of that which will permit uniform distribution and desired penetration.

PART 2 PRODUCTS

2.01 ASPHALT PAVEMENT MATERIALS

- A. Asphalt pavement materials shall comply with the requirements of the local agency that owns the road. Where not elsewhere required, asphalt concrete and asphalt pavement materials shall meet the following requirements:
- B. Asphalts:
 - 1. Asphalt binder: Steam-refined paving asphalt, PG 64-10, conforming to Section 92-1.02C "Grades" of the Caltrans Standard Specifications.
 - 2. Prime coat and tack coat: Grade SC-70, conforming to Section 93 of the Caltrans Standard Specifications.
- C. Asphalt aggregate:
 - 1. Aggregate for asphalt concrete shall conform to Section 02050
 - 2. Aggregate for asphalt concrete base shall conform to Section 02050.
 - 3. The use of reclaimed asphalt pavement (RAP) in asphalt concrete and asphalt concrete base is prohibited.
- D. Asphalt pavement shall be produced in a batch mixing plant, a continuous pugmill mixing plant, or dryer-drum mixing plant:
 - 1. Proportioning shall conform to Section 39-3.03 of the Caltrans Standard Specifications.
 - 2. Mixing shall conform to Section 39-3.04 of the Caltrans Standard Specifications.

2.02 AGGREGATE BASE COURSE

- A. Aggregate base course: As specified in Section 02050.
- B. Aggregate base course shall be placed at the following locations:
 - 1. At all locations indicated on the Drawings.
- C. Compacted thickness of aggregate base course shall be as indicated on the local agency encroachment permit. If not in the local agency permit, thicknesses shall be per the Drawings and specifications.

2.03 EQUIPMENT

- A. Spreading and compacting equipment:
 - 1. Spreading equipment shall conform to Section 39-1.10 and all applicable referenced sections of the Caltrans Standard Specifications:
 - a. Only in areas inaccessible to the machine, by approval of the Engineer, will hand spreading be permitted.
 - 2. Compaction equipment shall conform to Section 39-1.10 and all applicable referenced sections of the Caltrans Standard Specifications.

2.04 SOURCE QUALITY CONTROL

- A. The ~~Construction Manager~~~~Contractor~~ shall perform sampling and tests of materials in accordance with ~~California Test Method Number 304 and~~ California Test Method Number 362 or 379, as applicable. Samples shall be taken from materials as delivered to the site. Construction Manager shall perform a minimum of 1 test per 500 tons placed and a minimum of one test per day.^{AD3}

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verification of conditions: Verify surfaces and site conditions are ready to receive work. If unsatisfactory conditions exist, do not commence installation until such conditions have been corrected. Beginning application means acceptance of existing conditions.

3.02 PREPARATION

- A. Protection:
1. Protect concrete pavements and walks, curbs and bases, and other improvements adjacent to the operations with suitable materials.
 2. Building and other surfaces shall be covered with paper or other protection, when required.
 3. Contractor shall be responsible for any damage caused by Contractor's employees. All damage caused by the Contractor's operations shall be repaired to the satisfaction of the Engineer at no additional cost to Owner.
- B. Subgrade preparation:
1. Immediately prior to applying prime coat or tack coat, or immediately prior to placing the asphalt pavement when prime coat or tack coat is not required, the subgrade to receive asphalt pavement shall conform to the compaction requirement and elevation tolerances specified for the material involved and shall be cleaned to remove any loose or extraneous material.
 2. If the asphalt pavement is to be placed on an existing base or pavement that was not constructed as part of the contract, the Contractor shall clean the surface by sweeping, flushing, or other means to remove all loose particles of paving, all dirt, and all other extraneous material immediately before applying the a prime coat or tack coat.

3.03 PRIME COAT AND TACK COAT

- A. Prime coat:
1. A prime coat of liquid asphalt shall be applied on all surfaces of base course material to be paved.
 2. Prime coat shall be applied at a rate of 0.25 gallons per square yard and shall conform to Section 93-1.03 of the Caltrans Standard Specifications for the distributor application of the grade of liquid asphalt being used.
- B. Tack coat:
1. A tack coat of asphaltic emulsion shall be applied to all vertical surfaces of existing pavement, curbs, gutters, and construction joints in the surfacing

against which additional material is to be placed, or as otherwise specified in this Section.

2. Tack coat shall be applied in one application at a rate of 0.1 gallons per square yard of surface covered.

3.04 ASPHALT PAVEMENT

- A. Placing materials in a windrow, then picking it up and placing it in the asphalt paver with loading equipment, will be permitted provided that:
 1. The asphalt paver is of such design that the material will fall into a hopper that has a movable bottom conveyor to feed and screed.
 2. The loader is constructed and operated so that substantially all of the material deposited into windrows is picked up and deposited into the paving machine.
 3. The windrow is deposited only so far in advance of the paver to provide for continuous operation of the paver and not so far as to allow the temperature of the asphalt pavement in the windrow to fall below 260 degrees Fahrenheit.
- B. Asphalt pavement and aggregate base course shall be spread and compacted in the number of layers and of the thicknesses as required by the local agency or to match the existing thicknesses, whichever is greater..
- C. A layer shall not be placed over another layer which exceeds 3 inches in compacted thickness until the temperature of the layer which exceeds 3 inches in compacted thickness is less than 160 degrees Fahrenheit at mid depth:
 1. If the temperature of any layer drops below 140 degrees Fahrenheit, or if directed by the Engineer, apply tack coat before placing next layer.
- D. Unless otherwise indicated on the Drawings, asphalt mixtures shall not be handled, spread, or windrowed in a manner that will stain the finished surface of any pavement or other improvements.
- E. The completed mixture shall be deposited on the prepared subgrade at a uniform quantity per linear foot, as necessary to provide the required compacted thickness without resorting to spotting, picking up, or otherwise shifting the mixture.
- F. Spreading:
 1. All layers of asphalt pavement shall be spread with an asphalt paver and shall conform to Section 39-1.11 and all applicable referenced sections of the Caltrans Standard Specifications.
 2. At locations where the asphalt pavement is to be placed over areas inaccessible to spreading and rolling equipment, all layers of asphalt pavement shall be distributed directly out of the back of the dump truck and spread by hand:
 - a. Asphalt pavement spread by hand shall be compacted thoroughly to the required lines, grades, and cross-sections by means of pneumatic tampers, or by other methods that will produce the same degree of compaction as pneumatic tampers.
- G. Compaction:
 1. Compaction of asphalt pavement shall conform to Sections 39-1.11, 39-3.03, 39-3.04, and all applicable referenced sections of the Caltrans Standard Specifications.

2. Minimum percent of that obtained in the laboratory in accordance with ASTM Test Method D 1561.
- H. Segregation shall be avoided, and the surfacing shall be free of pockets of coarse or fine material. Asphalt pavement containing hardened lumps shall not be used:
 1. In areas inaccessible to paving and compacting equipment where spreading is done by hand, minimize the amount of segregation.
- I. Location of longitudinal joints in the top layer will be determined by the Engineer and shall not adversely affect the quality of the finished product.
- J. At all locations, or as directed by the Engineer, the asphalt concrete shall be square and at least 1-inch thick when conforming to existing surfacing. Tapering or feathering is not allowed.

3.05 FIELD QUALITY CONTROL

A. Scheduling:

1. Contractor shall coordinate with Construction Manager for scheduling Field Quality Control testing. Contractor shall provide access for the Construction Manager, as needed, to perform inspection and testing. Contractor shall provide Construction Manager a minimum 1 working day advance notice before inspection or testing is needed. ^{AD1}

A.B. The Contractor shall control the quality of Work. The Construction Manager shall provide, and Owner shall pay for and shall provide adequate testing to ensure compliance with these Specifications.:

1. The Construction Manager shall determine The the type and size of the samples shall be suitable to determine conformance with stability, density, thickness, and other specified requirements and Use an approved power saw or core drill for cutting samples. Construction Manager shall Furnish all tools, labor, and materials for cutting samples and performing testing. Contractor shall, and replacing replace the pavement where samples were removed. For bidding purposes, assume Take ^{AD1} a minimum of 1 sample for every 4,000 square feet of asphalt pavement placed.

B.C. All asphalt pavement shall match the grades indicated on the Drawings and shall be completely free from unintended hollows and high spots. Contractor shall perform the following: ^{AD1}

1. After completion of paving work, all paving shall be flooded with water. Any ponding that results in standing water greater than 3/4 inch in depth shall be ringed with chalk. Such hollows shall be corrected by removing and replacing the asphalt concrete. The asphalt concrete patch shall be square and at least 1-inch thick when conforming to existing surfacing. Tapering or feathering is not allowed.

G.D. The Construction Manager shall provide, and Owner shall pay for will hire a third party testing firm to Contractor shall ^{AD1} perform in-place density and compaction tests of the completed pavement in accordance with California Test Method Number 375, to determine compliance with the specified requirements. Submit test results to Engineer for approval. ^{AD1}

~~D.E.~~ Cracks, settling of surface, improper drainage, improper compaction, and sloppy connection to previously laid surfaces will be construed as improper workmanship and will not be accepted.

3.06 MAINTENANCE OF PAVEMENT

- A. Upon completion of final rolling, traffic shall not be permitted on the finished pavement for at least 6 hours, or until the asphalt pavement has cooled sufficiently to withstand traffic without being deformed.

3.07 WORKMANSHIP AND WARRANTY

- A. Contractor shall provide written warranty against defects in materials or workmanship for a period of not less than 1 year upon Completion of Work.

END OF SECTION

^{AD1} Addendum No. 1

^{AD3} Addendum No. 3

Plot Date: 31-MAY-2018 8:45:45 AM

User: svdFW

PlotScale: 2:1

Model: Layout1

ColorTable: gshade.ctb



STANISLAUS COUNTY, CALIFORNIA

CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF

NORTH VALLEY REGIONAL RECYCLED WATER PROGRAM TURLOCK COMPONENT

APRIL 2018

VOLUME 3 OF 4 - DRAWINGS

CITY PROJECT NO. 17-22A

Approved by:

Nathan Bray

Interim Director of Development Services/City Engineer
City of Turlock, California

APPROVED BY CITY ENGINEER: CITY OF MODESTO,
CALIFORNIA FOR PUBLIC IMPROVEMENTS ONLY (SHEETS 7, 9, 32, 33, 36, 37, 40, 43-59, 83, 94-96)

BY:

CITY ENGINEER

DATE:

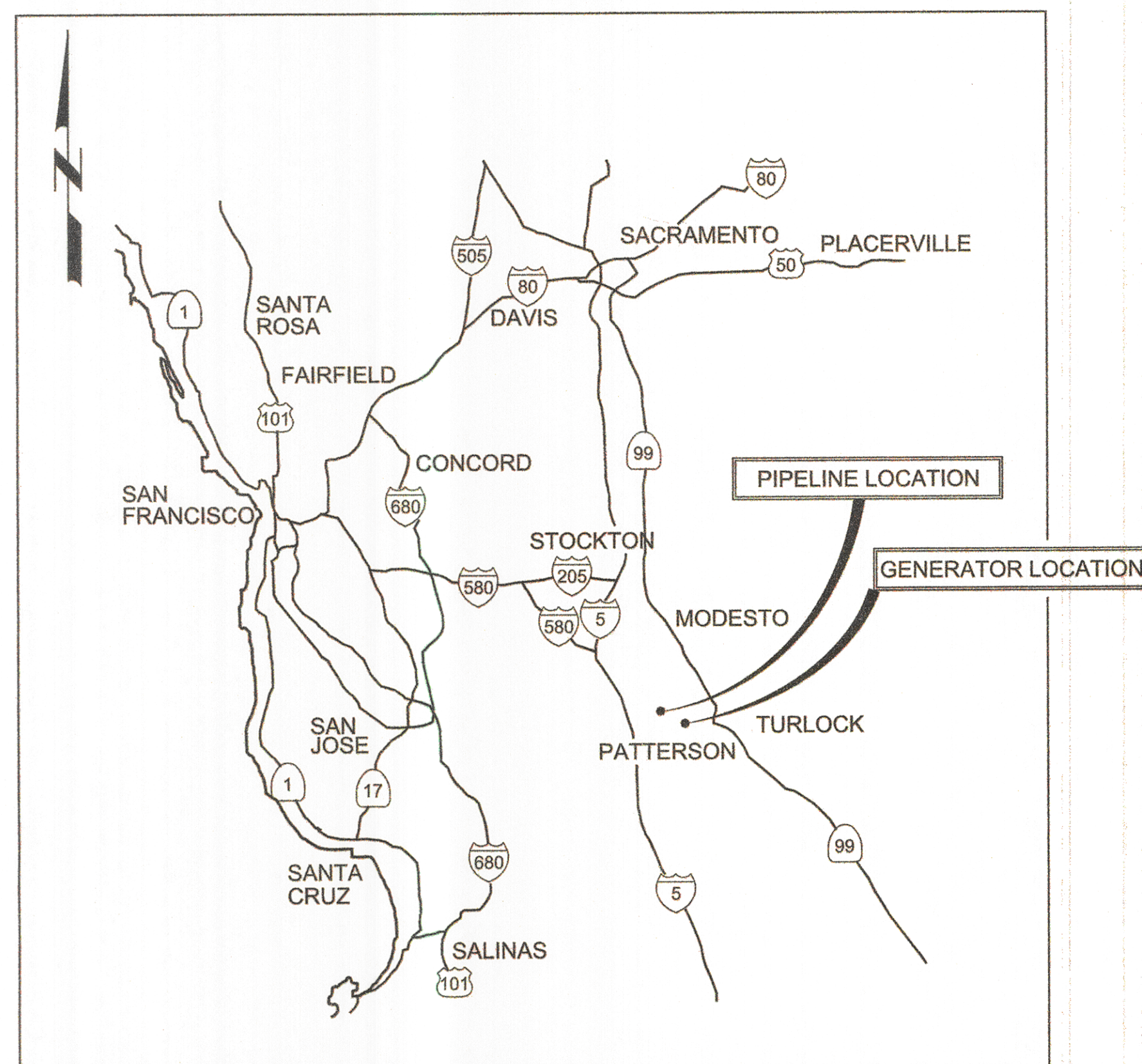
6-7-18

APPROVAL OF THESE PLANS DOES NOT RELEASE THE DEVELOPER FROM RESPONSIBILITY FOR CORRECTION OF MISTAKES, ERRORS OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION THE PUBLIC INTEREST REQUIRES A MODIFICATION OR A DEPARTURE FROM THE CITY SPECIFICATIONS, OR THE APPROVED PLANS, THE CITY SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATION OR A DEPARTURE, AND TO SPECIFY THE MANNER WHICH THE SAME IS MADE.

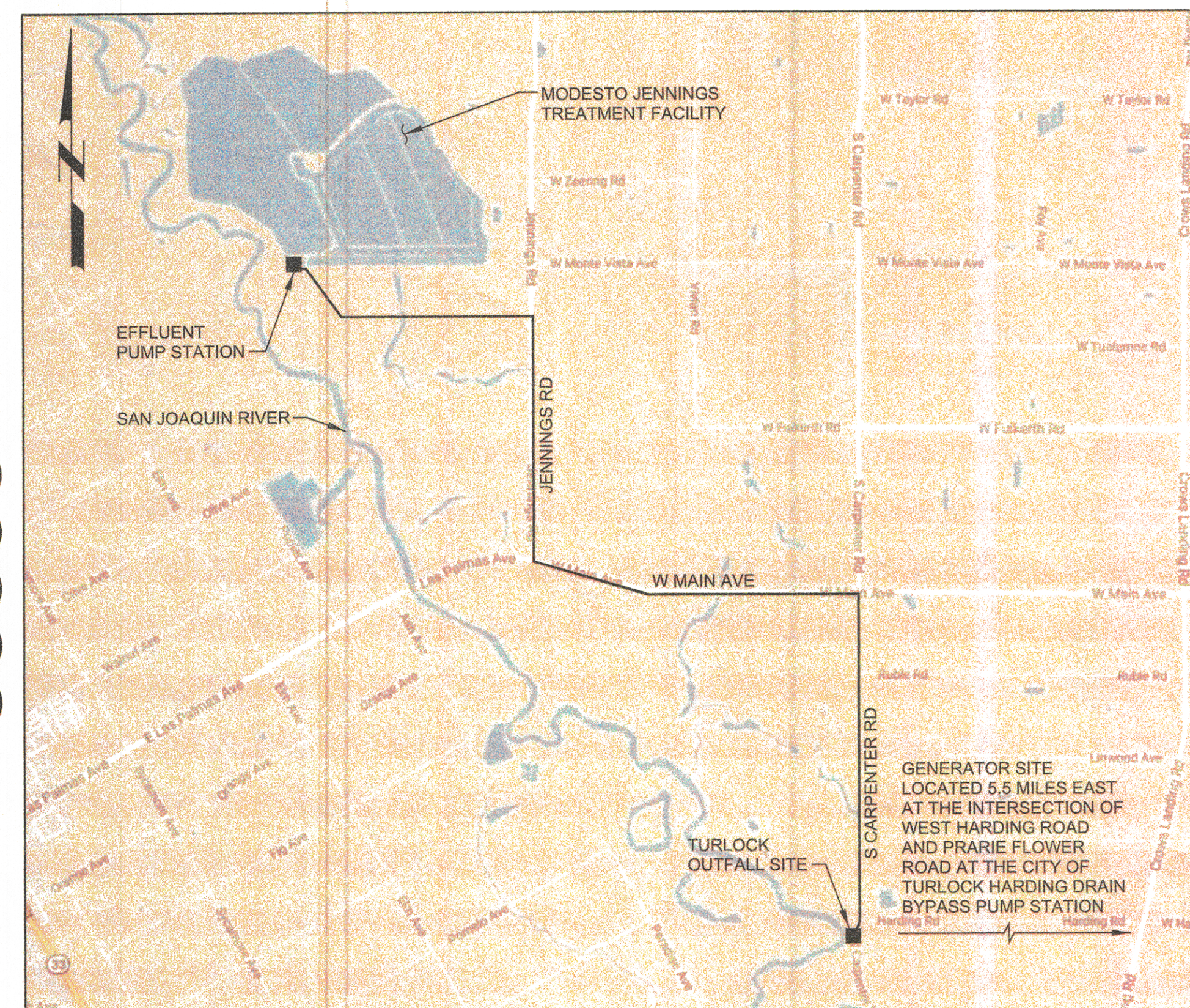
DAVID H. BAINE



carollo®



VICINITY MAP



LOCATION MAP

REV	DATE	BY	DESCRIPTION
1	5-31-2018	JPM	CHANGED PER ADDENDUM NO. 2

JOB NO.
10595A.10
DRAWING NO.
G01
SHEET NO.
1 OF 122

FEDERAL WAGE DETERMINATION

AD3

General Decision Number: CA180029 06/01/2018 CA29

Superseded General Decision Number: CA20170029

State: California

Construction Types: Building, Heavy (Heavy and Dredging) and Highway

Counties: Alameda, Calaveras, Contra Costa, Fresno, Kings, Madera, Mariposa, Merced, Monterey, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Stanislaus and Tuolumne Counties in California.

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

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2018
1	01/12/2018
2	01/19/2018
3	01/26/2018
4	02/09/2018
5	03/02/2018
6	04/06/2018
7	04/13/2018
8	05/04/2018
9	06/01/2018

ASBE0016-004 01/01/2018

AREA 1: CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS & TOULMNE COUNTIES

AREA 2: ALAMEDA, CONTRA COSTA, SAN FRANSICO, SAN MATEO & SANTA CLARA COUNTIES

	Rates	Fringes
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)		
Area 1.....	\$ 28.20	9.34
Area 2.....	\$ 32.98	9.34

ASBE0016-008 01/01/2018

AREA 1: ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN
FRANSICO, SAN MATEO, SANTA CLARA, & SANTA CRUZ

AREA 2: CALAVERAS, COLUSA, FRESNO, KINGS, MADERA, MARIPOSA,
MERCED, SAN JOAQUIN, STANISLAU, & TUOLUMNE

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, Protective Coverings, Coatings, and Finishes to all types of mechanical systems)		
Area 1.....	\$ 35.36	22.98
Area 2.....	\$ 49.46	22.98

BOIL0549-001 10/01/2016

AREA 1: ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO & SANTA
CLARA COUNTIES

AREA 2: REMAINING COUNTIES

	Rates	Fringes
BOILERMAKER		
Area 1.....	\$ 43.28	37.91
Area 2.....	\$ 39.68	35.71

BRCA0003-001 08/01/2017

	Rates	Fringes
MARBLE FINISHER.....	\$ 32.60	15.31

BRCA0003-003 08/01/2017

	Rates	Fringes
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MARBLE MASON.....\$ 44.60 26.83

BRCA0003-005 05/01/2017

	Rates	Fringes
BRICKLAYER		
(1) Fresno, Kings, Madera, Mariposa, Merced....	\$ 38.45	21.22
(7) San Francisco, San Mateo.....	\$ 42.34	25.83
(8) Alameda, Contra Costa, San Benito, Santa Clara.....	\$ 44.16	21.71
(9) Calaveras, San Joaquin, Stanislaus, Toulumne.....	\$ 39.66	20.76
(16) Monterey, Santa Cruz...	\$ 39.51	23.49

BRCA0003-008 09/01/2017

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 35.14	16.87
TERRAZZO WORKER/SETTER.....	\$ 44.11	26.36

BRCA0003-011 04/01/2018

AREA 1: Alameda, Contra Costa, Monterey, San Benito, San
Francisco, San Mateo, Santa Clara, Santa Cruz

AREA 2: Calaveras, San Joaquin, Stanislaus, Tuolumne

AREA 3: Fresno, Kings, Madera, Mariposa, Merced

	Rates	Fringes
TILE FINISHER		
Area 1.....	\$ 28.56	15.87
Area 2.....	\$ 25.60	14.30
Area 3.....	\$ 25.88	15.17
Tile Layer		
Area 1.....	\$ 47.77	18.29
Area 2.....	\$ 42.67	16.81
Area 3.....	\$ 38.15	17.70

CARP0022-001 07/01/2017

San Francisco County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &		

Steel Shoring Erector, Saw		
Filer.....	\$ 46.55	28.71
Journeyman Carpenter.....	\$ 46.40	28.71
Millwright.....	\$ 46.50	30.30

CARP0034-001 07/01/2017

	Rates	Fringes
Diver		
Assistant Tender, ROV		
Tender/Technician.....	\$ 45.65	31.91
Diver standby.....	\$ 50.61	31.91
Diver Tender.....	\$ 49.82	31.91
Diver wet.....	\$ 95.17	31.91
Manifold Operator (mixed		
gas).....	\$ 54.82	31.91
Manifold Operator (Standby) .	\$ 49.82	31.91

DEPTH PAY (Surface Diving):

050 to 100 ft	\$2.00 per foot
101 to 150 ft	\$3.00 per foot
151 to 220 ft	\$4.00 per foot

SATURATION DIVING:

The standby rate shall apply until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. The diver rate shall be paid for all saturation hours.

DIVING IN ENCLOSURES:

Where it is necessary for Divers to enter pipes or tunnels, or other enclosures where there is no vertical ascent, the following premium shall be paid: Distance traveled from entrance 26 feet to 300 feet: \$1.00 per foot. When it is necessary for a diver to enter any pipe, tunnel or other enclosure less than 48" in height, the premium will be \$1.00 per foot.

WORK IN COMBINATION OF CLASSIFICATIONS:

Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

CARP0034-003 07/01/2017

	Rates	Fringes
Piledriver.....	\$ 46.65	31.91

CARP0035-007 07/01/2017

AREA 1: Alameda, Contra Costa, San Francisco, San Mateo, Santa Clara counties

AREA 2: Monterey, San Benito, Santa Cruz Counties

AREA 3: Calaveras, Fresno, Kings, Madera, Mariposa, Merced, San Joaquin, Stanislaus, Tuolumne Counties

	Rates	Fringes
Modular Furniture Installer		
Area 1		
Installer I.....	\$ 25.61	20.42
Installer II.....	\$ 22.18	20.42
Lead Installer.....	\$ 29.06	20.92
Master Installer.....	\$ 33.28	20.92
Area 2		
Installer I.....	\$ 22.96	20.42
Installer II.....	\$ 20.01	20.42
Lead Installer.....	\$ 25.93	20.92
Master Installer.....	\$ 29.56	20.92
Area 3		
Installer I.....	\$ 22.01	20.42
Installer II.....	\$ 19.24	20.42
Lead Installer.....	\$ 24.81	20.92
Master Installer.....	\$ 31.83	20.92

CARP0035-008 08/01/2017

AREA 1: Alameda, Contra Costa, San Francisco, San Mateo, Santa Clara counties

AREA 2: Monterey, San Benito, Santa Cruz Counties

AREA 3: San Joaquin

AREA 4: Calaveras, Fresno, Kings, Madera, Mariposa, Merced, Stanislaus, Tuolumne Counties

	Rates	Fringes
Drywall Installers/Lathers:		
Area 1.....	\$ 46.40	29.15
Area 2.....	\$ 40.52	29.15
Area 3.....	\$ 41.02	29.15
Area 4.....	\$ 39.67	29.15
Drywall Stocker/Scrapper		
Area 1.....	\$ 23.20	16.88
Area 2.....	\$ 20.26	16.88
Area 3.....	\$ 20.51	16.88
Area 4.....	\$ 19.84	16.88

CARP0152-001 07/01/2017

Contra Costa County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer, Shingler, Power Saw		

Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 46.55	28.71
Journeyman Carpenter.....	\$ 46.40	28.71
Millwright.....	\$ 46.50	28.71

CARP0152-002 07/01/2017

San Joaquin County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 40.67	28.71
Journeyman Carpenter.....	\$ 40.52	28.71
Millwright.....	\$ 43.02	30.30

CARP0152-004 07/01/2017

Calaveras, Mariposa, Merced, Stanislaus and Tuolumne Counties

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 39.32	28.71
Journeyman Carpenter.....	\$ 39.17	28.71
Millwright.....	\$ 41.67	30.30

CARP0217-001 07/01/2017

San Mateo County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 46.55	28.71
Journeyman Carpenter.....	\$ 46.40	28.71
Millwright.....	\$ 46.50	30.30

CARP0405-001 07/01/2017

Santa Clara County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 46.55	28.71
Journeyman Carpenter.....	\$ 46.40	28.71
Millwright.....	\$ 46.50	30.30

 CARP0405-002 07/01/2017

San Benito County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 40.58	28.71
Journeyman Carpenter.....	\$ 40.52	28.71
Millwright.....	\$ 43.02	30.30

 CARP0505-001 07/01/2017

Santa Cruz County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 40.67	28.71
Journeyman Carpenter.....	\$ 40.52	28.71
Millwright.....	\$ 43.02	30.30

 CARP0605-001 07/01/2017

Monterey County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &		

Steel Shoring Erector, Saw		
Filer.....	\$ 40.67	28.71
Journeyman Carpenter.....	\$ 40.52	28.71
Millwright.....	\$ 43.02	30.30

CARP0701-001 07/01/2017

Fresno and Madera Counties

	Rates	Fringes
Carpenters		
Bridge Builder/Highway		
Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer,		
Shingler, Power Saw		
Operator, Steel Scaffold &		
Steel Shoring Erector, Saw		
Filer.....	\$ 39.32	28.71
Journeyman Carpenter.....	\$ 39.17	28.71
Millwright.....	\$ 41.67	30.30

CARP0713-001 07/01/2017

Alameda County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway		
Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer,		
Shingler, Power Saw		
Operator, Steel Scaffold &		
Steel Shoring Erector, Saw		
Filer.....	\$ 46.55	28.71
Journeyman Carpenter.....	\$ 46.40	28.71
Millwright.....	\$ 46.50	30.30

CARP1109-001 07/01/2017

Kings County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway		
Carpenter.....	\$ 46.40	28.71
Hardwood Floorlayer,		
Shingler, Power Saw		
Operator, Steel Scaffold &		
Steel Shoring Erector, Saw		
Filer.....	\$ 39.32	28.71
Journeyman Carpenter.....	\$ 39.17	28.71
Millwright.....	\$ 41.67	30.30

ELEC0006-004 12/01/2017

SAN FRANCISCO COUNTY

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 38.52	3%+18.05
Technician.....	\$ 44.30	3%+18.05

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.

ELEC0006-007 06/01/2017

SAN FRANCISCO COUNTY

	Rates	Fringes
ELECTRICIAN.....	\$ 66.00	3%+43.40

ELEC0100-002 03/01/2018

FRESNO, KINGS, AND MADERA COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 37.50	22.18

ELEC0100-005 12/01/2016

FRESNO, KINGS, MADERA

	Rates	Fringes
Communications System		
Installer.....	\$ 30.64	3%+17.86
Technician.....	\$ 34.89	3%+17.86

SCOPE OF WORK

Includes the installation testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes

for the following: TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms, and low voltage master clock systems.

A. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS

Background foreground music, Intercom and telephone interconnect systems, Telephone systems Nurse call systems, Radio page systems, School intercom and sound systems, Burglar alarm systems, Low voltage, master clock systems, Multi-media/multiplex systems, Sound and musical entertainment systems, RF systems, Antennas and Wave Guide,

B. FIRE ALARM SYSTEMS Installation, wire pulling and testing

C. TELEVISION AND VIDEO SYSTEMS Television monitoring and surveillance systems Video security systems, Video entertainment systems, Video educational systems, Microwave transmission systems, CATV and CCTV

D. SECURITY SYSTEMS Perimeter security systems Vibration sensor systems Card access systems Access control systems, Sonar/infrared monitoring equipment

E. COMMUNICATIONS SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO THE ABOVE LISTED SYSTEMS SCADA (Supervisory Control and Data Acquisition) PCM (Pulse Code Modulation) Inventory Control Systems, Digital Data Systems Broadband and Baseband and Carriers Point of Sale Systems, VSAT Data Systems Data Communication Systems RF and Remote Control Systems, Fiber Optic Data Systems

WORK EXCLUDED Raceway systems are not covered (excluding Ladder-Rack for the purpose of the above listed systems). Chases and/or nipples (not to exceed 10 feet) may be installed on open wiring systems. Energy management systems. SCADA (Supervisory Control and Data Acquisition) when not intrinsic to the above listed systems (in the scope). Fire alarm systems when installed in raceways (including wire and cable pulling) shall be performed at the electrician wage rate, when either of the following two (2) conditions apply:

1. The project involves new or major remodel building trades construction.
2. The conductors for the fire alarm system are installed in conduit.

* ELEC0234-001 05/28/2018

MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES

	Rates	Fringes
ELECTRICIAN		
Zone A.....	\$ 44.65	24.44
Zone B.....	\$ 50.77	25.62

Zone A: All of Santa Cruz, Monterey, and San Benito Counties within 25 air miles of Highway 1 and Dolan Road in Moss Landing, and an area extending 5 miles east and west of Highway 101 South to the San Luis Obispo County Line

Zone B: Any area outside of Zone A

ELEC0234-003 12/01/2017

MONTEREY, SAN BENITO, AND SANTA CRUZ COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 38.02	18.69
Technician.....	\$ 43.72	18.86

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.

ELEC0302-001 01/01/2018

CONTRA COSTA COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 56.17	26.59
ELECTRICIAN.....	\$ 49.76	26.59

ELEC0302-003 12/01/2017

CONTRA COSTA COUNTY

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 37.22	18.66
Technician.....	\$ 42.80	18.83

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.

ELEC0332-001 05/29/2017

SANTA CLARA COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 69.60	34.318
ELECTRICIAN.....	\$ 60.52	34.046

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.

ELEC0332-003 12/01/2017

SANTA CLARA COUNTY

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 38.02	18.69
Technician.....	\$ 43.72	18.86

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.

ELEC0595-001 06/01/2017

ALAMEDA COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 59.91	3%+34.10
ELECTRICIAN.....	\$ 53.25	3%+34.10

ELEC0595-002 06/01/2017

CALAVERAS AND SAN JOAQUIN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 41.40	3%+28.83
ELECTRICIAN		
(1) Tunnel work.....	\$ 38.86	3%+28.83
(2) All other work.....	\$ 36.00	3%+28.83

ELEC0595-006 12/01/2017

ALAMEDA COUNTY

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 38.02	3%+17.96
Technician.....	\$ 43.72	3%+17.96

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.

ELEC0595-008 12/01/2017

CALAVERAS AND SAN JOAQUIN COUNTIES

	Rates	Fringes
Communications System		
Installer.....	\$ 38.02	3%+17.96
Technician.....	\$ 43.72	3%+17.96

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.

ELEC0617-001 06/01/2017

SAN MATEO COUNTY

	Rates	Fringes
ELECTRICIAN.....	\$ 57.00	33.59

ELEC0617-003 12/01/2017

SAN MATEO COUNTY

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 38.02	19.27
Technician.....	\$ 43.72	19.27

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.

* ELEC0684-001 06/01/2018

MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 38.00	3%+21.33
CABLE SPLICER = 110% of Journeyman Electrician		

ELEC0684-004 12/01/2016

MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES

	Rates	Fringes
Communications System		
Installer.....	\$ 30.64	3%+17.86
Technician.....	\$ 34.89	3%+17.86

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.

ELEC1245-001 06/01/2017

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..\$ 55.49		16.62
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....\$ 44.32		3%+17.65
(3) Groundman.....\$ 33.89		3%+17.65
(4) Powderman.....\$ 49.55		3%+17.65

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day,
Independence Day, Labor Day, Veterans Day, Thanksgiving Day
and day after Thanksgiving, Christmas Day

ELEV0008-001 01/01/2018

	Rates	Fringes
ELEVATOR MECHANIC.....\$ 65.45		32.645

FOOTNOTE:

PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

ENGI0003-001 06/26/2017

"AREA 1" WAGE RATES ARE LISTED BELOW

"AREA 2" RECEIVES AN ADDITIONAL \$2.00 PER HOUR ABOVE AREA 1 RATES.

SEE AREA DEFINITIONS BELOW

	Rates	Fringes
OPERATOR: Power Equipment (AREA 1:)		
GROUP 1.....\$ 44.67		30.39
GROUP 2.....\$ 43.14		30.39
GROUP 3.....\$ 41.66		30.39

GROUP 4.....	\$ 40.28	30.39
GROUP 5.....	\$ 39.01	30.39
GROUP 6.....	\$ 37.69	30.39
GROUP 7.....	\$ 36.55	30.39
GROUP 8.....	\$ 35.41	30.39
GROUP 8-A.....	\$ 33.20	30.39
OPERATOR: Power Equipment		
(Cranes and Attachments -		
AREA 1:)		
GROUP 1		
Cranes.....	\$ 46.30	30.39
Oiler.....	\$ 36.63	30.39
Truck crane oiler.....	\$ 39.20	30.39
GROUP 2		
Cranes.....	\$ 43.79	30.39
Oiler.....	\$ 36.36	30.39
Truck crane oiler.....	\$ 38.98	30.39
GROUP 3		
Cranes.....	\$ 42.05	30.39
Hydraulic.....	\$ 38.32	30.39
Oiler.....	\$ 36.14	30.39
Truck Crane Oiler.....	\$ 38.71	30.39
GROUP 4		
Cranes.....	\$ 39.01	30.39
OPERATOR: Power Equipment		
(Piledriving - AREA 1:)		
GROUP 1		
Lifting devices.....	\$ 45.89	30.39
Oiler.....	\$ 36.63	30.39
Truck crane oiler.....	\$ 39.20	30.39
GROUP 2		
Lifting devices.....	\$ 44.07	30.39
Oiler.....	\$ 36.36	30.39
Truck Crane Oiler.....	\$ 38.98	30.39
GROUP 3		
Lifting devices.....	\$ 42.39	30.39
Oiler.....	\$ 36.14	30.39
Truck Crane Oiler.....	\$ 38.71	30.39
GROUP 4		
Lifting devices.....	\$ 40.62	30.39
GROUP 5		
Lifting devices.....	\$ 39.32	30.39
GROUP 6		
Lifting devices.....	\$ 37.98	30.39
OPERATOR: Power Equipment		
(Steel Erection - AREA 1:)		
GROUP 1		
Cranes.....	\$ 46.30	30.39
Oiler.....	\$ 36.63	30.39
Truck Crane Oiler.....	\$ 39.20	30.39
GROUP 2		
Cranes.....	\$ 43.79	30.39
Oiler.....	\$ 36.36	30.39
Truck Crane Oiler.....	\$ 38.98	30.39
GROUP 3		
Cranes.....	\$ 42.05	30.39
Hydraulic.....	\$ 38.32	30.39
Oiler.....	\$ 36.14	30.39
Truck Crane Oiler.....	\$ 38.71	30.39
GROUP 4		

Cranes.....	\$ 39.01	30.39
GROUP 5		
Cranes.....	\$ 35.13	30.39
OPERATOR: Power Equipment		
(Tunnel and Underground Work		
- AREA 1:)		
SHAFTS, STOPES, RAISES:		
GROUP 1.....	\$ 40.77	30.39
GROUP 1-A.....	\$ 43.24	30.39
GROUP 2.....	\$ 39.51	30.39
GROUP 3.....	\$ 38.18	30.39
GROUP 4.....	\$ 37.04	30.39
GROUP 5.....	\$ 35.90	30.39
UNDERGROUND:		
GROUP 1.....	\$ 40.67	30.39
GROUP 1-A.....	\$ 43.14	30.39
GROUP 2.....	\$ 39.41	30.39
GROUP 3.....	\$ 38.08	30.39
GROUP 4.....	\$ 36.94	30.39
GROUP 5.....	\$ 35.80	30.39

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.; Licensed construction work boat operator, on site; 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 assistant to engineer or mechanic; Crane mounted continuous flight tie back machine, tonnage to apply; 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; Long reach excavator; 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 (GPS, 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); Spider plow and spider puller; Tubex pile rig; Unlicensed construction work boat operator, on site; 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; Tractor; Self-loading chipper; Concrete barrier moving machine

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - 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); Signaller; 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 (includes vacuum sweeper); 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); Tub grinder wood chipper

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.; Cranes 45 tons and under; Self-propelled boom-type lifting device 45 tons and under;

GROUP 4: Boom Truck or dual purpose A-frame truck, non-rotating over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons;

PILEDRIERS

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; Fundex F-12 hydraulic pile rig

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

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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TUNNEL AND UNDERGROUND WORK

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

GROUP 1: Heading shield operator; Heavy-duty repairperson; 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; Motorman

GROUP 5: Bit Sharpener; Brakeman; Combination mixer and

compressor (gunite); Compressor operator; Oiler; Pump
operator; Slusher operator

AREA DESCRIPTIONS:

POWER EQUIPMENT OPERATORS, CRANES AND ATTACHMENTS, TUNNEL AND
UNDERGROUND [These areas do not apply to Piledrivers and
Steel Erectors]

AREA 1: ALAMEDA, CALAVERAS, CONTRA COSTA, FRESNO, KINGS,
MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN
FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ,
STANISLAUS, TUOLUMNE

AREA 2 -NOTED BELOW

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS
NOTED BELOW:

CALAVERAS COUNTY:

Area 1: Remainder

Area 2: Eastern Part

FRESNO COUNTY:

Area 1: Remainder

Area 2: Eastern Part

MADERA COUNTY:

Area 1: Remainder

Area 2: Eastern Part

MARIPOSA COUNTY:

Area 1: Remainder

Area 2: Eastern Part

MONTEREY COUNTY:

Area 1: Remainder

Area 2: Southwestern part

TUOLUMNE COUNTY:

Area 1: Remainder

Area 2: Eastern Part

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Rates

Fringes

Dredging: (DREDGING:

CLAMSHELL & DIPPER DREDGING;

HYDRAULIC SUCTION DREDGING:)

AREA 1:

(1) Leverman.....	\$ 44.77	31.25
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(2) Dredge Dozer; Heavy duty repairman.....	\$ 39.81	31.25
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(3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator.....	\$ 38.69	31.25
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(4) Bargeman; Deckhand; Fireman; Leveehand; Oiler..\$ 35.39	31.25
AREA 2:	
(1) Leverman.....\$ 46.77	31.25
(2) Dredge Dozer; Heavy duty repairman.....\$ 41.81	31.25
(3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator.....\$ 40.69	31.25
(4) Bargeman; Deckhand; Fireman; Leveehand; Oiler..\$ 37.39	31.25

AREA DESCRIPTIONS

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED,
NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN,
SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS,
SUTTER, YOLO, AND YUBA COUNTIES

AREA 2: MODOC COUNTY

THE REMAINGING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2
AS NOTED BELOW:

ALPINE COUNTY:

Area 1: Northernmost part
Area 2: Remainder

CALAVERAS COUNTY:

Area 1: Remainder
Area 2: Eastern part

COLUSA COUNTY:

Area 1: Eastern part
Area 2: Remainder

ELDORADO COUNTY:

Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY:

Area 1: Remainder
Area 2: Eastern part

GLENN COUNTY:

Area 1: Eastern part
Area 2: Remainder

LASSEN COUNTY:

Area 1: Western part along the Southern portion of border
with Shasta County
Area 2: Remainder

MADERA COUNTY:

Area 1: Except Eastern part
Area 2: Eastern part

MARIPOSA COUNTY

Area 1: Except Eastern part
Area 2: Eastern part

MONTERREY COUNTY

Area 1: Except Southwestern part
Area 2: Southwestern part

NEVADA COUNTY:

Area 1: All but the Northern portion along the border of
Sierra County
Area 2: Remainder

PLACER COUNTY:

Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:

Area 1: Western portion
Area 2: Remainder

SHASTA COUNTY:

Area 1: All but the Northeastern corner
Area 2: Remainder

SIERRA COUNTY:

Area 1: Western part
Area 2: Remainder

SISKIYOU COUNTY:

Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:

Area 1: All but the Northwestern corner
Area 2: Remainder

TEHAMA COUNTY:

Area 1: All but the Western border with Mendocino & Trinity
Counties
Area 2: Remainder

TRINITY COUNTY:

Area 1: East Central part and the Northeastern border with
Shasta County
Area 2: Remainder

TUOLUMNE COUNTY:

Area 1: Except Eastern part
Area 2: Eastern part

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SEE AREA DESCRIPTIONS BELOW

Rates

Fringes

OPERATOR: Power Equipment
(LANDSCAPE WORK ONLY)
GROUP 1

AREA 1.....	\$ 34.05	28.73
AREA 2.....	\$ 36.05	28.73
GROUP 2		
AREA 1.....	\$ 30.45	28.73
AREA 2.....	\$ 32.45	28.73
GROUP 3		
AREA 1.....	\$ 25.84	28.73
AREA 2.....	\$ 27.84	28.73

GROUP DESCRIPTIONS:

GROUP 1: Landscape Finish Grade Operator: All finish grade work regardless of equipment used, and all equipment with a rating more than 65 HP.

GROUP 2: Landscape Operator up to 65 HP: All equipment with a manufacturer's rating of 65 HP or less except equipment covered by Group 1 or Group 3. The following equipment shall be included except when used for finish work as long as manufacturer's rating is 65 HP or less: A-Frame and Winch Truck, Backhoe, Forklift, Hydragraphic Seeder Machine, Roller, Rubber-Tired and Track Earthmoving Equipment, Skiploader, Straw Blowers, and Trencher 31 HP up to 65 HP.

GROUP 3: Landscae Utility Operator: Small Rubber-Tired Tractor, Trencher Under 31 HP.

AREA DESCRIPTIONS:

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, 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: Northernmost part

Area 2: Remainder

CALAVERAS COUNTY:

Area 1: Except Eastern part

Area 2: Eastern part

COLUSA COUNTY:

Area 1: Eastern part

Area 2: Remainder

DEL NORTE COUNTY:

Area 1: Extreme Southwestern corner

Area 2: Remainder

ELDORADO COUNTY:

Area 1: North Central part

Area 2: Remainder

FRESNO COUNTY

Area 1: Except Eastern part

Area 2: Eastern part

GLENN COUNTY:

Area 1: Eastern part

Area 2: Remainder

HUMBOLDT COUNTY:

Area 1: Except Eastern and Southwestern parts

Area 2: Remainder

LAKE COUNTY:

Area 1: Southern part

Area 2: Remainder

LASSEN COUNTY:

Area 1: Western part along the Southern portion of border
with Shasta County

Area 2: Remainder

MADERA COUNTY

Area 1: Remainder

Area 2: Eastern part

MARIPOSA COUNTY

Area 1: Remainder

Area 2: Eastern part

MENDOCINO COUNTY:

Area 1: Central and Southeastern parts

Area 2: Remainder

MONTEREY COUNTY

Area 1: Remainder

Area 2: Southwestern part

NEVADA COUNTY:

Area 1: All but the Northern portion along the border of
Sierra County

Area 2: Remainder

PLACER COUNTY:

Area 1: All but the Central portion

Area 2: Remainder

PLUMAS COUNTY:

Area 1: Western portion

Area 2: Remainder

SHASTA COUNTY:

Area 1: All but the Northeastern corner

Area 2: Remainder

SIERRA COUNTY:

Area 1: Western part

Area 2: Remainder

SISKIYOU COUNTY:

Area 1: Central part

Area 2: Remainder

SONOMA COUNTY:

Area 1: All but the Northwestern corner

Area 2: Reaminder

TEHAMA COUNTY:

Area 1: All but the Western border with mendocino & Trinity
Counties

Area 2: Remainder

TRINITY COUNTY:

Area 1: East Central part and the Northeaster border with
Shasta County

Area 2: Remainder

TULARE COUNTY;

Area 1: Remainder

Area 2: Eastern part

TUOLUMNE COUNTY:

Area 1: Remainder

Area 2: Eastern Part

IRON0377-002 01/01/2017

	Rates	Fringes
Ironworkers:		
Fence Erector.....	\$ 29.58	21.59
Ornamental, Reinforcing and Structural.....	\$ 36.00	30.15

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval
Reserve-Niland,
Edwards AFB, Fort Irwin Military Station, Fort Irwin Training
Center-Goldstone, San Clemente Island, San Nicholas Island,
Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine
Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base,
Naval Post Graduate School - Monterey, Yermo Marine Corps
Logistics Center

\$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0067-002 12/01/2017

AREA "A" - ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND

SANTA CLARA COUNTIES

AREA "B" - CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA,
MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, STANISLAUS, AND
TUOLUMNE COUNTIES

	Rates	Fringes
Asbestos Removal Laborer		
All Counties.....	\$ 23.00	11.31
LABORER (Lead Removal)		
Area A.....	\$ 30.70	22.17
Area B.....	\$ 29.70	22.17

ASBESTOS REMOVAL-SCOPE OF WORK: 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.

LABO0073-002 06/26/2017

CALAVERAS AND SAN JOAQUIN COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person..	\$ 28.54	22.17
Traffic Control Person I....	\$ 28.84	22.17
Traffic Control Person II...	\$ 26.34	22.17

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LABO0073-003 07/01/2017

SAN JOAQUIN COUNTY

	Rates	Fringes
LABORER		
Mason Tender-Brick.....	\$ 30.45	21.04

LABO0073-005 06/26/2017

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....	\$ 36.60	21.72

GROUP 2.....	\$ 36.37	21.72
GROUP 3.....	\$ 36.12	21.72
GROUP 4.....	\$ 35.67	21.72
GROUP 5.....	\$ 35.13	21.72
Shotcrete Specialist.....	\$ 37.12	21.72

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Guniting and shotcrete nozzlemen

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

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickers - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Guniting & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LABO0073-007 06/27/2017

CALAVERAS AND SAN JOAQUIN COUNTIES

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT LABORERS)		
Construction Specialist		
Group.....	\$ 29.49	22.38
GROUP 1.....	\$ 28.79	22.38
GROUP 1-a.....	\$ 29.01	22.38
GROUP 1-c.....	\$ 28.84	22.38
GROUP 1-e.....	\$ 29.34	22.38
GROUP 1-f.....	\$ 29.37	22.38
GROUP 2.....	\$ 28.64	22.38
GROUP 3.....	\$ 28.54	22.38
GROUP 4.....	\$ 22.23	22.38
See groups 1-b and 1-d under laborer classifications.		
LABORER (GARDENERS, HORTICULTURAL & LANDSCAPE LABORERS)		
(1) New Construction.....	\$ 28.54	22.31
(2) Establishment Warranty Period.....	\$ 22.23	22.31
LABORER (GUNITING)		
GROUP 1.....	\$ 29.75	22.31

GROUP 2.....	\$ 29.25	22.31
GROUP 3.....	\$ 28.66	22.31
GROUP 4.....	\$ 28.54	22.31
LABORER (WRECKING)		
GROUP 1.....	\$ 28.79	22.31
GROUP 2.....	\$ 28.64	22.31

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; 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 including Leade Abatement; 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 buckler; 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 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: Final 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 Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Guniting 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)

LABO0073-009 07/01/2017

CALAVERAS AND SAN JOAQUIN COUNTIES

	Rates	Fringes
LABORER (Plaster Tender).....	\$ 31.02	22.52

Work on a swing stage scaffold: \$1.00 per hour additional.

LABO0261-003 06/26/2017

SAN FRANCISCO AND SAN MATEO COUNTIES

	Rates	Fringes
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LABORER (TRAFFIC CONTROL/LANE
CLOSURE)

Escort Driver, Flag Person..\$	29.54	22.17
Traffic Control Person I....\$	29.84	22.17
Traffic Control Person II...\$	27.34	22.17

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LABO0261-005 06/26/2017

SAN FRANCISCO AND SAN MATEO COUNTIES

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....\$	36.60	21.72
GROUP 2.....\$	36.37	21.72
GROUP 3.....\$	36.12	21.72
GROUP 4.....\$	35.67	21.72
GROUP 5.....\$	35.13	21.72
Shotcrete Specialist.....\$	37.12	21.72

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Guniting and shotcrete nozzlemen

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

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Guniting & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LABO0261-009 06/26/2017

SAN FRANCISCO, AND SAN MATEO COUNTIES

Rates	Fringes
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LABORER (CONSTRUCTION CRAFT

LABORERS - AREA A:)

Construction Specialist

Group.....	\$ 30.49	22.38
GROUP 1.....	\$ 29.79	22.38
GROUP 1-a.....	\$ 30.01	22.38
GROUP 1-c.....	\$ 29.84	22.38
GROUP 1-e.....	\$ 30.34	22.38
GROUP 1-f.....	\$ 30.37	22.38
GROUP 2.....	\$ 29.64	22.38
GROUP 3.....	\$ 29.54	22.38
GROUP 4.....	\$ 23.23	22.38

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

LABORER (GARDENERS,

HORTICULTURAL & LANDSCAPE

LABORERS - AREA A:)

(1) New Construction.....	\$ 29.54	22.31
(2) Establishment Warranty		
Period.....	\$ 23.23	22.31

LABORER (WRECKING - AREA A:)

GROUP 1.....	\$ 29.79	22.31
GROUP 2.....	\$ 29.64	22.31

Laborers: (GUNITE - AREA A:)

GROUP 1.....	\$ 30.75	22.31
GROUP 2.....	\$ 30.25	22.31
GROUP 3.....	\$ 29.66	22.31
GROUP 4.....	\$ 29.54	22.31

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; 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

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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 toppler; 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. 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: Final 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 Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Guniting 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)

LABO0261-011 05/01/2017

SAN FRANCISCO AND SAN MATEO COUNTIES:

	Rates	Fringes
MASON TENDER, BRICK.....	\$ 33.18	21.49

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.

LABO0261-014 07/01/2017

SAN FRANCISCO AND SAN MATEO COUNTIES:

	Rates	Fringes
PLASTER TENDER.....	\$ 34.70	23.11

Work on a swing stage scaffold: \$1.00 per hour additional.

LABO0270-003 06/26/2017

AREA A: SANTA CLARA

AREA B: MONTEREY, SAN BENITO AND SANTA CRUZ COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person		
Area A.....	\$ 29.54	22.17
Area B.....	\$ 28.54	22.17
Traffic Control Person I		
Area A.....	\$ 29.84	22.17
Area B.....	\$ 28.84	22.17
Traffic Control Person II		
Area A.....	\$ 27.34	22.17
Area B.....	\$ 26.34	22.17

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LABO0270-004 06/26/2017

MONTEREY, SAN BENITO, SANTA CLARA, AND SANTA CRUZ COUNTIES

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....	\$ 36.60	24.83
GROUP 2.....	\$ 36.37	24.83
GROUP 3.....	\$ 36.12	24.83
GROUP 4.....	\$ 35.67	24.83
GROUP 5.....	\$ 35.13	24.83
Shotcrete Specialist.....	\$ 37.12	24.83

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Guniting and shotcrete nozzlemen

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

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Guniting & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LABO0270-005 07/01/2017

MONTEREY AND SAN BENITO COUNTIES

	Rates	Fringes
LABORER		
Mason Tender-Brick.....	\$ 30.45	21.04

LABO0270-007 06/27/2017

MONTEREY, SAN BENITO, AND SANTA CRUZ, COUNTIES

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT LABORERS - AREA B)		
Construction Specialist		
Group.....	\$ 29.49	22.38
GROUP 1.....	\$ 28.79	22.38

GROUP 1-a.....	\$ 29.01	22.38
GROUP 1-c.....	\$ 28.84	22.38
GROUP 1-e.....	\$ 29.34	22.38
GROUP 1-f.....	\$ 29.37	22.38
GROUP 2.....	\$ 28.64	22.38
GROUP 3.....	\$ 28.54	22.38
GROUP 4.....	\$ 22.23	22.38

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

LABORER (GARDENERS,
HORTICULTURAL & LANDSCAPE
LABORERS - AREA B)

(1) New Construction.....	\$ 28.54	22.31
(2) Establishment Warranty Period.....	\$ 22.23	22.31

LABORER (GUNITE - AREA B)

GROUP 1.....	\$ 29.75	22.31
GROUP 2.....	\$ 29.25	22.31
GROUP 3.....	\$ 28.66	22.31
GROUP 4.....	\$ 28.54	22.31

LABORER (WRECKING - AREA B)

GROUP 1.....	\$ 28.79	22.31
GROUP 2.....	\$ 28.64	22.31

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; 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 including Leade Abatement; 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 buckler; 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 toppler; 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. 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: Final 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 Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Guniting 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)

LABO0270-010 06/26/2017

SANTA CLARA COUNTY

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT LABORERS - AREA A:)		
Construction Specialist		
Group.....	\$ 30.49	22.38
GROUP 1.....	\$ 29.79	22.38
GROUP 1-a.....	\$ 30.01	22.38
GROUP 1-c.....	\$ 29.84	22.38
GROUP 1-e.....	\$ 30.34	22.38
GROUP 1-f.....	\$ 30.37	22.38
GROUP 2.....	\$ 29.64	22.38
GROUP 3.....	\$ 29.54	22.38
GROUP 4.....	\$ 23.23	22.38
See groups 1-b and 1-d under laborer classifications.		
LABORER (GARDENERS, HORTICULTURAL & LANDSCAPE LABORERS - AREA A:)		
(1) New Construction.....	\$ 29.54	22.31
(2) Establishment Warranty		
Period.....	\$ 23.23	22.31
LABORER (GUNITE - AREA A:)		
GROUP 1.....	\$ 30.75	22.31
GROUP 2.....	\$ 30.25	22.31
GROUP 3.....	\$ 29.66	22.31
GROUP 4.....	\$ 29.54	22.31
LABORER (WRECKING - AREA A:)		
GROUP 1.....	\$ 29.79	22.31
GROUP 2.....	\$ 29.64	22.31

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; 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 including Leade Abatement; 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 buckler; 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 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: Final 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 Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Guniting 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)

LABO0270-011 07/01/2017

MONTEREY, SAN BENITO, SANTA CRUZ, SANTA CLARA COUNTIES

	Rates	Fringes
LABORER (Plaster Tender).....	\$ 34.70	21.22

Work on a swing stage scaffold: \$1.00 per hour additional.

LABO0294-001 07/01/2017

FRESNO, KINGS AND MADERA COUNTIES

	Rates	Fringes
LABORER (Brick)		
Mason Tender-Brick.....	\$ 30.45	21.04

LABO0294-002 06/26/2017

FRESNO, KINGS, AND MADERA COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person..	\$ 28.54	22.17
Traffic Control Person I....	\$ 28.84	22.17
Traffic Control Person II...	\$ 26.34	22.17

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LABO0294-005 06/26/2017

FRESNO, KINGS, AND MADERA COUNTIES

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....	\$ 36.60	24.83
GROUP 2.....	\$ 36.37	24.83
GROUP 3.....	\$ 36.12	24.83

GROUP 4.....	\$ 35.67	24.83
GROUP 5.....	\$ 35.13	24.83
Shotcrete Specialist.....	\$ 37.12	24.83

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Guniting and shotcrete nozzlemen

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

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickers - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Guniting & shotcrete gunner & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LABO0294-008 06/30/2017

FRESNO, KINGS, AND MADERA COUNTIES

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT LABORERS - AREA B:)		
Construction Specialist		
Group.....	\$ 29.49	22.38
GROUP 1.....	\$ 28.79	22.38
GROUP 1-a.....	\$ 29.01	22.38
GROUP 1-c.....	\$ 28.84	22.38
GROUP 1-e.....	\$ 29.34	22.38
GROUP 1-f.....	\$ 29.37	22.38
GROUP 2.....	\$ 28.64	22.38
GROUP 3.....	\$ 28.54	22.38
GROUP 4.....	\$ 22.23	22.38
See groups 1-b and 1-d under laborer classifications.		
LABORER (GARDENERS, HORTICULTURAL & LANDSCAPE LABORERS - AREA B:)		
(1) New Construction.....	\$ 28.54	22.31
(2) Establishment Warranty Period.....	\$ 22.23	22.31
LABORER (GUNITING - AREA B:)		
GROUP 1.....	\$ 29.75	22.31
GROUP 2.....	\$ 29.25	22.31
GROUP 3.....	\$ 28.66	22.31

GROUP 4.....	\$ 28.54	22.31
LABORER (WRECKING - AREA B:)		
GROUP 1.....	\$ 28.79	22.31
GROUP 2.....	\$ 28.64	22.31

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; 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 including Leade Abatement; 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 buckler; 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 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: Final 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 Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Guniting 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)

LABO0294-010 07/01/2017

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE

	Rates	Fringes
Plasterer tender.....	\$ 31.02	22.52
Work on a swing stage scaffold: \$1.00 per hour additional.		

LABO0294-011 07/01/2017

FRESNO, KINGS, AND MADERA COUNTIES

	Rates	Fringes
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LABORER (Plaster Tender).....\$ 31.02 22.52

Work on a swing stage scaffold: \$1.00 per hour additional.

LABO0304-002 06/26/2017

ALAMEDA COUNTY

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person..\$ 29.54		22.17
Traffic Control Person I....\$ 29.84		22.17
Traffic Control Person II...\$ 27.34		22.17

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LABO0304-003 06/26/2017

ALAMEDA COUNTY

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....\$ 36.60		24.83
GROUP 2.....\$ 36.37		24.83
GROUP 3.....\$ 36.12		24.83
GROUP 4.....\$ 35.67		24.83
GROUP 5.....\$ 35.13		24.83
Shotcrete Specialist.....\$ 37.12		24.83

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Guniting and shotcrete nozzlemen

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

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Guniting & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and

spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LABO0304-004 06/27/2017

ALAMEDA COUNTY

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT		
LABORERS - AREA A:)		
Construction Specialist		
Group.....	\$ 30.49	22.38
GROUP 1.....	\$ 29.79	22.38
GROUP 1-a.....	\$ 30.01	22.38
GROUP 1-c.....	\$ 29.84	22.38
GROUP 1-e.....	\$ 30.34	22.38
GROUP 1-f.....	\$ 30.37	22.38
GROUP 2.....	\$ 29.64	22.38
GROUP 3.....	\$ 29.54	22.38
GROUP 4.....	\$ 23.23	22.38
See groups 1-b and 1-d under laborer classifications.		
LABORER (GARDENERS,		
HORTICULTURAL & LANDSCAPE		
LABORERS - AREA A:)		
(1) New Construction.....	\$ 29.54	22.31
(2) Establishment Warranty		
Period.....	\$ 23.23	22.31
LABORER (GUNITE - AREA A:)		
GROUP 1.....	\$ 30.75	22.31
GROUP 2.....	\$ 30.25	22.31
GROUP 3.....	\$ 29.66	22.31
GROUP 4.....	\$ 29.54	22.31
LABORER (WRECKING - AREA A:)		
GROUP 1.....	\$ 29.79	22.31
GROUP 2.....	\$ 29.64	22.31

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; 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 including Lead Abatement; 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 buckler; 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 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: Final 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 Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunitite 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)

LABO0304-005 05/01/2017

ALAMEDA COUNTY

	Rates	Fringes
Brick Tender.....	\$ 33.18	21.49

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.

LABO0304-008 07/01/2017

ALAMEDA AND CONTRA COSTA COUNTIES:

	Rates	Fringes
Plasterer tender.....	\$ 34.70	23.11

Work on a swing stage scaffold: \$1.00 per hour additional.

LABO0324-002 06/26/2017

CONTRA COSTA COUNTY

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person..	\$ 29.54	22.17
Traffic Control Person I....	\$ 29.84	22.17
Traffic Control Person II...	\$ 27.34	22.17

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LABO0324-006 06/26/2017

CONTRA COSTA COUNTY

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....	\$ 36.60	21.72
GROUP 2.....	\$ 36.37	21.72
GROUP 3.....	\$ 36.12	21.72
GROUP 4.....	\$ 35.67	21.72
GROUP 5.....	\$ 35.13	21.72
Shotcrete Specialist.....	\$ 37.12	21.72

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Guniting and shotcrete nozzlemen

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

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Guniting & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LABO0324-012 06/27/2017

CONTRA COSTA COUNTY

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT LABORERS - AREA A:)		
Construction Specialist		
Group.....	\$ 30.49	22.38
GROUP 1.....	\$ 29.79	22.38
GROUP 1-a.....	\$ 30.01	22.38
GROUP 1-c.....	\$ 29.84	22.38
GROUP 1-e.....	\$ 30.34	22.38
GROUP 1-f.....	\$ 30.37	22.38
GROUP 1-g.....	\$ 29.99	22.38
GROUP 2.....	\$ 29.64	22.38
GROUP 3.....	\$ 29.54	22.38
GROUP 4.....	\$ 23.23	22.38
See groups 1-b and 1-d under laborer classifications.		

LABORER (GARDENERS,
HORTICULURAL & LANDSCAPE
LABORERS - AREA A:)

(1) New Construction.....	\$ 29.54	22.31
(2) Establishment Warranty Period.....	\$ 23.23	22.31

LABORER (GUNITE - AREA A:)

GROUP 1.....	\$ 30.75	22.31
GROUP 2.....	\$ 30.25	22.31
GROUP 3.....	\$ 29.66	22.31
GROUP 4.....	\$ 29.54	22.31

LABORER (WRECKING - AREA A:)

GROUP 1.....	\$ 29.79	22.31
GROUP 2.....	\$ 29.64	22.31

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; 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 including Leade Abatement; 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 buckler; 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 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 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: Final 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 Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Guniting 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 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

LABO0324-014 05/01/2017

CONTRA COSTA COUNTY:

	Rates	Fringes
Brick Tender.....	\$ 33.18	21.49

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.

LABO0324-018 07/01/2017

ALAMEDA AND CONTRA COSTA COUNTIES:

	Rates	Fringes
Plasterer tender.....	\$ 34.70	23.11

Work on a swing stage scaffold: \$1.00 per hour additional.

LABO1130-002 06/26/2017

MARIPOSA, MERCED, STANISLAUS, AND TUOLUMNE COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person..	\$ 28.54	22.17
Traffic Control Person I....	\$ 28.84	22.17
Traffic Control Person II...	\$ 26.34	22.17

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LABO1130-003 06/26/2017

MARIPOSA, MERCED, STANISLAUS, AND TUOLUMNE COUNTIES

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....	\$ 36.60	24.83
GROUP 2.....	\$ 36.37	24.83
GROUP 3.....	\$ 36.12	24.83

GROUP 4.....	\$ 35.67	24.83
GROUP 5.....	\$ 35.13	24.83
Shotcrete Specialist.....	\$ 37.12	24.83

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Guniting and shotcrete nozzlemen

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

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickers - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Guniting & shotcrete gunner & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LAB01130-005 07/01/2017

MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES

	Rates	Fringes
LABORER		
Mason Tender-Brick.....	\$ 30.45	21.04

LAB01130-007 06/26/2017

MARIPOSA, MERCED, STANISLAUS, AND TUOLUMNE , COUNTIES

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT		
LABORERS - AREA B:)		
Construction Specialist		
Group.....	\$ 29.49	22.38
GROUP 1.....	\$ 28.79	22.38
GROUP 1-a.....	\$ 29.01	22.38
GROUP 1-c.....	\$ 28.84	22.38
GROUP 1-e.....	\$ 29.34	22.38
GROUP 1-f.....	\$ 29.37	22.38
GROUP 2.....	\$ 28.64	22.38
GROUP 3.....	\$ 28.54	22.38
GROUP 4.....	\$ 22.23	22.38

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

LABORER (GARDENERS,

HORTICULTURAL & LANDSCAPE

LABORERS - AREA B:)

(1) New Construction.....\$ 28.54	22.31
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(2) Establishment Warranty	
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Period.....\$ 22.23	22.31
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LABORER (GUNITE - AREA B:)

GROUP 1.....\$ 29.75	22.31
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GROUP 2.....\$ 29.25	22.31
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GROUP 3.....\$ 28.66	22.31
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GROUP 4.....\$ 28.54	22.31
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LABORER (WRECKING - AREA B:)

GROUP 1.....\$ 28.79	22.31
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GROUP 2.....\$ 28.64	22.31
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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; 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 including Leade Abatement; 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 buckler; 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 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: Final 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 Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Guniting 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)

LAB01130-008 07/01/2017

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE

	Rates	Fringes
Plasterer tender.....	\$ 31.02	22.52

Work on a swing stage scaffold: \$1.00 per hour additional.

LABO1130-009 07/01/2017

MARIPOSA, MERCED, STANISLAUS, AND TUOLUMNE COUNTIES

	Rates	Fringes
LABORER (Plaster Tender).....	\$ 31.02	22.52

Work on a swing stage scaffold: \$1.00 per hour additional.

PAIN0016-001 01/01/2018

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

	Rates	Fringes
Painters:.....	\$ 40.62	23.83

PREMIUMS:

EXOTIC MATERIALS - \$0.75 additional per hour.

SPRAY WORK: - \$0.50 additional per hour.

INDUSTRIAL PAINTING - \$0.25 additional per hour

[Work on industrial buildings used for the manufacture and processing of goods for sale or service; steel construction (bridges), stacks, towers, tanks, and similar structures]

HIGH WORK:

over 50 feet - \$2.00 per hour additional

100 to 180 feet - \$4.00 per hour additional

Over 180 feet - \$6.00 per hour additional

PAIN0016-003 01/01/2018

AREA 1: ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO & SANTA CLARA COUNTIES

AREA 2: CALAVERAS, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS & TUOLUMNE COUNTIES

	Rates	Fringes
Drywall Finisher/Taper		
AREA 1.....	\$ 45.16	26.74
AREA 2.....	\$ 41.03	25.34

PAIN0016-012 01/01/2018

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

	Rates	Fringes
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SOFT FLOOR LAYER.....	\$ 48.00	26.03
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PAIN0016-015 01/01/2018

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 32.91	19.26

FOOTNOTES:

SPRAY/SANDBLAST: \$0.50 additional per hour.

EXOTIC MATERIALS: \$1.00 additional per hour.

HIGH TIME: Over 50 ft above ground or water level \$2.00 additional per hour. 100 to 180 ft above ground or water level \$4.00 additional per hour. Over 180 ft above ground or water level \$6.00 additional per hour.

PAIN0016-022 01/01/2018

SAN FRANCISCO COUNTY

	Rates	Fringes
PAINTER.....	\$ 44.24	23.83

PAIN0169-001 01/01/2018

FRESNO, KINGS, MADERA, MARIPOSA AND MERCED COUNTIES:

	Rates	Fringes
GLAZIER.....	\$ 35.00	26.26

PAIN0169-005 01/01/2018

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

	Rates	Fringes
GLAZIER.....	\$ 46.13	28.04

PAIN0294-004 01/01/2018

FRESNO, KINGS AND MADERA COUNTIES

	Rates	Fringes
PAINTER		
Brush, Roller.....	\$ 29.78	18.11
Drywall Finisher/Taper.....	\$ 34.87	23.68

FOOTNOTE:

Spray Painters & Paperhangers recive \$1.00 additional per hour. Painters doing Drywall Patching receive \$1.25 additional per hour. Lead Abaters & Sandblasters receive \$1.50 additional per hour. High Time - over 30 feet (does not include work from a lift) \$0.75 per hour additional.

PAIN0294-005 01/01/2018

FRESNO, KINGS & MADERA

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 31.49	20.48

PAIN0767-001 01/01/2018

CALAVERAS, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
GLAZIER.....	\$ 34.57	28.25

PAID HOLIDAYS: New Year's Day, Martin Luther King, Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day.

Employee required to wear a body harness shall receive \$1.50 per hour above the basic hourly rate at any elevation.

PAIN1176-001 01/01/2017

HIGHWAY IMPROVEMENT

	Rates	Fringes
Parking Lot Striping/Highway Marking:		
GROUP 1.....	\$ 34.41	16.31
GROUP 2.....	\$ 29.25	16.31
GROUP 3.....	\$ 29.59	16.31

CLASSIFICATIONS

GROUP 1: Striper: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape, traffic stripes and markings

GROUP 2: Gamecourt & Playground Installer

GROUP 3: Protective Coating, Pavement Sealing

PAIN1237-003 01/01/2018

CALAVERAS; SAN JOAQUIN COUNTIES; STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 34.81	21.51

PLAS0066-002 07/01/2017		

ALAMEDA, CONTRA COSTA, SAN MATEO AND SAN FRANCISCO COUNTIES:

	Rates	Fringes
PLASTERER.....	\$ 40.51	27.13

PLAS0300-001 07/01/2014		

	Rates	Fringes
PLASTERER		
AREA 188: Fresno.....	\$ 29.44	22.26
AREA 224: San Benito, Santa Clara, Santa Cruz.....	\$ 31.59	22.26
AREA 295: Calaveras & San Joaquin Couonties.....	\$ 31.41	22.26
AREA 337: Monterey County..	\$ 30.52	22.26
AREA 429: Mariposa, Merced, Stanislaus, Tuolumne Counties.....	\$ 31.41	22.26

PLAS0300-005 07/01/2017		

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 39.20	19.71

PLUM0038-001 07/01/2017		

SAN FRANCISCO COUNTY

	Rates	Fringes
PLUMBER (Plumber, Steamfitter, Refrigeration Fitter).....	\$ 70.00	43.24

PLUM0038-005 07/01/2017		

SAN FRANCISCO COUNTY

	Rates	Fringes
Landscape/Irrigation Fitter (Underground/Utility Fitter).....	\$ 59.50	38.24

PLUM0062-001 01/01/2018		

MONTEREY AND SANTA CRUZ COUNTIES

	Rates	Fringes
PLUMBER & STEAMFITTER.....	\$ 42.30	31.69

PLUM0159-001 07/01/2017

CONTRA COSTA COUNTY

	Rates	Fringes
Plumber and steamfitter		
(1) Refrigeration.....	\$ 56.92	35.94
(2) All other work.....	\$ 55.92	34.44

PLUM0246-001 01/01/2018

FRESNO, KINGS & MADERA COUNTIES

	Rates	Fringes
PLUMBER & STEAMFITTER.....	\$ 39.40	30.89

PLUM0246-004 01/01/2017

FRESNO, MERCED & SAN JOAQUIN COUNIES

	Rates	Fringes
PLUMBER (PIPE TRADESMAN).....	\$ 13.00	10.74

PIPE TRADESMAN 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; Flagman

PLUM0342-001 07/01/2017

ALAMEDA & CONTRA COSTA COUNTIES

	Rates	Fringes
PIPEFITTER		
CONTRA COSTA COUNTY.....	\$ 58.10	42.45

PLUMBER, PIPEFITTER,
STEAMFITTER

ALAMEDA COUNTY.....	\$ 58.10	42.45
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PLUM0355-004 07/01/2017

ALAMEDA, CALAVERAS, CONTRA COSTA, FRESNO, KINGS, MADERA,
MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SAN MATEO,
SANTA CLARA, SANTA CRUZ, STANISLAUS, AND TUOLUMNE COUNTIES:

	Rates	Fringes
Underground Utility Worker		
/Landscape Fitter.....	\$ 26.85	15.05

PLUM0393-001 07/01/2017

SAN BENITO AND SANTA CLARA COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 60.91	39.58

PLUM0442-001 01/01/2018

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE
COUNTIES

	Rates	Fringes
PLUMBER & STEAMFITTER.....	\$ 41.00	29.37

PLUM0467-001 07/01/2017

SAN MATEO COUNTY

	Rates	Fringes
Plumber/Pipefitter/Steamfitter...	\$ 62.70	34.21

ROOF0027-002 01/01/2017

FRESNO, KINGS, AND MADERA COUNTIES

	Rates	Fringes
ROOFER.....	\$ 26.01	14.21

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.

ROOF0040-002 08/01/2017

SAN FRANCISCO & SAN MATEO COUNTIES:

	Rates	Fringes
ROOFER.....	\$ 37.88	18.22

ROOF0081-001 08/01/2017		

ALAMEDA AND CONTRA COSTA COUNTIES:

	Rates	Fringes
Roofer.....	\$ 38.20	16.81

ROOF0081-004 08/01/2017		

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
ROOFER.....	\$ 38.20	16.81

ROOF0095-002 08/01/2017		

MONTEREY, SAN BENITO, SANTA CLARA, AND SANTA CRUZ COUNTIES:

	Rates	Fringes
ROOFER		
Journeyman.....	\$ 41.56	17.47
Kettle person (2 kettles);		
Bitumastic, Enameler, Coal		
Tar, Pitch and Mastic		
worker.....	\$ 42.36	16.42

SFCA0483-001 01/01/2018		

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

	Rates	Fringes
SPRINKLER FITTER (FIRE).....	\$ 61.37	29.12

SFCA0669-011 04/01/2017		

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
SPRINKLER FITTER.....	\$ 37.20	15.84

SHEE0104-001 01/01/2018		

AREA 1: ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO, SANTA

CLARA

AREA 2: MONTEREY & SAN BENITO

AREA 3: SANTA CRUZ

	Rates	Fringes
SHEET METAL WORKER		
AREA 1:		
Mechanical Contracts		
under \$200,000.....	\$ 50.29	37.16
All Other Work.....	\$ 57.09	37.79
AREA 2.....	\$ 46.97	32.08
AREA 3.....	\$ 49.31	29.61

SHEE0104-003 07/01/2017

CALAVERAS AND SAN JOAQUIN COUNTIES:

	Rates	Fringes
SHEET METAL WORKER.....	\$ 39.74	31.50

SHEE0104-005 07/01/2017

MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
SHEET METAL WORKER (Excluding metal deck and siding).....	\$ 37.67	34.10

SHEE0104-007 07/01/2017

FRESNO, KINGS, AND MADERA COUNTIES:

	Rates	Fringes
SHEET METAL WORKER.....	\$ 37.49	34.45

SHEE0104-015 07/01/2017ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN
MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:

	Rates	Fringes
SHEET METAL WORKER (Metal Decking and Siding only).....	\$ 37.53	32.10

SHEE0104-018 07/01/2017CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN
JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
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Sheet metal worker (Metal decking and siding only).....	\$ 37.53	32.10
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TEAM0094-001 07/01/2017

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 30.72	27.47
GROUP 2.....	\$ 31.02	27.47
GROUP 3.....	\$ 31.32	27.47
GROUP 4.....	\$ 31.67	27.47
GROUP 5.....	\$ 32.02	27.47

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.; 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 24 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks under 7500 gals. 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; 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 25 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); Lowbed Heavy Duty Transport up to including 7 axles; 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; Vacuum Trucks 7500 gals and over and truck repairman

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler; Low bed Heavy Duty Transport over 7 axles

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

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 (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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, DC 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, DC 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, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Addendum No. 3

Replace Appendix

AD3

APPENDIX K
STANISLAUS COUNTY DRAFT
ENCROACHMENT PERMIT



ENCROACHMENT/CONSTRUCTION PERMIT

Stanislaus County Department of Public Works
Development Services

1010 10th Street, Suite 4204, Modesto, CA 95354

Phone: (209) 525-4130 Fax: (209) 525-6507

E-mail: pwpermits@stancounty.com

Permit No: ENCR 1 - 2018

Application Date 10/18/2017

Inspection Fee \$33,550.00

Billing Status: ☐ Paid in Full
☒ To Be Billed
☐ Fee Waived

Applicant: City of Turlock

CAMS No:

Purpose: Turlock Component of North Valley Regional Recycled Waterline Program will consist of constructing 7.2 miles of 42-inch diameter pipeline and appurtenances and roadway restoration along the pipeline alignment. The proposed work will begin at the ex. standpipe structure located at Carpenter Rd. and Harding Rd. and then travel along W. Main St., Jennings Rd and ending at the Modesto's Jenning Treatment Plant.

Deposit:

Receipt #:

Liability Insurance? ☐

License No: TBD

Site Description 7.2 miles through public roads along Harding, Carpenter, W Main, S Jennings roadways

APN#:

Status: Pending ☒ Active ☐

Site Address: No address, linear underground project (LUP) City: Turlock State: CA Zip: 95382

Issued ☐ Closed ☐

Mailing Address: 156 S. Broadway Suite 150 City: Turlock State: CA Zip: 95380

Start: 4/1/2018

Telephone: 209-668-5417 Email: sfremming@turlock.ca.us

Anticipated End Date: 4/1/2019

Final Acceptance:

☒ PMA ☐ Annual Blanket Permit ☐ PGE Specific? ☒ TDN Required? ☒ Major Permit ☐ Minor Permit ☐ Minimal Permit

The undersigned is hereby applying for a permit to work in the Public right-of-way at the following locations, subject to the provisions required by Streets and Highways Code 1450-1496 and the Stanislaus County Encroachment Permit Conditions as shown on the back of this permit and made a part of here to. In addition, the applicant will adhere to all general notes and any special conditions as specified.

GENERAL NOTES:

1. Construction shall be done in accordance to County MS4 Phase II Standards and California Storm Water Pollution Prevention Plan (SWPPP) Best Management Practices (BMP).
2. Applicant shall be responsible for maintaining liability insurance in the amount shown above. A liability insurance certificate policy shall be provided prior to any construction activity.
3. All construction traffic control shall conform to the California Manual on Uniform Traffic Control Devices (CAMUTCD) and per-approved detour plan.
4. Road Closures will require approval from County Traffic Division. Any impacts to traffic will require a 48 hour advance notice to the Traffic Engineer.
5. Please see Conditions page which must be attached to the permit at all times.
6. Please call inspector 48 hours in advance of a change of the start date or in advance of beginning work. This permit is valid from 01-01-18 to 01-01-19.
8. When in the vicinity of a railroad, that agency needs to be contacted prior to start of work
9. Pipeline Maintenance Agreements will be required at all road crossings: STA 362+00, STA 319+25, STA 281+50, STA 238+50, STA 173+50
10. Outreach should be made to farmers along the alignment, especially for any pipeline road crossings.
11. A minimum of 4 feet of cover should be maintained from the top of existing grade to the top of the City's pipeline.
12. The asphalt concrete shall conform to the requirements of Stanislaus County Chapter 3.12 for Type A Asphalt Concrete.

ASSIGNED INSPECTOR:

Plans: TC Plans:

Lat: 0 Long: 0 Map

- ☐ Project in NPDES Red Zon
☒ ESCP Required?
☒ Post-Develop. Req?
☒ SWPPP Req?

ESCP Review Date

Post-Dev. Review Date

SWPPP Review Date

Encroachment / Construction Permit Fee Item	Quantity	Fee	Total
Excavation Permit Fee	1	\$40	\$40.00
Excavation Inspection Fee (per 500 ft in unpaved areas)	0	\$190	\$0.00
Excavation Inspection Fee (per 250 ft in paved areas)	152	\$190	\$28,880.00
Encroachment Permit Fee for Driveway Construction	0	\$190	\$0.00
Utility Trench Cuts (\$7.30/sf, for roads with PCI rating > 50)	209088	\$7.30	\$0.00
Construction Permit Fee	0	\$60	\$0.00
Curb Gutter (per 250 LF)	0	\$190	\$0.00
Sidewalk (per 250 LF)	0	\$190	\$0.00
Matching Pavement	0	\$190	\$0.00
Pipeline Maintenance Agreement	5	\$285	\$1,425.00
Plan Review	8	\$95	\$760.00
General Construction Inspection Services	17	\$95	\$1,615.00
Traffic Control Review and Traffic Delay Notification	2	\$190	\$380.00
Road Closure Fee	ADT= 0 No. of Days: 0	\$500	\$0.00
NPDES Permit Review (Risk Level 1 = \$450, Risk Level 2 = \$675, Risk Level 3 = \$855)			\$450.00
Total Encroachment Permit Fee:			\$33,550.00

Project Risk Level:

Risk Level 1

Project Construction Type:

Underground Utility

Inspection Frequency:

Pre-Job, Monthly, Post-Job

Project-Size: 4.80 acres

Disturbed-Area: 4.80 acres

Utility Trench Calcs

Surface Type: AC

Length: 38016 ft

Width: 5.5 ft

Trench Area: 209088 sq-ft

PCI (0-100): 50

I, the undersigned, certify that I have read and understand the entire permit (page 1 and 2) and will abide by the conditions and requirements as set forth.

3/19/2018

Signed By: Stephen Fremming, Assistant Engineer

Permit Issue Date

Approved by County Road Commissioner (CRC): Matt Machado

Permit Issued by: Paul Saini

Page 1

STANISLAUS COUNTY ENCROACHMENT PERMIT CONDITIONS

The undersigned is hereby applying for a permit to work in the Public right-of-way at the site address as shown on this permit, subject to the provisions required by Streets and Highways Code 1450-1496 and the following permit conditions as noted below:

STANISLAUS COUNTY ENCROACHMENT PERMIT CONDITIONS

1. **ACCEPTANCE OF THE PROVISIONS:** It is understood and agreed by the Permittee that all conditions have been read, and understood. The Permittee agrees to comply with all conditions.
2. **KEEP PERMIT ON WORK SITE:** This permit, or a complete copy, shall be kept at the site of the work and upon request must be shown to any County representative or law enforcement officer.
3. **PERMITS FROM OTHER AGENCIES:** Permittee must obtain all other permits required by other public or private agencies or individuals necessary in order to perform the intended work. It shall be the responsibility of the Permittee to notify the utility and cable TV companies prior to starting any construction that may involve their underground or overhead utilities.
4. **INSURANCE:** Owners, developers or contractors must provide certificates of insurance in an amount of at least \$1,000,000 or as determined by the Department.
5. **BONDS:** A cash deposit, performance bond, letter of credit or other approved form of security shall be submitted in an amount equal to 100% of the value of the work performed within the County right of way or easement.
6. **INSPECTION NOTIFICATION:** The Permittee shall notify the Department of Public Works Encroachment Inspector assigned to this project, shown on page 1, a minimum of two (2) working days prior to performance of any work under this permit. Any work performed without inspection or contrary to Stanislaus County Public Works Standard Construction Specifications, Standard Details or approved plans shall be deemed non-complying and will not be accepted by the County.
7. **TRAFFIC CONTROL:** Construction traffic control shall conform to the current edition of the "California Manual on Uniform Traffic Control Devices", as published by the State of California, Department of Transportation.
8. **PERMIT EXPIRATION:** This permit is valid for a period of six months as measured from the construction start date or until liability insurance expires, whichever comes first, unless otherwise specified on Page one under General Notes.
9. **UNDERGROUND SERVICE ALERT:** Permittee must notify Underground Service Alert (USA) at 800-642-2444 or 1-800-227-2600 at least 48 hours in advance of start of work for location of underground utilities.
10. **GUARANTEE:** For a period of one year after acceptance by the Department of Public Works, the Permittee shall guarantee all work performed under this permit. Any failure caused by defective materials or workmanship shall be promptly repaired or replaced at the Permittee's expense. Failure of the Permittee to make such corrections will cause the County to make or have made any necessary repairs at the Permittee's expense.
11. **STORAGE OF MATERIAL:** Excavated material, sand, gravel, or any construction materials and debris shall not be stockpiled in the County right-of-way.
12. **PUBLIC CONVENIENCE:**
 - (a) The Permittee shall conduct his operations as to offer the least obstruction and inconvenience to the public and abutting property owners. The Permittee shall have under construction no greater amount of work than he can properly secure at the end of the workday with due regard to the safety of the public.
 - (b) Unless otherwise provided in the permit, all public traffic shall be permitted to pass through the work with as little inconvenience and delay as possible.
 - (c) The Permittee at his expense shall remove spillage resulting from hauling operations along or across any publicly traveled way immediately.
 - (d) Convenient access to driveways, houses, and buildings along the work shall be maintained and temporary approaches to crossings or intersecting highways shall be provided and kept in good condition. When the abutting property owner's access across the right-of-way line is to be eliminated, or to be replaced under the permit by other access facilities, the existing access shall not be closed until the replacement access facilities are usable.
 - (e) Standard work hours will be 7:00am to 5:00pm, Monday through Friday, Unless pre-approved by County Engineer and listed on page 1 of this permit under General Notes.
 - (f) If ordered by the Inspector, water shall be supplied by the Permittee to alleviate or prevent dust nuisance.
13. **SAFETY:**
 - (a) General - The Permittee shall be solely and completely responsible for the conditions of the job site, including safety of all persons and property during performance of the work. This requirement shall not be limited to normal working hours. Safety provisions shall conform to all applicable Federal, State, and local laws, ordinances, and codes, and to the rules and regulations established by the California Division of Industrial Safety, and to other rules of law applicable to the work.
 - (b) The services of the Inspector in conducting construction review of the Permittee's performance is not intended to include review of the adequacy of the Permittee's work methods, equipment, bracing or scaffolding or safety measures, in, on, or near the construction site, and shall not be construed as supervision of the actual construction nor make the Inspector or the County responsible for providing a safe place for the performance of work by the Permittee, Contractor, subcontractors, or suppliers; or for access, visits, use work, travel or occupancy by any person.
 - (c) The Permittee shall instruct all personnel working in potentially hazardous work areas as to potential dangers and shall provide such necessary safety equipment and instruction as is necessary to prevent injury to personnel and damage to property. Special care shall be exercised relative to electrical work, work involving excavation and in sump pump work.
 - (d) All work and materials shall be in strict accordance with all applicable State, Federal and local laws, rules, regulations, and codes.
 - (e) Nothing in this permit is to be construed to permit work not conforming to governing law.
 - (f) Shoring and Trench Safety Plan - Attention is directed to Section 832 of the Civil Code of the State of California, Section 6705 of the State Labor Code, and the Construction Safety Orders of the State of California Division of Industrial Safety.
14. **PROTECTION OF PERSON AND PROPERTY:**
 - (a) The Permittee shall take whatever precautions are necessary to prevent damage to all existing improvements, including above ground and underground utilities, trees, shrubbery that is not specifically shown to be removed, fences, signs, mailboxes, survey markers and monuments, buildings, structures, the County's property, adjacent property, and any other improvements or facilities within or adjacent to the work. If such improvements or property are injured or damaged by reason of the Permittee's operations, they shall be replaced or restored, at the Permittee's expense, to a condition at least as good as the condition they were in prior to the start of the Permittee's operations.
 - (b) The Permittee shall adopt all practical means to minimize interference to traffic and public inconvenience, discomfort or damage. The Permittee shall protect against injury to any pipes, conduits or other structures crossing the trenching or encountered in the work and shall be responsible for any injury done to such pipes or structures, or damage to property resulting there from. He shall support or replace any such structures without delay.
 - (c) The Permittee shall pay the entire expense of replacing the highway in as good condition as before.
15. **RESPONSIBILITY FOR REPAIR OF FACILITIES:** All public or private facilities, including but not limited to, gravel surfacing at existing canals, structures, telephone cables, roadways, curbs, gutters, parking lots, private drives, levees and embankments for creeks, ponds and reservoirs disturbed during construction of the work shall be repaired and/or replaced by the Permittee to match facilities existing prior to construction. In addition, the Permittee shall be responsible for any settlement damage to such facilities or adjoining areas for a period of one year after acceptance of such
16. **COUNTY'S REPAIR:** In the event the Permittee refuses or neglects to make good any loss or damage for which he is responsible under this permit, the County may itself, or by the employment of others, make good any such loss or damage, and the cost and expense of doing so, including any reasonable engineering, legal and other consultant fees, and any costs of administrative and managerial services, shall be charged to the Permittee.
17. **CONTRACTOR'S LICENSE NOTICE:** Contractors are required by law to be licensed and regulated by the Contractor's State License Board. Any questions concerning a contractor may be referred to the registrar, Contractor's State License Board, 9821 Business Park Dr., Sacramento, California or by visiting www.cslb.ca.gov or by calling 1-800-321-CSLB (2752).
18. **INDEMNITY AND LITIGATION COST:**
 - (a) The Permittee specifically obligates himself and hereby agrees to protect, hold free and harmless, defend and indemnify the County, the Engineer, his consultants, and each of their officers, employees and agents, from any and all liability, penalties, costs, losses, damages, expenses, causes of action, claims or judgments, including attorney's fees, which arise out of or are in any way connected with the Permittee's, his Contractor's, or his subcontractors' or suppliers' performance of work under this permit. To the extent legally permissible, this indemnity and hold harmless agreement by the Permittee shall apply to any acts or omissions, whether active or passive, on the part of the Permittee or his agents, employees and representatives, resulting in liability irrespective of whether or not any acts or omissions of the parties to be indemnified hereunder may also have been a contributing factor to the liability.
 - (b) In any and all claims against the County or the Engineer and his consultants, and each of their officers, employees and agents by any employee of the Permittee, his Contractor, any Subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification of obligation under this Section shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor under Workmen's Compensation status, disability benefit statutes, or other employee benefit statutes.
19. **MONUMENT PRESERVATION PROTECTION:** Contractor is responsible for preservation and/or perpetuation of all existing monuments which control subdivisions, tracts, boundaries, streets, highways, easements, or other right-of-way, easements, or provide survey control which will be disturbed or removed due to contractor's work. Contractor shall provide a minimum of 10 working days notice to project engineer/surveyor prior to disturbance or removal of existing monuments. Project engineer/surveyor shall coordinate with contractor to reset monuments or provide permanent witness monuments and file the required documentation with the County Surveyor pursuant to Business and Professional Code section 8771.

I, the undersigned, certify that I have read and understand the entire permit (page 1 and 2) and will abide by the conditions and requirements as set forth.

Signed By:

Stephen Fremming, Assistant Engineer

Date

3/19/2018

Page 2

Permit To-Do Notes:

Proposed Timeline: Award of the contract in March 2018. Construction of the project would occur from approximately April 2018 thru April 2019.

1. Permit fee = \$40
 2. Excavation = 7.2 miles x 5,280 ft/mile x \$190 per 250 linear foot in paved areas
Excavation Inspection Fee = (38,016 feet / 250 ft) x \$190/ft = 152 x \$190 = 28,880
 3. Trench Cut = \$7.30/sf x Area = (7.2 miles x 5,280 ft/mile) x ((42" + 12" + 12")/12 inch/foot)
= 38,016 ft x 5.5 feet x \$7.30/sf = 309,088 sf x \$7.30/sf = \$1,526,342.40. Assume there will be no Trench Cut Fee if existing roadway is grinded down minimum of 3" of AC and a 3" Type 1 Hot Mix Asphalt overlay is provided along all trench cut areas.
 4. PMA = 5 locations for road crossings at \$285/each = \$1,425
 5. Plan Review = Plan review estimated at 8 hours at @\$95/hr = \$760
 6. Total General Construction Inspections :
Inspection at road crossings = 5 locations for road crossing x \$95/location = \$475
SWPPP & ESCP Inspections (post, monthly, and post-inspection) = 12 months x \$95/inspection = \$1,140
Total General Construction Inspections = 17 inspections x \$95/inspection = \$1,615
 7. Traffic Delay Notification and Traffic Control Review = 2 at \$190/each = \$380
 8. Detour & Lane/Road Closure Fee = \$500/day x 0 days = \$0
 9. NPDES SWPPP review = \$450 assuming project is Risk Level 1
- Total Permit Fee Estimate for ENCR01-2018 = \$33,550

- PERMIT EXTENSION REQUEST USE ONLY -

Extension Request Date: ☐ Extension Request Ok?
Extension Expiration Date: ☐ New TDN Required?

County's NPDES MS4 Phase II Storm Water Information per County Ordinance Section 14.14**Site Information**

Site_APN:
Site_Description: 7.2 miles through public roads along Harding, Car
Site_Address: No address, linear underground project (LUP)
Site_City: Turlock CA 95382
Lat: 0 Long 0
Map

Construction Dates, Risk Levels, Inspection Frequencies

Estimated Start Date: 4/1/2018
Estimated Completion Date: 4/1/2019
Construction_Phase: Underground Utility
Project Risk Level: Risk Level 1
Waterbody_Location: San Joaquin River
Inspection_Frequency: Pre-Job, Monthly, Post-Job

ESCP / SWPPP Plan Review Summary

☐ Project in NPDES Red Zone
Project-Size: 4.80 acres Disturbed-Area: 4.80 acres
☒ ESCP Required? ESCP Review Date:
Regulated Project Info:
☒ Post-Dev Required? Post-Dev Review Date:
☒ SWPPP Required? SWPPP Review Date:
NOI Number:
WDID Number:

Inspection Timeline

In Review Date: 10/19/2017
Ready to Issue:
Date Issued:
Pre-Construction Date:
Final Date:
Continue Date:
Inspection Date:
Final Date:

Pre-Construction

Acknowledgement of Survey Monument Preservation

Monument Preservation prior to construction activity

I, _____, a Landowner or Contractor with _____
(Please Print) (Company)
performing work within Stanislaus County Right-of-Way hereby acknowledge my responsibility
for monument preservation as required per Sections 8771(a-f) of the Business and Professions
Code, within my scope of work and the bounds of the construction activity permitted by the
Stanislaus County Encroachment Permit No. ENCR _____ - _____.

Basic Permit Information

Applicant:

Purpose:

Site Description:

Site Address

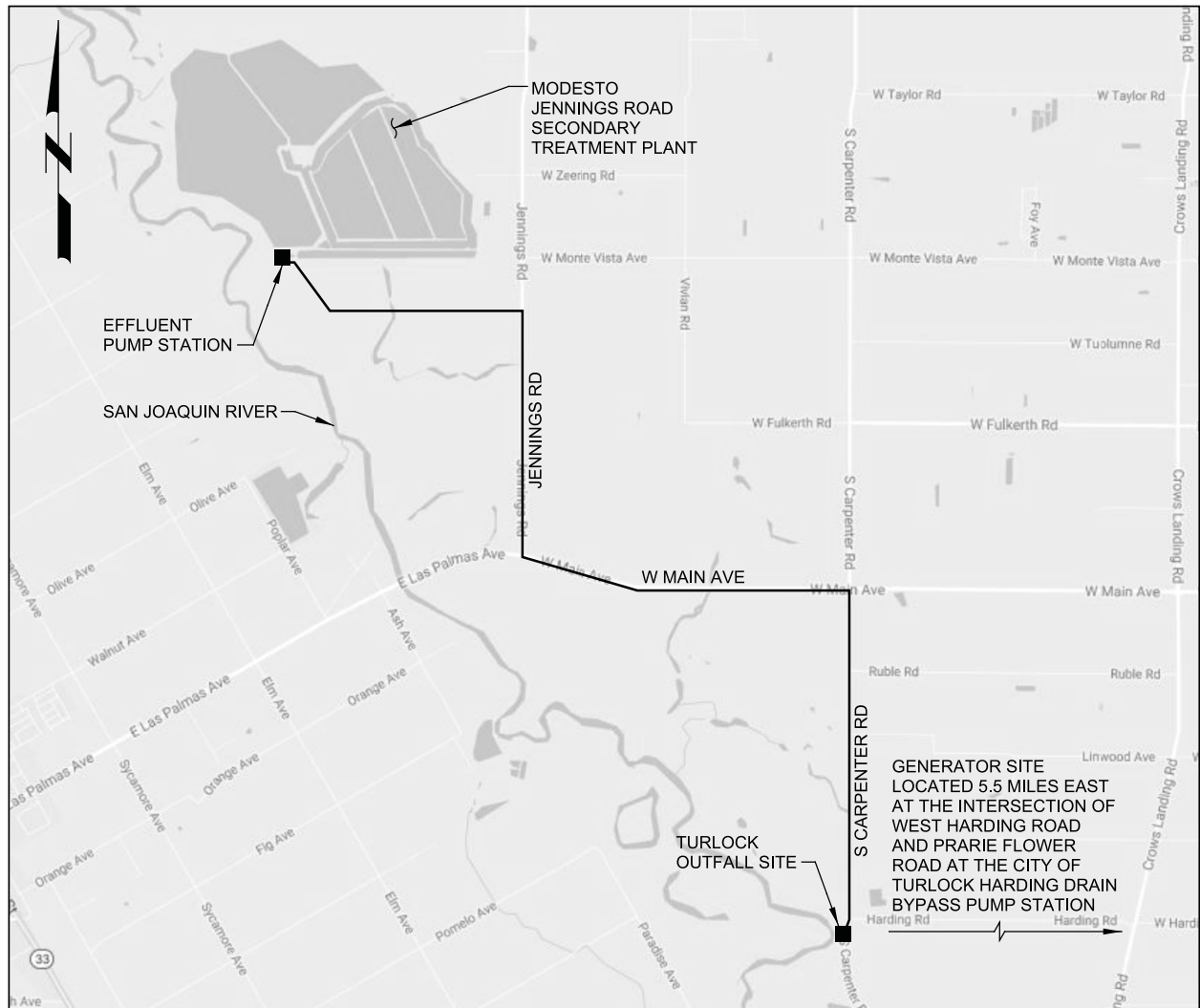
Proposed Start Date:

Proposed End Date:

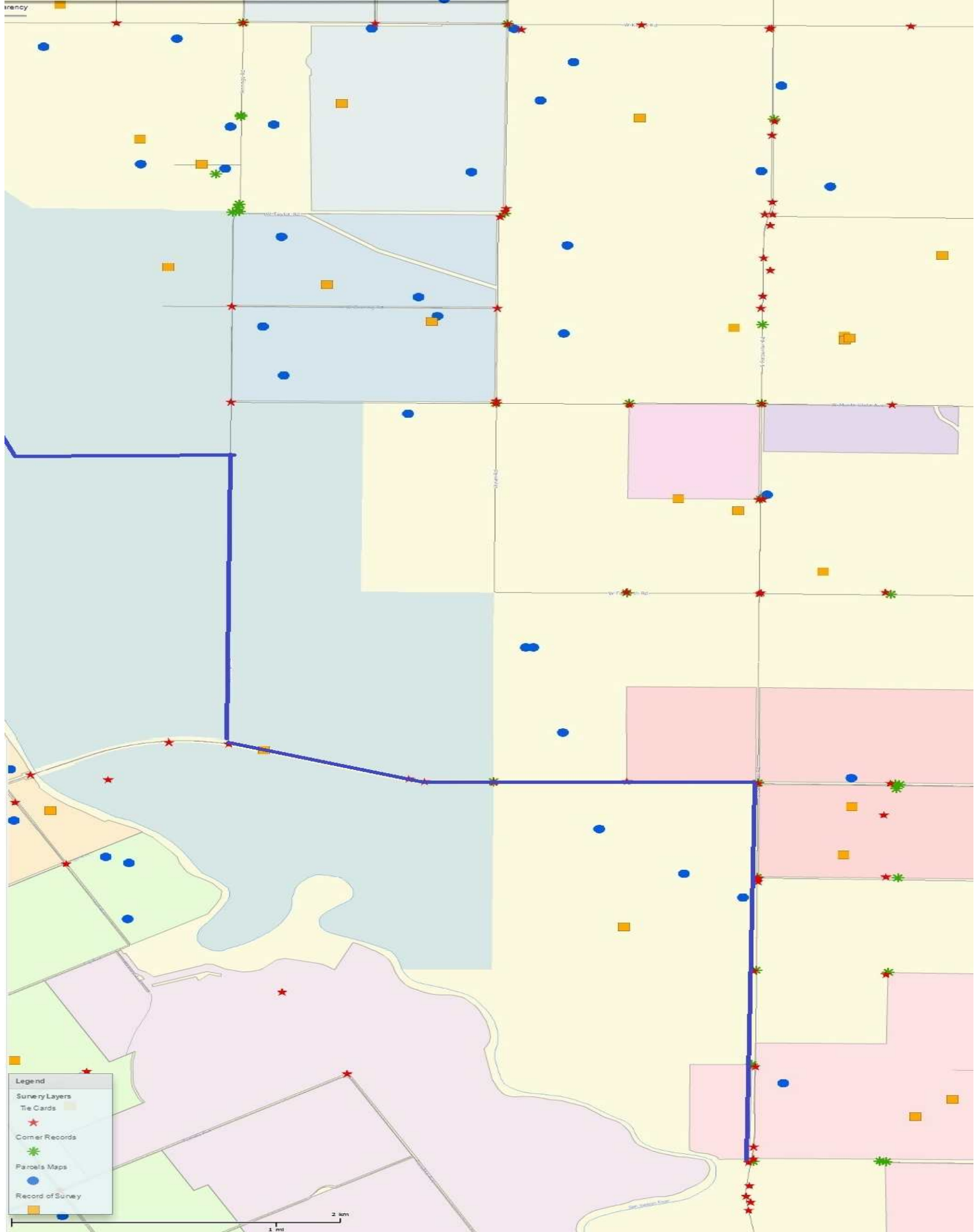
Stanislaus County Public Works has performed a cursory monument check for Encroachment
Permit No. ENCR _____ - _____ and has FOUND / NOT FOUND monuments that could be
disturbed with the proposed work. Please note that the Landowner/Contractor performing the
work remains responsible for any monument disturbance. If a monument is disturbed,
notify Stanislaus County Surveyor's Office immediately at (209)525-4130.

Signature of Landowner/Contractor

Date



LOCATION MAP



- c. The HMA Mix design requirements shall be in accordance to Section 39-1.03B and as approved by the Engineer.
- d. Method process shall be used for all tonnages unless otherwise approved by the Engineer. Material quality control and assurance testing shall be paid for by the Developer out of deposit for inspection and testing services.
- e. The use of recycled material (RAP) may allow the County to receive Leadership in Energy and Environmental Design (LEED) credits for green initiatives or use of recycled products. Recycled materials in HMA mix design shall not exceed 15% unless otherwise approved by the Engineer. Recycled asphalt shingles (RAS) will not be allowed in HMA.
- f. The asphalt grade shall be PG 64-10 in conformance with Section 92 of the State Standards, unless otherwise approved by the Engineer. PG 70-10 may be required for special conditions per State Standards and as directed by the Engineer.
- g. The final surface course shall be paved in the number of passes approved by the Engineer starting from the curb and paving toward the centerline.
- h. Compacting equipment shall conform to the requirements of Section 39 of "Asphalt Concrete" of the State Standards. Vibratory rollers may be used as approved by the Engineer.
- i. The surface course shall be laid with a self propelled paving machine.
- j. Left turn pockets, tapers, and returns shall be paved independently from the main line paving. Main line paving shall take precedence over any other portion of the roadway paving.

3.13 ASPHALT PAINT BINDER:

An asphalt paint binder shall be applied in conformance with Section 39 "Asphalt Concrete" of the State Standards to all existing vertical surfaces and construction joints prior to placing asphalt concrete.

3.14 SEAL COAT:

A seal coat complying with the requirements of Section 37 "Bituminous Seals" of the State Standards shall be applied to the finished surface of the asphalt concrete for all new street construction and subdivisions at end of the warranty period and prior to final acceptance of improvements.

Section "B" of California Test 231 shall be amended as follows:

"At the discretion of the Engineer, a guide plate measuring approximately 9-3/4 inches x 14 inches x 3/16 inch may be substituted for standard plate. Additionally, a sliding sleeve impact hammer which incorporates a 13/16-inch diameter pin, and is manufactured specifically for use with a nuclear gauge and guide plate, may be used in lieu of standard driving pin."

The Developer shall obtain a disposal site for all of the roadway excavation not used on the job-site. The Developer shall obtain and file with the County a letter showing permission and conditions for use of the disposal site. The Developer shall control dust at the disposal site in conformance with San Joaquin Valley Air Pollution Control District regulations, and keep any roads used free of excess material.

3.10 AGGREGATE BASE:

The aggregate base material shall conform to the requirements of Section 26 "Aggregate Bases" of the State Standards for Class 2, 3/4 inch maximum combined grading.

3.11 PRIME COAT - SECTION REMOVED

3.12 ASPHALT CONCRETE:

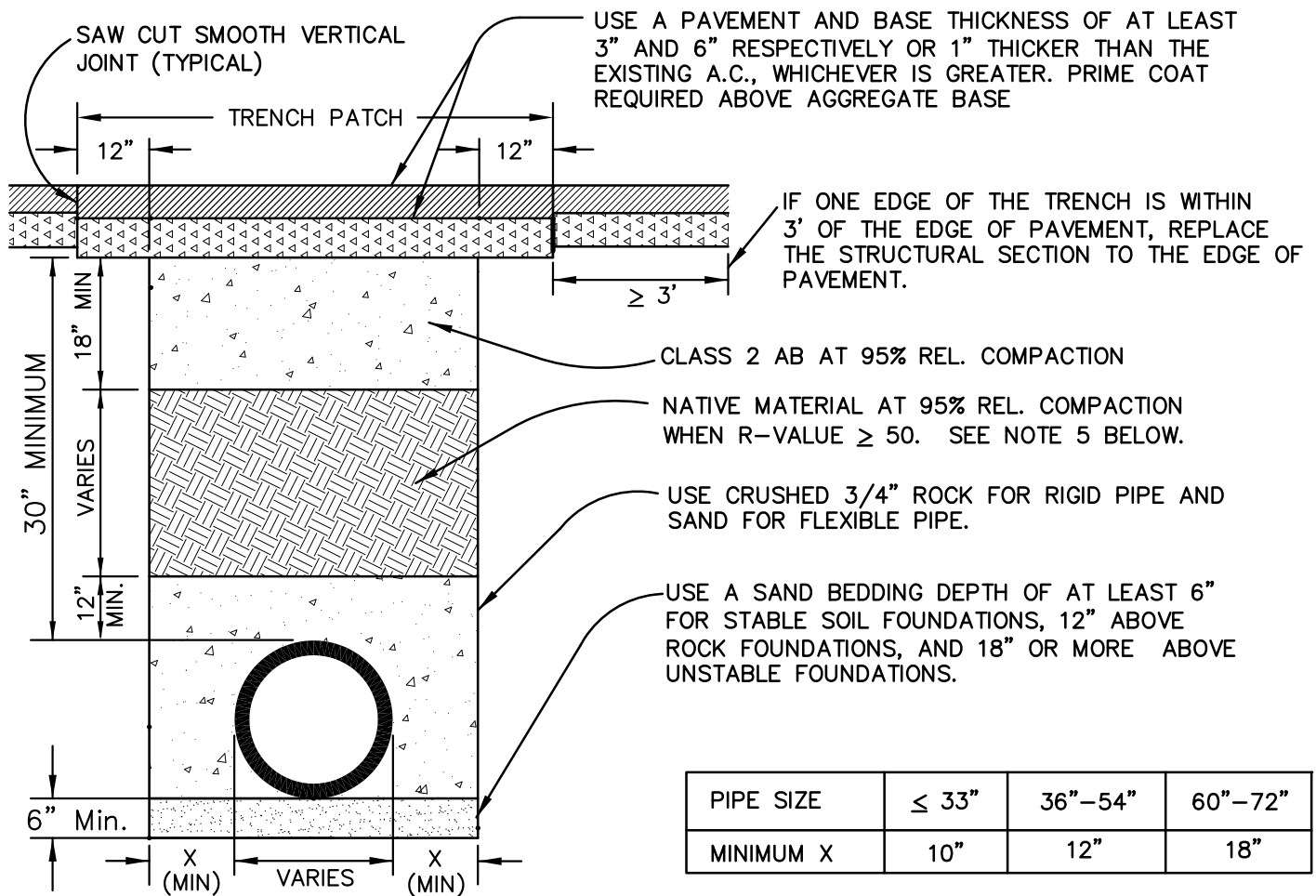
The asphalt concrete shall conform to the requirements of Section 39 "Hot Mix Asphalt (HMA)" of the latest edition of the Caltrans State Standards and shall meet the following minimum design requirements:

- a. Hot Mix Asphalt shall be Type A.
- b. The maximum aggregate size for HMA mix design shall be based upon the minimum design thickness required for the roadway. Lift thickness shall be four times the normal maximum aggregate size unless otherwise approved by the Engineer.

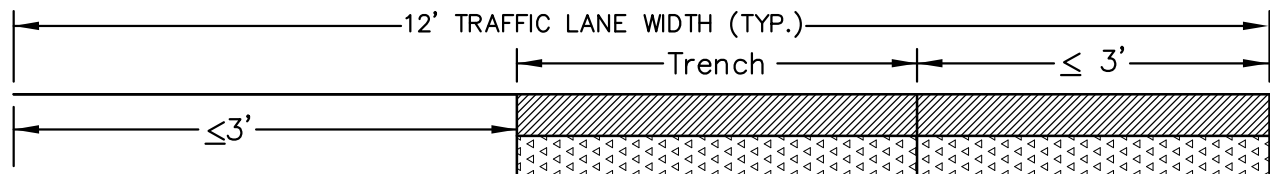
Example: Determine rock size for HMA mix design for a three inch HMA mix design overlay

Thickness = 4 x Rock Size

Rock Size = Thickness / 4
 = 3/4 inch
 = 3/4 inch - normal maximum aggregate



LONGITUDINAL TRENCHES:



IF THE EDGE OF THE TRENCH IS ≤ 3' FROM THE EDGE OF THE LANE, THEN OVERLAY THE LANE WITH 1" OF AC.

NOTES:

- TRENCHES 5 FT OR MORE IN DEPTH MUST BE SHORED AND PROTECTED IN ACCORDANCE WITH CAL OSHA AND OTHER STATE AND FEDERAL SAFETY CODES, REGULATIONS, AND ORDINANCES.
- ALL PIPES, INCLUDING, BUT NOT LIMITED TO, STORM, WATER, GAS, SEWER, CULVERTS, AND LATERALS SHALL BE A MINIMUM OF 30" BELOW SUB GRADE AT EDGE OF PAVEMENT.
- PROVIDE 95% COMPACTION IN 8" LAYERS FOR THE ENTIRE DEPTH OF TRENCH.
- PONDING OR JETTING WILL NOT BE ALLOWED.
- IF SOIL R-VALUE IS LESS THAN 50, USE CLASS 2 AB VERSUS NATIVE MATERIAL.
- COMPACTION TESTS SHALL BE PERFORMED BY CONTRACTOR AND BE SUBMITTED TO (AND APPROVED) BY COUNTY INSPECTOR PRIOR TO PAVING, USING CALTRANS TEST METHOD NO. 216 AND NO. 231.



NO.	REVISED	BY
UPDATED BY: PAUL SAINI, RCE DONAL HICKS, SR. ENGR. TECH		
CHECKED BY: DAVID LEAMON, RCE		

TRENCHING REQUIREMENTS IN EXISTING STREETS

COUNTY OF STANISLAUS
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:

Matthew Machado

MATTHEW MACHADO, RCE
DIRECTOR OF PUBLIC WORKS

DATE: JUNE 2, 2014

PLATE NO: 3-H2



TRAFFIC DELAY NOTIFICATION ENCROACHMENTS PERMITS

PERMIT NO: 1 - 2018

CAMS No:

Lat:

Long:

Map

Traffic Map:

**Location
Description:**

7.2 miles through public roads along Harding, Carpenter, W Main, S. Jennings roadways

**Site
Address:**

No address, linear underground project (LUP)

**Project
Dates:**

Application Date

Issued Date

Proposed Start Date

Proposed End Date

Notes:

Tentative project dates for proposed construction are 4-1-2018 to 4-1-2019.

**Type of
Work:**

☒ Encroachment

☒ Construction

☐ Road/Bridge

☐ Parade/Special Event

**Open to
Emergency
Vehicles?**

☒ Yes

☐ No

**Summary of
Activity:**

Turlock Component of North Valley Regional Recycled Waterline Program will consist of constructing 7.2 miles of 42-inch diameter pipeline and appurtenances and roadway restoration along the pipeline alignment. The proposed work will begin at the ex. standpipe structure located at Carpenter Rd. and Harding Rd. and then travel along W. Main St., Jennings Rd and ending at the Modesto's Jenning Treatment Plant.

**Detour/Other
Info:**

See projects detailed traffic control plan for proposed construction work, lane closures, and/or road closures.

**Responsible
Party (Field
Contact)**

Name/Company: City of Turlock

Mailing Address: 156 S. Broadway Suite 150

City: Turlock

Telephone No: 209-668-5417

Submitted by:

**Date Road Closure Form
Submitted to Traffic Date**

New Appendix

APPENDIX R^{AD3}
DEWATERING AGREEMENT - GIOLETTI

AGREEMENT TO TAKE DELIVERY OF TRENCH DEWATERING WATER
NORTH VALLEY REGIONAL RECYCLED WATER PROGRAM

THIS AGREEMENT ("**Agreement**") is entered into this ____ day of _____, 2018, and shall become effective as described herein, by and between the City of Turlock, a Municipal Corporation ("**City**"), and Justin Gioletti, dba Robert Gioletti and Sons, Incorporated, a California Corporation ("**Gioletti**"), collectively the "**Parties.**"

RECITALS

This **Agreement** is made with respect to the following facts:

A. WHEREAS, **City** will retain the services of a general contractor ("**Contractor**") for purposes of constructing the Turlock Pipeline Segment ("**Pipeline**") of the North Valley Regional Recycled Water Program ("**Project**"). The **Pipeline** will be constructed within the public right-of-way associated with West Main Street and Carpenter Road, and on land owned by the City of Modesto ("**Modesto**").

B. WHEREAS, There is a shallow groundwater table along the pipeline route, and during excavation associated with pipeline construction, **Contractor** will need to perform dewatering. The water generated by this dewatering associated with pipeline construction, within the **Modesto** owned land, will be discharged for agricultural use on that land. **City** is seeking an agreement with an existing irrigator that operates adjacent to the **Pipeline** route along West Main Street and Carpenter Road outside, and east of the **Modesto** owned land for purposes of disposing of groundwater associated with trench dewatering operations.

C. WHEREAS, groundwater in the **Project** area can contain potentially hazardous trace elements including arsenic in concentrations that may exceed 10 ppb, which limits discharge to local surface channels and the San Joaquin River. Another acceptable approach for disposing of groundwater associated with trench dewatering operations is to apply such water to agricultural land where the water can be consumptively used by agricultural crops, evaporate and percolate.

D. WHEREAS, **Gioletti** has a crop to crop verbal lease that includes some sixty-five (65) acres of irrigated agricultural land adjacent to the **Project**, and is willing to accept the water generated by **Project** dewatering operations.

E. WHEREAS, **Gioletti** has made an offer to purchase the irrigated agricultural land and can't commit to taking delivery of the trench dewatering water until such purchase is confirmed.

F. WHEREAS, **Gioletti** is willing to accept delivery of the trench dewatering water if the purchase is completed prior to the time set forth herein and subject to the terms set forth herein.

G. WHEREAS, **City** is in the process of determining the scope and schedule of **Project** dewatering operations, and wants to determine the location to discharge such water prior to selecting a **Contractor** to construct the **Pipeline**.

AGREEMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the **Parties** agree:

1. **PAYMENT TERMS** **Gioletti** is willing to provide one (1) parcel to **City** for water disposal during two time periods. The total payment to **Gioletti** by **City** will be based on the time period of use. The cost/acre for the December 1, 2018 to March 31, 2019 period is Five Hundred Dollars (\$500). The cost/acre for the June 1, 2019 to September 30, 2019 period is One Thousand Two Hundred Dollars (\$1,200). Both periods are available for **City** use at **City's** option. The options are described herein below. The basis for payment by **City** is set forth in the following table.

Parcel APN(s)	Acreage	Total Cost (\$) by Time of Use	
		12/1/18 - 3/31/19	6/1/19 - 9/31/19
058-002-005	65	32,500	78,000

Gioletti agrees to accept, manage, store, handle, use, and dispose all water generated by dewatering operations by the **Project** under the **Agreement** terms and conditions described herein below. **City** shall identify the time period(s) of use and make payment to **Gioletti** within thirty (30) calendar days of **City's** acceptance of this **Agreement**.

2. **OPTION TO EXERCISE AGREEMENT** **Gioletti** agrees to grant **City** an option for future use of the agricultural land identified above for disposal of trench dewatering water, which encompasses the period during which **City** retains the services of a **Contractor** to construct the **Project** facilities. The option shall begin upon the Effective Date, as defined below, and expire at the close of business on _____, 2018. **City** will provide written notification to **Gioletti** regarding **City's** decision on exercising the option. Such written notification will be delivered by registered mail and shall be postmarked on or before the option expiration date. Should **City** exercise its option, the written notification will identify the time period for delivery. **Gioletti** will be paid Five Thousand dollars (\$5,000) for the option. Such payment shall be due only if both of the following occur: 1) the Option becomes effective by the Effective Date set forth below, and 2) the **City** accepts this **Agreement**. If both those events occur the payment shall be made within five calendar days of the latter of those two events occurring.

3. **EFFECTIVE DATE** The option granted herein shall only become effective if **Gioletti** provides the city with documentation evidencing that **Gioletti** completed the purchase, and has control of, the parcel identified as APN 058-002-005 as of a date no later than July 10, 2018, the Effective Date. **City** shall contact **Gioletti** on or before July 10, 2018 to determine the status of the parcel ownership. If **Gioletti** provides documentation that the purchase has been completed and **Gioletti** has control of the parcel on or before July 10, 2018, the Option shall become effective as of July 10, 2018. If **Gioletti** does not complete the purchase and have control of the parcel prior to July 10, 2018, the Option shall not become effective and this agreement shall be deemed terminated without further action of the parties.

4. **WATER FLOW AND VOLUME** Water delivery to the parcel shall be confined to trench dewatering water associated with **Project** construction. There are not any anticipated minimum or maximum flow rates, and the actual flow rate will vary depending on groundwater conditions. However, **City** expects the average flow to range from approximately four hundred (400) to six hundred (600) GPM. Periodically, water flow may be less than four hundred (400) gpm and reach or exceed eight hundred (800) gpm. **Gioletti** agrees to accept water produced as a result of **Contractor's** dewatering operations with the following volume limitations and **Contractor** shall cease water delivery when the volume limits are reached.

- A. One (1.0) acre-foot/acre during the December 1, 2018 to March 31, 2019 time period. The total water delivery shall not exceed sixty-five (65) acre-feet.
- B. One and a half (1.5) acre-feet/acre during the June 1, 2019 to September 30, 2019 time period. The total water delivery shall not exceed ninety-seven point five (97.5) acre-feet.

5. WATER APPLICATION AREA The parcel included is APN 058-002-005 (sixty-five (65) irrigated acres). **Gioletti** shall confine delivered trench dewatering water to this parcel. Tailwater discharges to the Turlock Irrigation District drain are prohibited.

6. WATER OWNERSHIP Prior to exiting **Contractor's** conveyance pipeline, the water produced by the dewatering operation shall constitute property of the **City**. Immediately upon exiting the **Contractor's** conveyance pipeline, title to the water shall transfer to **Gioletti**. **Gioletti** at his sole cost and risk shall assume full responsibility and liability for the water, including for accepting, managing, storing, using, and disposing the water in a lawful and safe manner. **Gioletti** shall comply with all applicable laws, and additionally shall take all actions required by law, including obtaining approvals or permits and the giving of all notices, which may reasonably be needed in order to take title to, accept, manage, store, use, and dispose the water. **Gioletti** acknowledges that the water may contain hazardous trace elements, including arsenic. In entering into this **Agreement**, **Gioletti** states that he has conducted his own independent investigation concerning all relevant matters, including the presence and concentrations of any hazardous trace elements in the water, and uncertainties regarding such matters, and is not relying on any statements or representations by **City**, or **City's** employees, agents, and contractors.

7. WATER CONVEYANCE **City** shall require **Contractor** to extend a surface water conveyance pipeline to connect to **Gioletti's** existing on-farm water distribution system in accordance with the following. **Contractor** shall make all connections to the **Gioletti** irrigation facilities and maintain and operate the pipeline and connection facilities. The conveyance pipeline shall include a water meter that measures flow and cumulative acre-feet delivered. The **City's** construction manager shall meet with **Gioletti** weekly to provide a summary of water delivery volume. **Contractor** shall review the connection design and coordinate the installation of the conveyance system facilities with **Gioletti** prior to the installation. **Contractor** shall remove the conveyance facilities within fifteen (15) days after ceasing water delivery, and restore the **Gioletti** irrigation system at the connection location to its near original condition. The conveyance pipeline and connection to the existing irrigation system is described as follows:

A. APN 058-002-005: **Contractor** shall extend a conveyance pipeline to the approximate center of the parcel along the southern boundary where the **Gioletti** pipeline is located. The pipeline route shall follow the southern parcel boundary from Carpenter Road to the southern most pipeline riser, a distance of some six hundred (600) feet. The pipeline shall be located along the northern side of the field road that parallels the Harding Drain. The connection to the **Gioletti** irrigation facilities shall be at that southern most riser.

8. WATER DELIVERY **Gioletti** will accept water deliveries during two (2) time periods. The first time period begins December 1, 2018 and ends March 31, 2019. The second time period begins June 1, 2019 and ends September 30, 2019. **Gioletti** acknowledges and agrees that once trench dewatering activities commence that water will be delivered continuously and that the flow of water will not be halted until completion of construction operations for which dewatering is required or the acre-foot delivery limitations described herein above are reached, whichever occurs first.

9. **AGREEMENT TERM** The **Agreement** term shall commence on the date first shown above. The **Agreement** shall end within fifteen (15) calendar days after the last day water is delivered to **Gioletti** unless terminated earlier pursuant to Section 3, above.

10. **WAIVER OF CONSEQUENTIAL AND SPECIAL DAMAGES** To the greatest extent permitted by law, **Gioletti** hereby waives any and all consequential or special damages, including without limitation, damages, claims, losses, causes of action, or liabilities for the following: 1) for loss of use, income, profit, financing, business, and reputation; 2) for damage or loss of crops, real property, or arability; 3) for loss of productivity; 4) for loss of services; 5) for loss of financing or return on capital; 6) for financing or interest costs; and 7) for any other consequential or special damages.

11. **RIGHT OF ENTRY UPON PREMISES** **City**, its employees, agents, and contractors shall not have the right to enter the **Gioletti** property, other than the area immediately adjacent to the water conveyance pipeline and associated connection facilities as described herein above. Such entry is granted only for the installation and removal, maintenance and operation of the conveyance pipeline and connection facilities.

12. **TIME OF ESSENCE, BINDING UPON HEIRS, ETC.** Time is of the essence of each, and all the terms and provisions of this **Agreement**, and the terms and provisions of this **Agreement** shall extend to and be binding upon and inure to the benefit of the heirs, executors, administrators, successors, and assigns of the respective parties hereto. **Gioletti** acknowledges that **Contractors** operations at the **Project** depend upon **Gioletti** fully and timely performing his obligations under this **Agreement**, and that **Gioletti's** failure to receive and accept the water could result in **Contractor** having to stop or slow work. Such circumstances could potentially increase **Contractor's** cost and expose **City** to a payment of liquidated damages as well as other damages, liabilities, and costs, including claims by third parties for delay and disruption. **Gioletti** shall be responsible for any damages, liabilities and costs, including but not limited to, claims by third parties for delay or disruption for **Gioletti's** failure to perform his obligations under the agreement.

13. **CITY INDEMNIFICATION** **City** agrees to indemnify, defend, and hold harmless **Gioletti**, their officers, agents and employees from and against any and all claims, demands, losses, defense costs, or liability of any kind or nature which **Gioletti**, their officers and employees may sustain or incur, or which may be imposed upon them, or any of them, for injury to or death of persons, or damage to property as a result of, arising out of, or connected with, **City's** sole negligence in the performance of any of **City's** duties under this **Agreement**.

14. **NOTIFICATIONS** Any and all notices permitted or required to be given hereunder shall be given to each Party at the address respectively indicated below, or to any other address as the respective parties may designate from time to time.

Robert Gioletti and Sons, Inc.
Attn: Justin Gioletti
118 N. Baker Road
Turlock CA 95380
Cellular: 209-602-9110
Email: giodairy@sbcglobal.net

City of Turlock
Attn: Michael I. Cooke, Director
Municipal Services Department
156 South Broadway, Suite 270

Turlock, CA 95380-5454
Telephone: 209-668-5590
Facsimile: 209-668-5695

15. ENTIRE AGREEMENT This agreement represents the entire and integrated agreement between **City** and **Gioletti**, and supersedes all prior negotiations or agreements, whether written or oral.

16. AMENDMENTS This Agreement may not be amended or varied except in writing signed by all **Parties**.

17. GOVERNING LAW AND VENUE This Agreement shall be governed according to the laws of the State of California.

City of Turlock

Robert Gioletti and Sons, Inc.

By: _____

By: _____

APPROVED AS TO FORM:

By: _____
Jose M. Sanchez,
Interim City Attorney

ATTEST:

By: _____
Jennifer Land, City Clerk

2970879.1

Addendum No. 3

DRAFT

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May 24, 2018

