

PROJECT MANUAL

FOR THE

**LOS OSOS COMMUNITY SERVICES DISTRICT  
2122 9TH STREET, SUITE 110  
LOS OSOS, CA 93402  
(805) 528-9370**

# **SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**

Prepared by:

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JULY 2026  
WG JOB NO. 0384-0011-00-00513

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## CERTIFICATION

In accordance with the provisions of Section 6735 of the Business and Professions Code of the State of California, these specifications have been prepared by or under the direction of the following Professional Engineers licensed in the State of California:

*Steven G. Tanaka*

Steven G. Tanaka, PE C049779, Exp. 09/30/26



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## **PART I**

### **NOTICE, PROPOSAL AND AGREEMENT FORMS**

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# **NOTICE INVITING BIDS**

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**LOS OSOS COMMUNITY SERVICES DISTRICT**  
**SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**

**NOTICE INVITING BIDS**

NOTICE IS HEREBY GIVEN that the LOS OSOS COMMUNITY SERVICES DISTRICT (Owner) hereby invites sealed bids which will be received at:

LOS OSOS COMMUNITY SERVICES DISTRICT  
2122 9TH STREET, SUITE 110  
LOS OSOS, CA 93402

until **August 7, 2026, at 3:00 p.m. PST**, or such later date as may be set by Addendum, at which time and at the above address, they will be publicly opened and read aloud for performing the following work:

DESCRIPTION OF WORK: The work is comprised of providing two new groundwater monitoring wells located at Pismo Avenue/5th Street, Los Osos, CA, as specified herein and as shown on the Contract Documents.

LOCATION OF THE WORK - The work is located in Los Osos, CA, at Pismo Avenue and 5<sup>th</sup> Street, Los Osos, CA.

BID OPENING - Telephones will not be available to bidders for the preparation of the bids or for calling in bid results. Bid forms received after the designated time will not be accepted. Bidders, their authorized agents and other interested parties, are invited to attend the bid opening.

AWARD OF CONTRACT- The OWNER intends to award a contract **to the lowest, responsive, and responsible bidder to the bid schedule delineated in these contract documents**. All bids submitted shall be in accordance with the provisions of the Contract Documents and the OWNER may waive any minor irregularities or reject any and all bids. Any bid may be withdrawn prior to bid opening but not afterward.

FORM OF THE BID - Bidders must submit proposals on the proposal bid form provided. Proposals will not be considered unless submitted on proposal forms included in the Contract Documents obtained from the OWNER. It is **not mandatory**, but highly recommended, that the bidder attend the pre-bid job conference scheduled for **Wednesday, July 22, 2026, at 10:00 am, at the Project Site, Pismo Avenue at 5<sup>th</sup> Street, Los Osos, CA**. The bidder may contact Steven Tanaka at **805-441-2293** for additional information.

BID SECURITY - Each proposal must be accompanied by cash, a certified or cashier's check, or bidder's bond on the prescribed form and made payable to the OWNER for an amount equal to at least 10 percent of the amount of the Bid, such guaranty to be forfeited should the apparent successful bidder to whom the contract is awarded fail to furnish the required bonds and insurance certificates, and enter into contract with the OWNER within the time stated in the

Proposal requirements. Proposals cannot be withdrawn for the period of time specified in Article 10 of the Instructions to Bidders.

**PERFORMANCE SECURITIES** – The successful bidder will be required to furnish a payment bond and faithful performance bond in the full amount of the Contract price, and insurance with certificates and endorsements of insurance, as provided in the Contract Documents. The required bonds must be provided only by a surety insurer who is in good standing with the State of California Department of Insurance.

**CONTRACTOR LICENSING** - In accordance with the provisions of California Public Contract Code Section 3300, the OWNER has determined that the contractor shall possess a valid C57 Well Driller's License at the time of bid issuance. Failure to possess the specified license shall render the Bid as non-responsive and shall act as a bar to award of the Contract to any bidder not possessing said license at the time of award. In the event of dispute over classification of the license required, the opinion of the contractor's State License Board shall prevail.

**WAGE RATE REQUIREMENTS** - In accordance with the provisions of California Labor Code Sections 1770, 1773, 1773.1, 1773.6 and 1773.7 as amended, the Director of the Department of Industrial Relations has determined the general prevailing rate of per diem wages in accordance with the standards set forth in Section 1773 for the locality in which the work is to be performed. A copy of said wage rates is on file at the office of the OWNER. It shall be mandatory upon the contractor to whom the work is awarded and upon any subcontractor under the contractor to pay not less than said specified rates to all workmen employed by them in the execution of the work.

**CONTRACTOR REGISTRATION WITH DEPARTMENT OF INDUSTRIAL RELATIONS** – In accordance with California Labor Code Section 1725.5, Contractors and Subcontractors (as defined by California Labor Code Section 1722.1) bidding on Public Works contracts in California shall be registered with the Department of Industrial Relations **prior to bidding**. Contractor shall verify that this requirement has been met, prior to award of Contract.

**AGREEMENT TO ASSIGN** - In accordance with Section 4552 of the California Government Code, the bidder shall conform to the following requirements: In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act 15 U.S.C. 15, or under the Cartwright Act, Chapter 2.

**DEPOSIT OF SECURITIES IN LIEU OF RETAINAGE** - The Contractor may elect to receive 100 percent of payment due under the Contract Documents from time to time, without retention of any portion of the payment by the OWNER, by depositing securities of equivalent value with the OWNER in accordance with the provisions of Section 20300 of the California Public Contract Code. Such securities, if deposited by the Contractor, shall be valued by the OWNER, whose decision on valuation of the securities shall be final. Securities eligible for investment under this provision shall be limited to those listed in Section 16430 of the California Government Code or bank or savings and loan certificates of deposit.

**CONTRACT DOCUMENTS** - Contract Documents, including Instructions to Bidders, the Contract Documents may be downloaded from the District's web site, <https://www.losososcscsd.org/>, or by contacting the office of the Engineer, Wallace Group, Steven Tanaka, at [stevent@wallacegroup.us](mailto:stevent@wallacegroup.us), or by telephone (805) 441-2293. If you download the

contract documents from the District's web site and intend to submit a bid, you must contact the Engineer at the contact information above, to be placed on the planholders' list.

Only PDF electronic copies of the bid documents will be made available to bidders, at no charge to bidders. The special attention of prospective bidders is called to the Instructions to Bidders portion of the Contract Documents for full directions for bidding the Work.

The successful bidder must insure that employees and applicants for employment are not discriminated against on the basis of age, color, race, national origin, ancestry, religion, sex, sexual preference, marital status, and shall comply with the Americans with Disabilities Act.

Date: 7/6/26

OWNER:  \_\_\_\_\_  
GREG KWOLEK, GENERAL MANAGER

**END OF NOTICE INVITING BIDS**

# **INSTRUCTIONS TO BIDDERS**

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LOS OSOS COMMUNITY SERVICES DISTRICT

**SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**

**INSTRUCTIONS TO BIDDERS**

- 1) Commencement of Work: No work shall commence before contract bonds and insurance certificates have been filed with the OWNER, the Contract has been signed by the OWNER and the Notice to Proceed has been issued by the OWNER.
- 2) Completion Time: The Contractor shall obligate him/herself to satisfactorily complete the work within **forty five (45) calendar days**. The date of the Notice to Proceed issued by the OWNER shall constitute the starting date of the Contract. Upon issuance of the Notice to Proceed, the Contractor shall immediately begin and diligently prosecute the work to completion.
- 3) Liquidated Damages: Per Article 6.1 of the Supplementary General Conditions.
- 4) Method of Payment: Payment will be made on the basis of the **unit price** bid and as set forth in the General Conditions and Supplementary General Conditions.
- 5) Form of the Bid and Signature: The proposal shall be submitted on the form attached hereto and shall be enclosed in a sealed envelope addressed and marked as hereinafter directed.

The bidder shall state the **unit price** for which he/she proposes to supply the labor, materials, supplies, or equipment, and perform the work required by the Specifications.

The low bidder, for purposes of award, shall be the conforming, responsible bidder offering the most favorable bid per the project base bid. All bids shall be evaluated on the same basis.

If the proposal is made by an individual, it shall be signed and his/her full name and mailing address shall be given; if it is made by a firm, it shall be signed with the partnership name of a member of the firm, who shall also sign his/her own name, and the name and address of each member shall be given; and if it is made by a corporation, the name of the corporation shall be signed by its duly authorized officer or officers attested by the corporate seal, and the names and titles of all officers of the corporation shall be given.

Bidder may only modify his bid by written communication received by the OWNER prior to said closing time; provided that it shall be the responsibility of the bidder to ensure receipt of such document by the OWNER prior to said closing time. Any written modification so received will be read aloud at the time and place fixed for opening and reading of bids. Written communication should not reveal the Bid price but should state the addition or subtraction or other modification so that the final prices or terms will not be known by the OWNER until the sealed bid is opened.

- 6) Interpretation and Addenda: No oral representation or interpretations will be made to any bidders as to the meaning of the Contract Documents. All questions about the meaning or intent of the Contract Documents are to be directed to the engineer. Additions, deletions,

or revisions to the Contract Documents considered necessary by the engineer in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by the engineer or District as having received the Contract Documents. Questions received less than 14 days prior to the date of Bid opening may not be answered. Only answers to such questions issued by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

Addenda may also be used to make other additions, deletions, or revisions to the Contract Documents.

Bidders shall make no special interpretation or inference of intent from differing formats in the Technical Specifications.

7) Bidder's Examination of Contract Documents and Site:

- A. It is the responsibility of the Bidders to inspect the site of the work in order to satisfy themselves, by personal examination or by such other means as they may prefer, of the location of the proposed work and the actual conditions of and at the site. Bidders may apply to the Engineer for additional information and explanation before submitting bids. However, no supplemental information requested or furnished shall vary the terms of the Contract Documents or affect the Contractor's sole responsibility to satisfy himself as to the conditions of the work to be performed. No claim for additional compensation will be allowed which is based upon a lack of knowledge of the actual conditions or location of the Work.

Submission of a proposal by the bidder shall constitute acknowledgment that, if awarded the contract, the bidder has relied and is relying on their own examination of (a) the site of the work; (b) access to the site; and (c) all other data, matters, and things requisite to the fulfillment of the work and, on their own knowledge of existing facilities on and in the vicinity of the site of the work to be constructed under the contract, and not on any representation or warranty of the lack of knowledge of the above items. Removal, relocation, or protection of existing public utilities not identified by the District shall be done in conformance with Section 4215 of the Government Code.

- B. Each bidder shall thoroughly examine and be familiar with legal and procedural documents, general conditions, specifications, drawings and addenda (if any). Submission of a proposal shall constitute acknowledgment, upon which the Owner may rely, that the bidder has thoroughly examined and is familiar with the Contract Documents. Failure or neglect of a bidder to receive or examine any of the Contract Documents shall in no way relieve them of any obligation with respect to their proposal or to the Contract. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any Contract Documents.
- C. Each bidder shall review the Plans and Specifications, prior to the submission of the bid, and report any errors and omissions noted by the Contractor to the Engineer. The review by the Contractor shall be confined to the Contractor's capacity as a contractor, and not as a licensed design professional.

8) OWNER Investigations and Testings:

- A. Where the engineer has made investigations of surface and subsurface conditions in areas where work is to be performed under the contract, or in other areas, some of which may constitute possible local material sources, such investigations were made only for the purpose of study and design. Where such investigations have been made, bidders or contractor may, upon written request, inspect the records of the engineer as to such investigations subject to and upon the conditions hereinafter set forth. Such inspection of records may be made at the office of the engineer.

The records of such investigations are not a part of the contract and are made available for inspection solely for the convenience of the bidder or contractor. It is expressly understood and agreed by bidder or contractor that neither the OWNER nor the engineer assumes any responsibility whatsoever with respect to the sufficiency or accuracy of the investigations thus made, the records thereof, or of the interpretation set forth therein or made by the engineer in his use thereof and there is no representation, warranty or guarantee, either express or implied, that the conditions indicated by such investigations or records thereof are correct or representative of those existing throughout such areas or any part thereof, or that unanticipated developments may not occur or that materials other than, or in proportions different from, those indicated may not be encountered.

- B. Where a log of test borings or other investigations of subsurface conditions have been made by the OWNER in respect to foundation or other structural design, and that information is shown in the plans, said information represents only the statement by the OWNER as to the character of material which has been actually encountered by it in its investigation, and is only included for the convenience of bidders. Water levels that may be shown on a log of test borings are valid on for the stated date of observation. The water level may change from season to season and from year to year. Investigations of subsurface conditions are made for the purpose of design, and the OWNER assumes no responsibility whatever in respect to the sufficiency or accuracy of borings or of the log of test borings or other preliminary investigations, or of the interpretation thereof, and there is no guaranty, either expressed or implied, that the conditions indicated are representative of those existing throughout the work, or any part of it, or that unobserved or unanticipated developments may not occur. Making such information available to bidders is not to be construed in any way as waiver of the provisions of this section and bidders must satisfy themselves through their own investigations as to conditions to be encountered.

- C. The availability or use of information described in these Instructions to Bidders and other bid documents shall not be construed in any way as a waiver of the provisions of the Instructions of Bidders and a Bidder or Contractor is cautioned to make such an investigation and examination as it deems necessary to satisfy itself as to conditions to be encountered in the performance of the work and, with respect to possible local material sources, the quality and quantity of material available from such property and the type and extent of processing that may be required in order to produce material conforming to the requirements of the Specifications.

- D. No information derived from such inspection of records of investigations or compilations thereof made by Engineer, will in any way relieve the bidder or contractor from any risk or from properly fulfilling the terms of the contract.
- E. Information derived from inspection of topographic maps, or from Plans showing location of utilities and structures will not in any way relieve the contractor from any risk, or from properly examining the site and making such additional investigations as it may elect, or from properly fulfilling all the terms of the contract.
- 9) Addenda or Bulletins: Any addenda or bulletins issued during the time of bidding shall form a part of the Contract Documents and Specifications, shall be covered in the proposal, and shall be made part of the Contract. Receipt of addenda must be acknowledged in the appropriate space on the Proposal Form. Failure to acknowledge all such addenda will be cause to reject the bid as being non-responsive. It is the Bidder's responsibility to determine whether any addenda or bulletins have been issued.
- 10) Preparation of the Proposal: All blank spaces in the Proposal Forms, Contract Documents, and Bid Schedule shall be properly filled in. The phrasing of the proposal shall not be changed and no additions shall be made to the items mentioned therein. Unauthorized conditions, limitations, or provisions attached to a proposal will render it invalid and may cause its rejection. Alterations by erasure or inter-lineation must be explained or noted in the proposal over the signature of the bidder. Alternative proposals will not be considered unless specifically provided for in the Bid Schedule.

A Bidder may withdraw his/her proposal before the time fixed for opening of bids, without prejudice to himself, by submitting a written request to the OWNER for its withdrawal, and his proposal will be returned to him unopened when reached in the procedure of opening bids. No proposal may be withdrawn after the hour fixed for opening bids without rendering the accompanying certified or cashier's check or bidder's bond subject to forfeiture as liquidated damages in like manner as in the case of failure to execute the Contract after award, as provided hereinafter.

No proposal received after the time named or at any place other than the place stated in the Notice to Bidders will be considered. All proposals will be opened and declared publicly. Bidders, their representatives, and others interested are invited to be present at the opening. The OWNER reserves the right to waive any minor irregularities in any proposal, to reject any or all proposals, to reject one part of a proposal and accept the other, except to the extent that bids are qualified by specific limitations, and to make award to the apparent lowest responsible bidder for a period of 60 calendar days from the receipt of the award of bid. No proposal can be withdrawn for a period of 60 calendar days from the date of award of the bid, unless otherwise required by law. Where bonds are required, the bidder shall name in his/her bid the surety or sureties who have agreed to furnish said bonds.

- 11) Licensing of Contractors: Before submitting bids, Contractors shall be licensed in accordance with the provisions of Chapter 9, Division 3, of the Business and Professions Code of the State of California.

**A photocopy of the appropriate license(s) shall be submitted with the proposal.**

In accordance with California Labor Code Section 1725.5, Contractors and Subcontractors (as defined by California Labor Code Section 1722.1) bidding on Public Works contracts in California shall be registered with the Department of Industrial Relations prior to bidding. Proof of registration with the DIR will be required prior to award of any public works contract.

- 12) List of Subcontractors Filed With Bid: Each proposal shall have listed on the forms provided, the name and address of each subcontractor to whom the bidder proposes to sublet portions of the work in excess of one-half of one percent of the total amount of the proposal. For the purpose of this paragraph, a subcontractor is defined as anyone who contracts with the Contractor to furnish materials and labor, labor only, and/or one who specially fabricates and/or installs a portion of the work or improvement according to detailed drawings contained in the Contract Documents. All listings and subsequent substitutions, if any, shall be done in conformance with the Subletting and Subcontracting Fair Practices Act, Public Contract Code Section 4100 et seq.
  - I. The Contractor shall perform with its own organization work amounting to not less than 50 percent of the original total contract price, except that any work designated "Specialty Items" may be performed by subcontract and the amount of any such "Specialty Items" so performed may be deducted from the original total contract price before computing the amount of work required to be performed by the Contractor with its own organization. When items of work in the Bid schedule are preceded by the letter (S), such items shall be deemed designated "Specialty Items." Where an entire item is subcontracted, the value of work subcontracted will be based on the contract item bid price. When a portion of an item is subcontracted, the value of work subcontracted will be based on the estimated percentage of the contract item bid price, determined from information submitted by the Contractor, subject to approval by the Engineer.
- 13) Submission of Bids: All Bids must be submitted not later than the time prescribed, at the place and in the manner set forth in the Invitation to Bid. The OWNER shall not consider any Bid received after the time fixed or received at any place other than the place stated in the Invitation to Bid. Bids must be made on the prescribed Bid forms. A complete Bid requires submission of fully completed and executed: Bid, Designation of Subcontractors (if applicable), Bid Bond (or other bid guarantee), Experience Qualifications and Noncollusion Declaration. Each Bid must be submitted in a sealed envelope, so marked as to indicate its contents without being opened, and addressed in conformance with the instructions in the Notice Inviting Bids. The bidder is wholly responsible to see that its Bid is submitted at the time and place named for the opening of bids.

Bids shall acknowledge receipt of all addenda (identified by addendum no.) issued during the bidding period. Failure to acknowledge an addendum or clarification may result in the Bid being rejected as not responsive.

Bids shall be open at the time and place specified in the Notice Inviting Bids, unless changed by addendum. All Bids will be opened and read publicly. Bidders, their representatives and other interested parties, are invited to be present at the opening.

- 13a) Discrepancy in Bids: In the event of discrepancy between unit prices and totals, unit prices will prevail. [In case of discrepancy between words and figures, words will prevail.]
- 14) Bidders Interested in More Than One Bid: No person, firm, or corporation shall make, file, or be interested in more than one proposal for the same work unless alternate bids are

specifically requested. A person, firm, or corporation who has submitted a sub-proposal to a bidder, or who has quoted prices of materials to a bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other bidders.

- 15) Additive Bid Items: If additive bid items are called for, the Contract may be awarded at the election of the Governing Board to the lowest responsible bidder on the base bid, or on the base bid and any additive or combination of additives.
- 16) Award of Contract: Award of the contract, if awarded, will be made to the lowest responsive, responsible Bidder who's Bid complies with the requirements of the Contract Documents. Unless otherwise specified, any such award will be made within the period stated in the Notice Inviting Bids that the bids are to remain open. Unless otherwise indicated, a single award will be made for all the Bid items in an individual Bid Schedule. In the event the work is contained in more than one Bid Schedule, the owner may award Schedules individually or in combination. In the case of two or more Bid Schedules which are alternative to each other, only one of such alternative schedules will be awarded.
  - 2) Before a Bid is considered for award, the OWNER may, in addition to the Experience Qualifications form, require a Bidder to submit a statement of facts and detail as to his business, technical organization and financial resources and equipment available and to be used in performing the work. Additionally, the OWNER may require evidence that the Bidder has performed other work of comparable magnitude and type. The OWNER expressly reserves the right to reject any Bid if it determines that the business and technical organization, equipment, financial and other resources or other experience of the Bidder (including the Bidder's subcontractors) is not sufficiently qualified for the work bid upon and, therefore, justifies such rejection.
- 17) Return of Bid Security: Within 14 days after award of the contract, the owner will, if requested, return the Bid securities accompanying such Bids that are not being considered in making the award. All other Bid securities will be held until the Agreement has been finally executed. They will then be returned, if requested, to the respective Bidders who's Bids they accompany.
- 18) Lowest Responsible Bidder: In selecting the lowest responsible bidder, consideration will be given to the general competency of the bidder for the performance of the work covered by the bid. To receive favorable consideration, a bidder will be required to present evidence that he/she has successfully performed similar work of comparable magnitude or submit other evidence satisfactory to the OWNER that Bidder or his/her associates are personally competent to manage the proposed undertaking and to carry it forward to a successful conclusion. Professional integrity and honesty of purpose shall be essential requirements.
- 19) Local Conditions: Bidders shall read the Specifications, examine the reference drawings, inspect the project site, and make their own estimates of the existing facilities and the difficulties which will attend the execution of the work called for by the proposed contract, including local conditions, uncertainty of weather, project difficulty, and all other contingencies.

Bidders shall satisfy themselves by personal examination of the location of the proposed Work, and by such other means as they may choose as to actual conditions, actual quantities, and requirements and as to the accuracy of the quantities stated in the Bid Schedule. Information derived from the maps, plans, Specifications, profiles, or drawings, or from the Engineer or his/her assistants, shall not relieve the Bidder of this responsibility.

Bidders shall not at any time after the submittal of a bid make or have any claim for damages or anticipated profits or loss of profit or otherwise because of any difference between the quantities of work actually done and material furnished and the unit price stated in the Bid Schedule. **Bidders are encouraged to attend a pre-bid conference at the date, time, and location specified in the Notice Inviting Bids.**

- 20) Substitution of Materials: All materials are mentioned as standards. Should a Contractor desire to substitute materials or methods for those specified, he shall state on a separate sheet attached to his bid the price deduction he will make if such a substitution is accepted in material and/or method. Such substitution submittal, however, may not be used in the determination of the lowest qualified bidder. Question of all such substitution shall be determined prior to the award of the Contract, as no substitution will be permitted after the Contract is signed unless approved in writing by the Engineer.
- 21) Payments: Payments to the Contractor on account of the Contract shall be made in accordance with the terms set forth in Article 1.7, Section 20104.5 of the State Public Contract Code, General Conditions and Supplementary General Conditions.
- 22) Execution of Contract: The apparent successful bidder shall execute a written Contract on the Form of Agreement attached hereto, secure the payment of workmen's compensation, furnish good and approved bonds, and proof of specified insurance as required in the following Articles, all in accordance with the provisions hereof within 15 calendar days or such additional time as may be allowed by the Engineer from the date of the mailing of a notice of award of bid according to the address given by him, of the acceptance of his proposal. If a bidder to whom award is made fails or refuses to enter into Contract as herein provided, or to conform to any of the stipulated requirements in connection therewith, the money represented by Bidder's security check or Bond shall be forfeited to the OWNER, the award will be annulled, and at the discretion of the OWNER the Contract may be awarded to the next lowest bidder; and such bidders shall fulfill every stipulation embraced herein as if he were the party to whom the first award was made. A corporation to which an award is made may be required, before the Contract is finally executed, to furnish evidence of its corporate existence, of its right to do business in California, and of the authority of the officer signing the Contract and bonds for the corporation.
- 23) Bonds: A bidder to whom the Contract is awarded shall, within the time mentioned in the preceding Article, furnish a bond with a responsible corporate surety or corporate sureties conditioned upon the faithful performance of the said bidder of all covenants and stipulations in the Contract. Said bond is hereinafter referred to as the Faithful Performance Bond. Within the time mentioned in the preceding Article, the bidder to whom the Contract is awarded shall furnish such faithful performance bond, and shall also furnish a Payment Bond within said time frame. The Faithful Performance Bond and the Payment Bond shall be in the form approved by the OWNER and in the amount stipulated in the GENERAL CONDITIONS.

The surety or sureties on all bonds furnished must be satisfactory to the OWNER. The party required to furnish bonds pursuant to these instructions shall furnish such bonds at his/her own cost and expense. The OWNER reserves the right to reject any bond if, in the opinion of the Engineer, the sureties' acknowledgment is not in the form included within the Contract Documents or in another form substantially as prescribed by law.

- 24) Insurance Policies and Bonds: Attention is directed to the provisions of the Insurance Code of the State of California with reference to the writing of insurance policies and bonds covering risks located in this state, and the premiums and commissions thereon. A bidder to whom the Contract is awarded shall furnish, at the time his bond or bonds are submitted for approval, satisfactory evidence that the requirements of said Code have been observed, including proof of unemployment insurance. The required bonds must be provided only by surety insurer who is duly admitted by the Insurance Commissioner of the State of California.
- 25) Liability Insurance: Before the Contract is executed on behalf of the OWNER, a bidder to whom the Contract has been awarded shall furnish to the OWNER the necessary policy or certificate of liability insurance in which the OWNER and the Engineer shall be named as additional insureds with the bidder in the amount specified in the SUPPLEMENTARY GENERAL CONDITIONS, ARTICLE 11, entitled "Insurance." The policy shall insure the OWNER, the Engineer, the OWNER's officers and employees, the bidder, his employees and his Subcontractors and their employees, and their heirs, agents, and employees, while acting within the scope of their duties, against all claims arising out of or in connection with the work to be performed and shall remain in full force and effect until the work is accepted by the OWNER. The Policy shall provide for the limits stated with any insurance policy carried out by the OWNER.
- 26) Assignment of Contract: No assignment by the Contractor of any contract to be entered into in accordance with the Notice Inviting Bids and these Instructions to Bidders, or any part thereof, or of funds to be received thereunder, will be recognized by the awarding authority unless such assignment has had prior approval of the awarding authority and the surety has had notice of such assignment in writing and has given his/her written consent thereto.
- 27) Non-Collusion Affidavit: Section 7106 of the Public Contract Code requires that each bidder execute a Non-collusion Affidavit on all public works contracts. Bidder shall execute the Non-collusion Affidavit included with the Contract Documents and submit it to the OWNER with the Proposal.
- 28) Disqualification of Bidder: If there is a reason to believe that collusion exists among any of the bidders, none of the bids of the participants in such collusion will be considered, and the OWNER may likewise elect to reject all bids received.
- 29) Rejection of Proposals: The OWNER reserves the right to reject any proposals which are incomplete, obscure, or irregular, any proposals which omit a bid on any one or more items for which bids are required; any proposals which omit unit prices if unit prices are required; any proposal in which unit prices are unbalanced in the opinion of the OWNER; any proposals accompanied by insufficient or irregular proposal guaranty; and any proposals from bidders who have previously failed to perform properly or to complete contracts of any nature on time.
- 30) Relief of Bidders: Attention is directed to the provisions of Public Contract Code Section 5100, et seq., concerning relief of bidders, and in particular to the requirement therein that if a bidder claims a mistake was made in its bid, the bidder shall give the OWNER written notice within five (5) calendar days after the opening of the bids of the alleged mistake, specifying in the notice, in detail, how the mistake occurred.

- 31) Debarred Contractors and Subcontractors: No contractor or subcontractor who is ineligible to bid work on, or be awarded, a public works project under Labor Code sections 1771.1 or 1777.7 can bid on, be awarded or perform work as a subcontractor on the Project. The Contractor is prohibited from performing work on the Project with a subcontractor who is ineligible to perform work on a public works project under these sections of the Labor Code.
- 32) Taxes: Bid prices shall include all applicable federal, state, and local taxes.
- 33) Bid Protest Procedures: Any bid protest relating to the form or content of the bidding or Contract Documents must be submitted in writing to the OWNER, LOS OSOS COMMUNITY SERVICES DISTRICT, 2122 9TH STREET, SUITE 110, LOS OSOS, CA 93402 at least ten (10) business days before the original date set for the bid opening. Any bidder who submits a bid shall be deemed to have waived any protest to the form or content of the bidding or Contract Documents.

Any bid protest relating to the award of the contract for the work must be submitted in writing to Owner at the address specified above. The protest must be received before 5:00 p.m. of the third business day following bid opening.

The initial protest document shall contain a complete statement of the basis for the protest. The protest shall refer to the specific portion(s) of the bid documents which forms the basis for the protest. The protest shall include the name, address and telephone number of the person representing the protesting party.

The party filing the protest shall concurrently transmit a copy of the initial protest document and any attached documentation to all other parties who have a direct financial interest that may be adversely affected by the outcome of the protest. Such parties shall include all other bidders or proposers who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest. The documents shall be transmitted by fax or overnight mail.

The procedure and time limits set forth in this paragraph are mandatory and are the Bidder's sole and exclusive remedy in the event of bid protest. Failure to comply with these procedures shall constitute a waiver of any right to further pursue the bid protest, including filing a Government Code claim or legal proceedings.

- 34) Items Required for a Completed Proposal:
- a) Signed Proposal Form
  - b) Experience Qualifications Form
  - c) Bid Schedule (acknowledge addenda, if any)
  - d) Contractor's Licensing Statement
  - e) List of Subcontractors
  - f) List of Material/Equipment Suppliers
  - g) Acknowledgment of Insurance Requirements
  - h) Bid Security Form and Bid Bond
  - i) Non-Collusion Affidavit
  - j) Certificate of Bidder Regarding Affirmative Action Program
  - k) Proof of Worker's Compensation Insurance
  - l) One photo copy of each license required by these Instructions to Bidders

m) References (or other information)

**END INSTRUCTIONS TO BIDDERS**

## PROPOSAL

LOS OSOS COMMUNITY SERVICES DISTRICT  
2122 9TH STREET, SUITE 110  
LOS OSOS, CA 93402

Board of Directors:

The undersigned hereby proposes to perform all work for which a contract may be awarded to it and to furnish any and all supervision, plant, labor, services, material, accessories, tools, equipment, supplies, transportation, utilities, and all other items and facilities necessary therefore as provided in the Contract Documents, entitled:

### **SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**

together with all appurtenances thereto, all as set forth in the Contract Documents including Addenda \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_; and further proposes and agrees that, if its Proposal is accepted, it will contract in the form and manner stipulated to perform all the work called for in the Contract Documents, and to complete all such work in strict conformity therewith within the time limits set forth therein, and that it will accept as full payment therefore the price or prices set forth in the Bid Schedule forming a part hereof.

A bid bond or cashiers/certified check properly made payable to:  
LOS OSOS COMMUNITY SERVICES DISTRICT

hereinafter designated as the OWNER, for the sum of:

\_\_\_\_\_ dollars (\$ \_\_\_\_\_), which amount is not less than 10 percent of the total amount of the bid, is attached hereto and is given as a guarantee that the undersigned will execute the Agreement and furnish the required bonds and insurance if awarded the contract and, in case of failure to do so within the time provided, the proceeds of said check shall be forfeited to the OWNER.\*

\* Sureties or surety liability to the OWNER for forfeiture of the face amount of the bond shall be considered as established.

It is understood and agreed that:

1. The undersigned has carefully examined all of the documents contained in the Table of Contents and which shall comprise those documents specifically referred to in ARTICLE 4 of the Agreement;
2. The undersigned has, by investigation at the site the Work and otherwise, satisfied itself as to the nature, location, and quantity of the Work and has fully informed itself as to all conditions and matters which can in any way affect the Work or the cost thereof;
3. The undersigned fully understands the scope of the Work and has checked carefully all words and figures inserted in its Proposal and further understands that the OWNER will in no way be responsible for any errors or omissions in the preparations of this Proposal;

4. The undersigned will execute the Agreement and furnish the required Performance and Payment Bonds and proof of the specified insurance coverage within the time frame specified in Articles 22 through 25 of the Instructions to Bidders. This Proposal may not be withdrawn for a period of time specified in Article 10 of the Instructions to Bidders, unless otherwise required by law. If any bidder shall withdraw its bid within said period, the Bidder shall be liable under the provisions of the Bid Security, or the Bidder and its Surety shall be liable under the Bid Bond, as the case may be;
5. The undersigned hereby certifies that this Proposal is genuine and not sham or collusive or made in the interest or in behalf of any person not herein named, and the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid, or any other person or corporation to refrain from bidding; the undersigned has not in any manner sought by collusion to secure for itself an advantage over any other bidder;
6. In conformance with the current statutory requirements of Section 1860 et. seq. of the Labor Code of the State of California, the undersigned confirms the following as his or her certification:

I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self insurance in accordance with the provisions before commencing the performance of the Work of this contract.

7. The undersigned has submitted the following with this proposal as required for a completed bid:
  - a) Signed Proposal Form
  - b) Experience Qualifications Form
  - c) Bid Schedule (acknowledge addenda, if any)
  - d) Contractor's Licensing Statement
  - e) List of Subcontractors
  - f) List of Material/Equipment Suppliers
  - g) Acknowledgment of Insurance Requirements
  - h) Bid Security Form and Bid Bond
  - i) Non-Collusion Affidavit
  - j) Certificate of Bidder Regarding Affirmative Action Program
  - k) Proof of Worker's Compensation Insurance
  - l) One photo copy of each license required by these Instructions to Bidders
  - m) References (or other information)

NOW: In compliance with the Notice Inviting Bids and all the provisions herein before stipulated; the undersigned with full cognizance thereof, hereby proposes to perform the entire Work for the prices set forth in the attached Bid Sheet(s) upon which award of contract is based.

Dated \_\_\_\_\_

Bidder \_\_\_\_\_

Bidders Post Office Address

By \_\_\_\_\_

\_\_\_\_\_

License number, expiration date

\_\_\_\_\_

Title \_\_\_\_\_

\_\_\_\_\_

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**EXPERIENCE QUALIFICATIONS**

(To Accompany Proposal)

The bidder has been engaged in the contracting business, under the present business name, for 5 years. Experience in work of a nature similar to that covered in the proposal extends over a period of 5 years.

The bidder, as a contractor, has never failed to satisfactorily complete a contract awarded to him, except as follows:

\_\_\_\_\_

The following contracts have been satisfactorily completed in the last three (3) years for the persons, firm, or authority indicated, and to whom reference is made:

<b>YEAR</b>	<b>TYPE OF WORK</b>	<b>CONTRACT AMOUNT</b>	<b>LOCATION AND FOR WHOM PERFORMED</b>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

The following is a list of a plant and equipment owned by the bidder, which is definitely available for use on the proposed work as required:

<b>QUANTITY</b>	<b>NAME, TYPE, AND CAPACITY</b>	<b>CONDITION</b>	<b>LOCATION</b>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Signed: \_\_\_\_\_

Title: \_\_\_\_\_  
(Same as for signature on proposal)

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## BID SCHEDULE

### LOS OSOS COMMUNITY SERVICES DISTRICT SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT

Refer to Section 01 20 00, Price and Payment Procedures, for further definitions of the bid items in this Bid Schedule.

	Item (includes installation)	Units	Quantity	Unit Price	Item Price
1	Mobilization/demobilization. Includes well permit application, encroachment permit application, traffic control/signage and other applicable provisions per encroachment permit, work area demarkation.	Lump Sum	1		
2	Sweet Springs #1: Drill nominal 18-inch borehole and cement 10-inch SDR 21 PVC conductor casing to 50 feet depth	Linear feet	50		
3	Sweet Springs #1: nominal 9-inch diameter borehole from base of conductor to 500 feet depth.	Linear feet	450		
4	Sweet Springs #1: Run borehole hole geophysical logs (SP, long and short normal, LL3, gamma ray, sonic).	Lump Sum	1		
5	Sweet Springs #1: 2.5-inch diameter, Sch 80 PVC with blank from wellhead to 440 feet depth, 2.5-inch diameter, 0.020-inch perforations from 440 to 480 feet depth, and blank from 480 to 490 feet depth with end cap.	Linear feet	490		
6	Sweet Springs #1 and #2: Centralizers (top and bottom of each screen).	Each	4		
7	Sweet Springs #1: coated time release bentonite pellet seals from 400 to 420 feet.	Linear feet	20		
8	Sweet Springs #1: Filter pack (8 x 20 sand) from 420 to 500 feet depth.	Linear feet	80		
9	Sweet Springs #1: High-solids bentonite grout seal from wellhead to 400 feet depth.	Linear feet	400		
10	Sweet Springs #2: Drill nominal 18-inch borehole and cement 10-inch SDR 21 PVC conductor casing to 50 feet depth	Linear feet	50		
11	Sweet Springs #2: Drill nominal 9-inch diameter borehole from bottom of conductor to 380 feet depth (no geophysics).	Linear feet	330		
12	Sweet Springs #2: 2.5-inch diameter, Sch 80 PVC with blank from wellhead to 320 feet depth, 0.020-inch perforations from 320 to 360 feet depth, and blank from 360 to 370 feet depth with end cap.	Linear feet	370		
13	Sweet Springs #2: Filter pack (8 x 20 sand) from 300 to 380 feet depth.	Linear feet	80		
14	Sweet Springs #2: Coated time release bentonite pellet seals from 280 to 300 feet depth.	Linear feet	20		
15	Sweet Springs #2: High-solids bentonite grout seal from wellhead to 280 feet depth.	Linear feet	280		
16	Sweet Springs #1 and #2: Air-lift well development (1 hour each).	Hour	2		
17	Sweet Springs #1 and #2: Development water containment and percolation on-site.	Lump Sum	1		
18	Sweet Springs #1 and #2: 8-inch diameter traffic rated monitoring well box with locking well plugs and concrete pad.	Lump Sum	2		
19	Sweet Springs #1 and #2: Drilling fluid and cuttings disposal.	Lump Sum	1		
	<b>TOTAL</b>				
20	Abandon test hole if necessary (do not add to total).	Linear feet	880		

Total Base Bid Amount in Words: \_\_\_\_\_

Signature of Bidder: \_\_\_\_\_ Date: \_\_\_\_\_

The undersigned agrees to perform, for the benefit of the OWNER, the work itemized herein, and in accordance with all San Luis Obispo County, State, and Federal laws.

All materials and equipment used in the execution of the described work shall comply with all applicable State and Federal codes, regulations and requirements.

The Contractor shall verify all measurements and submit a unit price for the facilities shown above. Payment will be made on a unit price basis.

The Work to be performed described in the above BID SCHEDULE shall consist of furnishing all plant, tools equipment, materials, supplies, and manufactured articles and furnishing all labor, transportation, and services, including fuel, power, water, and essential communications, and performing all Work, or other operations required for the fulfillment of the Contract in strict accordance with the Contract Documents.

The quantities of work or material stated in the Unit Price Items of the Bid Schedule are supplied only to give an indication of the general scope of the work; the OWNER does not expressly or by implication agree that the actual amount of work or material will correspond therewith, and reserves the right after award to increase or decrease the amount of any Unit Price Item of the work by an amount up to and including 25 percent of any Bid Item, without a change in the Unit Price, and shall have the right to delete any Bid Item in its entirety, or to add additional Bid Items up to and including an aggregate total amount not to exceed 25 percent of the Contract Price.

The receipt of the following addenda to the Specifications is acknowledged:

Addendum No. \_\_\_\_\_ Date \_\_\_\_\_ Addendum No. \_\_\_\_\_ Date \_\_\_\_\_

Addendum No. \_\_\_\_\_ Date \_\_\_\_\_ Addendum No. \_\_\_\_\_ Date \_\_\_\_\_

The representations made herein are made under penalty of perjury.

Dated: \_\_\_\_\_ Bidder: \_\_\_\_\_

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

Contractor's License No. & Expiration Date: \_\_\_\_\_

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

**END OF BID SCHEDULE**

## CONTRACTOR'S LICENSING STATEMENT

The undersigned is licensed in accordance with the laws of the State of California providing for the registration of Contractors, including Department of Industrial Relations (DIR) registration requirements mandated by California Labor Code Section 1725.5.

Contractor's License Classification and number: \_\_\_\_\_

Name of individual contractor (print or type): \_\_\_\_\_

Signature of Owner: \_\_\_\_\_

Business address: \_\_\_\_\_

Business telephone: \_\_\_\_\_

or

Name of Firm: \_\_\_\_\_

Business address: \_\_\_\_\_

Business telephone: \_\_\_\_\_

Signature, title, and address of members signing on behalf of partnership:

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

Address: \_\_\_\_\_

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

Address: \_\_\_\_\_

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

Address: \_\_\_\_\_

or

Name of Corporation: \_\_\_\_\_

Business address: \_\_\_\_\_

Corporation organized under the laws of the State of: \_\_\_\_\_

\_\_\_\_\_  
Signature of the President  
of the Corporation

\_\_\_\_\_  
Signature of the Secretary  
of the Corporation

Contractor's License number is: \_\_\_\_\_

The License expiration date is: \_\_\_\_\_

The representations made herein are made under penalty of perjury.

Authorized Signature of Contractor or Corporation \_\_\_\_\_

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**LIST OF SUBCONTRACTORS**

In accordance with the provisions of Section 4100 and 4104 et. seq. of the Government Code of the State of California, the bidder shall, in its bid, list the name, License Number and Classification, and place of business of each subcontractor who will perform work or labor or render service to the prime contractor in an amount in excess of one-half of 1 percent of the prime contractor's total bid, including the percentage of Prime Contractor's total base bid.

<b>Name Under which Subcontractor is Licensed</b>	<b>License No. and Classification</b>	<b>Address of Office, Mill or Shop</b>	<b>Percent of Total Bid</b>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

NOTE: Do not list alternative subcontractors for same work.

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### LIST OF MATERIAL/EQUIPMENT SUPPLIERS

Name the manufacturer or manufacturers of the items listed below and every major product or major piece of equipment whose cost exceeds fifteen percent (15%) of the total bid amount.

In addition, the bidder is required to fill out the following blanks, listing manufacturers from whom it intends to purchase the indicated items and which selections will be considered as binding upon the Bidder, provided that all such selections shall comply with the provisions of the Contract Documents, and may not be changed by the bidder without written approval of the Engineer.

<b>Item</b>	<b>Material</b>	<b>Manufacturer</b>
1.	<hr/> <hr/>	<hr/> <hr/>
2.	<hr/> <hr/>	<hr/> <hr/>
3.	<hr/> <hr/>	<hr/> <hr/>
4.	<hr/> <hr/>	<hr/> <hr/>
5.	<hr/> <hr/>	<hr/> <hr/>
6.	<hr/> <hr/>	<hr/> <hr/>
7.	<hr/> <hr/>	<hr/> <hr/>

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**BID SECURITY FORM**

(Check to accompany bid)

(Note: The following form shall be used when a check accompanies bid in lieu of a bid bond.)

Accompanying this proposal is a \_\_\_\_\_ \*Certified \_\_\_\_\_ \*Cashier's check made payable to the order of LOS OSOS COMMUNITY SERVICES DISTRICT hereinafter referred to as "OWNER," for

\_\_\_\_\_ dollars (\$\_\_\_\_\_), this amount being 10 percent of the total amount of the bid. The proceeds of this check shall become the property of said OWNER provided this proposal shall be accepted by the said OWNER through action of its legally constituted contracting authorities and the undersigned shall fail to execute a contract and furnish the required Performance Bond and proof of insurance coverage within the stipulated time; otherwise, the check shall be returned to the undersigned for a period of 60 calendar days from receipt of the award of bid. The proceeds of this check shall also become the property of the OWNER if the undersigned shall withdraw his bid within the period specified in Article 10 of the Instructions to Bidders, unless otherwise required by law, and notwithstanding the award of the Contract to another bidder.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Bidder

\*Delete the inapplicable word

NOTE: If the bidder desires to use a bond instead of check, the Bid Bond form on the following page shall be executed. The sum of this bond shall be not less than 10 percent of the total amount of the bid.

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**BID SECURITY FORM**

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS:

That we, \_\_\_\_\_ as principal and \_\_\_\_\_ as surety, are held and firmly bound unto LOS OSOS COMMUNITY SERVICES DISTRICT hereinafter referred to as "OWNER," for the sum of \_\_\_\_\_ dollars, (\$\_\_\_\_\_), the amount being 10 percent at least of the total amount of the bid, to be paid to the said OWNER, its successors, and assigns; for which payment, will and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the certain proposal of the above bounden for the completion of the **SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT** as specifically set forth in documents entitled Contract Documents and Specifications for the **SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT** is not withdrawn within the period specified in Article 10 of the Instructions to Bidders, unless otherwise required by law, and notwithstanding the award of the contract to another bidder, and that if said proposal is accepted by the OWNER through action of its legally constituted contracting authorities and if the above bounden his/her heirs, executors, administrators, successors and assigns, shall duly enter into and execute a contract for such construction and shall execute and deliver the required Performance and Payment Bonds and proof of insurance coverage within 15 calendar days (not including holidays) after the date of notification by and from the said OWNER that the said Contract is ready for execution, then this obligation shall become null and void; otherwise it shall be and remain in full force and virtue.

IN WITNESS WHEREOF, we hereunto set our hands and seals this day of

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

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

Note: The standard printed bond form of any bonding company acceptable to the OWNER may be used in lieu of the foregoing approved sample bond form provided the security stipulations protecting the OWNER are not in anyway reduced by use of the surety company's printed standard form.

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**ACKNOWLEDGMENT OF INSURANCE REQUIREMENTS**

By signing below, Bidder acknowledges the insurance requirements as listed in the General Conditions, Article 6 – Bonds and Insurance, and Supplementary General Conditions, Article 11 – Insurance (including providing Unemployment Insurance payments as required by U.S. Department of Labor). By this acknowledgment, the Bidder and its insurance provider(s) and surety(ies) certify that they have read and understand the insurance and bonding requirements in their entirety, including limits of coverage, additional insureds and endorsements, and bonding requirements, and that the Bidder can provide the insurance coverage and bonds as required in the Contract documents without exception.

Bidder understands that if the insurance coverage provided in these referenced Sections above cannot be provided, its bid is subject to rejection by the Owner as non-responsive.

BIDDER

Company Name: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

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

Date: \_\_\_\_\_

INSURANCE PROVIDER/SURETY REPRESENTATIVE

Insurer/Surety Name: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

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

Date: \_\_\_\_\_

**Bidder Must Provide This Acknowledgment for Each Insurer or Surety Providing Insurance Coverage or a Bond under this Contract**

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**NON-COLLUSION AFFIDAVIT**

TO BE EXECUTED BY EACH BIDDER OF A PRINCIPAL CONTRACT, STATE OF CALIFORNIA)

\_\_\_\_\_) SS  
\_\_\_\_\_)

I, \_\_\_\_\_, being first duly sworn, deposes and says that

he/she is \_\_\_\_\_  
(sole owner, a partner, president, secretary, etc.)

of \_\_\_\_\_

the party making the foregoing bid; that such bid is not made in the interest of, or on behalf of any undisclosed person, partnership, company association, organization, or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, nor that anyone shall refrain from bidding; that said bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of said bidder or of any other bidder, not to fix any overhead, profit, or cost element of such bid price, nor of that of any other bidder, nor to secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in such bid are true; and further, that said bidder has not directly or indirectly, submitted his/her bid price or any breakdown thereof, nor the contents thereof, nor divulged information or data relative thereto, nor paid and will not pay fee in connection therewith to any corporation, partnership, company, association, organization, bid depository, nor to any member or agent thereof, nor to any other individual except to such person or persons as have a partnership or their financial interest with said bidder in his/her general business.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on \_\_\_\_\_ [date], at \_\_\_\_\_ [city], \_\_\_\_\_ [state]."

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

Subscribed and sworn to before me on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

Seal of Notary

Notary Public \_\_\_\_\_

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**CERTIFICATE OF BIDDER REGARDING**

**AFFIRMATIVE ACTION PROGRAM**

The Bidder hereby certifies that he or she is in compliance with the Civil Rights Act of 1964, Executive Order No. 11246, the California Fair Employment Practices Act of 1964, Executive Order No. 11246, The California Fair Employment Practices Act, and all other applicable Federal and State laws and regulations relating to equal opportunity employment, including Federal Water Pollution Control Act Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, related to prohibition of discrimination on the basis of race, color, national origin, sex, disability or age.

Bidder's Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Name and Title of Signer: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

(The above certification of the Bidder regarding its affirmative action program shall be filled out completely, signed and submitted by each bidder and shall be part of the Contract Documents.)

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**WORKER'S COMPENSATION INSURANCE CERTIFICATE**

Prior to execution of the Contract Agreement, the Contractor shall execute the following form as required by Sections 1860 and 1861 of the California Labor Code:

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of said Code, and I will comply with such provisions before commencing the performance of the Work of this Contract.

Date: \_\_\_\_\_

Contractor \_\_\_\_\_

By \_\_\_\_\_  
(Signature)

Title \_\_\_\_\_

Attest:

By \_\_\_\_\_  
(Signature)

Title \_\_\_\_\_

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**AGREEMENT**

**LOS OSOS COMMUNITY SERVICES DISTRICT**

**SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**

This Agreement, made and entered into this \_\_\_\_\_ day of 20\_\_\_\_, at \_\_\_\_\_, California, by and between the LOS OSOS COMMUNITY SERVICES DISTRICT referred to as the "OWNER", and \_\_\_\_\_ hereinafter referred to as the "Contractor."

WHEREAS, the Contractor, as will appear by reference to the records of the Proceedings of the OWNER, was duly awarded the Contract for the Work hereinafter mentioned.

NOW, THEREFORE, IT IS HEREBY AGREED THAT:

ARTICLE 1 - Witness to, that for and in consideration of the payment and agreements hereinafter mentioned, to be made and performed by said OWNER, and under the conditions expressed in the two bonds, bearing even date with these present, and hereunto annexed, said Contractor agrees with said OWNER, at its own cost and expense, to do all the work and furnish all materials, except such as are mentioned in the Contract Documents to be furnished by the OWNER, necessary to construct and complete in good, workmanlike and substantial manner for the below described work in accordance with the Contract Documents as listed herein and are by such reference made a part hereof.

The work generally consists of the following: The work is comprised of provide two groundwater monitoring wells, located in Los Osos, CA, as specified herein and as shown on the Contract Documents.

ARTICLE 2 - The said OWNER hereby promises and agrees with the said Contractor to employ, and does hereby employ, the said Contractor to provide the materials and to do the work according to the terms and conditions herein contained and referred to, for the price aforesaid, and hereby contracts to pay the same at the time, in the manner, and upon the conditions above set forth; and the said parties for themselves, their heirs, executors, and administrators.

ARTICLE 3 - The said Contractor agrees to receive and accept the price stated in the preceding Bid Sheet as full compensation for furnishing all materials and for doing all the work contemplated and embraced in this Agreement; also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, or from any unforeseen difficulties or obstructions which may arise or be encountered in the prosecution of the work until its acceptance by the said OWNER and for all expenses incurred by or in consequence of the suspension or discontinuance of the Work; and for well and faithfully completing the Work, and the whole thereof in the manner and according to the requirements of the Contract Documents therefore, and the requirements of the Engineer under their terms, to wit. Refer to Article 4.6 of the Supplementary General Conditions for retention to be withheld from Progress Payments.

ARTICLE 4 - This contract constitutes the entire agreement of the parties. No other agreements, oral or written, pertaining to the work to be performed under this contract exist between the parties. This contract can be modified only by an agreement in writing signed by

both parties. It is also expressly agreed by and between the parties hereto that the Contract Documents shall consist of:

- Notice Inviting Bids
- Instructions to Bidders
- Bid Forms including the Bid, Bid Schedule(s), Information Required of Bidder, Bid Bond, Acknowledgment of Insurance Requirements, Designation of Subcontractors, Experience Qualifications, Contractor's Licensing Statement, List of Material/Equipment Suppliers, Non-collusion Affidavit, Certificate of Bidder Regarding Affirmative Action Program, Worker's Compensation Insurance Certificate, and all required certificates and affidavits
- Performance Bond
- Payment Bond
- General Conditions
- Supplementary General Conditions
- Technical Specifications
- Drawings as listed in the List of Drawings
- Addenda numbers \_\_\_\_\_ to \_\_\_\_\_, inclusive
- Change Orders which may be delivered or issued after Effective Date of the Agreement and are not attached hereto

There are no Contract Documents other than those listed in this Article 4. The Contract Documents may only be amended by Change Order as provided in Article 10 of the General Conditions.

ARTICLE 5 - Contractor agrees to commence work pursuant to this Contract on the date specified in the Notice to Proceed, and to diligently prosecute the same to completion within the time stipulated in the INSTRUCTIONS TO BIDDERS, Article 2.

ARTICLE 6 - The Contractor shall defend, indemnify and save harmless the OWNER, its officers, agents and employees from any and all claims, demands, damages, costs, expenses or liability occasioned by the performance or attempted performance of the provisions hereof.

ARTICLE 7 - If either party becomes involved in arbitration or litigation arising out of this contract or the performance of it, the court or tribunal in such arbitration or litigation or in a separate suit shall award reasonable costs and expenses of arbitration and litigation, including expert witness fees and attorney fees, to the prevailing party or parties.

ARTICLE 8 - No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought

to be bound; and specifically but without limitation monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

OWNER and Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents.

IN WITNESS WHEREOF, OWNER and Contractor have caused this Agreement to be executed the day and year first above written.

LOS OSOS COMMUNITY SERVICES DISTRICT      CONTRACTOR \_\_\_\_\_

TITLE OF OWNER \_\_\_\_\_

\_\_\_\_\_

By \_\_\_\_\_

By \_\_\_\_\_  
[CORPORATE SEAL]

Attest \_\_\_\_\_

Attest \_\_\_\_\_

Address for giving notices

Address for giving notices

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

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

License No. \_\_\_\_\_

Approved as to Form:

\_\_\_\_\_  
(Signature)

Agent for service of process: \_\_\_\_\_

\_\_\_\_\_  
(Title)

\_\_\_\_\_

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**PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS,

That I/we, \_\_\_\_\_ as Principal(s), are firmly bound unto the LOS OSOS COMMUNITY SERVICES DISTRICT in the sum of:

\_\_\_\_\_ dollars, said sum being 100 percent of the amount of the following described contract, to be paid to the said LOS OSOS COMMUNITY SERVICES DISTRICT, its successors and assigns; for which payment, will and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT,

WHEREAS, the Owner's Board of Directors, State of California, by formal action on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, awarded to said Principal, a contract for the:

**LOS OSOS COMMUNITY SERVICES DISTRICT  
SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**

in strict conformity with the Contract Documents, and whereas, said Principal, his or her heirs, executors, administrators, successors or assigns shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in the said Contract, and any alteration thereof made and therein provided, on his/her or their part, to be kept and performed at the time and in the manner therein specified and in all respects according to their true intent and meaning, and shall indemnify and save harmless the OWNER, its officers and agents, as therein stipulated, then this obligation shall become null and void; otherwise it shall remain in full force and effect.

And the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder shall in any way affect its obligations on the bond, and it does hereby waive notice of any change, extension of time, alteration, or addition in terms of the Contract or to the Work.

IN WITNESS WHEREOF, this instrument has been duly executed by the Principal and Surety above named, on the \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

Contractor \_\_\_\_\_ Surety \_\_\_\_\_  
By \_\_\_\_\_ By \_\_\_\_\_  
Title \_\_\_\_\_ Title \_\_\_\_\_

(SEAL AND NOTARIAL ACKNOWLEDGMENT OF SURETY)

NOTE: Signature of person executing for the Surety must be properly acknowledged.

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**PAYMENT BOND**

KNOW ALL MEN BY THESE PRESENTS,

That we, \_\_\_\_\_ hereinafter referred to as "Contractor," as principal, and \_\_\_\_\_ as surety, are held and firmly bound unto OWNER in the sum of: \_\_\_\_\_ dollars (\$\_\_\_\_\_), lawful money of the United States of America, for the payment of which sum, well and truly to be made, we bind ourselves, jointly and severally, firmly by these presents.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH THAT:

WHEREAS, said Contractor has been awarded and is about to enter into a Contract with said LOS OSOS COMMUNITY SERVICES DISTRICT for the **SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT** as specifically set forth in documents entitled, "Contract Documents and Specifications for LOS OSOS COMMUNITY SERVICES DISTRICT – **SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT** and is required under the terms of the Contract to give this bond in connection with the execution of said Contract;

NOW, THEREFORE, if said Contractor, his Subcontractors, his or its heirs, executors, administrators, successors, or assigns, shall fail to pay for any materials, provisions, provender, equipment or other supplies used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Code or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of employees of the Contractor and his Subcontractors pursuant to Section 18806 of the Revenue and Taxation Code with respect to such labor, all as required by the provisions of Title XV, Chapter 7, Sections 3247-3252 inclusive, of the Civil Code of the State of California and acts amendatory therefore, and sections of other codes of the State of California referred to therein and acts amendatory thereof, and provided that the person, companies or corporations so furnishing said materials, provisions, provender, equipment or other supplies, appliances or power used in, upon, for or about performance of the work contracted to be executed or preformed, or any person, company or corporation renting or hiring implements or machinery or power for or contributing to said work to be done, or any person who performs work or labor upon the same, or any person who supplies both work and materials therefore, shall have complied with the provisions of said laws, then said surety will pay the same in an amount not exceeding the sum herein above set forth and also will pay, in case suit is brought upon this bond, a reasonable attorney's fee as shall be fixed by the court. This bond shall insure to the benefit of any and all persons named in Section 3181 of the Civil Code of the State of California so as to give a right of action to them or their assigns in any suit brought upon this bond.

PROVIDED, that any alterations in the work to be done, or the material to be furnished, which may be made pursuant to the terms of said Contract, shall not in any way release either the Contractor or the surety thereunder, nor shall any extensions of time granted under the

provisions of said contract release either the Contractor or the surety, and notice of such alterations or extensions of the Contract is hereby waived by the surety.

WITNESS our hands this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_.

Contractor \_\_\_\_\_ Surety \_\_\_\_\_

By \_\_\_\_\_ By \_\_\_\_\_

Title \_\_\_\_\_ Title \_\_\_\_\_

Signature of person executing for the Surety must be properly acknowledged.

**NOTICE OF AWARD**

Date: \_\_\_\_\_, 20 \_\_\_\_\_

To: \_\_\_\_\_  
(Bidder)

Project: LOS OSOS COMMUNITY SERVICES DISTRICT, SWEET SPRINGS  
GROUNDWATER MONITORING WELLS PROJECT

You are hereby notified that your bid dated \_\_\_\_\_, 20\_\_\_\_\_ for the above Contract has been considered. You are the apparent successful bidder and have been awarded a contract for:

\_\_\_\_\_  
(Indicate "Total Work", alternates, or sections of Work awarded)

The Contract Price of your contract is \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), corresponding to Bid Schedule \_\_\_\_ in the Bid Documents.

You must comply with the following conditions within fifteen (15) calendar days of the date of this Notice of Award, that is, by \_\_\_\_\_, 20\_\_\_\_\_.

1. You must deliver to the OWNER three fully executed counterparts of the Agreement including all the Contract Documents.
2. You must deliver with the executed Agreement the Contract Security Bonds as specified in the Instructions to Bidders, ARTICLE 23; GENERAL CONDITIONS, ARTICLE 5.
3. You must also deliver certificates of insurance as specified in the Instructions to Bidders, ARTICLE 24 and 25; GENERAL CONDITIONS, ARTICLE 5; and SUPPLEMENTARY GENERAL CONDITIONS, ARTICLE 11 (including proof of Unemployment Insurance payments)\*.
4. (List other conditions precedent.)

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

Failure to comply with these conditions within the time specified will entitle the OWNER to consider your bid abandoned, to annul this Notice of Award, and to declare your Bid Security forfeited. Within fifteen (15) calendar days after you comply with these conditions, the OWNER will return to you one fully signed counterpart of the Agreement with the Contract Documents attached.

By \_\_\_\_\_  
GREG KWOLEK, GENERAL MANAGER

*\*Proof of Unemployment Insurance may be in the form of Company tax or payroll documentation, or other suitable documentation.*

Copy to the ENGINEER

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**NOTICE TO PROCEED**

Date: \_\_\_\_\_, 20\_\_\_\_\_

To: \_\_\_\_\_  
(Contractor)

Project: LOS OSOS COMMUNITY SERVICES DISTRICT  
SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT

You are notified that the Contract Time under the above contract will commence to run on \_\_\_\_\_, 20 \_\_\_\_\_. By that date, you are to start performing your obligations under the Contract Documents. In accordance with ARTICLE 2 of the Instructions to Bidders, the project is to be completed by \_\_\_\_\_ 20 \_\_\_\_\_.

The Contract provides for an assessment of liquidated damages of the sum stipulated in Article 6.1 of the Supplementary General Conditions, for each consecutive calendar day after the above established contract completion date that the work remains incomplete.

Before you may start any Work at the site, you must

(add any applicable requirements)

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

LOS OSOS COMMUNITY SERVICES DISTRICT

By: \_\_\_\_\_  
GREG KWOLEK, GENERAL MANAGER

Copy to ENGINEER

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**CHANGE ORDER**

Contract Changer Order No.  
Engineer's No. 0384-00011-00-00513

Date

---

**CONTRACT TITLE: SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**

---

CONTRACTOR:

---

DESCRIPTION OF CHANGES	NET CHANGE
<b>NET CHANGE IN CONTRACT PRICE</b>	<b>\$</b>
Original Contract Amount Total Previous Changes Amount of this Change New Contract Total  Change in Contract Time	\$ \$ \$\$

This document will become a supplement to the Contract and all provisions will apply hereto.

\_\_\_\_\_  
Recommended by ENGINEER

\_\_\_\_\_  
Date

\_\_\_\_\_  
Approved by CONTRACTOR

\_\_\_\_\_  
Date

\_\_\_\_\_  
Approved by OWNER

\_\_\_\_\_  
Date

## **CHANGE ORDER INSTRUCTIONS:**

- A. General Information: This document was developed to provide a uniform format for handling contract changes that affect Contract Price or Contract Time. Changes that have been initiated by a Work Directive Change must be incorporated into a subsequent Change Order if they affect Contract Price or Contract Time.
- B. Completing the Change Order Form: Engineer initiates the form, including a description of the changes involved and attachments based upon documents and proposals submitted by Contractor, or requests from OWNER, or both.

Once Engineer has completed and signed the form, all copies should be sent to Contractor for approval. After approval by Contractor, all copies should be sent to OWNER for approval. Engineer should make distribution of executed copies after approval by OWNER.

If a change only applies to either price or to time, cross out the part of the tabulation that does not apply.

**WORK DIRECTIVE CHANGE**  
(Instructions on reverse side)

No. \_\_\_\_\_

DATE: \_\_\_\_\_

PROJECT: SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT

CONTRACTOR:

ENGINEER: WALLACE GROUP (Project No. 0384-0011-00-00513)

You are directed to proceed promptly with the following change(s):

Description:

Attachments:

---

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Time:

Method of determining Contract Price:

---

RECOMMENDED:

AUTHORIZED:

By \_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

Title \_\_\_\_\_

## **WORK DIRECTIVE CHANGE INSTRUCTIONS**

### **A. GENERAL INFORMATION**

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplemental instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

### **B. COMPLETING THE WORK DIRECTIVE CHANGE FORM**

The Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between the Engineer and the Contractor, the Engineer completes the following:

**METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE:** Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable."

**METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME:** Mark the Method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Price, the space for estimated increase (decrease) should be marked "Not Applicable."

Once the Engineer has completed and signed the form, all copies should be sent to the OWNER for authorization because the Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by the OWNER, a copy should be sent by the Engineer to the Contractor.

Once the Work covered by this directive is completed or final cost and time determined, the Contractor should submit documentation for inclusion in a Change Order.

**THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER, IF ANY, SHOULD BE CONSIDERED PROMPTLY.**

**RECORDING REQUESTED BY AND WHEN RECORDED MAIL TO:**

Los Osos Community Services District  
2122 9<sup>th</sup> Avenue, Suite 110  
Los Osos, CA 93402

---

**NOTICE OF COMPLETION**

Project Title: **SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**

Date of Substantial Completion: \_\_\_\_\_

OWNER: \_\_\_\_\_ APN NO. [\_\_\_\_\_]

The Project or portion of The Project completed is: **SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**

Notice of Completion Date: \_\_\_\_\_

The location of The Project is: Los Osos, San Luis Obispo County, California

The work performed under this contract has been inspected by authorized representatives of the OWNER, the Contractor, and the Engineer, and the Project (or specified part of the Project, as indicated above) is hereby accepted by the OWNER and declared to be substantially completed on the above date.

Completion of the Work shall be the date of such acceptance of the Work by the OWNER, as provided under California Civil Code Section 3086. Completion shall mean substantial performance of the contract as such is defined in Black's Law Dictionary, Revised Fourth Edition, West Publishing Company.

A list of all items remaining to be completed or corrected is appended hereto. All such work shall be completed or corrected to the satisfaction of the OWNER within 30 calendar days, otherwise the Contractor does hereby waive any and all claims to all monies withheld by the OWNER under the Contract to cover the value of such uncompleted or uncorrected items.

**NO TRANSFERORS**

WALLACE GROUP  
Engineer

By \_\_\_\_\_  
Authorized Representative/Date  
Steven G. Tanaka, PE

Date: \_\_\_\_\_

The Contractor hereby accepts the above Notice of Completion and agrees to complete and correct all of the items on the appended list within 30 calendar days or waives all rights to any monies withheld therefor.

\_\_\_\_\_  
Contractor

By \_\_\_\_\_  
Authorized Representative/Date  
(PRINTED NAME HERE)

Date: \_\_\_\_\_

The OWNER accepts the project or specified area of the project as substantially completed and will assume full possession of the Project or specified area of the Project at \_\_\_\_\_(time), on \_\_\_\_\_(date). The responsibility for heat, utilities, security, and insurance under the Contract Documents will be assumed by the OWNER after that date.

I, the undersigned say: I am the GENERAL MANAGER of the declarant of the foregoing Notice of Completion; I have read said Notice of Completion and know the contents thereof; the same is true of my own knowledge. I declare under penalty of perjury that the foregoing is true and correct.

FOR THE OWNER

LOS OSOS COMMUNITY SERVICES DISTRICT  
2122 9TH STREET, SUITE 110  
LOS OSOS, CA 93402

By \_\_\_\_\_  
Authorized Representative/Date  
Greg Kwolek, General Manager

REMARKS: The following supplementary sheets listing such items remaining to be completed or corrected are hereby made a part of this document by this reference thereto.

**CONSENT OF SURETY - RETAINAGE  
Request for Adjustment of Retainage**

PROJECT TITLE \_\_\_\_\_ PROJECT NO \_\_\_\_\_

PROJECT MANAGER \_\_\_\_\_ CONTRACT NO. \_\_\_\_\_

RESIDENT PROJECT REPRESENTATIVE \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

The Contractor, \_\_\_\_\_, hereby requests

that the percentage of progress payment estimates retained by the OWNER under the provisions of the Contract

Documents be REDUCED to \_\_\_\_\_ % DISCONTINUED.  
(Delete inapplicable term)

by \_\_\_\_\_ Date \_\_\_\_\_  
Contractor Representative

The Surety on the Performance Bond for said Project \_\_\_\_\_ hereby approves the foregoing request.

Power of Attorney must be attached to original copy by \_\_\_\_\_ Date \_\_\_\_\_  
Attorney-in-fact

Approval IS/IS NOT recommended: The percentage of completion of \_\_\_\_\_ 20\_\_\_\_ is \_\_\_\_\_ % and the present percentage of elapsed time as of \_\_\_\_\_ 20\_\_\_\_ is \_\_\_\_\_ %.

by \_\_\_\_\_ Date \_\_\_\_\_  
Resident Project Representative

Approval IS/IS NOT recommended:

by \_\_\_\_\_ Date \_\_\_\_\_  
Project Manager

APPROVED/DISAPPROVED by \_\_\_\_\_ Date \_\_\_\_\_  
District General Manager

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**CONSENT OF SURETY - Final Payment**

PROJECT NAME \_\_\_\_\_ PROJECT NO. \_\_\_\_\_

LOCATION \_\_\_\_\_ CONTRACT NO. \_\_\_\_\_

TYPE OF CONTRACT \_\_\_\_\_

AMOUNT OF CONTRACT \_\_\_\_\_

In accordance with the provisions of the above named contract between the OWNER and the Contractor, the following named surety:

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

on the Payment Bond of the following named Contractor:

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

hereby approves of final payment to the Contractor, and further agrees that said final payment to the Contractor shall not relieve the Surety Company named herein of any of its obligations to the OWNER, California, as set forth in said Surety company's bond.

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand and seal this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

\_\_\_\_\_  
(Name of Surety Company)

\_\_\_\_\_  
(Signature of Authorized Representative)

TITLE: \_\_\_\_\_

(Corporate Seal)

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**UNCONDITIONAL WAIVER AND RELEASE UPON FINAL PAYMENT**

(California Civil Code 3262(d)2)

The undersigned has been paid and has received a final payment in the sum of:

\$ \_\_\_\_\_ for labor, services, equipment, and material furnished to:

\_\_\_\_\_  
(Your Customer)

on the job of \_\_\_\_\_  
(OWNER)

located at \_\_\_\_\_  
(Job Description)

and does hereby waive and release pro tanto\* any mechanic's lien, stop notice, or bond right that the undersigned has on the above referenced job to the following extent. This release covers a progress payment for labor, services, equipment, or material furnished to:

\_\_\_\_\_ through \_\_\_\_\_

only and does not cover any retention or items furnished after that date.

Dated \_\_\_\_\_

\_\_\_\_\_  
(Company Name)

By \_\_\_\_\_  
(Title)

**NOTICE TO PERSONS SIGNING THIS WAIVER: THIS DOCUMENT WAIVES RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL RELEASE FORM.**

\*For so much; for as much as may be; as for as it goes.

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## **PART II**

### **CONDITIONS OF THE CONTRACT**

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## **STANDARD GENERAL CONDITIONS**

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## GENERAL CONDITIONS

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# **SUPPLEMENTARY GENERAL CONDITIONS**

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This document has important legal consequences; consultation with an attorney is encouraged with respect to its use or modification. This document should be adapted to the particular circumstances of the contemplated Project and the controlling Laws and Regulations.

## STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared By



Endorsed By



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# STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

## ARTICLE 1—DEFINITIONS AND TERMINOLOGY

### 1.01 *Defined Terms*

- A. Wherever used in the Bidding Requirements or Contract Documents, a term printed with initial capital letters, including the term's singular and plural forms, will have the meaning indicated in the definitions below. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.
1. *Addenda*—Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.
  2. *Agreement*—The written instrument, executed by Owner and Contractor, that sets forth the Contract Price and Contract Times, identifies the parties and the Engineer, and designates the specific items that are Contract Documents.
  3. *Application for Payment*—The document prepared by Contractor, in a form acceptable to Engineer, to request progress or final payments, and which is to be accompanied by such supporting documentation as is required by the Contract Documents.
  4. *Bid*—The offer of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
  5. *Bidder*—An individual or entity that submits a Bid to Owner.
  6. *Bidding Documents*—The Bidding Requirements, the proposed Contract Documents, and all Addenda.
  7. *Bidding Requirements*—The Advertisement or invitation to bid, Instructions to Bidders, Bid Bond or other Bid security, if any, the Bid Form, and the Bid with any attachments.
  8. *Change Order*—A document which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, or other revision to the Contract, issued on or after the Effective Date of the Contract.
  9. *Change Proposal*—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment in Contract Price or Contract Times; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Contract.
  10. *Claim*
    - a. A demand or assertion by Owner directly to Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment of Contract Price or Contract Times; contesting an initial decision by Engineer concerning the

- requirements of the Contract Documents or the acceptability of Work under the Contract Documents; contesting Engineer's decision regarding a Change Proposal; seeking resolution of a contractual issue that Engineer has declined to address; or seeking other relief with respect to the terms of the Contract.
- b. A demand or assertion by Contractor directly to Owner, duly submitted in compliance with the procedural requirements set forth herein, contesting Engineer's decision regarding a Change Proposal, or seeking resolution of a contractual issue that Engineer has declined to address.
  - c. A demand or assertion by Owner or Contractor, duly submitted in compliance with the procedural requirements set forth herein, made pursuant to Paragraph 12.01.A.4, concerning disputes arising after Engineer has issued a recommendation of final payment.
  - d. A demand for money or services by a third party is not a Claim.
11. *Constituent of Concern*—Asbestos, petroleum, radioactive materials, polychlorinated biphenyls (PCBs), lead-based paint (as defined by the HUD/EPA standard), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to Laws and Regulations regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.
  12. *Contract*—The entire and integrated written contract between Owner and Contractor concerning the Work.
  13. *Contract Documents*—Those items so designated in the Agreement, and which together comprise the Contract.
  14. *Contract Price*—The money that Owner has agreed to pay Contractor for completion of the Work in accordance with the Contract Documents.
  15. *Contract Times*—The number of days or the dates by which Contractor shall: (a) achieve Milestones, if any; (b) achieve Substantial Completion; and (c) complete the Work.
  16. *Contractor*—The individual or entity with which Owner has contracted for performance of the Work.
  17. *Cost of the Work*—See Paragraph 13.01 for definition.
  18. *Drawings*—The part of the Contract that graphically shows the scope, extent, and character of the Work to be performed by Contractor.
  19. *Effective Date of the Contract*—The date, indicated in the Agreement, on which the Contract becomes effective.
  20. *Electronic Document*—Any Project-related correspondence, attachments to correspondence, data, documents, drawings, information, or graphics, including but not limited to Shop Drawings and other Submittals, that are in an electronic or digital format.
  21. *Electronic Means*—Electronic mail (email), upload/download from a secure Project website, or other communications methods that allow: (a) the transmission or communication of Electronic Documents; (b) the documentation of transmissions, including sending and receipt; (c) printing of the transmitted Electronic Document by the

recipient; (d) the storage and archiving of the Electronic Document by sender and recipient; and (e) the use by recipient of the Electronic Document for purposes permitted by this Contract. Electronic Means does not include the use of text messaging, or of Facebook, Twitter, Instagram, or similar social media services for transmission of Electronic Documents.

22. *Engineer*—The individual or entity named as such in the Agreement.
23. *Field Order*—A written order issued by Engineer which requires minor changes in the Work but does not change the Contract Price or the Contract Times.
24. *Hazardous Environmental Condition*—The presence at the Site of Constituents of Concern in such quantities or circumstances that may present a danger to persons or property exposed thereto.
  - a. The presence at the Site of materials that are necessary for the execution of the Work, or that are to be incorporated into the Work, and that are controlled and contained pursuant to industry practices, Laws and Regulations, and the requirements of the Contract, is not a Hazardous Environmental Condition.
  - b. The presence of Constituents of Concern that are to be removed or remediated as part of the Work is not a Hazardous Environmental Condition.
  - c. The presence of Constituents of Concern as part of the routine, anticipated, and obvious working conditions at the Site, is not a Hazardous Environmental Condition.
25. *Laws and Regulations; Laws or Regulations*—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and binding decrees, resolutions, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.
26. *Liens*—Charges, security interests, or encumbrances upon Contract-related funds, real property, or personal property.
27. *Milestone*—A principal event in the performance of the Work that the Contract requires Contractor to achieve by an intermediate completion date, or by a time prior to Substantial Completion of all the Work.
28. *Notice of Award*—The written notice by Owner to a Bidder of Owner's acceptance of the Bid.
29. *Notice to Proceed*—A written notice by Owner to Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work.
30. *Owner*—The individual or entity with which Contractor has contracted regarding the Work, and which has agreed to pay Contractor for the performance of the Work, pursuant to the terms of the Contract.
31. *Progress Schedule*—A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising Contractor's plan to accomplish the Work within the Contract Times.
32. *Project*—The total undertaking to be accomplished for Owner by engineers, contractors, and others, including planning, study, design, construction, testing, commissioning, and start-up, and of which the Work to be performed under the Contract Documents is a part.

33. *Resident Project Representative*—The authorized representative of Engineer assigned to assist Engineer at the Site. As used herein, the term Resident Project Representative (RPR) includes any assistants or field staff of Resident Project Representative.
34. *Samples*—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.
35. *Schedule of Submittals*—A schedule, prepared and maintained by Contractor, of required submittals and the time requirements for Engineer’s review of the submittals.
36. *Schedule of Values*—A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor’s Applications for Payment.
37. *Shop Drawings*—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Contract Documents.
38. *Site*—Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements, and such other lands or areas furnished by Owner which are designated for the use of Contractor.
39. *Specifications*—The part of the Contract that consists of written requirements for materials, equipment, systems, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.
40. *Subcontractor*—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.
41. *Submittal*—A written or graphic document, prepared by or for Contractor, which the Contract Documents require Contractor to submit to Engineer, or that is indicated as a Submittal in the Schedule of Submittals accepted by Engineer. Submittals may include Shop Drawings and Samples; schedules; product data; Owner-delegated designs; sustainable design information; information on special procedures; testing plans; results of tests and evaluations, source quality-control testing and inspections, and field or Site quality-control testing and inspections; warranties and certifications; Suppliers’ instructions and reports; records of delivery of spare parts and tools; operations and maintenance data; Project photographic documentation; record documents; and other such documents required by the Contract Documents. Submittals, whether or not approved or accepted by Engineer, are not Contract Documents. Change Proposals, Change Orders, Claims, notices, Applications for Payment, and requests for interpretation or clarification are not Submittals.
42. *Substantial Completion*—The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms “substantially complete” and “substantially completed” as applied to all or part of the Work refer to Substantial Completion of such Work.

43. *Successful Bidder*—The Bidder to which the Owner makes an award of contract.
44. *Supplementary Conditions*—The part of the Contract that amends or supplements these General Conditions.
45. *Supplier*—A manufacturer, fabricator, supplier, distributor, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or a Subcontractor.
46. *Technical Data*
- a. Those items expressly identified as Technical Data in the Supplementary Conditions, with respect to either (1) existing subsurface conditions at or adjacent to the Site, or existing physical conditions at or adjacent to the Site including existing surface or subsurface structures (except Underground Facilities) or (2) Hazardous Environmental Conditions at the Site.
  - b. If no such express identifications of Technical Data have been made with respect to conditions at the Site, then Technical Data is defined, with respect to conditions at the Site under Paragraphs 5.03, 5.04, and 5.06, as the data contained in boring logs, recorded measurements of subsurface water levels, assessments of the condition of subsurface facilities, laboratory test results, and other factual, objective information regarding conditions at the Site that are set forth in any geotechnical, environmental, or other Site or facilities conditions report prepared for the Project and made available to Contractor.
  - c. Information and data regarding the presence or location of Underground Facilities are not intended to be categorized, identified, or defined as Technical Data, and instead Underground Facilities are shown or indicated on the Drawings.
47. *Underground Facilities*—All active or not-in-service underground lines, pipelines, conduits, ducts, encasements, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or systems at the Site, including but not limited to those facilities or systems that produce, transmit, distribute, or convey telephone or other communications, cable television, fiber optic transmissions, power, electricity, light, heat, gases, oil, crude oil products, liquid petroleum products, water, steam, waste, wastewater, storm water, other liquids or chemicals, or traffic or other control systems. An abandoned facility or system is not an Underground Facility.
48. *Unit Price Work*—Work to be paid for on the basis of unit prices.
49. *Work*—The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction; furnishing, installing, and incorporating all materials and equipment into such construction; and may include related services such as testing, start-up, and commissioning, all as required by the Contract Documents.
50. *Work Change Directive*—A written directive to Contractor issued on or after the Effective Date of the Contract, signed by Owner and recommended by Engineer, ordering an addition, deletion, or revision in the Work.

## 1.02 Terminology

- A. The words and terms discussed in Paragraphs 1.02.B, C, D, and E are not defined terms that require initial capital letters, but, when used in the Bidding Requirements or Contract Documents, have the indicated meaning.
- B. *Intent of Certain Terms or Adjectives:* The Contract Documents include the terms “as allowed,” “as approved,” “as ordered,” “as directed” or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives “reasonable,” “suitable,” “acceptable,” “proper,” “satisfactory,” or adjectives of like effect or import are used to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action, or determination will be solely to evaluate, in general, the Work for compliance with the information in the Contract Documents and with the design concept of the Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility contrary to the provisions of Article 10 or any other provision of the Contract Documents.
- C. *Day:* The word “day” means a calendar day of 24 hours measured from midnight to the next midnight.
- D. *Defective:* The word “defective,” when modifying the word “Work,” refers to Work that is unsatisfactory, faulty, or deficient in that it:
  - 1. does not conform to the Contract Documents;
  - 2. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or
  - 3. has been damaged prior to Engineer’s recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 15.03 or Paragraph 15.04).
- E. *Furnish, Install, Perform, Provide*
  - 1. The word “furnish,” when used in connection with services, materials, or equipment, means to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.
  - 2. The word “install,” when used in connection with services, materials, or equipment, means to put into use or place in final position said services, materials, or equipment complete and ready for intended use.
  - 3. The words “perform” or “provide,” when used in connection with services, materials, or equipment, means to furnish and install said services, materials, or equipment complete and ready for intended use.
  - 4. If the Contract Documents establish an obligation of Contractor with respect to specific services, materials, or equipment, but do not expressly use any of the four words “furnish,” “install,” “perform,” or “provide,” then Contractor shall furnish and install said services, materials, or equipment complete and ready for intended use.

- F. *Contract Price or Contract Times*: References to a change in “Contract Price or Contract Times” or “Contract Times or Contract Price” or similar, indicate that such change applies to (1) Contract Price, (2) Contract Times, or (3) both Contract Price and Contract Times, as warranted, even if the term “or both” is not expressed.
- G. Unless stated otherwise in the Contract Documents, words or phrases that have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

## **ARTICLE 2—PRELIMINARY MATTERS**

### **2.01 *Delivery of Performance and Payment Bonds; Evidence of Insurance***

- A. *Performance and Payment Bonds*: When Contractor delivers the signed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner the performance bond and payment bond (if the Contract requires Contractor to furnish such bonds).
- B. *Evidence of Contractor’s Insurance*: When Contractor delivers the signed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner, with copies to each additional insured (as identified in the Contract), the certificates, endorsements, and other evidence of insurance required to be provided by Contractor in accordance with Article 6, except to the extent the Supplementary Conditions expressly establish other dates for delivery of specific insurance policies.
- C. *Evidence of Owner’s Insurance*: After receipt of the signed counterparts of the Agreement and all required bonds and insurance documentation, Owner shall promptly deliver to Contractor, with copies to each additional insured (as identified in the Contract), the certificates and other evidence of insurance required to be provided by Owner under Article 6.

### **2.02 *Copies of Documents***

- A. Owner shall furnish to Contractor four printed copies of the Contract (including one fully signed counterpart of the Agreement), and one copy in electronic portable document format (PDF). Additional printed copies will be furnished upon request at the cost of reproduction.
- B. Owner shall maintain and safeguard at least one original printed record version of the Contract, including Drawings and Specifications signed and sealed by Engineer and other design professionals. Owner shall make such original printed record version of the Contract available to Contractor for review. Owner may delegate the responsibilities under this provision to Engineer.

### **2.03 *Before Starting Construction***

- A. *Preliminary Schedules*: Within 10 days after the Effective Date of the Contract (or as otherwise required by the Contract Documents), Contractor shall submit to Engineer for timely review:
  - 1. a preliminary Progress Schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract;
  - 2. a preliminary Schedule of Submittals; and
  - 3. a preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work

into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

2.04 *Preconstruction Conference; Designation of Authorized Representatives*

- A. Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work, and to discuss the schedules referred to in Paragraph 2.03.A, procedures for handling Shop Drawings, Samples, and other Submittals, processing Applications for Payment, electronic or digital transmittals, and maintaining required records.
- B. At this conference Owner and Contractor each shall designate, in writing, a specific individual to act as its authorized representative with respect to the services and responsibilities under the Contract. Such individuals shall have the authority to transmit and receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

2.05 *Acceptance of Schedules*

- A. At least 10 days before submission of the first Application for Payment a conference, attended by Contractor, Engineer, and others as appropriate, will be held to review the schedules submitted in accordance with Paragraph 2.03.A. No progress payment will be made to Contractor until acceptable schedules are submitted to Engineer.
  - 1. The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the Work, nor interfere with or relieve Contractor from Contractor's full responsibility therefor.
  - 2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.
  - 3. Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to the component parts of the Work.
  - 4. If a schedule is not acceptable, Contractor will have an additional 10 days to revise and resubmit the schedule.

2.06 *Electronic Transmittals*

- A. Except as otherwise stated elsewhere in the Contract, the Owner, Engineer, and Contractor may send, and shall accept, Electronic Documents transmitted by Electronic Means.
- B. If the Contract does not establish protocols for Electronic Means, then Owner, Engineer, and Contractor shall jointly develop such protocols.
- C. Subject to any governing protocols for Electronic Means, when transmitting Electronic Documents by Electronic Means, the transmitting party makes no representations as to long-term compatibility, usability, or readability of the Electronic Documents resulting from the recipient's use of software application packages, operating systems, or computer hardware differing from those used in the drafting or transmittal of the Electronic Documents.

## ARTICLE 3—CONTRACT DOCUMENTS: INTENT, REQUIREMENTS, REUSE

### 3.01 *Intent*

- A. The Contract Documents are complementary; what is required by one Contract Document is as binding as if required by all.
- B. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents.
- C. Unless otherwise stated in the Contract Documents, if there is a discrepancy between the electronic versions of the Contract Documents (including any printed copies derived from such electronic versions) and the printed record version, the printed record version will govern.
- D. The Contract supersedes prior negotiations, representations, and agreements, whether written or oral.
- E. Engineer will issue clarifications and interpretations of the Contract Documents as provided herein.
- F. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation will be deemed stricken, and all remaining provisions will continue to be valid and binding upon Owner and Contractor, which agree that the Contract Documents will be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.
- G. Nothing in the Contract Documents creates:
  - 1. any contractual relationship between Owner or Engineer and any Subcontractor, Supplier, or other individual or entity performing or furnishing any of the Work, for the benefit of such Subcontractor, Supplier, or other individual or entity; or
  - 2. any obligation on the part of Owner or Engineer to pay or to see to the payment of any money due any such Subcontractor, Supplier, or other individual or entity, except as may otherwise be required by Laws and Regulations.

### 3.02 *Reference Standards*

- A. *Standards Specifications, Codes, Laws and Regulations*
  - 1. Reference in the Contract Documents to standard specifications, manuals, reference standards, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, means the standard specification, manual, reference standard, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Contract if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.
  - 2. No provision of any such standard specification, manual, reference standard, or code, and no instruction of a Supplier, will be effective to change the duties or responsibilities of Owner, Contractor, or Engineer from those set forth in the part of the Contract Documents prepared by or for Engineer. No such provision or instruction shall be effective to assign to Owner or Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility

inconsistent with the provisions of the part of the Contract Documents prepared by or for Engineer.

### 3.03 *Reporting and Resolving Discrepancies*

#### A. *Reporting Discrepancies*

1. *Contractor's Verification of Figures and Field Measurements:* Before undertaking each part of the Work, Contractor shall carefully study the Contract Documents, and check and verify pertinent figures and dimensions therein, particularly with respect to applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy that Contractor discovers, or has actual knowledge of, and shall not proceed with any Work affected thereby until the conflict, error, ambiguity, or discrepancy is resolved by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract issued pursuant to Paragraph 11.01.
2. *Contractor's Review of Contract Documents:* If, before or during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents, or between the Contract Documents and (a) any applicable Law or Regulation, (b) actual field conditions, (c) any standard specification, manual, reference standard, or code, or (d) any instruction of any Supplier, then Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 7.15) until the conflict, error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract issued pursuant to Paragraph 11.01.
3. Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor had actual knowledge thereof.

#### B. *Resolving Discrepancies*

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the part of the Contract Documents prepared by or for Engineer take precedence in resolving any conflict, error, ambiguity, or discrepancy between such provisions of the Contract Documents and:
  - a. the provisions of any standard specification, manual, reference standard, or code, or the instruction of any Supplier (whether or not specifically incorporated by reference as a Contract Document); or
  - b. the provisions of any Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

### 3.04 *Requirements of the Contract Documents*

- A. During the performance of the Work and until final payment, Contractor and Owner shall submit to the Engineer in writing all matters in question concerning the requirements of the Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Contract Documents, as soon as possible after such matters arise. Engineer will be the initial interpreter of the requirements of the Contract Documents, and judge of the acceptability of the Work.

- B. Engineer will, with reasonable promptness, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Contract Documents. Engineer's written clarification, interpretation, or decision will be final and binding on Contractor, unless it appeals by submitting a Change Proposal, and on Owner, unless it appeals by filing a Claim.
- C. If a submitted matter in question concerns terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work under the Contract Documents, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, then Engineer will promptly notify Owner and Contractor in writing that Engineer is unable to provide a decision or interpretation. If Owner and Contractor are unable to agree on resolution of such a matter in question, either party may pursue resolution as provided in Article 12.

### 3.05 *Reuse of Documents*

- A. Contractor and its Subcontractors and Suppliers shall not:
  - 1. have or acquire any title to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or its consultants, including electronic media versions, or reuse any such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaptation by Engineer; or
  - 2. have or acquire any title or ownership rights in any other Contract Documents, reuse any such Contract Documents for any purpose without Owner's express written consent, or violate any copyrights pertaining to such Contract Documents.
- B. The prohibitions of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein precludes Contractor from retaining copies of the Contract Documents for record purposes.

## **ARTICLE 4—COMMENCEMENT AND PROGRESS OF THE WORK**

### 4.01 *Commencement of Contract Times; Notice to Proceed*

- A. The Contract Times will commence to run on the 30th day after the Effective Date of the Contract or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Contract. In no event will the Contract Times commence to run later than the 60th day after the day of Bid opening or the 30th day after the Effective Date of the Contract, whichever date is earlier.

### 4.02 *Starting the Work*

- A. Contractor shall start to perform the Work on the date when the Contract Times commence to run. No Work may be done at the Site prior to such date.

### 4.03 *Reference Points*

- A. Owner shall provide engineering surveys to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the

established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

#### 4.04 *Progress Schedule*

- A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.05 as it may be adjusted from time to time as provided below.
  - 1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.05) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times.
  - 2. Proposed adjustments in the Progress Schedule that will change the Contract Times must be submitted in accordance with the requirements of Article 11.
- B. Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or disagreements with Owner. No Work will be delayed or postponed pending resolution of any disputes or disagreements, or during any appeal process, except as permitted by Paragraph 16.04, or as Owner and Contractor may otherwise agree in writing.

#### 4.05 *Delays in Contractor's Progress*

- A. If Owner, Engineer, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times.
- B. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delay, disruption, or interference caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of a Subcontractor or Supplier shall be deemed to be within the control of Contractor.
- C. If Contractor's performance or progress is delayed, disrupted, or interfered with by unanticipated causes not the fault of and beyond the control of Owner, Contractor, and those for which they are responsible, then Contractor shall be entitled to an equitable adjustment in Contract Times. Such an adjustment will be Contractor's sole and exclusive remedy for the delays, disruption, and interference described in this paragraph. Causes of delay, disruption, or interference that may give rise to an adjustment in Contract Times under this paragraph include but are not limited to the following:
  - 1. Severe and unavoidable natural catastrophes such as fires, floods, epidemics, and earthquakes;
  - 2. Abnormal weather conditions;
  - 3. Acts or failures to act of third-party utility owners or other third-party entities (other than those third-party utility owners or other third-party entities performing other work at or adjacent to the Site as arranged by or under contract with Owner, as contemplated in Article 8); and
  - 4. Acts of war or terrorism.

- D. Contractor's entitlement to an adjustment of Contract Times or Contract Price is limited as follows:
1. Contractor's entitlement to an adjustment of the Contract Times is conditioned on the delay, disruption, or interference adversely affecting an activity on the critical path to completion of the Work, as of the time of the delay, disruption, or interference.
  2. Contractor shall not be entitled to an adjustment in Contract Price for any delay, disruption, or interference if such delay is concurrent with a delay, disruption, or interference caused by or within the control of Contractor. Such a concurrent delay by Contractor shall not preclude an adjustment of Contract Times to which Contractor is otherwise entitled.
  3. Adjustments of Contract Times or Contract Price are subject to the provisions of Article 11.
- E. Each Contractor request or Change Proposal seeking an increase in Contract Times or Contract Price must be supplemented by supporting data that sets forth in detail the following:
1. The circumstances that form the basis for the requested adjustment;
  2. The date upon which each cause of delay, disruption, or interference began to affect the progress of the Work;
  3. The date upon which each cause of delay, disruption, or interference ceased to affect the progress of the Work;
  4. The number of days' increase in Contract Times claimed as a consequence of each such cause of delay, disruption, or interference; and
  5. The impact on Contract Price, in accordance with the provisions of Paragraph 11.07.
- Contractor shall also furnish such additional supporting documentation as Owner or Engineer may require including, where appropriate, a revised progress schedule indicating all the activities affected by the delay, disruption, or interference, and an explanation of the effect of the delay, disruption, or interference on the critical path to completion of the Work.
- F. Delays, disruption, and interference to the performance or progress of the Work resulting from the existence of a differing subsurface or physical condition, an Underground Facility that was not shown or indicated by the Contract Documents, or not shown or indicated with reasonable accuracy, and those resulting from Hazardous Environmental Conditions, are governed by Article 5, together with the provisions of Paragraphs 4.05.D and 4.05.E.
- G. Paragraph 8.03 addresses delays, disruption, and interference to the performance or progress of the Work resulting from the performance of certain other work at or adjacent to the Site.

## **ARTICLE 5—SITE; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS**

### **5.01 *Availability of Lands***

- A. Owner shall furnish the Site. Owner shall notify Contractor in writing of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work.

- B. Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which permanent improvements are to be made and Owner's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations.
- C. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

5.02 *Use of Site and Other Areas*

A. *Limitation on Use of Site and Other Areas*

1. Contractor shall confine construction equipment, temporary construction facilities, the storage of materials and equipment, and the operations of workers to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and such other adjacent areas with construction equipment or other materials or equipment. Contractor shall assume full responsibility for (a) damage to the Site; (b) damage to any such other adjacent areas used for Contractor's operations; (c) damage to any other adjacent land or areas, or to improvements, structures, utilities, or similar facilities located at such adjacent lands or areas; and (d) for injuries and losses sustained by the owners or occupants of any such land or areas; provided that such damage or injuries result from the performance of the Work or from other actions or conduct of the Contractor or those for which Contractor is responsible.
  2. If a damage or injury claim is made by the owner or occupant of any such land or area because of the performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible, Contractor shall (a) take immediate corrective or remedial action as required by Paragraph 7.13, or otherwise; (b) promptly attempt to settle the claim as to all parties through negotiations with such owner or occupant, or otherwise resolve the claim by arbitration or other dispute resolution proceeding, or in a court of competent jurisdiction; and (c) to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, from and against any such claim, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner, Engineer, or any other party indemnified hereunder to the extent caused directly or indirectly, in whole or in part by, or based upon, Contractor's performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible.
- B. *Removal of Debris During Performance of the Work:* During the progress of the Work the Contractor shall keep the Site and other adjacent areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris will conform to applicable Laws and Regulations.
  - C. *Cleaning:* Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site and adjacent areas all tools, appliances, construction equipment

and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.

- D. *Loading of Structures:* Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent structures or land to stresses or pressures that will endanger them.

### 5.03 *Subsurface and Physical Conditions*

- A. *Reports and Drawings:* The Supplementary Conditions identify:

1. Those reports of explorations and tests of subsurface conditions at or adjacent to the Site that contain Technical Data;
2. Those drawings of existing physical conditions at or adjacent to the Site, including those drawings depicting existing surface or subsurface structures at or adjacent to the Site (except Underground Facilities), that contain Technical Data; and
3. Technical Data contained in such reports and drawings.

- B. *Underground Facilities:* Underground Facilities are shown or indicated on the Drawings, pursuant to Paragraph 5.05, and not in the drawings referred to in Paragraph 5.03.A. Information and data regarding the presence or location of Underground Facilities are not intended to be categorized, identified, or defined as Technical Data.

- C. *Reliance by Contractor on Technical Data:* Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely upon the accuracy of the Technical Data as defined in Paragraph 1.01.A.46.b.

- D. *Limitations of Other Data and Documents:* Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto;
2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings;
3. the contents of other Site-related documents made available to Contractor, such as record drawings from other projects at or adjacent to the Site, or Owner's archival documents concerning the Site; or
4. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions, or information.

#### 5.04 *Differing Subsurface or Physical Conditions*

- A. *Notice by Contractor:* If Contractor believes that any subsurface or physical condition that is uncovered or revealed at the Site:
1. is of such a nature as to establish that any Technical Data on which Contractor is entitled to rely as provided in Paragraph 5.03 is materially inaccurate;
  2. is of such a nature as to require a change in the Drawings or Specifications;
  3. differs materially from that shown or indicated in the Contract Documents; or
  4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except with respect to an emergency) until receipt of a written statement permitting Contractor to do so.

- B. *Engineer's Review:* After receipt of written notice as required by the preceding paragraph, Engineer will promptly review the subsurface or physical condition in question; determine whether it is necessary for Owner to obtain additional exploration or tests with respect to the condition; conclude whether the condition falls within any one or more of the differing site condition categories in Paragraph 5.04.A; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the subsurface or physical condition in question and the need for any change in the Drawings or Specifications; and advise Owner in writing of Engineer's findings, conclusions, and recommendations.
- C. *Owner's Statement to Contractor Regarding Site Condition:* After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the subsurface or physical condition in question, addressing the resumption of Work in connection with such condition, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations, in whole or in part.
- D. *Early Resumption of Work:* If at any time Engineer determines that Work in connection with the subsurface or physical condition in question may resume prior to completion of Engineer's review or Owner's issuance of its statement to Contractor, because the condition in question has been adequately documented, and analyzed on a preliminary basis, then the Engineer may at its discretion instruct Contractor to resume such Work.
- E. *Possible Price and Times Adjustments*
1. Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times, to the extent that the existence of a differing subsurface or physical condition, or any related delay, disruption, or interference, causes an increase or decrease in

Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:

- a. Such condition must fall within any one or more of the categories described in Paragraph 5.04.A;
  - b. With respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03; and,
  - c. Contractor's entitlement to an adjustment of the Contract Times is subject to the provisions of Paragraphs 4.05.D and 4.05.E.
2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times with respect to a subsurface or physical condition if:
- a. Contractor knew of the existence of such condition at the time Contractor made a commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract, or otherwise;
  - b. The existence of such condition reasonably could have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas expressly required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such commitment; or
  - c. Contractor failed to give the written notice required by Paragraph 5.04.A.
3. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, then any such adjustment will be set forth in a Change Order.
4. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the subsurface or physical condition in question.
- F. *Underground Facilities; Hazardous Environmental Conditions*: Paragraph 5.05 governs rights and responsibilities regarding the presence or location of Underground Facilities. Paragraph 5.06 governs rights and responsibilities regarding Hazardous Environmental Conditions. The provisions of Paragraphs 5.03 and 5.04 are not applicable to the presence or location of Underground Facilities, or to Hazardous Environmental Conditions.

#### 5.05 *Underground Facilities*

- A. *Contractor's Responsibilities*: Unless it is otherwise expressly provided in the Supplementary Conditions, the cost of all of the following are included in the Contract Price, and Contractor shall have full responsibility for:
1. reviewing and checking all information and data regarding existing Underground Facilities at the Site;
  2. complying with applicable state and local utility damage prevention Laws and Regulations;

3. verifying the actual location of those Underground Facilities shown or indicated in the Contract Documents as being within the area affected by the Work, by exposing such Underground Facilities during the course of construction;
  4. coordination of the Work with the owners (including Owner) of such Underground Facilities, during construction; and
  5. the safety and protection of all existing Underground Facilities at the Site, and repairing any damage thereto resulting from the Work.
- B. *Notice by Contractor:* If Contractor believes that an Underground Facility that is uncovered or revealed at the Site was not shown or indicated on the Drawings, or was not shown or indicated on the Drawings with reasonable accuracy, then Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), notify Owner and Engineer in writing regarding such Underground Facility.
- C. *Engineer's Review:* Engineer will:
1. promptly review the Underground Facility and conclude whether such Underground Facility was not shown or indicated on the Drawings, or was not shown or indicated with reasonable accuracy;
  2. identify and communicate with the owner of the Underground Facility; prepare recommendations to Owner (and if necessary issue any preliminary instructions to Contractor) regarding the Contractor's resumption of Work in connection with the Underground Facility in question;
  3. obtain any pertinent cost or schedule information from Contractor; determine the extent, if any, to which a change is required in the Drawings or Specifications to reflect and document the consequences of the existence or location of the Underground Facility; and
  4. advise Owner in writing of Engineer's findings, conclusions, and recommendations.

During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.

- D. *Owner's Statement to Contractor Regarding Underground Facility:* After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the Underground Facility in question addressing the resumption of Work in connection with such Underground Facility, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations in whole or in part.
- E. *Early Resumption of Work:* If at any time Engineer determines that Work in connection with the Underground Facility may resume prior to completion of Engineer's review or Owner's issuance of its statement to Contractor, because the Underground Facility in question and conditions affected by its presence have been adequately documented, and analyzed on a preliminary basis, then the Engineer may at its discretion instruct Contractor to resume such Work.
- F. *Possible Price and Times Adjustments*
1. Contractor shall be entitled to an equitable adjustment in the Contract Price or Contract Times, to the extent that any existing Underground Facility at the Site that was not shown

or indicated on the Drawings, or was not shown or indicated with reasonable accuracy, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:

- a. With respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03;
  - b. Contractor's entitlement to an adjustment of the Contract Times is subject to the provisions of Paragraphs 4.05.D and 4.05.E; and
  - c. Contractor gave the notice required in Paragraph 5.05.B.
2. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, then any such adjustment will be set forth in a Change Order.
  3. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the Underground Facility in question.
  4. The information and data shown or indicated on the Drawings with respect to existing Underground Facilities at the Site is based on information and data (a) furnished by the owners of such Underground Facilities, or by others, (b) obtained from available records, or (c) gathered in an investigation conducted in accordance with the current edition of ASCE 38, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data, by the American Society of Civil Engineers. If such information or data is incorrect or incomplete, Contractor's remedies are limited to those set forth in this Paragraph 5.05.F.

#### 5.06 *Hazardous Environmental Conditions at Site*

A. *Reports and Drawings*: The Supplementary Conditions identify:

1. those reports known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site;
2. drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site; and
3. Technical Data contained in such reports and drawings.

B. *Reliance by Contractor on Technical Data Authorized*: Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely on the accuracy of the Technical Data as defined in Paragraph 1.01.A.46.b. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures

- of construction to be employed by Contractor, and safety precautions and programs incident thereto;
2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
  3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions or information.
- C. Contractor shall not be responsible for removing or remediating any Hazardous Environmental Condition encountered, uncovered, or revealed at the Site unless such removal or remediation is expressly identified in the Contract Documents to be within the scope of the Work.
- D. Contractor shall be responsible for controlling, containing, and duly removing all Constituents of Concern brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible, and for any associated costs; and for the costs of removing and remediating any Hazardous Environmental Condition created by the presence of any such Constituents of Concern.
- E. If Contractor encounters, uncovers, or reveals a Hazardous Environmental Condition whose removal or remediation is not expressly identified in the Contract Documents as being within the scope of the Work, or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, then Contractor shall immediately: (1) secure or otherwise isolate such condition; (2) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 7.15); and (3) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any. Promptly after consulting with Engineer, Owner shall take such actions as are necessary to permit Owner to timely obtain required permits and provide Contractor the written notice required by Paragraph 5.06.F. If Contractor or anyone for whom Contractor is responsible created the Hazardous Environmental Condition in question, then Owner may remove and remediate the Hazardous Environmental Condition, and impose a set-off against payments to account for the associated costs.
- F. Contractor shall not resume Work in connection with such Hazardous Environmental Condition or in any affected area until after Owner has obtained any required permits related thereto, and delivered written notice to Contractor either (1) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work, or (2) specifying any special conditions under which such Work may be resumed safely.
- G. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, as a result of such Work stoppage, such special conditions under which Work is agreed to be resumed by Contractor, or any costs or expenses incurred in response to the Hazardous Environmental Condition, then within 30 days of Owner's written notice regarding the resumption of Work, Contractor may submit a Change Proposal, or Owner may impose a set-off. Entitlement to any such adjustment is subject to the provisions of Paragraphs 4.05.D, 4.05.E, 11.07, and 11.08.
- H. If, after receipt of such written notice, Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special

conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work, following the contractual change procedures in Article 11. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 8.

- I. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court, arbitration, or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition (1) was not shown or indicated in the Drawings, Specifications, or other Contract Documents, identified as Technical Data entitled to limited reliance pursuant to Paragraph 5.06.B, or identified in the Contract Documents to be included within the scope of the Work, and (2) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.I obligates Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- J. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the failure to control, contain, or remove a Constituent of Concern brought to the Site by Contractor or by anyone for whom Contractor is responsible, or to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.J obligates Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- K. The provisions of Paragraphs 5.03, 5.04, and 5.05 do not apply to the presence of Constituents of Concern or to a Hazardous Environmental Condition uncovered or revealed at the Site.

## **ARTICLE 6—BONDS AND INSURANCE**

### **6.01 *Performance, Payment, and Other Bonds***

- A. Contractor shall furnish a performance bond and a payment bond, each in an amount at least equal to the Contract Price, as security for the faithful performance and payment of Contractor's obligations under the Contract. These bonds must remain in effect until one year after the date when final payment becomes due or until completion of the correction period specified in Paragraph 15.08, whichever is later, except as provided otherwise by Laws or Regulations, the terms of a prescribed bond form, the Supplementary Conditions, or other provisions of the Contract.
- B. Contractor shall also furnish such other bonds (if any) as are required by the Supplementary Conditions or other provisions of the Contract.
- C. All bonds must be in the form included in the Bidding Documents or otherwise specified by Owner prior to execution of the Contract, except as provided otherwise by Laws or

Regulations, and must be issued and signed by a surety named in “Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies” as published in Department Circular 570 (as amended and supplemented) by the Bureau of the Fiscal Service, U.S. Department of the Treasury. A bond signed by an agent or attorney-in-fact must be accompanied by a certified copy of that individual’s authority to bind the surety. The evidence of authority must show that it is effective on the date the agent or attorney-in-fact signed the accompanying bond.

- D. Contractor shall obtain the required bonds from surety companies that are duly licensed or authorized, in the state or jurisdiction in which the Project is located, to issue bonds in the required amounts.
- E. If the surety on a bond furnished by Contractor is declared bankrupt or becomes insolvent, or the surety ceases to meet the requirements above, then Contractor shall promptly notify Owner and Engineer in writing and shall, within 20 days after the event giving rise to such notification, provide another bond and surety, both of which must comply with the bond and surety requirements above.
- F. If Contractor has failed to obtain a required bond, Owner may exclude the Contractor from the Site and exercise Owner’s termination rights under Article 16.
- G. Upon request to Owner from any Subcontractor, Supplier, or other person or entity claiming to have furnished labor, services, materials, or equipment used in the performance of the Work, Owner shall provide a copy of the payment bond to such person or entity.
- H. Upon request to Contractor from any Subcontractor, Supplier, or other person or entity claiming to have furnished labor, services, materials, or equipment used in the performance of the Work, Contractor shall provide a copy of the payment bond to such person or entity.

#### 6.02 *Insurance—General Provisions*

- A. Owner and Contractor shall obtain and maintain insurance as required in this article and in the Supplementary Conditions.
- B. All insurance required by the Contract to be purchased and maintained by Owner or Contractor shall be obtained from insurance companies that are duly licensed or authorized in the state or jurisdiction in which the Project is located to issue insurance policies for the required limits and coverages. Unless a different standard is indicated in the Supplementary Conditions, all companies that provide insurance policies required under this Contract shall have an A.M. Best rating of A-VII or better.
- C. Alternative forms of insurance coverage, including but not limited to self-insurance and “Occupational Accident and Excess Employer’s Indemnity Policies,” are not sufficient to meet the insurance requirements of this Contract, unless expressly allowed in the Supplementary Conditions.
- D. Contractor shall deliver to Owner, with copies to each additional insured identified in the Contract, certificates of insurance and endorsements establishing that Contractor has obtained and is maintaining the policies and coverages required by the Contract. Upon request by Owner or any other insured, Contractor shall also furnish other evidence of such required insurance, including but not limited to copies of policies, documentation of applicable self-insured retentions (if allowed) and deductibles, full disclosure of all relevant exclusions, and evidence of insurance required to be purchased and maintained by

Subcontractors or Suppliers. In any documentation furnished under this provision, Contractor, Subcontractors, and Suppliers may block out (redact) (1) any confidential premium or pricing information and (2) any wording specific to a project or jurisdiction other than those applicable to this Contract.

- E. Owner shall deliver to Contractor, with copies to each additional insured identified in the Contract, certificates of insurance and endorsements establishing that Owner has obtained and is maintaining the policies and coverages required of Owner by the Contract (if any). Upon request by Contractor or any other insured, Owner shall also provide other evidence of such required insurance (if any), including but not limited to copies of policies, documentation of applicable self-insured retentions (if allowed) and deductibles, and full disclosure of all relevant exclusions. In any documentation furnished under this provision, Owner may block out (redact) (1) any confidential premium or pricing information and (2) any wording specific to a project or jurisdiction other than those relevant to this Contract.
- F. Failure of Owner or Contractor to demand such certificates or other evidence of the other party's full compliance with these insurance requirements, or failure of Owner or Contractor to identify a deficiency in compliance from the evidence provided, will not be construed as a waiver of the other party's obligation to obtain and maintain such insurance.
- G. In addition to the liability insurance required to be provided by Contractor, the Owner, at Owner's option, may purchase and maintain Owner's own liability insurance. Owner's liability policies, if any, operate separately and independently from policies required to be provided by Contractor, and Contractor cannot rely upon Owner's liability policies for any of Contractor's obligations to the Owner, Engineer, or third parties.
- H. Contractor shall require:
  - 1. Subcontractors to purchase and maintain worker's compensation, commercial general liability, and other insurance that is appropriate for their participation in the Project, and to name as additional insureds Owner and Engineer (and any other individuals or entities identified in the Supplementary Conditions as additional insureds on Contractor's liability policies) on each Subcontractor's commercial general liability insurance policy; and
  - 2. Suppliers to purchase and maintain insurance that is appropriate for their participation in the Project.
- I. If either party does not purchase or maintain the insurance required of such party by the Contract, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage.
- J. If Contractor has failed to obtain and maintain required insurance, Contractor's entitlement to enter or remain at the Site will end immediately, and Owner may impose an appropriate set-off against payment for any associated costs (including but not limited to the cost of purchasing necessary insurance coverage), and exercise Owner's termination rights under Article 16.
- K. Without prejudice to any other right or remedy, if a party has failed to obtain required insurance, the other party may elect (but is in no way obligated) to obtain equivalent insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and the Contract Price will be adjusted accordingly.

- L. Owner does not represent that insurance coverage and limits established in this Contract necessarily will be adequate to protect Contractor or Contractor's interests. Contractor is responsible for determining whether such coverage and limits are adequate to protect its interests, and for obtaining and maintaining any additional insurance that Contractor deems necessary.
- M. The insurance and insurance limits required herein will not be deemed as a limitation on Contractor's liability, or that of its Subcontractors or Suppliers, under the indemnities granted to Owner and other individuals and entities in the Contract or otherwise.
- N. All the policies of insurance required to be purchased and maintained under this Contract will contain a provision or endorsement that the coverage afforded will not be canceled, or renewal refused, until at least 10 days prior written notice has been given to the purchasing policyholder. Within three days of receipt of any such written notice, the purchasing policyholder shall provide a copy of the notice to each other insured and Engineer.

6.03 *Contractor's Insurance*

- A. *Required Insurance:* Contractor shall purchase and maintain Worker's Compensation, Commercial General Liability, and other insurance pursuant to the specific requirements of the Supplementary Conditions.
- B. *General Provisions:* The policies of insurance required by this Paragraph 6.03 as supplemented must:
  - 1. include at least the specific coverages required;
  - 2. be written for not less than the limits provided, or those required by Laws or Regulations, whichever is greater;
  - 3. remain in effect at least until the Work is complete (as set forth in Paragraph 15.06.D), and longer if expressly required elsewhere in this Contract, and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work as a warranty or correction obligation, or otherwise, or returning to the Site to conduct other tasks arising from the Contract;
  - 4. apply with respect to the performance of the Work, whether such performance is by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable; and
  - 5. include all necessary endorsements to support the stated requirements.
- C. *Additional Insureds:* The Contractor's commercial general liability, automobile liability, employer's liability, umbrella or excess, pollution liability, and unmanned aerial vehicle liability policies, if required by this Contract, must:
  - 1. include and list as additional insureds Owner and Engineer, and any individuals or entities identified as additional insureds in the Supplementary Conditions;
  - 2. include coverage for the respective officers, directors, members, partners, employees, and consultants of all such additional insureds;
  - 3. afford primary coverage to these additional insureds for all claims covered thereby (including as applicable those arising from both ongoing and completed operations);

4. not seek contribution from insurance maintained by the additional insured; and
5. as to commercial general liability insurance, apply to additional insureds with respect to liability caused in whole or in part by Contractor's acts or omissions, or the acts and omissions of those working on Contractor's behalf, in the performance of Contractor's operations.

#### 6.04 *Builder's Risk and Other Property Insurance*

- A. *Builder's Risk*: Unless otherwise provided in the Supplementary Conditions, Contractor shall purchase and maintain builder's risk insurance upon the Work on a completed value basis, in the amount of the Work's full insurable replacement cost (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). The specific requirements applicable to the builder's risk insurance are set forth in the Supplementary Conditions.
- B. *Property Insurance for Facilities of Owner Where Work Will Occur*: Owner is responsible for obtaining and maintaining property insurance covering each existing structure, building, or facility in which any part of the Work will occur, or to which any part of the Work will attach or be adjoined. Such property insurance will be written on a special perils (all-risk) form, on a replacement cost basis, providing coverage consistent with that required for the builder's risk insurance, and will be maintained until the Work is complete, as set forth in Paragraph 15.06.D.
- C. *Property Insurance for Substantially Complete Facilities*: Promptly after Substantial Completion, and before actual occupancy or use of the substantially completed Work, Owner will obtain property insurance for such substantially completed Work, and maintain such property insurance at least until the Work is complete, as set forth in Paragraph 15.06.D. Such property insurance will be written on a special perils (all-risk) form, on a replacement cost basis, and provide coverage consistent with that required for the builder's risk insurance. The builder's risk insurance may terminate upon written confirmation of Owner's procurement of such property insurance.
- D. *Partial Occupancy or Use by Owner*: If Owner will occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work, as provided in Paragraph 15.04, then Owner (directly, if it is the purchaser of the builder's risk policy, or through Contractor) will provide advance notice of such occupancy or use to the builder's risk insurer, and obtain an endorsement consenting to the continuation of coverage prior to commencing such partial occupancy or use.
- E. *Insurance of Other Property; Additional Insurance*: If the express insurance provisions of the Contract do not require or address the insurance of a property item or interest, then the entity or individual owning such property item will be responsible for insuring it. If Contractor elects to obtain other special insurance to be included in or supplement the builder's risk or property insurance policies provided under this Paragraph 6.04, it may do so at Contractor's expense.

#### 6.05 *Property Losses; Subrogation*

- A. The builder's risk insurance policy purchased and maintained in accordance with Paragraph 6.04 (or an installation floater policy if authorized by the Supplementary Conditions), will contain provisions to the effect that in the event of payment of any loss or damage the insurer will have no rights of recovery against any insureds thereunder, or against

Engineer or its consultants, or their officers, directors, members, partners, employees, agents, consultants, or subcontractors.

1. Owner and Contractor waive all rights against each other and the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from any of the perils, risks, or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Engineer, its consultants, all individuals or entities identified in the Supplementary Conditions as builder's risk or installation floater insureds, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, under such policies for losses and damages so caused.
  2. None of the above waivers extends to the rights that any party making such waiver may have to the proceeds of insurance held by Owner or Contractor as trustee or fiduciary, or otherwise payable under any policy so issued.
- B. Any property insurance policy maintained by Owner covering any loss, damage, or consequential loss to Owner's existing structures, buildings, or facilities in which any part of the Work will occur, or to which any part of the Work will attach or adjoin; to adjacent structures, buildings, or facilities of Owner; or to part or all of the completed or substantially completed Work, during partial occupancy or use pursuant to Paragraph 15.04, after Substantial Completion pursuant to Paragraph 15.03, or after final payment pursuant to Paragraph 15.06, will contain provisions to the effect that in the event of payment of any loss or damage the insurer will have no rights of recovery against any insureds thereunder, or against Contractor, Subcontractors, or Engineer, or the officers, directors, members, partners, employees, agents, consultants, or subcontractors of each and any of them, and that the insured is allowed to waive the insurer's rights of subrogation in a written contract executed prior to the loss, damage, or consequential loss.
1. Owner waives all rights against Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from fire or any of the perils, risks, or causes of loss covered by such policies.
- C. The waivers in this Paragraph 6.05 include the waiver of rights due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to Owner's property or the Work caused by, arising out of, or resulting from fire or other insured peril, risk, or cause of loss.
- D. Contractor shall be responsible for assuring that each Subcontract contains provisions whereby the Subcontractor waives all rights against Owner, Contractor, all individuals or entities identified in the Supplementary Conditions as insureds, the Engineer and its consultants, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, relating to, or resulting from fire or other peril, risk, or cause of loss covered by builder's risk insurance, installation floater, and any other property insurance applicable to the Work.

6.06 *Receipt and Application of Property Insurance Proceeds*

- A. Any insured loss under the builder's risk and other policies of property insurance required by Paragraph 6.04 will be adjusted and settled with the named insured that purchased the policy. Such named insured shall act as fiduciary for the other insureds, and give notice to such other insureds that adjustment and settlement of a claim is in progress. Any other insured may state its position regarding a claim for insured loss in writing within 15 days after notice of such claim.
- B. Proceeds for such insured losses may be made payable by the insurer either jointly to multiple insureds, or to the named insured that purchased the policy in its own right and as fiduciary for other insureds, subject to the requirements of any applicable mortgage clause. A named insured receiving insurance proceeds under the builder's risk and other policies of insurance required by Paragraph 6.04 shall maintain such proceeds in a segregated account, and distribute such proceeds in accordance with such agreement as the parties in interest may reach, or as otherwise required under the dispute resolution provisions of this Contract or applicable Laws and Regulations.
- C. If no other special agreement is reached, Contractor shall repair or replace the damaged Work, using allocated insurance proceeds.

**ARTICLE 7—CONTRACTOR'S RESPONSIBILITIES**

7.01 *Contractor's Means and Methods of Construction*

- A. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction.
- B. If the Contract Documents note, or Contractor determines, that professional engineering or other design services are needed to carry out Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures, or for Site safety, then Contractor shall cause such services to be provided by a properly licensed design professional, at Contractor's expense. Such services are not Owner-delegated professional design services under this Contract, and neither Owner nor Engineer has any responsibility with respect to (1) Contractor's determination of the need for such services, (2) the qualifications or licensing of the design professionals retained or employed by Contractor, (3) the performance of such services, or (4) any errors, omissions, or defects in such services.

7.02 *Supervision and Superintendence*

- A. Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents.
- B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who will not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

7.03 *Labor; Working Hours*

- A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall maintain good discipline and order at the Site.

- B. Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of Contractor's employees; of Suppliers and Subcontractors, and their employees; and of any other individuals or entities performing or furnishing any of the Work, just as Contractor is responsible for Contractor's own acts and omissions.
- C. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site will be performed during regular working hours, Monday through Friday. Contractor will not perform Work on a Saturday, Sunday, or any legal holiday. Contractor may perform Work outside regular working hours or on Saturdays, Sundays, or legal holidays only with Owner's written consent, which will not be unreasonably withheld.

7.04 *Services, Materials, and Equipment*

- A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start up, and completion of the Work, whether or not such items are specifically called for in the Contract Documents.
- B. All materials and equipment incorporated into the Work must be new and of good quality, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications will expressly run to the benefit of Owner. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment.
- C. All materials and equipment must be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

7.05 *"Or Equals"*

- A. *Contractor's Request; Governing Criteria:* Whenever an item of equipment or material is specified or described in the Contract Documents by using the names of one or more proprietary items or specific Suppliers, the Contract Price has been based upon Contractor furnishing such item as specified. The specification or description of such an item is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or equal" item is permitted, Contractor may request that Engineer authorize the use of other items of equipment or material, or items from other proposed Suppliers, under the circumstances described below.
  - 1. If Engineer in its sole discretion determines that an item of equipment or material proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required, Engineer will deem it an "or equal" item. For the purposes of this paragraph, a proposed item of equipment or material will be considered functionally equal to an item so named if:
    - a. in the exercise of reasonable judgment Engineer determines that the proposed item:
      - 1) is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics;

- 2) will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole;
  - 3) has a proven record of performance and availability of responsive service; and
  - 4) is not objectionable to Owner.
- b. Contractor certifies that, if the proposed item is approved and incorporated into the Work:
- 1) there will be no increase in cost to the Owner or increase in Contract Times; and
  - 2) the item will conform substantially to the detailed requirements of the item named in the Contract Documents.
- B. *Contractor's Expense*: Contractor shall provide all data in support of any proposed "or equal" item at Contractor's expense.
- C. *Engineer's Evaluation and Determination*: Engineer will be allowed a reasonable time to evaluate each "or-equal" request. Engineer may require Contractor to furnish additional data about the proposed "or-equal" item. Engineer will be the sole judge of acceptability. No "or-equal" item will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an "or-equal," which will be evidenced by an approved Shop Drawing or other written communication. Engineer will advise Contractor in writing of any negative determination.
- D. *Effect of Engineer's Determination*: Neither approval nor denial of an "or-equal" request will result in any change in Contract Price. The Engineer's denial of an "or-equal" request will be final and binding, and may not be reversed through an appeal under any provision of the Contract.
- E. *Treatment as a Substitution Request*: If Engineer determines that an item of equipment or material proposed by Contractor does not qualify as an "or-equal" item, Contractor may request that Engineer consider the item a proposed substitute pursuant to Paragraph 7.06.

#### 7.06 *Substitutes*

- A. *Contractor's Request; Governing Criteria*: Unless the specification or description of an item of equipment or material required to be furnished under the Contract Documents contains or is followed by words reading that no substitution is permitted, Contractor may request that Engineer authorize the use of other items of equipment or material under the circumstances described below. To the extent possible such requests must be made before commencement of related construction at the Site.
1. Contractor shall submit sufficient information as provided below to allow Engineer to determine if the item of material or equipment proposed is functionally equivalent to that named and an acceptable substitute therefor. Engineer will not accept requests for review of proposed substitute items of equipment or material from anyone other than Contractor.
  2. The requirements for review by Engineer will be as set forth in Paragraph 7.06.B, as supplemented by the Specifications, and as Engineer may decide is appropriate under the circumstances.

3. Contractor shall make written application to Engineer for review of a proposed substitute item of equipment or material that Contractor seeks to furnish or use. The application:
  - a. will certify that the proposed substitute item will:
    - 1) perform adequately the functions and achieve the results called for by the general design;
    - 2) be similar in substance to the item specified; and
    - 3) be suited to the same use as the item specified.
  - b. will state:
    - 1) the extent, if any, to which the use of the proposed substitute item will necessitate a change in Contract Times;
    - 2) whether use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item; and
    - 3) whether incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty.
  - c. will identify:
    - 1) all variations of the proposed substitute item from the item specified; and
    - 2) available engineering, sales, maintenance, repair, and replacement services.
  - d. will contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including but not limited to changes in Contract Price, shared savings, costs of redesign, and claims of other contractors affected by any resulting change.
- B. *Engineer's Evaluation and Determination*: Engineer will be allowed a reasonable time to evaluate each substitute request, and to obtain comments and direction from Owner. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No substitute will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an acceptable substitute. Engineer's determination will be evidenced by a Field Order or a proposed Change Order accounting for the substitution itself and all related impacts, including changes in Contract Price or Contract Times. Engineer will advise Contractor in writing of any negative determination.
- C. *Special Guarantee*: Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.
- D. *Reimbursement of Engineer's Cost*: Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor. Whether or not Engineer approves a substitute so proposed or submitted by Contractor, Contractor shall reimburse Owner for the reasonable charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the reasonable charges of Engineer for making changes in the Contract Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute.

- E. *Contractor's Expense*: Contractor shall provide all data in support of any proposed substitute at Contractor's expense.
- F. *Effect of Engineer's Determination*: If Engineer approves the substitution request, Contractor shall execute the proposed Change Order and proceed with the substitution. The Engineer's denial of a substitution request will be final and binding, and may not be reversed through an appeal under any provision of the Contract. Contractor may challenge the scope of reimbursement costs imposed under Paragraph 7.06.D, by timely submittal of a Change Proposal.

7.07 *Concerning Subcontractors and Suppliers*

- A. Contractor may retain Subcontractors and Suppliers for the performance of parts of the Work. Such Subcontractors and Suppliers must be acceptable to Owner. The Contractor's retention of a Subcontractor or Supplier for the performance of parts of the Work will not relieve Contractor's obligation to Owner to perform and complete the Work in accordance with the Contract Documents.
- B. Contractor shall retain specific Subcontractors and Suppliers for the performance of designated parts of the Work if required by the Contract to do so.
- C. Subsequent to the submittal of Contractor's Bid or final negotiation of the terms of the Contract, Owner may not require Contractor to retain any Subcontractor or Supplier to furnish or perform any of the Work against which Contractor has reasonable objection.
- D. Prior to entry into any binding subcontract or purchase order, Contractor shall submit to Owner the identity of the proposed Subcontractor or Supplier (unless Owner has already deemed such proposed Subcontractor or Supplier acceptable during the bidding process or otherwise). Such proposed Subcontractor or Supplier shall be deemed acceptable to Owner unless Owner raises a substantive, reasonable objection within 5 days.
- E. Owner may require the replacement of any Subcontractor or Supplier. Owner also may require Contractor to retain specific replacements; provided, however, that Owner may not require a replacement to which Contractor has a reasonable objection. If Contractor has submitted the identity of certain Subcontractors or Suppliers for acceptance by Owner, and Owner has accepted it (either in writing or by failing to make written objection thereto), then Owner may subsequently revoke the acceptance of any such Subcontractor or Supplier so identified solely on the basis of substantive, reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor or Supplier.
- F. If Owner requires the replacement of any Subcontractor or Supplier retained by Contractor to perform any part of the Work, then Contractor shall be entitled to an adjustment in Contract Price or Contract Times, with respect to the replacement; and Contractor shall initiate a Change Proposal for such adjustment within 30 days of Owner's requirement of replacement.
- G. No acceptance by Owner of any such Subcontractor or Supplier, whether initially or as a replacement, will constitute a waiver of the right of Owner to the completion of the Work in accordance with the Contract Documents.

- H. On a monthly basis, Contractor shall submit to Engineer a complete list of all Subcontractors and Suppliers having a direct contract with Contractor, and of all other Subcontractors and Suppliers known to Contractor at the time of submittal.
- I. Contractor shall be solely responsible for scheduling and coordinating the work of Subcontractors and Suppliers.
- J. The divisions and sections of the Specifications and the identifications of any Drawings do not control Contractor in dividing the Work among Subcontractors or Suppliers, or in delineating the Work to be performed by any specific trade.
- K. All Work performed for Contractor by a Subcontractor or Supplier must be pursuant to an appropriate contractual agreement that specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract for the benefit of Owner and Engineer.
- L. Owner may furnish to any Subcontractor or Supplier, to the extent practicable, information about amounts paid to Contractor for Work performed for Contractor by the Subcontractor or Supplier.
- M. Contractor shall restrict all Subcontractors and Suppliers from communicating with Engineer or Owner, except through Contractor or in case of an emergency, or as otherwise expressly allowed in this Contract.

7.08 *Patent Fees and Royalties*

- A. Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If an invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if, to the actual knowledge of Owner or Engineer, its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights will be disclosed in the Contract Documents.
- B. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, and its officers, directors, members, partners, employees, agents, consultants, and subcontractors, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device specified in the Contract Documents, but not identified as being subject to payment of any license fee or royalty to others required by patent rights or copyrights.
- C. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

#### 7.09 *Permits*

- A. Unless otherwise provided in the Contract Documents, Contractor shall obtain and pay for all construction permits, licenses, and certificates of occupancy. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of the submission of Contractor's Bid (or when Contractor became bound under a negotiated contract). Owner shall pay all charges of utility owners for connections for providing permanent service to the Work.

#### 7.10 *Taxes*

- A. Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

#### 7.11 *Laws and Regulations*

- A. Contractor shall give all notices required by and shall comply with all Laws and Regulations applicable to the performance of the Work. Neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations.
- B. If Contractor performs any Work or takes any other action knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all resulting costs and losses, and shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work or other action. It is not Contractor's responsibility to make certain that the Work described in the Contract Documents is in accordance with Laws and Regulations, but this does not relieve Contractor of its obligations under Paragraph 3.03.
- C. Owner or Contractor may give written notice to the other party of any changes after the submission of Contractor's Bid (or after the date when Contractor became bound under a negotiated contract) in Laws or Regulations having an effect on the cost or time of performance of the Work, including but not limited to changes in Laws or Regulations having an effect on procuring permits and on sales, use, value-added, consumption, and other similar taxes. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times resulting from such changes, then within 30 days of such written notice Contractor may submit a Change Proposal, or Owner may initiate a Claim.

#### 7.12 *Record Documents*

- A. Contractor shall maintain in a safe place at the Site one printed record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, written interpretations and clarifications, and approved Shop Drawings. Contractor shall keep such record documents in good order and annotate them to show changes made during construction. These record documents, together with all approved Samples, will be available to Engineer for reference. Upon completion of the Work, Contractor shall deliver these record documents to Engineer.

### 7.13 *Safety and Protection*

- A. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations.
- B. Contractor shall designate a qualified and experienced safety representative whose duties and responsibilities are the prevention of Work-related accidents and the maintenance and supervision of safety precautions and programs.
- C. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:
  - 1. all persons on the Site or who may be affected by the Work;
  - 2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
  - 3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other work in progress, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.
- D. All damage, injury, or loss to any property referred to in Paragraph 7.13.C.2 or 7.13.C.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor at its expense (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).
- E. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection.
- F. Contractor shall notify Owner; the owners of adjacent property; the owners of Underground Facilities and other utilities (if the identity of such owners is known to Contractor); and other contractors and utility owners performing work at or adjacent to the Site, in writing, when Contractor knows that prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property or work in progress.
- G. Contractor shall comply with the applicable requirements of Owner's safety programs, if any. Any Owner's safety programs that are applicable to the Work are identified or included in the Supplementary Conditions or Specifications.
- H. Contractor shall inform Owner and Engineer of the specific requirements of Contractor's safety program with which Owner's and Engineer's employees and representatives must comply while at the Site.

- I. Contractor's duties and responsibilities for safety and protection will continue until all the Work is completed, Engineer has issued a written notice to Owner and Contractor in accordance with Paragraph 15.06.C that the Work is acceptable, and Contractor has left the Site (except as otherwise expressly provided in connection with Substantial Completion).
- J. Contractor's duties and responsibilities for safety and protection will resume whenever Contractor or any Subcontractor or Supplier returns to the Site to fulfill warranty or correction obligations, or to conduct other tasks arising from the Contract Documents.

7.14 *Hazard Communication Programs*

- A. Contractor shall be responsible for coordinating any exchange of safety data sheets (formerly known as material safety data sheets) or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

7.15 *Emergencies*

- A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused by an emergency, or are required as a result of Contractor's response to an emergency. If Engineer determines that a change in the Contract Documents is required because of an emergency or Contractor's response, a Work Change Directive or Change Order will be issued.

7.16 *Submittals*

A. *Shop Drawing and Sample Requirements*

- 1. Before submitting a Shop Drawing or Sample, Contractor shall:
  - a. review and coordinate the Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents;
  - b. determine and verify:
    - 1) all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect to the Submittal;
    - 2) the suitability of all materials and equipment offered with respect to the indicated application, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work; and
    - 3) all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto;
  - c. confirm that the Submittal is complete with respect to all related data included in the Submittal.
- 2. Each Shop Drawing or Sample must bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review of that Submittal, and that Contractor approves the Submittal.

3. With each Shop Drawing or Sample, Contractor shall give Engineer specific written notice of any variations that the Submittal may have from the requirements of the Contract Documents. This notice must be set forth in a written communication separate from the Submittal; and, in addition, in the case of a Shop Drawing by a specific notation made on the Shop Drawing itself.
- B. *Submittal Procedures for Shop Drawings and Samples:* Contractor shall label and submit Shop Drawings and Samples to Engineer for review and approval in accordance with the accepted Schedule of Submittals.
1. *Shop Drawings*
    - a. Contractor shall submit the number of copies required in the Specifications.
    - b. Data shown on the Shop Drawings must be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to provide, and to enable Engineer to review the information for the limited purposes required by Paragraph 7.16.C.
  2. *Samples*
    - a. Contractor shall submit the number of Samples required in the Specifications.
    - b. Contractor shall clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the Submittal for the limited purposes required by Paragraph 7.16.C.
  3. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals, any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.
- C. *Engineer's Review of Shop Drawings and Samples*
1. Engineer will provide timely review of Shop Drawings and Samples in accordance with the accepted Schedule of Submittals. Engineer's review and approval will be only to determine if the items covered by the Submittals will, after installation or incorporation in the Work, comply with the requirements of the Contract Documents, and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.
  2. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction, or to safety precautions or programs incident thereto.
  3. Engineer's review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.
  4. Engineer's review and approval of a Shop Drawing or Sample will not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 7.16.A.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer will

document any such approved variation from the requirements of the Contract Documents in a Field Order or other appropriate Contract modification.

5. Engineer's review and approval of a Shop Drawing or Sample will not relieve Contractor from responsibility for complying with the requirements of Paragraphs 7.16.A and B.
6. Engineer's review and approval of a Shop Drawing or Sample, or of a variation from the requirements of the Contract Documents, will not, under any circumstances, change the Contract Times or Contract Price, unless such changes are included in a Change Order.
7. Neither Engineer's receipt, review, acceptance, or approval of a Shop Drawing or Sample will result in such item becoming a Contract Document.
8. Contractor shall perform the Work in compliance with the requirements and commitments set forth in approved Shop Drawings and Samples, subject to the provisions of Paragraph 7.16.C.4.

*D. Resubmittal Procedures for Shop Drawings and Samples*

1. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous Submittals.
2. Contractor shall furnish required Shop Drawing and Sample submittals with sufficient information and accuracy to obtain required approval of an item with no more than two resubmittals. Engineer will record Engineer's time for reviewing a third or subsequent resubmittal of a Shop Drawing or Sample, and Contractor shall be responsible for Engineer's charges to Owner for such time. Owner may impose a set-off against payments due Contractor to secure reimbursement for such charges.
3. If Contractor requests a change of a previously approved Shop Drawing or Sample, Contractor shall be responsible for Engineer's charges to Owner for its review time, and Owner may impose a set-off against payments due Contractor to secure reimbursement for such charges, unless the need for such change is beyond the control of Contractor.

*E. Submittals Other than Shop Drawings, Samples, and Owner-Delegated Designs*

1. The following provisions apply to all Submittals other than Shop Drawings, Samples, and Owner-delegated designs:
  - a. Contractor shall submit all such Submittals to the Engineer in accordance with the Schedule of Submittals and pursuant to the applicable terms of the Contract Documents.
  - b. Engineer will provide timely review of all such Submittals in accordance with the Schedule of Submittals and return such Submittals with a notation of either Accepted or Not Accepted. Any such Submittal that is not returned within the time established in the Schedule of Submittals will be deemed accepted.
  - c. Engineer's review will be only to determine if the Submittal is acceptable under the requirements of the Contract Documents as to general form and content of the Submittal.

- d. If any such Submittal is not accepted, Contractor shall confer with Engineer regarding the reason for the non-acceptance, and resubmit an acceptable document.
  2. Procedures for the submittal and acceptance of the Progress Schedule, the Schedule of Submittals, and the Schedule of Values are set forth in Paragraphs 2.03, 2.04, and 2.05.
- F. Owner-delegated Designs: Submittals pursuant to Owner-delegated designs are governed by the provisions of Paragraph 7.19.

**7.17 Contractor's General Warranty and Guarantee**

- A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer is entitled to rely on Contractor's warranty and guarantee.
- B. Owner's rights under this warranty and guarantee are in addition to, and are not limited by, Owner's rights under the correction period provisions of Paragraph 15.08. The time in which Owner may enforce its warranty and guarantee rights under this Paragraph 7.17 is limited only by applicable Laws and Regulations restricting actions to enforce such rights; provided, however, that after the end of the correction period under Paragraph 15.08:
1. Owner shall give Contractor written notice of any defective Work within 60 days of the discovery that such Work is defective; and
  2. Such notice will be deemed the start of an event giving rise to a Claim under Paragraph 12.01.B, such that any related Claim must be brought within 30 days of the notice.
- C. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:
1. abuse, or improper modification, maintenance, or operation, by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or
  2. normal wear and tear under normal usage.
- D. Contractor's obligation to perform and complete the Work in accordance with the Contract Documents is absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents, a release of Contractor's obligation to perform the Work in accordance with the Contract Documents, or a release of Owner's warranty and guarantee rights under this Paragraph 7.17:
1. Observations by Engineer;
  2. Recommendation by Engineer or payment by Owner of any progress or final payment;
  3. The issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;
  4. Use or occupancy of the Work or any part thereof by Owner;
  5. Any review and approval of a Shop Drawing or Sample submittal;
  6. The issuance of a notice of acceptability by Engineer;
  7. The end of the correction period established in Paragraph 15.08;
  8. Any inspection, test, or approval by others; or

9. Any correction of defective Work by Owner.
- E. If the Contract requires the Contractor to accept the assignment of a contract entered into by Owner, then the specific warranties, guarantees, and correction obligations contained in the assigned contract will govern with respect to Contractor's performance obligations to Owner for the Work described in the assigned contract.

7.18 *Indemnification*

- A. To the fullest extent permitted by Laws and Regulations, and in addition to any other obligations of Contractor under the Contract or otherwise, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, from losses, damages, costs, and judgments (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) arising from third-party claims or actions relating to or resulting from the performance or furnishing of the Work, provided that any such claim, action, loss, cost, judgment or damage is attributable to bodily injury, sickness, disease, or death, or to damage to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, but only to the extent caused by any negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable.
- B. In any and all claims against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraph 7.18.A will not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

7.19 *Delegation of Professional Design Services*

- A. Owner may require Contractor to provide professional design services for a portion of the Work by express delegation in the Contract Documents. Such delegation will specify the performance and design criteria that such services must satisfy, and the Submittals that Contractor must furnish to Engineer with respect to the Owner-delegated design.
- B. Contractor shall cause such Owner-delegated professional design services to be provided pursuant to the professional standard of care by a properly licensed design professional, whose signature and seal must appear on all drawings, calculations, specifications, certifications, and Submittals prepared by such design professional. Such design professional must issue all certifications of design required by Laws and Regulations.
- C. If a Shop Drawing or other Submittal related to the Owner-delegated design is prepared by Contractor, a Subcontractor, or others for submittal to Engineer, then such Shop Drawing or other Submittal must bear the written approval of Contractor's design professional when submitted by Contractor to Engineer.

- D. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy, and completeness of the services, certifications, and approvals performed or provided by the design professionals retained or employed by Contractor under an Owner-delegated design, subject to the professional standard of care and the performance and design criteria stated in the Contract Documents.
- E. Pursuant to this Paragraph 7.19, Engineer's review, approval, and other determinations regarding design drawings, calculations, specifications, certifications, and other Submittals furnished by Contractor pursuant to an Owner-delegated design will be only for the following limited purposes:
  - 1. Checking for conformance with the requirements of this Paragraph 7.19;
  - 2. Confirming that Contractor (through its design professionals) has used the performance and design criteria specified in the Contract Documents; and
  - 3. Establishing that the design furnished by Contractor is consistent with the design concept expressed in the Contract Documents.
- F. Contractor shall not be responsible for the adequacy of performance or design criteria specified by Owner or Engineer.
- G. Contractor is not required to provide professional services in violation of applicable Laws and Regulations.

## **ARTICLE 8—OTHER WORK AT THE SITE**

### **8.01 *Other Work***

- A. In addition to and apart from the Work under the Contract Documents, the Owner may perform other work at or adjacent to the Site. Such other work may be performed by Owner's employees, or through contracts between the Owner and third parties. Owner may also arrange to have third-party utility owners perform work on their utilities and facilities at or adjacent to the Site.
- B. If Owner performs other work at or adjacent to the Site with Owner's employees, or through contracts for such other work, then Owner shall give Contractor written notice thereof prior to starting any such other work. If Owner has advance information regarding the start of any third-party utility work that Owner has arranged to take place at or adjacent to the Site, Owner shall provide such information to Contractor.
- C. Contractor shall afford proper and safe access to the Site to each contractor that performs such other work, each utility owner performing other work, and Owner, if Owner is performing other work with Owner's employees, and provide a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work.
- D. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering such work; provided, however, that Contractor may cut or alter others' work with the written consent of Engineer and the others whose work will be affected.

- E. If the proper execution or results of any part of Contractor's Work depends upon work performed by others, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.
- F. The provisions of this article are not applicable to work that is performed by third-party utilities or other third-party entities without a contract with Owner, or that is performed without having been arranged by Owner. If such work occurs, then any related delay, disruption, or interference incurred by Contractor is governed by the provisions of Paragraph 4.05.C.3.

#### 8.02 *Coordination*

- A. If Owner intends to contract with others for the performance of other work at or adjacent to the Site, to perform other work at or adjacent to the Site with Owner's employees, or to arrange to have utility owners perform work at or adjacent to the Site, the following will be set forth in the Supplementary Conditions or provided to Contractor prior to the start of any such other work:
  - 1. The identity of the individual or entity that will have authority and responsibility for coordination of the activities among the various contractors;
  - 2. An itemization of the specific matters to be covered by such authority and responsibility; and
  - 3. The extent of such authority and responsibilities.
- B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

#### 8.03 *Legal Relationships*

- A. If, in the course of performing other work for Owner at or adjacent to the Site, the Owner's employees, any other contractor working for Owner, or any utility owner that Owner has arranged to perform work, causes damage to the Work or to the property of Contractor or its Subcontractors, or delays, disrupts, interferes with, or increases the scope or cost of the performance of the Work, through actions or inaction, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times. Contractor must submit any Change Proposal seeking an equitable adjustment in the Contract Price or the Contract Times under this paragraph within 30 days of the damaging, delaying, disrupting, or interfering event. The entitlement to, and extent of, any such equitable adjustment will take into account information (if any) regarding such other work that was provided to Contractor in the Contract Documents prior to the submittal of the Bid or the final negotiation of the terms of the Contract, and any remedies available to Contractor under Laws or Regulations concerning utility action or inaction. When applicable, any such equitable adjustment in Contract Price will be conditioned on Contractor assigning to Owner all Contractor's rights against such other contractor or utility owner with respect to the damage, delay, disruption, or interference that is the subject of the adjustment. Contractor's entitlement to an adjustment of the Contract Times or Contract Price is subject to the provisions of Paragraphs 4.05.D and 4.05.E.

- B. Contractor shall take reasonable and customary measures to avoid damaging, delaying, disrupting, or interfering with the work of Owner, any other contractor, or any utility owner performing other work at or adjacent to the Site.
  - 1. If Contractor fails to take such measures and as a result damages, delays, disrupts, or interferes with the work of any such other contractor or utility owner, then Owner may impose a set-off against payments due Contractor, and assign to such other contractor or utility owner the Owner's contractual rights against Contractor with respect to the breach of the obligations set forth in this Paragraph 8.03.B.
  - 2. When Owner is performing other work at or adjacent to the Site with Owner's employees, Contractor shall be liable to Owner for damage to such other work, and for the reasonable direct delay, disruption, and interference costs incurred by Owner as a result of Contractor's failure to take reasonable and customary measures with respect to Owner's other work. In response to such damage, delay, disruption, or interference, Owner may impose a set-off against payments due Contractor.
- C. If Contractor damages, delays, disrupts, or interferes with the work of any other contractor, or any utility owner performing other work at or adjacent to the Site, through Contractor's failure to take reasonable and customary measures to avoid such impacts, or if any claim arising out of Contractor's actions, inactions, or negligence in performance of the Work at or adjacent to the Site is made by any such other contractor or utility owner against Contractor, Owner, or Engineer, then Contractor shall (1) promptly attempt to settle the claim as to all parties through negotiations with such other contractor or utility owner, or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law, and (2) indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against any such claims, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such damage, delay, disruption, or interference.

## **ARTICLE 9—OWNER'S RESPONSIBILITIES**

### **9.01 *Communications to Contractor***

- A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

### **9.02 *Replacement of Engineer***

- A. Owner may at its discretion appoint an engineer to replace Engineer, provided Contractor makes no reasonable objection to the replacement engineer. The replacement engineer's status under the Contract Documents will be that of the former Engineer.

### **9.03 *Furnish Data***

- A. Owner shall promptly furnish the data required of Owner under the Contract Documents.

### **9.04 *Pay When Due***

- A. Owner shall make payments to Contractor when they are due as provided in the Agreement.

- 9.05 *Lands and Easements; Reports, Tests, and Drawings*
- A. Owner's duties with respect to providing lands and easements are set forth in Paragraph 5.01.
  - B. Owner's duties with respect to providing engineering surveys to establish reference points are set forth in Paragraph 4.03.
  - C. Article 5 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of conditions at the Site, and drawings of physical conditions relating to existing surface or subsurface structures at the Site.
- 9.06 *Insurance*
- A. Owner's responsibilities, if any, with respect to purchasing and maintaining liability and property insurance are set forth in Article 6.
- 9.07 *Change Orders*
- A. Owner's responsibilities with respect to Change Orders are set forth in Article 11.
- 9.08 *Inspections, Tests, and Approvals*
- A. Owner's responsibility with respect to certain inspections, tests, and approvals is set forth in Paragraph 14.02.B.
- 9.09 *Limitations on Owner's Responsibilities*
- A. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.
- 9.10 *Undisclosed Hazardous Environmental Condition*
- A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 5.06.
- 9.11 *Evidence of Financial Arrangements*
- A. Upon request of Contractor, Owner shall furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract (including obligations under proposed changes in the Work).
- 9.12 *Safety Programs*
- A. While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed.
  - B. Owner shall furnish copies of any applicable Owner safety programs to Contractor.

## ARTICLE 10—ENGINEER'S STATUS DURING CONSTRUCTION

### 10.01 *Owner's Representative*

- A. Engineer will be Owner's representative during the construction period. The duties and responsibilities and the limitations of authority of Engineer as Owner's representative during construction are set forth in the Contract.

### 10.02 *Visits to Site*

- A. Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe, as an experienced and qualified design professional, the progress that has been made and the quality of the various aspects of Contractor's executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer's efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, Engineer will keep Owner informed of the progress of the Work and will endeavor to guard Owner against defective Work.
- B. Engineer's visits and observations are subject to all the limitations on Engineer's authority and responsibility set forth in Paragraph 10.07. Particularly, but without limitation, during or as a result of Engineer's visits or observations of Contractor's Work, Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

### 10.03 *Resident Project Representative*

- A. If Owner and Engineer have agreed that Engineer will furnish a Resident Project Representative to represent Engineer at the Site and assist Engineer in observing the progress and quality of the Work, then the authority and responsibilities of any such Resident Project Representative will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in the Supplementary Conditions and in Paragraph 10.07.
- B. If Owner designates an individual or entity who is not Engineer's consultant, agent, or employee to represent Owner at the Site, then the responsibilities and authority of such individual or entity will be as provided in the Supplementary Conditions.

### 10.04 *Engineer's Authority*

- A. Engineer has the authority to reject Work in accordance with Article 14.
- B. Engineer's authority as to Submittals is set forth in Paragraph 7.16.
- C. Engineer's authority as to design drawings, calculations, specifications, certifications and other Submittals from Contractor in response to Owner's delegation (if any) to Contractor of professional design services, is set forth in Paragraph 7.19.
- D. Engineer's authority as to changes in the Work is set forth in Article 11.

E. Engineer's authority as to Applications for Payment is set forth in Article 15.

10.05 *Determinations for Unit Price Work*

A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor as set forth in Paragraph 13.03.

10.06 *Decisions on Requirements of Contract Documents and Acceptability of Work*

A. Engineer will render decisions regarding the requirements of the Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth herein for initial interpretations, Change Proposals, and acceptance of the Work. In rendering such decisions and judgments, Engineer will not show partiality to Owner or Contractor, and will not be liable to Owner, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

10.07 *Limitations on Engineer's Authority and Responsibilities*

A. Neither Engineer's authority or responsibility under this Article 10 or under any other provision of the Contract, nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer, will create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.

B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.

D. Engineer's review of the final Application for Payment and accompanying documentation, and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Contractor under Paragraph 15.06.A, will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals, that the results certified indicate compliance with the Contract Documents.

E. The limitations upon authority and responsibility set forth in this Paragraph 10.07 also apply to the Resident Project Representative, if any.

10.08 *Compliance with Safety Program*

A. While at the Site, Engineer's employees and representatives will comply with the specific applicable requirements of Owner's and Contractor's safety programs of which Engineer has been informed.

## ARTICLE 11—CHANGES TO THE CONTRACT

### 11.01 *Amending and Supplementing the Contract*

- A. The Contract may be amended or supplemented by a Change Order, a Work Change Directive, or a Field Order.
- B. If an amendment or supplement to the Contract includes a change in the Contract Price or the Contract Times, such amendment or supplement must be set forth in a Change Order.
- C. All changes to the Contract that involve (1) the performance or acceptability of the Work, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, must be supported by Engineer's recommendation. Owner and Contractor may amend other terms and conditions of the Contract without the recommendation of the Engineer.

### 11.02 *Change Orders*

- A. Owner and Contractor shall execute appropriate Change Orders covering:
  - 1. Changes in Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive;
  - 2. Changes in Contract Price resulting from an Owner set-off, unless Contractor has duly contested such set-off;
  - 3. Changes in the Work which are: (a) ordered by Owner pursuant to Paragraph 11.05, (b) required because of Owner's acceptance of defective Work under Paragraph 14.04 or Owner's correction of defective Work under Paragraph 14.07, or (c) agreed to by the parties, subject to the need for Engineer's recommendation if the change in the Work involves the design (as set forth in the Drawings, Specifications, or otherwise) or other engineering or technical matters; and
  - 4. Changes that embody the substance of any final and binding results under: Paragraph 11.03.B, resolving the impact of a Work Change Directive; Paragraph 11.09, concerning Change Proposals; Article 12, Claims; Paragraph 13.02.D, final adjustments resulting from allowances; Paragraph 13.03.D, final adjustments relating to determination of quantities for Unit Price Work; and similar provisions.
- B. If Owner or Contractor refuses to execute a Change Order that is required to be executed under the terms of Paragraph 11.02.A, it will be deemed to be of full force and effect, as if fully executed.

### 11.03 *Work Change Directives*

- A. A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the modification ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order, following negotiations by the parties as to the Work Change Directive's effect, if any, on the Contract Price and Contract Times; or, if negotiations are unsuccessful, by a determination under the terms of the Contract Documents governing adjustments, expressly including Paragraph 11.07 regarding change of Contract Price.

- B. If Owner has issued a Work Change Directive and:
  - 1. Contractor believes that an adjustment in Contract Times or Contract Price is necessary, then Contractor shall submit any Change Proposal seeking such an adjustment no later than 30 days after the completion of the Work set out in the Work Change Directive.
  - 2. Owner believes that an adjustment in Contract Times or Contract Price is necessary, then Owner shall submit any Claim seeking such an adjustment no later than 60 days after issuance of the Work Change Directive.

#### 11.04 *Field Orders*

- A. Engineer may authorize minor changes in the Work if the changes do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Such changes will be accomplished by a Field Order and will be binding on Owner and also on Contractor, which shall perform the Work involved promptly.
- B. If Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, then before proceeding with the Work at issue, Contractor shall submit a Change Proposal as provided herein.

#### 11.05 *Owner-Authorized Changes in the Work*

- A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work. Changes involving the design (as set forth in the Drawings, Specifications, or otherwise) or other engineering or technical matters will be supported by Engineer's recommendation.
- B. Such changes in the Work may be accomplished by a Change Order, if Owner and Contractor have agreed as to the effect, if any, of the changes on Contract Times or Contract Price; or by a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved; or, in the case of a deletion in the Work, promptly cease construction activities with respect to such deleted Work. Added or revised Work must be performed under the applicable conditions of the Contract Documents.
- C. Nothing in this Paragraph 11.05 obligates Contractor to undertake work that Contractor reasonably concludes cannot be performed in a manner consistent with Contractor's safety obligations under the Contract Documents or Laws and Regulations.

#### 11.06 *Unauthorized Changes in the Work*

- A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents, as amended, modified, or supplemented, except in the case of an emergency as provided in Paragraph 7.15 or in the case of uncovering Work as provided in Paragraph 14.05.C.2.

#### 11.07 *Change of Contract Price*

- A. The Contract Price may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Price must comply with the provisions of Paragraph 11.09. Any Claim for an adjustment of Contract Price must comply with the provisions of Article 12.
- B. An adjustment in the Contract Price will be determined as follows:

1. Where the Work involved is covered by unit prices contained in the Contract Documents, then by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 13.03);
  2. Where the Work involved is not covered by unit prices contained in the Contract Documents, then by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 11.07.C.2); or
  3. Where the Work involved is not covered by unit prices contained in the Contract Documents and the parties do not reach mutual agreement to a lump sum, then on the basis of the Cost of the Work (determined as provided in Paragraph 13.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 11.07.C).
- C. *Contractor's Fee:* When applicable, the Contractor's fee for overhead and profit will be determined as follows:
1. A mutually acceptable fixed fee; or
  2. If a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:
    - a. For costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2, the Contractor's fee will be 15 percent;
    - b. For costs incurred under Paragraph 13.01.B.3, the Contractor's fee will be 5 percent;
    - c. Where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraphs 11.07.C.2.a and 11.07.C.2.b is that the Contractor's fee will be based on: (1) a fee of 15 percent of the costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2 by the Subcontractor that actually performs the Work, at whatever tier, and (2) with respect to Contractor itself and to any Subcontractors of a tier higher than that of the Subcontractor that actually performs the Work, a fee of 5 percent of the amount (fee plus underlying costs incurred) attributable to the next lower tier Subcontractor; provided, however, that for any such subcontracted Work the maximum total fee to be paid by Owner will be no greater than 27 percent of the costs incurred by the Subcontractor that actually performs the Work;
    - d. No fee will be payable on the basis of costs itemized under Paragraphs 13.01.B.4, 13.01.B.5, and 13.01.C;
    - e. The amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in Cost of the Work will be the amount of the actual net decrease in Cost of the Work and a deduction of an additional amount equal to 5 percent of such actual net decrease in Cost of the Work; and
    - f. When both additions and credits are involved in any one change or Change Proposal, the adjustment in Contractor's fee will be computed by determining the sum of the costs in each of the cost categories in Paragraph 13.01.B (specifically, payroll costs, Paragraph 13.01.B.1; incorporated materials and equipment costs, Paragraph 13.01.B.2; Subcontract costs, Paragraph 13.01.B.3; special consultants costs, Paragraph 13.01.B.4; and other costs, Paragraph 13.01.B.5) and applying to each such cost category sum the appropriate fee from Paragraphs 11.07.C.2.a through 11.07.C.2.e, inclusive.

#### 11.08 *Change of Contract Times*

- A. The Contract Times may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Times must comply with the provisions of Paragraph 11.09. Any Claim for an adjustment in the Contract Times must comply with the provisions of Article 12.
- B. Delay, disruption, and interference in the Work, and any related changes in Contract Times, are addressed in and governed by Paragraph 4.05.

#### 11.09 *Change Proposals*

A. *Purpose and Content:* Contractor shall submit a Change Proposal to Engineer to request an adjustment in the Contract Times or Contract Price; contest an initial decision by Engineer concerning the requirements of the Contract Documents or relating to the acceptability of the Work under the Contract Documents; challenge a set-off against payment due; or seek other relief under the Contract. The Change Proposal will specify any proposed change in Contract Times or Contract Price, or other proposed relief, and explain the reason for the proposed change, with citations to any governing or applicable provisions of the Contract Documents. Each Change Proposal will address only one issue, or a set of closely related issues.

#### B. *Change Proposal Procedures*

1. *Submittal:* Contractor shall submit each Change Proposal to Engineer within 30 days after the start of the event giving rise thereto, or after such initial decision.
2. *Supporting Data:* The Contractor shall submit supporting data, including the proposed change in Contract Price or Contract Time (if any), to the Engineer and Owner within 15 days after the submittal of the Change Proposal.
  - a. Change Proposals based on or related to delay, interruption, or interference must comply with the provisions of Paragraphs 4.05.D and 4.05.E.
  - b. Change proposals related to a change of Contract Price must include full and detailed accounts of materials incorporated into the Work and labor and equipment used for the subject Work.

The supporting data must be accompanied by a written statement that the supporting data are accurate and complete, and that any requested time or price adjustment is the entire adjustment to which Contractor believes it is entitled as a result of said event.

3. *Engineer's Initial Review:* Engineer will advise Owner regarding the Change Proposal, and consider any comments or response from Owner regarding the Change Proposal. If in its discretion Engineer concludes that additional supporting data is needed before conducting a full review and making a decision regarding the Change Proposal, then Engineer may request that Contractor submit such additional supporting data by a date specified by Engineer, prior to Engineer beginning its full review of the Change Proposal.
4. *Engineer's Full Review and Action on the Change Proposal:* Upon receipt of Contractor's supporting data (including any additional data requested by Engineer), Engineer will conduct a full review of each Change Proposal and, within 30 days after such receipt of the Contractor's supporting data, either approve the Change Proposal in whole, deny it in whole, or approve it in part and deny it in part. Such actions must be in writing, with a copy provided to Owner and Contractor. If Engineer does not take action on the Change

Proposal within 30 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of Engineer's inaction the Change Proposal is deemed denied, thereby commencing the time for appeal of the denial under Article 12.

5. *Binding Decision*: Engineer's decision is final and binding upon Owner and Contractor, unless Owner or Contractor appeals the decision by filing a Claim under Article 12.
- C. *Resolution of Certain Change Proposals*: If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties in writing that the Engineer is unable to resolve the Change Proposal. For purposes of further resolution of such a Change Proposal, such notice will be deemed a denial, and Contractor may choose to seek resolution under the terms of Article 12.
- D. *Post-Completion*: Contractor shall not submit any Change Proposals after Engineer issues a written recommendation of final payment pursuant to Paragraph 15.06.B.

#### 11.10 *Notification to Surety*

- A. If the provisions of any bond require notice to be given to a surety of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times), the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

### **ARTICLE 12—CLAIMS**

#### 12.01 *Claims*

- A. *Claims Process*: The following disputes between Owner and Contractor are subject to the Claims process set forth in this article:
  1. Appeals by Owner or Contractor of Engineer's decisions regarding Change Proposals;
  2. Owner demands for adjustments in the Contract Price or Contract Times, or other relief under the Contract Documents;
  3. Disputes that Engineer has been unable to address because they do not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters; and
  4. Subject to the waiver provisions of Paragraph 15.07, any dispute arising after Engineer has issued a written recommendation of final payment pursuant to Paragraph 15.06.B.
- B. *Submittal of Claim*: The party submitting a Claim shall deliver it directly to the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto; in the case of appeals regarding Change Proposals within 30 days of the decision under appeal. The party submitting the Claim shall also furnish a copy to the Engineer, for its information only. The responsibility to substantiate a Claim rests with the party making the Claim. In the case of a Claim by Contractor seeking an increase in the Contract Times or Contract Price, Contractor shall certify that the Claim is made in good faith, that the supporting data are accurate and complete, and that to the best of Contractor's knowledge

and belief the amount of time or money requested accurately reflects the full amount to which Contractor is entitled.

- C. *Review and Resolution*: The party receiving a Claim shall review it thoroughly, giving full consideration to its merits. The two parties shall seek to resolve the Claim through the exchange of information and direct negotiations. The parties may extend the time for resolving the Claim by mutual agreement. All actions taken on a Claim will be stated in writing and submitted to the other party, with a copy to Engineer.
- D. *Mediation*
  - 1. At any time after initiation of a Claim, Owner and Contractor may mutually agree to mediation of the underlying dispute. The agreement to mediate will stay the Claim submittal and response process.
  - 2. If Owner and Contractor agree to mediation, then after 60 days from such agreement, either Owner or Contractor may unilaterally terminate the mediation process, and the Claim submittal and decision process will resume as of the date of the termination. If the mediation proceeds but is unsuccessful in resolving the dispute, the Claim submittal and decision process will resume as of the date of the conclusion of the mediation, as determined by the mediator.
  - 3. Owner and Contractor shall each pay one-half of the mediator's fees and costs.
- E. *Partial Approval*: If the party receiving a Claim approves the Claim in part and denies it in part, such action will be final and binding unless within 30 days of such action the other party invokes the procedure set forth in Article 17 for final resolution of disputes.
- F. *Denial of Claim*: If efforts to resolve a Claim are not successful, the party receiving the Claim may deny it by giving written notice of denial to the other party. If the receiving party does not take action on the Claim within 90 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of the inaction, the Claim is deemed denied, thereby commencing the time for appeal of the denial. A denial of the Claim will be final and binding unless within 30 days of the denial the other party invokes the procedure set forth in Article 17 for the final resolution of disputes.
- G. *Final and Binding Results*: If the parties reach a mutual agreement regarding a Claim, whether through approval of the Claim, direct negotiations, mediation, or otherwise; or if a Claim is approved in part and denied in part, or denied in full, and such actions become final and binding; then the results of the agreement or action on the Claim will be incorporated in a Change Order or other written document to the extent they affect the Contract, including the Work, the Contract Times, or the Contract Price.

## **ARTICLE 13—COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK**

### **13.01 *Cost of the Work***

- A. *Purposes for Determination of Cost of the Work*: The term Cost of the Work means the sum of all costs necessary for the proper performance of the Work at issue, as further defined below. The provisions of this Paragraph 13.01 are used for two distinct purposes:
  - 1. To determine Cost of the Work when Cost of the Work is a component of the Contract Price, under cost-plus-fee, time-and-materials, or other cost-based terms; or

2. When needed to determine the value of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price. When the value of any such adjustment is determined on the basis of Cost of the Work, Contractor is entitled only to those additional or incremental costs required because of the change in the Work or because of the event giving rise to the adjustment.
- B. *Costs Included:* Except as otherwise may be agreed to in writing by Owner, costs included in the Cost of the Work will be in amounts no higher than those commonly incurred in the locality of the Project, will not include any of the costs itemized in Paragraph 13.01.C, and will include only the following items:
1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor in advance of the subject Work. Such employees include, without limitation, superintendents, foremen, safety managers, safety representatives, and other personnel employed full time on the Work. Payroll costs for employees not employed full time on the Work will be apportioned on the basis of their time spent on the Work. Payroll costs include, but are not limited to, salaries and wages plus the cost of fringe benefits, which include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, sick leave, and vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, will be included in the above to the extent authorized by Owner.
  2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts will accrue to Owner. All trade discounts, rebates, and refunds and returns from sale of surplus materials and equipment will accrue to Owner, and Contractor shall make provisions so that they may be obtained.
  3. Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from subcontractors acceptable to Owner and Contractor and shall deliver such bids to Owner, which will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee will be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph 13.01.
  4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed or retained for services specifically related to the Work.
  5. Other costs consisting of the following:
    - a. The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.
    - b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, which are

consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.

- 1) In establishing included costs for materials such as scaffolding, plating, or sheeting, consideration will be given to the actual or the estimated life of the material for use on other projects; or rental rates may be established on the basis of purchase or salvage value of such items, whichever is less. Contractor will not be eligible for compensation for such items in an amount that exceeds the purchase cost of such item.

c. *Construction Equipment Rental*

- 1) Rentals of all construction equipment and machinery, and the parts thereof, in accordance with rental agreements approved by Owner as to price (including any surcharge or special rates applicable to overtime use of the construction equipment or machinery), and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs will be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts must cease when the use thereof is no longer necessary for the Work.
- 2) Costs for equipment and machinery owned by Contractor or a Contractor-related entity will be paid at a rate shown for such equipment in the equipment rental rate book specified in the Supplementary Conditions. An hourly rate will be computed by dividing the monthly rates by 176. These computed rates will include all operating costs.
- 3) With respect to Work that is the result of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price ("changed Work"), included costs will be based on the time the equipment or machinery is in use on the changed Work and the costs of transportation, loading, unloading, assembly, dismantling, and removal when directly attributable to the changed Work. The cost of any such equipment or machinery, or parts thereof, must cease to accrue when the use thereof is no longer necessary for the changed Work.

- d. Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, as imposed by Laws and Regulations.
- e. Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
- f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of builder's risk or other property insurance established in accordance with Paragraph 6.04), provided such losses and damages have resulted from causes other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses will be included in the Cost of the Work for the purpose of determining Contractor's fee.

- g. The cost of utilities, fuel, and sanitary facilities at the Site.
- h. Minor expenses such as communication service at the Site, express and courier services, and similar petty cash items in connection with the Work.
- i. The costs of premiums for all bonds and insurance that Contractor is required by the Contract Documents to purchase and maintain.

C. *Costs Excluded*: The term Cost of the Work does not include any of the following items:

- 1. Payroll costs and other compensation of Contractor's officers, executives, principals, general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 13.01.B.1 or specifically covered by Paragraph 13.01.B.4. The payroll costs and other compensation excluded here are to be considered administrative costs covered by the Contractor's fee.
- 2. The cost of purchasing, renting, or furnishing small tools and hand tools.
- 3. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.
- 4. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.
- 5. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.
- 6. Expenses incurred in preparing and advancing Claims.
- 7. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 13.01.B.

D. *Contractor's Fee*

- 1. When the Work as a whole is performed on the basis of cost-plus-a-fee, then:
  - a. Contractor's fee for the Work set forth in the Contract Documents as of the Effective Date of the Contract will be determined as set forth in the Agreement.
  - b. for any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price on the basis of Cost of the Work, Contractor's fee will be determined as follows:
    - 1) When the fee for the Work as a whole is a percentage of the Cost of the Work, the fee will automatically adjust as the Cost of the Work changes.
    - 2) When the fee for the Work as a whole is a fixed fee, the fee for any additions or deletions will be determined in accordance with Paragraph 11.07.C.2.
- 2. When the Work as a whole is performed on the basis of a stipulated sum, or any other basis other than cost-plus-a-fee, then Contractor's fee for any Work covered by a Change

Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price on the basis of Cost of the Work will be determined in accordance with Paragraph 11.07.C.2.

- E. *Documentation and Audit*: Whenever the Cost of the Work for any purpose is to be determined pursuant to this Article 13, Contractor and pertinent Subcontractors will establish and maintain records of the costs in accordance with generally accepted accounting practices. Subject to prior written notice, Owner will be afforded reasonable access, during normal business hours, to all Contractor's accounts, records, books, correspondence, instructions, drawings, receipts, vouchers, memoranda, and similar data relating to the Cost of the Work and Contractor's fee. Contractor shall preserve all such documents for a period of three years after the final payment by Owner. Pertinent Subcontractors will afford such access to Owner, and preserve such documents, to the same extent required of Contractor.

### 13.02 Allowances

- A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.
- B. *Cash Allowances*: Contractor agrees that:
1. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and
  2. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment for any of the foregoing will be valid.
- C. *Owner's Contingency Allowance*: Contractor agrees that an Owner's contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.
- D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor for Work covered by allowances, and the Contract Price will be correspondingly adjusted.

### 13.03 Unit Price Work

- A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.
- B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Payments to Contractor for Unit Price Work will be based on actual quantities.
- C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.
- D. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision

thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, and the final adjustment of Contract Price will be set forth in a Change Order, subject to the provisions of the following paragraph.

E. *Adjustments in Unit Price*

1. Contractor or Owner shall be entitled to an adjustment in the unit price with respect to an item of Unit Price Work if:
  - a. the quantity of the item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Agreement; and
  - b. Contractor's unit costs to perform the item of Unit Price Work have changed materially and significantly as a result of the quantity change.
2. The adjustment in unit price will account for and be coordinated with any related changes in quantities of other items of Work, and in Contractor's costs to perform such other Work, such that the resulting overall change in Contract Price is equitable to Owner and Contractor.
3. Adjusted unit prices will apply to all units of that item.

**ARTICLE 14—TESTS AND INSPECTIONS; CORRECTION, REMOVAL, OR ACCEPTANCE OF DEFECTIVE WORK**

14.01 *Access to Work*

- A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and authorities having jurisdiction have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply with such procedures and programs as applicable.

14.02 *Tests, Inspections, and Approvals*

- A. Contractor shall give Engineer timely notice of readiness of the Work (or specific parts thereof) for all required inspections and tests, and shall cooperate with inspection and testing personnel to facilitate required inspections and tests.
- B. Owner shall retain and pay for the services of an independent inspector, testing laboratory, or other qualified individual or entity to perform all inspections and tests expressly required by the Contract Documents to be furnished and paid for by Owner, except that costs incurred in connection with tests or inspections of covered Work will be governed by the provisions of Paragraph 14.05.
- C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.

- D. Contractor shall be responsible for arranging, obtaining, and paying for all inspections and tests required:
1. by the Contract Documents, unless the Contract Documents expressly allocate responsibility for a specific inspection or test to Owner;
  2. to attain Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work;
  3. by manufacturers of equipment furnished under the Contract Documents;
  4. for testing, adjusting, and balancing of mechanical, electrical, and other equipment to be incorporated into the Work; and
  5. for acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.

Such inspections and tests will be performed by independent inspectors, testing laboratories, or other qualified individuals or entities acceptable to Owner and Engineer.

- E. If the Contract Documents require the Work (or part thereof) to be approved by Owner, Engineer, or another designated individual or entity, then Contractor shall assume full responsibility for arranging and obtaining such approvals.
- F. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation. Such uncovering will be at Contractor's expense unless Contractor had given Engineer timely notice of Contractor's intention to cover the same and Engineer had not acted with reasonable promptness in response to such notice.

#### 14.03 *Defective Work*

- A. *Contractor's Obligation:* It is Contractor's obligation to assure that the Work is not defective.
- B. *Engineer's Authority:* Engineer has the authority to determine whether Work is defective, and to reject defective Work.
- C. *Notice of Defects:* Prompt written notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor.
- D. *Correction, or Removal and Replacement:* Promptly after receipt of written notice of defective Work, Contractor shall correct all such defective Work, whether or not fabricated, installed, or completed, or, if Engineer has rejected the defective Work, remove it from the Project and replace it with Work that is not defective.
- E. *Preservation of Warranties:* When correcting defective Work, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.
- F. *Costs and Damages:* In addition to its correction, removal, and replacement obligations with respect to defective Work, Contractor shall pay all claims, costs, losses, and damages arising out of or relating to defective Work, including but not limited to the cost of the inspection, testing, correction, removal, replacement, or reconstruction of such defective Work, fines levied against Owner by governmental authorities because the Work is defective, and the costs of repair or replacement of work of others resulting from defective Work. Prior to final payment, if Owner and Contractor are unable to agree as to the measure of such claims, costs,

losses, and damages resulting from defective Work, then Owner may impose a reasonable set-off against payments due under Article 15.

#### 14.04 *Acceptance of Defective Work*

- A. If, instead of requiring correction or removal and replacement of defective Work, Owner prefers to accept it, Owner may do so (subject, if such acceptance occurs prior to final payment, to Engineer's confirmation that such acceptance is in general accord with the design intent and applicable engineering principles, and will not endanger public safety). Contractor shall pay all claims, costs, losses, and damages attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness), and for the diminished value of the Work to the extent not otherwise paid by Contractor. If any such acceptance occurs prior to final payment, the necessary revisions in the Contract Documents with respect to the Work will be incorporated in a Change Order. If the parties are unable to agree as to the decrease in the Contract Price, reflecting the diminished value of Work so accepted, then Owner may impose a reasonable set-off against payments due under Article 15. If the acceptance of defective Work occurs after final payment, Contractor shall pay an appropriate amount to Owner.

#### 14.05 *Uncovering Work*

- A. Engineer has the authority to require additional inspection or testing of the Work, whether or not the Work is fabricated, installed, or completed.
- B. If any Work is covered contrary to the written request of Engineer, then Contractor shall, if requested by Engineer, uncover such Work for Engineer's observation, and then replace the covering, all at Contractor's expense.
- C. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, then Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, and provide all necessary labor, material, and equipment.
  - 1. If it is found that the uncovered Work is defective, Contractor shall be responsible for all claims, costs, losses, and damages arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and pending Contractor's full discharge of this responsibility the Owner shall be entitled to impose a reasonable set-off against payments due under Article 15.
  - 2. If the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, then Contractor may submit a Change Proposal within 30 days of the determination that the Work is not defective.

#### 14.06 *Owner May Stop the Work*

- A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, then Owner may order Contractor to stop the Work,

or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work will not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

**14.07 Owner May Correct Defective Work**

- A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work, or to remove and replace defective Work as required by Engineer, then Owner may, after 7 days' written notice to Contractor, correct or remedy any such deficiency.
- B. In exercising the rights and remedies under this Paragraph 14.07, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this paragraph.
- C. All claims, costs, losses, and damages incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 14.07 will be charged against Contractor as set-offs against payments due under Article 15. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.
- D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 14.07.

**ARTICLE 15—PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD**

**15.01 Progress Payments**

- A. *Basis for Progress Payments:* The Schedule of Values established as provided in Article 2 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments for Unit Price Work will be based on the number of units completed during the pay period, as determined under the provisions of Paragraph 13.03. Progress payments for cost-based Work will be based on Cost of the Work completed by Contractor during the pay period.
- B. *Applications for Payments*
  - 1. At least 20 days before the date established in the Agreement for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents.
  - 2. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment must also be accompanied by: (a) a bill of sale, invoice, copies of subcontract or purchase order payments, or other documentation

establishing full payment by Contractor for the materials and equipment; (b) at Owner's request, documentation warranting that Owner has received the materials and equipment free and clear of all Liens; and (c) evidence that the materials and equipment are covered by appropriate property insurance, a warehouse bond, or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

3. Beginning with the second Application for Payment, each Application must include an affidavit of Contractor stating that all previous progress payments received by Contractor have been applied to discharge Contractor's legitimate obligations associated with prior Applications for Payment.
4. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

C. *Review of Applications*

1. Engineer will, within 10 days after receipt of each Application for Payment, including each resubmittal, either indicate in writing a recommendation of payment and present the Application to Owner, or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.
2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations of the executed Work as an experienced and qualified design professional, and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:
  - a. the Work has progressed to the point indicated;
  - b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, the results of any subsequent tests called for in the Contract Documents, a final determination of quantities and classifications for Unit Price Work under Paragraph 13.03, and any other qualifications stated in the recommendation); and
  - c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.
3. By recommending any such payment Engineer will not thereby be deemed to have represented that:
  - a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract; or
  - b. there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.

4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:
  - a. to supervise, direct, or control the Work;
  - b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto;
  - c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work;
  - d. to make any examination to ascertain how or for what purposes Contractor has used the money paid by Owner; or
  - e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.
5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 15.01.C.2.
6. Engineer will recommend reductions in payment (set-offs) necessary in Engineer's opinion to protect Owner from loss because:
  - a. the Work is defective, requiring correction or replacement;
  - b. the Contract Price has been reduced by Change Orders;
  - c. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
  - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible; or
  - e. Engineer has actual knowledge of the occurrence of any of the events that would constitute a default by Contractor and therefore justify termination for cause under the Contract Documents.

**D. *Payment Becomes Due***

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended (subject to any Owner set-offs) will become due, and when due will be paid by Owner to Contractor.

**E. *Reductions in Payment by Owner***

1. In addition to any reductions in payment (set-offs) recommended by Engineer, Owner is entitled to impose a set-off against payment based on any of the following:
  - a. Claims have been made against Owner based on Contractor's conduct in the performance or furnishing of the Work, or Owner has incurred costs, losses, or damages resulting from Contractor's conduct in the performance or furnishing of the Work, including but not limited to claims, costs, losses, or damages from workplace injuries, adjacent property damage, non-compliance with Laws and Regulations, and patent infringement;

- b. Contractor has failed to take reasonable and customary measures to avoid damage, delay, disruption, and interference with other work at or adjacent to the Site;
  - c. Contractor has failed to provide and maintain required bonds or insurance;
  - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible;
  - e. Owner has incurred extra charges or engineering costs related to submittal reviews, evaluations of proposed substitutes, tests and inspections, or return visits to manufacturing or assembly facilities;
  - f. The Work is defective, requiring correction or replacement;
  - g. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
  - h. The Contract Price has been reduced by Change Orders;
  - i. An event has occurred that would constitute a default by Contractor and therefore justify a termination for cause;
  - j. Liquidated or other damages have accrued as a result of Contractor's failure to achieve Milestones, Substantial Completion, or final completion of the Work;
  - k. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens; or
  - l. Other items entitle Owner to a set-off against the amount recommended.
2. If Owner imposes any set-off against payment, whether based on its own knowledge or on the written recommendations of Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and the specific amount of the reduction, and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, if Contractor remedies the reasons for such action. The reduction imposed will be binding on Contractor unless it duly submits a Change Proposal contesting the reduction.
  3. Upon a subsequent determination that Owner's refusal of payment was not justified, the amount wrongfully withheld will be treated as an amount due as determined by Paragraph 15.01.D.1 and subject to interest as provided in the Agreement.

**15.02 Contractor's Warranty of Title**

- A. Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Contract will pass to Owner free and clear of (1) all Liens and other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than 7 days after the time of payment by Owner.

**15.03 Substantial Completion**

- A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete and request that Engineer issue a certificate of Substantial Completion. Contractor shall at the same time

submit to Owner and Engineer an initial draft of punch list items to be completed or corrected before final payment.

- B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.
- C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a preliminary certificate of Substantial Completion which will fix the date of Substantial Completion. Engineer shall attach to the certificate a punch list of items to be completed or corrected before final payment. Owner shall have 7 days after receipt of the preliminary certificate during which to make written objection to Engineer as to any provisions of the certificate or attached punch list. If, after considering the objections to the provisions of the preliminary certificate, Engineer concludes that the Work is not substantially complete, Engineer will, within 14 days after submission of the preliminary certificate to Owner, notify Contractor in writing that the Work is not substantially complete, stating the reasons therefor. If Owner does not object to the provisions of the certificate, or if despite consideration of Owner's objections Engineer concludes that the Work is substantially complete, then Engineer will, within said 14 days, execute and deliver to Owner and Contractor a final certificate of Substantial Completion (with a revised punch list of items to be completed or corrected) reflecting such changes from the preliminary certificate as Engineer believes justified after consideration of any objections from Owner.
- D. At the time of receipt of the preliminary certificate of Substantial Completion, Owner and Contractor will confer regarding Owner's use or occupancy of the Work following Substantial Completion, review the builder's risk insurance policy with respect to the end of the builder's risk coverage, and confirm the transition to coverage of the Work under a permanent property insurance policy held by Owner. Unless Owner and Contractor agree otherwise in writing, Owner shall bear responsibility for security, operation, protection of the Work, property insurance, maintenance, heat, and utilities upon Owner's use or occupancy of the Work.
- E. After Substantial Completion the Contractor shall promptly begin work on the punch list of items to be completed or corrected prior to final payment. In appropriate cases Contractor may submit monthly Applications for Payment for completed punch list items, following the progress payment procedures set forth above.
- F. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the punch list.

#### 15.04 *Partial Use or Occupancy*

- A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without

significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions:

1. At any time, Owner may request in writing that Contractor permit Owner to use or occupy any such part of the Work that Owner believes to be substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner, and Engineer will follow the procedures of Paragraph 15.03.A through 15.03.E for that part of the Work.
2. At any time, Contractor may notify Owner and Engineer in writing that Contractor considers any such part of the Work substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.
3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 15.03 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.
4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 6.04 regarding builder's risk or other property insurance.

#### 15.05 *Final Inspection*

- A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work, or agreed portion thereof, is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

#### 15.06 *Final Payment*

##### A. *Application for Payment*

1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, annotated record documents (as provided in Paragraph 7.12), and other documents, Contractor may make application for final payment.
2. The final Application for Payment must be accompanied (except as previously delivered) by:
  - a. all documentation called for in the Contract Documents;
  - b. consent of the surety, if any, to final payment;
  - c. satisfactory evidence that all title issues have been resolved such that title to all Work, materials, and equipment has passed to Owner free and clear of any Liens or other title defects, or will so pass upon final payment.

- d. a list of all duly pending Change Proposals and Claims; and
  - e. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of the Work, and of Liens filed in connection with the Work.
3. In lieu of the releases or waivers of Liens specified in Paragraph 15.06.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (a) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (b) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner might in any way be responsible, or which might in any way result in liens or other burdens on Owner's property, have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien, or Owner at its option may issue joint checks payable to Contractor and specified Subcontractors and Suppliers.
- B. *Engineer's Review of Final Application and Recommendation of Payment:* If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations under the Contract have been fulfilled, Engineer will, within 10 days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of final payment and present the final Application for Payment to Owner for payment. Such recommendation will account for any set-offs against payment that are necessary in Engineer's opinion to protect Owner from loss for the reasons stated above with respect to progress payments. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.
- C. *Notice of Acceptability:* In support of its recommendation of payment of the final Application for Payment, Engineer will also give written notice to Owner and Contractor that the Work is acceptable, subject to stated limitations in the notice and to the provisions of Paragraph 15.07.
- D. *Completion of Work:* The Work is complete (subject to surviving obligations) when it is ready for final payment as established by the Engineer's written recommendation of final payment and issuance of notice of the acceptability of the Work.
- E. *Final Payment Becomes Due:* Upon receipt from Engineer of the final Application for Payment and accompanying documentation, Owner shall set off against the amount recommended by Engineer for final payment any further sum to which Owner is entitled, including but not limited to set-offs for liquidated damages and set-offs allowed under the provisions of this Contract with respect to progress payments. Owner shall pay the resulting balance due to Contractor within 30 days of Owner's receipt of the final Application for Payment from Engineer.

#### 15.07 *Waiver of Claims*

- A. By making final payment, Owner waives its claim or right to liquidated damages or other damages for late completion by Contractor, except as set forth in an outstanding Claim,

appeal under the provisions of Article 17, set-off, or express reservation of rights by Owner. Owner reserves all other claims or rights after final payment.

- B. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted as a Claim, or appealed under the provisions of Article 17.

#### 15.08 *Correction Period*

- A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the Supplementary Conditions or the terms of any applicable special guarantee required by the Contract Documents), Owner gives Contractor written notice that any Work has been found to be defective, or that Contractor's repair of any damages to the Site or adjacent areas has been found to be defective, then after receipt of such notice of defect Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:
  - 1. correct the defective repairs to the Site or such adjacent areas;
  - 2. correct such defective Work;
  - 3. remove the defective Work from the Project and replace it with Work that is not defective, if the defective Work has been rejected by Owner, and
  - 4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others, or to other land or areas resulting from the corrective measures.
- B. Owner shall give any such notice of defect within 60 days of the discovery that such Work or repairs is defective. If such notice is given within such 60 days but after the end of the correction period, the notice will be deemed a notice of defective Work under Paragraph 7.17.B.
- C. If, after receipt of a notice of defect within 60 days and within the correction period, Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. Contractor shall pay all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others). Contractor's failure to pay such costs, losses, and damages within 10 days of invoice from Owner will be deemed the start of an event giving rise to a Claim under Paragraph 12.01.B, such that any related Claim must be brought within 30 days of the failure to pay.
- D. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications.
- E. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

- F. Contractor's obligations under this paragraph are in addition to all other obligations and warranties. The provisions of this paragraph are not to be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation or repose.

## **ARTICLE 16—SUSPENSION OF WORK AND TERMINATION**

### **16.01 *Owner May Suspend Work***

- A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an extension of the Contract Times directly attributable to any such suspension. Any Change Proposal seeking such adjustments must be submitted no later than 30 days after the date fixed for resumption of Work.

### **16.02 *Owner May Terminate for Cause***

- A. The occurrence of any one or more of the following events will constitute a default by Contractor and justify termination for cause:
  - 1. Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment, or failure to adhere to the Progress Schedule);
  - 2. Failure of Contractor to perform or otherwise to comply with a material term of the Contract Documents;
  - 3. Contractor's disregard of Laws or Regulations of any public body having jurisdiction; or
  - 4. Contractor's repeated disregard of the authority of Owner or Engineer.
- B. If one or more of the events identified in Paragraph 16.02.A occurs, then after giving Contractor (and any surety) 10 days' written notice that Owner is considering a declaration that Contractor is in default and termination of the Contract, Owner may proceed to:
  - 1. declare Contractor to be in default, and give Contractor (and any surety) written notice that the Contract is terminated; and
  - 2. enforce the rights available to Owner under any applicable performance bond.
- C. Subject to the terms and operation of any applicable performance bond, if Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and complete the Work as Owner may deem expedient.
- D. Owner may not proceed with termination of the Contract under Paragraph 16.02.B if Contractor within 7 days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.
- E. If Owner proceeds as provided in Paragraph 16.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds the cost to complete the Work, including all related claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects,

attorneys, and other professionals) sustained by Owner, such excess will be paid to Contractor. If the cost to complete the Work including such related claims, costs, losses, and damages exceeds such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this paragraph, Owner shall not be required to obtain the lowest price for the Work performed.

- F. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue, or any rights or remedies of Owner against Contractor or any surety under any payment bond or performance bond. Any retention or payment of money due Contractor by Owner will not release Contractor from liability.
- G. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 6.01.A, the provisions of that bond will govern over any inconsistent provisions of Paragraphs 16.02.B and 16.02.D.

#### 16.03 *Owner May Terminate for Convenience*

- A. Upon 7 days' written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):
  - 1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
  - 2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and
  - 3. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.
- B. Contractor shall not be paid for any loss of anticipated profits or revenue, post-termination overhead costs, or other economic loss arising out of or resulting from such termination.

#### 16.04 *Contractor May Stop Work or Terminate*

- A. If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (3) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon 7 days' written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the contract and recover from Owner payment on the same terms as provided in Paragraph 16.03.
- B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, 7 days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The

provisions of this paragraph are not intended to preclude Contractor from submitting a Change Proposal for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this paragraph.

## **ARTICLE 17—FINAL RESOLUTION OF DISPUTES**

### **17.01 *Methods and Procedures***

- A. *Disputes Subject to Final Resolution:* The following disputed matters are subject to final resolution under the provisions of this article:
1. A timely appeal of an approval in part and denial in part of a Claim, or of a denial in full, pursuant to Article 12; and
  2. Disputes between Owner and Contractor concerning the Work, or obligations under the Contract Documents, that arise after final payment has been made.
- B. *Final Resolution of Disputes:* For any dispute subject to resolution under this article, Owner or Contractor may:
1. elect in writing to invoke the dispute resolution process provided for in the Supplementary Conditions;
  2. agree with the other party to submit the dispute to another dispute resolution process; or
  3. if no dispute resolution process is provided for in the Supplementary Conditions or mutually agreed to, give written notice to the other party of the intent to submit the dispute to a court of competent jurisdiction.

## **ARTICLE 18—MISCELLANEOUS**

### **18.01 *Giving Notice***

- A. Whenever any provision of the Contract requires the giving of written notice to Owner, Engineer, or Contractor, it will be deemed to have been validly given only if delivered:
1. in person, by a commercial courier service or otherwise, to the recipient's place of business;
  2. by registered or certified mail, postage prepaid, to the recipient's place of business; or
  3. by e-mail to the recipient, with the words "Formal Notice" or similar in the e-mail's subject line.

### **18.02 *Computation of Times***

- A. When any period of time is referred to in the Contract by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

18.03 *Cumulative Remedies*

- A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract. The provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

18.04 *Limitation of Damages*

- A. With respect to any and all Change Proposals, Claims, disputes subject to final resolution, and other matters at issue, neither Owner nor Engineer, nor any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, shall be liable to Contractor for any claims, costs, losses, or damages sustained by Contractor on or in connection with any other project or anticipated project.

18.05 *No Waiver*

- A. A party's non-enforcement of any provision will not constitute a waiver of that provision, nor will it affect the enforceability of that provision or of the remainder of this Contract.

18.06 *Survival of Obligations*

- A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract, as well as all continuing obligations indicated in the Contract, will survive final payment, completion, and acceptance of the Work or termination of the Contract or of the services of Contractor.

18.07 *Controlling Law*

- A. This Contract is to be governed by the law of the state in which the Project is located.

18.08 *Assignment of Contract*

- A. Unless expressly agreed to elsewhere in the Contract, no assignment by a party to this Contract of any rights under or interests in the Contract will be binding on the other party without the written consent of the party sought to be bound; and, specifically but without limitation, money that may become due and money that is due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract.

18.09 *Successors and Assigns*

- A. Owner and Contractor each binds itself, its successors, assigns, and legal representatives to the other party hereto, its successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

18.10 *Headings*

- A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

**LOS OSOS COMMUNITY SERVICES DISTRICT**  
**SWEET SPRINGS GROUNDWATER MONITORING WELLS PROJECT**  
**SUPPLEMENTARY GENERAL CONDITIONS**

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## **SUPPLEMENTARY GENERAL CONDITIONS**

### **1. SCOPE**

The Work to be performed under this Contract shall consist of furnishing everything necessary for the fulfillment of the Contract in strict accordance with the requirements of the Contract Documents. The Work shall be complete, and anything not expressly shown or called for in the Contract Documents which may be necessary for the complete and proper construction of the Work in good faith shall be accomplished by the Contractor as though originally so indicated in the Contract Documents, at no increase in cost to the OWNER. The Contractor shall obligate him/herself to satisfactorily complete the Work within the time stipulated in Article 2 of the Instructions to Bidders. The date of the Notice to Proceed issued by the OWNER shall constitute the starting date of the Contract. Upon issuance of the Notice to Proceed, the Contractor shall immediately begin and diligently prosecute the work to completion.

### **2. GENERAL**

These Supplementary General Conditions amend or supplement the Standard General Conditions of the Construction Contract and other provisions of the Contract Documents as indicated. All provisions which are not so amended or supplemented remain in full force and effect. These Supplementary General Conditions are cross-referenced to EJCDC General Conditions, 2018 version.

### **3. SUPPLEMENTARY DEFINITIONS**

Wherever in these Contract Documents the following terms are used, the intent and meaning shall be shown herein. All terms not listed in the following amended or supplementary definitions shall have the meanings assigned to them in the Standard General Conditions of the Construction Contract:

3.1 OWNER as referred to in ARTICLE 1 of the STANDARD GENERAL CONDITIONS of the Construction Contract shall be the LOS OSOS COMMUNITY SERVICES DISTRICT. The official address of the OWNER is:

LOS OSOS COMMUNITY SERVICES DISTRICT  
2122 9TH STREET, SUITE 110  
LOS OSOS, CA 93402

3.2 ENGINEER as referred to in ARTICLE 1 of the STANDARD GENERAL CONDITIONS of the Construction Contract shall be WALLACE GROUP acting either directly or through properly authorized agents acting within the scope of their particular duties delegated to them or when designated in the Contract.

The official address of the Engineer is:

WALLACE GROUP  
612 Clarion Court  
San Luis Obispo, California 93401

OWNER'S REPRESENTATIVE. Where reference is made to Owner's Representative, this shall mean CLEATH-HARRIS GEOLOGISTS (CHG) who will be overseeing well construction during the Project.

- 3.3 SUBSTANTIAL COMPLETION as defined in ARTICLE 1 of the STANDARD GENERAL CONDITIONS of the Construction Contract is hereby clarified with the following additional definition:

Substantial Completion shall exist when there has been no willful departure from the terms of the Contract, and no omission in essential points, and the Contract has been honestly and faithfully performed in its material and substantial particulars, and the only variance from the strict and literal performance consists of technical or unimportant omissions or defects, and that the Work may be utilized for the purposes for which it is intended. Substantial Completion shall mean Completion as evidenced by a certificate of completion filed by the **GOVERNING BODY** pursuant to the requirements of Sections 3086 and 3093 of the California Civil Code. The terms "substantially complete" and "substantially completed" as applied to any Work refer to Substantial Completion thereof.

- 3.4 SUPPLEMENTARY CONDITIONS as defined in ARTICLE 1 are also referred to as these Supplementary General Conditions.

#### 4. AMENDMENTS OR SUPPLEMENTS TO STANDARD GENERAL CONDITIONS

- 4.1 Nothing herein shall be deemed to require the Owner to indicate the presence of existing service laterals or appurtenances wherever the presence of such utilities on the site of the construction project can be inferred from the presence of other visible facilities such as buildings, meter and junction boxes, on or adjacent to the site of construction; provided, however, that nothing herein shall relieve the Owner from identifying main or trunk lines in the plans and specifications.
- 4.3 If the Contractor, while performing the Contract, discovers utility facilities not identified by the OWNER, he shall immediately notify the OWNER and the utility owner in writing.
- 4.4 The public utility, where they are the owner, shall have the sole discretion to perform repairs or relocation work or permit the Contractor to do such repairs or relocation work at a reasonable price at the utility owner's expense.
- 4.5 Partial Payments: The provisions of ARTICLE 15 of the STANDARD GENERAL CONDITIONS of the Construction Contract are hereby amended to include the following provisions.
- 4.6 ARTICLE 15.01 PROGRESS PAYMENTS, PARAGRAPH B.4, RETAINAGE. Retainage shall be as specified in this Article 4.6 of the Supplementary General Conditions. The Contractor shall, once each month, accurately measure and submit in writing, the total amount of the work completed for each line item of the Bid Schedule at the time of such estimate. The OWNER will retain 5 percent of such estimated value of all work done as part security for the fulfillment of this

Contract by the Contractor and shall pay monthly to the Contractor, while carrying on the Work, the balance not retained, as aforesaid, after deducting therefrom all previous payments and all sums to be kept or retained, under the provisions of this Contract. No such estimate or payment will be required to be made when, in the judgment of the Engineer, the Work is not proceeding in accordance with the provisions of this Contract, or when in the Engineer's judgment the total value of the work done since the last estimate amounts to less than \$1000. No partial payment shall be made for materials on hand but not installed.

- 4.7 In order to confirm the amounts due under this paragraph, the Contractor shall file with the Engineer a schedule of values of the work completed, based upon the unit price set forth in the Bid Schedule, in the manner specified in ARTICLE 15.01 of the STANDARD GENERAL CONDITIONS of the Construction Contract provided that where the Schedule of Values is referred to, it shall mean the Bid Sheet.
- 4.8 The retained percentage as specified herein will be held by the OWNER and will be due and payable to the Contractor 35 calendar days after final acceptance of the Work by action of the **GOVERNING BODY**; provided, there have been no Stop Notices served upon the OWNER, as set forth in ARTICLE 4.6 of these SUPPLEMENTARY GENERAL CONDITIONS.

## 5. CONSTRUCTION DRAWINGS

- 5.1 Article 2.02.A of the General Conditions is modified as follows: Owner will furnish to Contractor only a PDF copy of the bid documents. Should Contractor desire hard copy prints, such prints shall be provided for by Contractor at Contractor's expense.

## 6. LIQUIDATED DAMAGES

- 6.1 General: It is agreed by the Contractor that in case all the Work called for under the Contract in all parts and requirements is not finished or completed within the time specified in the Contract, damages will be sustained by the OWNER, and that it is and will be impracticable and extremely difficult to ascertain and determine the actual damages which the OWNER will sustain in the event of and by reason of such delay; and it is therefore agreed that the Contractor will pay to the OWNER, the sum of \$500 **per day** for each and every working day's delay in finishing the Work in excess of the completion dates prescribed in Article 2 of the Instructions to Bidders. The Contractor agrees to pay said liquidated damages herein provided for, and further agrees that the OWNER may deduct the amount thereof from any monies due or that may become due by the Contractor under the Contract.
- 6.2 It is further agreed that in case the Work called for under the Contract is not finished and completed in all parts and requirements within the completion time specified, the OWNER shall have the right to increase the number of working days or not, as may be deemed best to serve the interest of the OWNER, and if it is deemed to increase the said number of working days, the OWNER shall further have the right to charge the Contractor, its heirs, assigns, or sureties and

to deduct from the final payment for the Work or any part, as may be deemed proper, of the actual cost of engineering, inspection, superintendence, and other overhead expenses which are directly chargeable to the Contract, and which accrue during the period of such extension, except that cost of final surveys and preparation of final estimate shall not be included in such charges.

- 6.3 The Contractor will be granted an extension of time and will not be assessed liquidated damages or the cost of engineering and inspection for any portion of the delay in completion of the Work beyond the time named in the Contract for the Completion of the Work caused by Acts of God, or of the public enemy, fire, floods, epidemics, quarantine restrictions, strikes, labor disputes, shortage of materials, and freight embargoes; provided, that the Contractor shall notify the Engineer in writing of the causes of the delay within 15 calendar days from the beginning of any such delay. The Engineer shall ascertain the facts within 5 working days and determine the extent of the delay, and the Engineer's findings thereon shall be final and conclusive.
- 6.4 No extension of time will be granted for a delay caused by a shortage of materials unless the Contractor furnishes to the Engineer documentary proof that he/she has diligently made every effort to obtain such materials from all known sources within reasonable reach of the Work and further proof in the form of supplementary progress schedules, as required for "Contractor's Schedules" in Technical Section entitled "Contractor Submittals," that the inability to obtain such materials when originally planned, did in fact cause delay in final completion of the entire Work which could not be compensated for by revising the sequence of the Contractor's operations. Only the physical shortage of material will be considered under these provisions as a cause for extension of time, and no consideration will be given to any claim that material could not be obtained at a reasonable, practical, or economic cost or price, unless it is shown to the satisfaction of the Engineer that such material could have been obtained only at exorbitant prices entirely out of line with current rates, taking into account the quantities involved and the usual practices in obtaining such quantities.
- 6.5 If the Contractor is delayed in completion of the Work by reason of changes made under the provisions of ARTICLE 11 of the STANDARD GENERAL CONDITIONS of the Construction Contract, or by any act of the Engineer not contemplated in the Contract, an extension of time commensurate with the delay in completion of the Work thus caused will be granted and the Contractor shall be relieved from any claim for liquidated damages, or engineering and inspection charges or other assessments for the period covered by such extension of time; provided further, that the Contractor shall notify the Engineer in writing of the causes of delay within 15 calendar days from the beginning of any such delay. The Engineer will ascertain the facts within 5 working days and determine the extent of the delay, and his or her finding thereon shall be final and conclusive.
- 6.6 The Contractor shall have no claim for damage or compensation for any delay or hindrance whether or not contemplated by the Contract.
- 6.7 The Contractor shall not be relieved of liability for liquidated damages or engineering or inspection charges for any period of delay in completion of the Work in excess of that expressly provided for in this Article.

6.8 California Code Requirements: In accordance with the requirements of Paragraph (b) of Section 4215 of the California Government Code, the Contractor will not be assessed liquidated damages for delay in completing the Work to the extent that such delay is caused by the failure of the Owner or of a utility company, OWNER, or other agency to provide for or accomplish the relocation of an existing utility facility in a street, road, or highway.

## **7. PERMITS AND INSURANCE REQUIRED UNDER SUCH PERMITS**

7.1 ARTICLE 7.09, PERMITS, is modified as follows:

7.1.1 Refer to Section 01 11 00, Summary of Work, for project-specific permitting requirements.

## **8. DELIVERY AND STORAGE OF MATERIALS**

8.1 All packaged manufactured products for use on the Work shall be delivered to the Work site in their original, unopened packages, bearing thereon the manufacturer's name and the brand name of the product.

8.2 Whenever any product or material is selected to be used on the Work, all such products or materials shall be of the same brand and manufacture throughout the Work.

8.3 All materials shall be stored in such a manner that they will be completely protected from weather damage.

## **9. APPLICABLE ORDINANCES AND REGULATIONS**

9.1 The Work is located in Los Osos, San Luis Obispo County, California. In the performance of the Work the Contractor shall comply with all ordinances, regulations, and other lawful requirements of said OWNER and County and of the State, Federal, and other public authorities within their respective jurisdictions governing work on public property. In particular, the Contractor's attention is directed to the fact that all work hereunder shall conform to or exceed all requirements of the Construction Safety Orders of Cal-OSHA.

9.2 Nothing herein shall be construed to entitle the Contractor to the exclusive use of any public street, alleyway, or parking area during the performance of the Work hereunder.

## **10. ADDITIONAL CALIFORNIA CODE REQUIREMENTS**

10.1 Deposit of Securities in Lieu of Retainage: On written request of the Contractor, and at the sole expense of the Contractor, the Contractor may deposit securities in an amount equivalent and in lieu of any monies retained by the OWNER pursuant to the terms of the Contract. Said deposits shall be made pursuant to and in accordance with the terms and provisions of Chapter 13 of the Division 5 of Title I of the Government Code, commencing at Section 4590. The securities may be deposited with the OWNER or with a State or Federally-chartered bank

as an escrow agent. If the securities are deposited with a bank, the Contractor shall furnish the OWNER with written proof of said deposit and an executed counterpart of the escrow or deposit instructions. Said instructions must contain a statement that said securities will not be released to anyone except upon written instructions of an authorized representative of the OWNER, which statement must recite that the purpose for which the deposit was made has been satisfied. Upon satisfactory completion of the Contact, the securities shall be returned to the Contractor.

- 10.2 Securities eligible for deposit under this section shall be those listed in Section 16430 of the Government Code, or bank or savings and loan certificates of deposit.
- 10.3 The Contractor shall be the beneficial owner of any securities substituted for monies retained, and the Contractor shall receive any interest that is paid thereon.
- 10.4 Assignment of Antitrust Claims: The Contractor offers and agrees to assign to the OWNER all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (14 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 commencing with Section 16700 of Part 2 of Division 7 of the California Business and Professions Code), arising from the purchase of goods, services, or materials pursuant to this Contract. This assignment shall become effective at the time that the OWNER tenders final payment to the Contractor, without further acknowledgment by the parties. The Contractor shall have the rights set forth in Sections 4553 and 4554 of the California Government Code.
- 10.5 Labor Discrimination: No discrimination shall be made in the employment of persons on the Work by the Contractor or by any subcontractor because of race, religious creed, color, national origin, ancestry, physical disability, medical condition, marital status, mental disability, sexual orientation or sex except as permitted by Section 12940 of the California Government Code.
- 10.6 Fair Employment Practice: In the performance of this Contract, the Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, ancestry, sex, age, national origin, physical disability, mental disability, medical condition or marital status. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated, without regard to their race, color, religion, ancestry, sex, sexual orientation, age, national origin, physical handicap, medical condition, or marital status. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. See Chapter 6 of Part 2.8 of Division 3 of the California Government Code commencing at Section 12940 for further details.
- 10.7 The Contractor shall permit access to its records of employment, employment advertisements, application forms, and other pertinent data and records by the State Fair Employment and Housing Commission, or any other agency of the State of California, for the purposes of investigation to ascertain compliance with the Fair Employment Practices section of this contract.

- 10.8 The OWNER may determine a willful violation of the Fair Employment Practices provision to have occurred upon receipt of a final judgment having that effect from a court in an action to which the Contractor was a party, or upon receipt of a written notice from the Fair Employment and Housing Commission that it has investigated and determined that the Contractor has violated the Fair Employment and Housing Act and has issued an order, which has become final, or obtained an injunction.
- 10.9 For willful violation of this Fair Employment Practices provision, the OWNER shall have the right to terminate this Contract either in whole or in part, and any loss or damage sustained by the OWNER in securing the goods or services hereunder shall be borne and paid for by the Contractor and by its surety under the Performance Bond, if any, and the OWNER may deduct from any monies due or that thereafter may become due to the Contractor, the difference between the price named in the Contract and the actual cost thereof to the OWNER.
- 10.10 Notice to Labor Unions: The Contractor, and any subcontractors, shall give written notice of their obligation under this Fair Employment Practice section of this Contract and of the applicable sections of the California Fair Employment and Housing Act to the labor organization with which they have a collective bargaining or other agreement. (See California Government Code Section 12990).
- 10.11 Payroll Records: The Contractor and each subcontractor shall keep an accurate payroll record, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice worker, or other employee employed by him or her in connection with the public work. The payroll records shall be certified and shall be available for inspection at all reasonable hours at the principal office of the Contractor in the manner provided in Labor Code Section 1776. In the event of noncompliance with the requirements of this Section, the Contractor shall have 10 calendar days to comply subsequent to receipt of written notice specifying in what respects such Contractor must comply with this Section. Should noncompliance still be evident after such 10-day period, the Contractor shall, as a penalty, forfeit to the OWNER 25 dollars for each worker for each calendar day or portion thereof, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, such penalties shall be withheld from progress payments then due. The responsibility for compliance with this Section is with the Contractor.
- 10.12 Wage Rates: As required under Sections 1770 et seq of the California Labor Code, the Contractor shall pay not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). The Contractor shall post a copy of such determination at each job site. Refer to the Instructions to Bidders, Article 11, for further California Labor Code requirements for Contractor registration with DIR in accordance with California Labor Code Section 1725.5.

- 10.13 In accordance with California Labor Code Section 1813, the Contractor shall, as a penalty to the OWNER, forfeit \$25.00 for each calendar day, or portion thereof, for each worker paid less than the prevailing rates as determined by the Director for such work or craft in which such worker is employed for any public work done under the Contract by the Contractor or by any subcontractor under it.
- 10.14 Working Hours: The Contractor shall comply with all applicable provisions of Section 1810 to 1815, inclusive of the California Labor Code relating to working hours. The Contractor shall, as a penalty to the OWNER, forfeit \$25.00 for each worker employed in the execution of the Contract by the Contractor or by any subcontractor for each calendar day during which such worker was required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week, unless such worker receives compensation for all hours worked in excess of 8 hours at not less than 1-1/2 times the basic rate of pay.
- 10.15 First Aid For Employees: Pursuant to the provisions of the California Labor Code Section 6708, each Contractor and Subcontractor shall maintain or make available adequate emergency first aid treatment for its employees, agents, and representatives. As used herein, the word "adequate" shall be construed to mean sufficient to comply with the Federal Occupational Safety and Health Act (P.L. 91-596 OSHA) and the applicable requirements of Cal-OSHA. (See 29 USCA Section 651 et seq.)
- 10.16 Apprentices on Public Works: The Contractor shall comply with all applicable provisions of Section 1777.5 and 1777.6 of the California Labor Code relating to the employment of apprentices on public works.
- 10.17 Unpaid Claims: If at any time prior to the expiration of the period for service of a Stop Notice, there is served upon the OWNER a Stop Notice as provided in Sections 3170 through 3210 of the California Civil Code, the OWNER shall, until the discharge thereof, withhold the monies under its control so much of said monies due or to income due the Contractor under this Contract which shall be sufficient to answer the claim stated in such Stop Notice and to provide for the reasonable cost of any litigation thereunder; provided, that if the Engineer shall, in its discretion, permit the Contractor to file with the OWNER the Bond referred to in Section 3196 of the California Civil Code, said monies shall not thereafter be withheld on account of such Stop Notice.
- 10.18 Travel and Subsistence Pay: As required under Section 1773.8 of the California Labor Code, the Contractor shall pay travel and subsistence payments to each worker needed to execute the Work, as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with said Section 1773.8.

## 11. INSURANCE

- 11.1 General: In all insurance policies required hereunder, the insurance certificate shall evidence a firm commitment by the insurance company to notify the OWNER and Engineer of the expiration or cancellation of any of the insurance policies required hereunder not less than 30 calendar days before such expiration or cancellation is effective.

11.2 Insurance Amounts:

Policy Limits: Each of said policies of insurance shall provide coverage in the following minimum amounts: for personal injury \$1,000,000 each person, \$2,000,000 aggregate limit; property damage \$1,000,000 on account of any one occurrence, \$2,000,000 aggregate limit; except that insurance required to be maintained by Subcontractors above shall provide coverage in the following minimum amounts; for personal injury \$500,000 each person, \$1,000,000 aggregate limit; property damages \$500,000 on account of any one occurrence, \$1,000,000 aggregate limit.

Additional Named Insureds: All such insurance shall include as additional named insureds: the OWNER; the Engineer and its Consultants.

11.3 Article 6.04, Builder's Risk and Other Property Insurance, of the General Conditions, is deleted in its entirety.

11.4 Provide Unemployment Insurance payments for workers, in accordance with the California Unemployment Insurance Code and U.S. Department of Labor under the Social Security Act. Proof of Unemployment payments shall be required prior to award of this Project, and prior to issuance of Notice to Proceed.

**12. ACCESS TO PROJECT SITE**

12.1 48-Hours Notice: The Contractor shall give the OWNER a minimum of 48 hours notice prior to arriving at the project site at the start of construction.

**13. INTERRUPTION TO UTILITY SERVICES**

13.1 48-Hour Notice: The Contractor shall give the OWNER a minimum of 48 hours notice prior to the interruption of any utility service.

13.2 The interruption of utility services shall be only made during off-peak hours, with the expressed written permission of the OWNER. Off peak hours are defined as 9:00 p.m. to 5:00 a.m. Monday through Friday.

**14. MODIFICATIONS; PERFORMANCE; PAYMENT**

(Timely progress payments; legislative intent; payment requests)

14.1 It is the intent of the Legislature in enacting this section to require all local governments to pay their contractors on time so that these contractors can meet their own obligations. In requiring prompt payment by all local governments, the Legislature hereby finds and declares that the prompt payment of outstanding receipts is not merely a municipal affair, but is, instead, a matter of statewide concern.

It is the intent of the Legislature in enacting this article to fully occupy the field of public policy relating to the prompt payment of local payment of local governments' outstanding receipts. The Legislature finds and declares that all

government officials, including those in local government, must set a standard of prompt payment that any business in the private sector which may contract for services should look towards for guidance.

14.2 Any local agency which fails to make any progress payment within 30 calendar days after receipt of an undisputed and properly submitted payment request from a contractor on a construction contract shall pay interest to the contractor equivalent to the legal rate set forth in subdivision (a) of Section 685.010 of the Code of Civil Procedure.

14.3 Upon receipt of a payment request, each local agency shall act in accordance with both of the following:

Each payment request shall be reviewed by the local agency as soon as possible as practicable after receipt for the purpose of determining that the payment request is a proper payment request.

Any payment request determined not to be a proper payment request suitable for payment shall be returned to the contractor as soon as practicable, but not later than seven calendar days, after receipt. A request returned pursuant to this paragraph shall be accompanied by a document setting forth in writing the reasons why the payment request is not proper.

14.4 The number of days available to a local agency to make a payment without incurring interest pursuant to this section shall be reduced by the number of days by which a local agency exceeds the seven-day return requirement set forth in paragraph (2) of subdivision (c).

14.5 For purposes of this article:

A "local agency" includes, but is not limited to, a city, including a charter city, a county, and a city and county, and is any public entity subject to this part.

A "progress payment" includes all payments due contractors, except that portion of the final payment designated by the contract as retention earnings.

A payment request shall be considered properly executed if funds are available for payment of the payment request, and payment is not delayed due to an audit inquiry by the financial officer of the local agency.

14.6 Each local agency shall require that this article, or a summary thereof, be set forth in terms of any contract subject to this article.

14.7 Bid Schedule:

All pay line items will be paid for at the unit prices named in the Bid Schedule for the respective items of work. The quantities of work or material stated as unit price items on the Bid Schedule are supplied only to give an indication of the general scope of the Work: The OWNER does not expressly nor by implication agree that the actual amount of work or material will correspond therewith, and reserves the right after award to increase or decrease the quantity of any item of

work by an amount up to and including 25 percent of any bid item in its entirety, or to add additional bid items up to and including an aggregate total amount not to exceed 25 percent of the contract price.

Quantity variations in excess of the allowable quantity changes specified herein shall be subject to the provisions of Article 11 of the STANDARD GENERAL CONDITIONS.

## **15. DISPUTE RESOLUTION**

- 15.1 Any question about interpretation or clarification, disagreement, or claim that has been timely referred to the Engineer in accordance with Article 10.05, except any which have been waived by the making or accepting of final payment, shall upon timely demand of either party be subject to resolution under the following provisions:

No demand for arbitration or litigation may be made until the earlier of the following listed times:

The sixty-first day after the date of the Engineer's receipt of a claim or dispute, or for an adjustment of contract terms, or both, if a decision has not been issued by that date.

Pending a resolution of the claim or dispute, the Contractor shall proceed diligently with the performance of the contract and in accordance with the Engineer's decision unless the parties to this contract otherwise agree in writing.

**END SUPPLEMENTARY GENERAL CONDITIONS**

**SWEET SPRINGS GROUNDWATER  
MONITORING WELLS**

**TECHNICAL SPECIFICATIONS**

SECTION 01 11 00  
SUMMARY OF WORK

PART 1 GENERAL

1.1 WORK INCLUDED

- A. The Work includes providing all necessary labor, materials, accessories, equipment, and supervision to provide two new groundwater monitoring wells located at Pismo Avenue/5<sup>th</sup> Street, Los Osos, CA. Construction details for these two new groundwater monitoring wells are included in Section 33 24 13, and the technical specifications prepared for the new wells, prepared by Cleath-Harris Geologists (CHG), are included at the end of these technical specifications. The Work includes obtaining well drilling permits for each well, securing County encroachment permit, well installation/construction as specified/shown, and related items of Work to provide these two new groundwater monitoring wells.

1.2 ACCESS CONSIDERATIONS

- A. The wells are located in Los Osos, CA, in County of San Luis Obispo right of way at the locations shown in the technical report/specification package prepared by CHG.

1.3 PERMITS

- A. Refer to Section 33 24 13 for well drilling permit requirements.
- B. A County of San Luis Obispo encroachment permit has been issued (#ENC20260256) to the District. A copy of the Permit is attached to the end of this Section. Comply with all applicable permit conditions at no additional cost to the District. Contractor shall coordinate with the District and County Inspector during construction, and shall provide notifications to the County as required by the Permit and at no additional cost to the District. The District will retain the services of qualified environmental staff to satisfy pre-construction archaeological and biological training. Cooperate with the District and environmental consultants, and ensure all field staff participate in required training, as part of the Work and at no additional cost to the District.
- C. Minor Use Permit/Conditions of Approval. Not required.

1.4 WORK NOT INCLUDED

- A. Except for such auxiliary work as is shown or specified or is necessary as a part of the construction, the following work is NOT included in this Contract.
  - 1. Work shown, but marked "NIC" (Not in Contract) or otherwise designated to be performed by others.

1.5 SPECIFICATIONS

- A. The Specifications are those bound in the Project Manual. The Project Manual consists of the Noticing Inviting Bids, Instructions to Bidders, General Conditions of the

Contract for Construction, Supplementary Conditions, Division 01 and Division 33 technical specifications.

1.6 DRAWINGS

- A. The Drawings/details of the well construction Work were prepared by CHG, and are included in the Well Technical Specifications, Section 33 24 13, Groundwater Monitoring Wells.

1.7 CONTRACTOR'S SETS OF DRAWINGS AND PROJECT MANUALS

- A. Refer to Supplementary General Conditions.

1.8 SEQUENCE OF CONSTRUCTION OPERATIONS

- A. Submit Construction Work Plan at Pre-Construction Meeting, dovetailing sequencing details with Schedule as required in Section 01 32 16, Construction Progress Schedule. Owner and Engineer shall approve such plan prior to Contractor starting construction operations. Work Plan shall describe in detail the laydown areas, access, traffic control, existing utility verification, overall schedule and order of work for the well construction activities, including permit acquisition.
- B. Prior to commencement of Work and within 7 calendar days of Notice to Proceed, verify and confirm, to the Owner's Representative in writing, the existing conditions of the site. Any discrepancies between existing conditions and the contract documents must be brought to the Owner's attention during that time frame.
- C. Prepare schedules as set forth in Section 01 32 16, Construction Progress Schedule.

1.9 HOURS OF WORK

- A. See Article 6.02, Section 00 70 00, General Conditions. Perform Work of this Contract on normal workdays and within normal work hours; 7:00 am to 5:00 pm; night work shall not be allowed.
- B. Continuously keep existing drainage facilities, walks, parking and paved areas clean and free of mud and dirt, obstacles, etc., and protect against damage.
- C. Closeout Timetable. Coordinate with Owner to establish dates for equipment, testing, acceptance periods, and on-site instructional periods (as required under the Contract). Such dates shall be established not less than one week prior to beginning any of the foregoing items, to allow the Owner and their authorized representatives sufficient time to schedule attendance at such activities. Refer to Section 01 75 00, Starting and Adjusting.
- D. Final Submittals: Prior to requesting final payment, obtain and submit the following items to the Engineer for transmittal to the Owner:
  - 1. Written guarantees, where required.
  - 2. Well logs, well construction details/as-built conditions, well destruction details.
  - 3. Completed record drawings per Section 01 70 00.
  - 4. Releases from all parties who are entitled to claims against the subject project, property, or improvement pursuant to the provisions of law.

- 1.10 EXCAVATIONS OR TRENCHING FOR UNDERGROUND UTILITIES AND STORM DRAINS
- A. Time intervals between excavation or trenching and installation of conduit or piping or other work concerned, and backfilling operations shall be kept to absolute minimum.
- 1.11 PROTECTION OF EXISTING STRUCTURES AND UTILITIES
- A. Refer to the General Conditions of the Contract for Construction for Contractor responsibilities.
- B. Damage to existing improvements caused by Contractor's operations, either on-site or on adjacent sites, shall be repaired to restore damaged items to their original condition. Cost of such repair shall be borne entirely by Contractor.
- C. Contractor shall be responsible for USA notifications, and protection of all utilities in place, whether shown on the drawings or not. Coordinate with local utility companies, and in particular, closely coordinate with the Gas Company regarding the existing gas main in close proximity to the proposed Well locations.
- D. Locate known existing structures and utilities before proceeding with construction. Maintain them in service, except as otherwise specified. Provide protection and repair damage to them caused by the Work at no increase in Contract price.

END OF SECTION

(Attachment – Encroachment Permit, 43 Pages)



County of San Luis Obispo  
**DEPARTMENT OF PUBLIC WORKS**

County Government Center, Room 206 - San Luis Obispo CA 93408  
 Phone: (805) 781-5252 Email: pw.permits@co.slo.ca.us

Permit #: ENC20260256

Issued: 6/22/2026

Expires: 12/30/2026

Status: ISSUED

**GENERAL - NO CHARGE ENCROACHMENT PERMIT**

**Contacts**

	NAME	ADDRESS	PHONE / EMAIL	LICENSE
<b>APPLICANT:</b>	CONFLUENCE ENGINEERING SOLUTIONS C/O JAMIE GIROUARD	2122 9TH ST., SUITE 200 LOS OSOS, CA 93402	(805) 458-1004 jgirouard@confluencees.com	
<b>CONTRACTOR:</b>	N/A N/A	N/A N/A, CA 0000	(000) 000-0000	LIC: N/A EXP: 12/31/2026
<b>OWNER:</b>	LOS OSOS BASIN MANAGEMENT COMMITTEE C/O RON MUNDS	2122 9TH STREET, SUITE 110 LOS OSOS, CA 93402	(805) 528-9379 rmunds@losososcscsd.org	

**Permit Information**

<b>Road Number:</b>	Pismo Ave - M3035	<b>Charge Number:</b>	245R12C104NC
<b>Situs:</b>	PISMO AVE, LOS OSOS	<b>APN:</b>	
<b>BLD Permit:</b>		<b>Community:</b>	Los Osos
<b>Inspector:</b>	Nate Gardner 805-305-1516		

**Work Description**

**LEGAL DESC:**

Construction of monitoring well(s) to be completed by the selected drilling contractor (details below). Application on behalf of LOCSO/ LO Basin Management Committee.

- Drilling site: Corner of Pismo Avenue (unpaved - no traffic) and 5th Street (paved - traffic) in Los Osos, California.
- GPS Coordinates: Sweet Springs 1 (west): N 35.322619; W -120.837428, Sweet Springs 2 (east): N 35.322619; W -120.837351
- Conductor Casing: 10-inch SDR-21 PVC blank casing cemented in 18-inch nominal diameter borehole to 50 feet depth (Sweet Springs 1 and 2).
- Final borehole size: Sweet Springs 1 (west): 500 feet, 9-inch nominal diameter, Sweet Springs 2 (east): 380 feet, 9-inch nominal diameter.
- Geophysics: Sweet Springs 1 only: Spontaneous potential, long and short normal, Laterolog 3, natural gamma ray, sonic. No geophysics at Sweet Springs 2.
- Total well depth: Sweet Springs 1 (west): 490 feet, Sweet Springs 2 (east): 370 feet
- Sweet Springs 1: Wellhead to 440 feet: 2.5-inch diameter, Sch 80 PVC blank casing. 440 to 480 feet: 2.5-inch diameter, Sch 80 PVC, 0.020-inch slots. 480 to 490 feet: 2.5-inch diameter, Sch 80 PVC blank casing

1. Utility work in accordance with County Public Improvement Standards.
2. Construct two groundwater monitoring wells.
3. Construct wells per design details developed by Cleath-Harris Geologists.
4. The noticing requirement is 100' for occupants and 300' for owners.
5. All work must comply with County's Los Osos Wastewater Project Coastal Development Permit (CDP) A-3-SLO-09-55/069.
6. Los Osos CSD will be required to ensure all construction personnel will undergo training by the applicant's retained archeologist and biologist prior to performing any activities for the project. Those results will be submitted to the County prior to the initiation of any construction.
7. Environmental clearances required from the Department of Public Works and Planning and Building Department (i.e. CDP) prior to encroachment permit issuance.
8. In order to receive an encroachment permit from the County, applicant (CSD) to provide written approval from the Planning and Building Department stating they have complied with all of their department needs including the LOHCP. The County's LOHCP requires the Planning and Building Department to issue a written Certificate of Inclusion (COI) prior

to approval or issuance of any Encroachment Permit in Los Osos. The Planning and Building Department COI will contain biological monitoring and reporting requirements that will then be incorporated into the Encroachment Permit.

9. Pavement/ shoulder restoration in accordance with County Public Improvements Standards.

10. Traffic control in accordance with permit conditions and per MUTCD standards.

## Fee Summary

## Project Specific Conditions

### B01 - PERMITTED SHOULDER, LANE, AND ROAD CLOSURES

Shoulder closures are permitted on:

NO SHOULDER CLOSURES PERMITTED

Lane closures are permitted on:

NO LANE CLOSURES PERMITTED

Road closures are permitted on:

NO ROAD CLOSURES PERMITTED

### C02 - STORMWATER WAIVER

By signing this permit, the owner/authorized agent/contractor of record for this project certifies that this project is not subject to post construction performance requirements (Central Coast Water Board Resolution R3-2013-0032) for one of the reasons below. If field changes necessitate the replacement of impervious surfaces to the subgrade or an expansion of impervious areas, the applicant must notify Public Works.

(1) The project will create and/or replace less than 2,500 square feet of impervious area.

(2) The project consists of one or more items recognized by the RWQCB as non-regulated projects per the list below.

#### Non-Regulated Projects

- Road surface repair including slurry sealing, fog sealing, and pothole and square cut patching, or crack sealing.
- Repair/reconstruction of road because of slope failures, natural disasters, acts of God or other man-made disaster.
- Resurfacing with in-kind material without expanding the road.
- Shoulder grading.
- Overlaying existing asphalt or concrete pavement with asphalt or concrete without expanding area of coverage.
- Cleaning, repairing, maintaining, reshaping, or re-grading drainage systems.
- Practices to maintain original line and grade, hydraulic capacity, and overall footprint of the road.
- Underground utility projects that replace ground surface with in-kind material or materials with similar runoff characteristics.
- Curb and gutter improvement or replacement projects that are not part of any additional creation or replacement of impervious surface area (e.g., sidewalks, roadway).
- Electrical and utility vaults, sewer and water lift stations, backflows and other utility devices.

### OTH - OTHER

#### ENVIRONMENTAL:

a. In the event archeological resources are unearthed or discovered during construction activities associated with this permit all work must immediately cease and the permit inspector notified. Work may only resume after a mitigation plan to avoid the resources to the maximum degree feasible has been approved by the County.

b. All mitigation required by project environmental permits will be the responsibility of the permittee. Applicable permits may include local agency, U.S. Army Corps of Engineers, the California Regional Water Quality Control Board/State Water Resources Control Board, and/or the California Department of Fish & Game. The permittee must submit copies of each environmental permit to the County Department of Public Works prior to release of improvement security.

c. Applicant is required to retain an LOWWP-approved Morro Shoulderband Snail qualified biologist to conduct biological pre-construction surveys and conduct construction personnel training. Those results shall be submitted to the County prior to the initiation of construction.

d. Applicant is responsible to obtain any required authorizations, grading or construction permits for work outside of County ROW.

#### GENERAL

All work must comply with County's Los Osos Wastewater Project Coastal Development Permit A-3-SLO-09-55/069.

### X01 - GENERAL ENCROACHMENT CONDITIONS

Pursuant to California Streets and Highways Code Section 1463, the applicant is hereby notified that in the event the future improvement of the road necessitates the relocation of such encroachment the permittee will relocate the same at his sole expense. In said event the road commissioner shall serve on the permittee his written demand specifying the place of relocation and

specifying a reasonable time within which the work of relocation must be commenced. The permittee must commence such relocation within the time specified in said demand and thereafter diligently prosecute the same to completion.

All permits other than those issued to public agencies or a public utility having lawful authority to occupy the roads are revocable on five days' notice and the encroachment must be removed or relocated as may be specified by the road commissioner in the notice revoking the permit and within a reasonable time specified by the road commissioner unless the permit provides a specified time.

Public utilities may be required, within a reasonable time, to relocate such of their facilities as interfere with an enlarged public use of the road, except in those cases where the enlarged use of the road involves a state freeway.

If required, a cash deposit has been posted by the permittee. It is agreed that funds will be drawn from the deposit to pay the actual costs of any action taken by the County to correct any unsafe condition that may arise during the course of the above permitted activity.

**TRAFFIC CONTROL:**

The contractor shall be responsible for providing traffic control throughout all phases of work in accordance with Part 6 of the California Manual on Uniform Traffic Control Devices (CA MUTCD).

**PEDESTRIAN PROTECTION:**

The permittee shall be responsible for constructing and maintaining pedestrian protection devices at all times and in accordance with the California Manual of Uniform Traffic Control Devices (CA-MUTCD), and the California Building Code (CBC). If permitted herein, sidewalk closures must conform to Part 6 of the CA-MUTCD, including TA-28 and TA-29; and pedestrian protection through a construction zone must conform to CBC §3306, including barricades, railings, covered walkways.

**ENVIRONMENTAL:**

In the event archeological resources are unearthed or discovered during construction activities associated with this permit all work must immediately cease and the permit inspector notified. Work may only resume after a mitigation plan to avoid the resources to the maximum degree feasible has been approved by the County.

All mitigation required by project environmental permits will be the responsibility of the permittee. Applicable permits may include local agency, U.S. Army Corps of Engineers, the California Regional Water Quality Control Board/State Water Resources Control Board, and/or the California Department of Fish & Wildlife. The permittee must submit copies of each environmental permit to the County Department of Public Works prior to release of improvement security.

**SURVEY MONUMENT PRESERVATION:**

Prior to commencing work the permittee shall hire a licensed land surveyor or registered civil engineer, legally authorized to practice land surveying, to locate all the survey monuments within the work zone and file a corner record or record survey of the references with the County Surveyor if the monument could be destroyed, damaged, covered, disturbed, or otherwise obliterated. Prior to completion of the permitted work, all disturbed monuments shall be reset in the surface of the new construction, a suitable monument box placed thereon, or permanent witness monuments set to perpetuate their location; and a new corner record or record of survey of the references shall be filled with the County Surveyor. It shall be the responsibility of the permittee to provide for the monumentation required by this section.

**MAINTENANCE OF FACILITIES:**

The permittee agrees to exercise reasonable care to maintain properly any encroachment placed by it in the highway and to exercise reasonable care in inspecting for and immediately repairing and making good any injury to any portion of the highway which occurs as a result of the maintenance of the encroachment in the highway or as a result of the work done under this permit, including any and all injury to the highway which would not have occurred had such work not been done or such encroachment not placed therein.

**RESTORATION OF RIGHT-OF-WAY:**

Upon completion of the work authorized per this permit, the permittee, at its sole expense, must restore the right-of-way (roads and shoulder) to a condition equivalent to the right-of-way condition immediately before the encroachment work was commenced, unless otherwise authorized by the County Inspector or County Development Services Engineer.

Restoration of the right-of-way (road and shoulder) is at the sole discretion of the County Development Services Engineer and/or County Inspector. Any work (trenching, potholing, boring, etc.) to county-maintained roads may require full lane, half lane, etc., overlays to be paved back based on the assessment of the County Development Services Engineer and/or County Inspector and can be requested at any point during the project. Assessment is based upon existing road condition, extent of work activities, any amendments to the scope of work, and requirements set forth in Public Improvements Standard R-1 for seam locations.

**ACCEPTANCE:**

Commencement of any work under this permit shall constitute acceptance of all conditions and requirements of the permit whether or not the permit is signed by said person or an authorized representative of said person, firm or corporation.

**AGREEMENT CLAUSE:**

The permittee agrees and accepts that the work will be conducted in accordance with the Encroachment Permit Conditions, the

(County) Public Improvement Standards, the Streets and Highways Code, State Vehicle Code, County Code, and these attached Provisions.

The permittee agrees and accepts that any work within the right of way of a county-maintained road shall be performed by an appropriately licensed and bonded contractor and shall provide traffic control per the latest California Manual of Uniform Traffic Control Devices.

The permittee shall defend, indemnify and save harmless the County of San Luis Obispo, its officers, agents and employees from any and all claims, demands, damages, costs, expenses, or liability that relate in any way to this permit, including, but not limited to, any act or omission on the part of the permittee, or of agents, employees, or independent contractors directly responsible to the permittee; including, but not limited to, any defects, flaws or errors in the design or performance of any work under this permit, providing further that the foregoing shall apply to any acts, or omissions to act, committed jointly or concurrently by the permittee, the permittee's agents, employees or independent contractors, and the County, its agents, employees or independent contractors. Nothing contained in the foregoing indemnity provisions shall be construed to require the permittee to indemnify the County against any responsibility or liability in contravention of Section 2782 of the Civil Code.

## **X02 - GENERAL ENCROACHMENT PROVISIONS**

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**Authority** – This permit is issued pursuant to Chapter 13.08 of the San Luis Obispo County Code and Chapter 5.5 (commencing with Section 1450) of the Division 2 of the California Streets and Highways Code, the provisions of which are incorporated herein by reference as though fully set forth herein. Special event permits with are issued pursuant to Chapter 15.610 of the San Luis Obispo County Code and Chapter 2 (commencing with Section 942) of the Division 2 of the California Streets and Highways Code, the provisions of which are incorporated herein by reference as though fully set forth herein. Issuance or denial of permit may be appealed to the Board of Supervisors. All board decisions are final and conclusive.

**Definitions** – The word “County” as used herein means the County of San Luis Obispo acting by and through its Director of Public Works or his duly authorized representative. The word “work” as used herein means allowed activities in the County of San Luis Obispo right-of-way as specified in the encroachment permit.

**No Precedent Established** – This permit is granted with the understanding that this action is not to be considered to establish a precedent concerning any kind of encroachment within the county right-of-way.

**Permits from Others** – When the law requires the consent to any work hereunder from any other public board or person having jurisdiction, this permit shall be suspended unless and until such consent is obtained.

**Permission from Property Owners** – Whenever it is necessary to secure permission from abutting property owners, such authority must be secured by the permittee prior to the starting of work.

**Responsible Party** – No party other than the named permittee or their agent is authorized to work under any permit.

**Notice Prior to Starting Work** – Before starting work under the encroachment permit, the permittee shall notify the County 24-hours prior to initial start of work.

**Indemnity** – The permittee shall defend, indemnify and save harmless the County of San Luis Obispo, its officers, agents and employees from any and all claims, demands, damages, costs, expenses, or liability that relate in any way to this permit, including, but not limited to, any act or omission on the part of the permittee, or of agents, employees, or independent contractors directly responsible to the permittee; including, but not limited to, any defects, flaws or errors in the design or performance of any work under this permit, providing further that the foregoing shall apply to any acts, or omissions to act, committed jointly or concurrently by the permittee, the permittee's agents, employees or independent contractors, and the County, its agents, employees or independent contractors. Nothing contained in the foregoing indemnity provisions shall be construed to require the permittee to indemnify the County against any responsibility or liability in contravention of Section 2782 of the Civil Code.

**Other Work** – This permit is to be strictly construed, and no work other than that specifically mentioned is authorized hereby.

**Safety** – All work shall be performed in a safe and workmanlike manner in accordance with all applicable laws and regulations.

**Keep Permit on the Job** – This permit shall be kept at the site of the work and shall be shown to any representative of the County, or any law enforcement officer on request.

**Protection of the Public** – The work shall cause the least possible inconvenience to the traveling public. Two-way traffic shall be maintained from the close of the working day to the start of the next working day. County approval required for shoulder, lane, and road closures. All warning signs, lights, devices, and procedures shall conform to the latest California Manual of Uniform Traffic Control Devices (CA MUTCD). All traffic associated with the work shall follow the provisions of the California Vehicle Code.

**Standards of Construction** – Any matter not specifically mentioned herein, or covered by direct reference, shall conform to the latest adopted County Public Improvement Standards, and, if not covered therein, to Caltrans Standard Specifications and Plans.

**County Inspection** – All work shall be subject to County inspection and performed in accordance with latest adopted County Public

Improvement Standards and to the satisfaction of the County.

Expense of Inspection – On work which in the judgment of the County requires the presence of an employee of the Department of Public Works as inspector, the actual cost (including salary, traveling expense, and overhead) of such inspection shall be paid by the permittee upon presentation of a statement therefore. The cost of any tests required by the County shall be borne by the permittee.

Security – The applicant shall provide a cash security (with assignment to the County of San Luis Obispo) in the amount specified on the encroachment permit which sum is deemed sufficient by the County and which deposit aforesaid shall guarantee payment to the County of San Luis Obispo for all costs of work of improvement, engineering, inspection, maintenance, and related incidental expenses done or incurred by the County as is provided for herein. Expense of County costs shall be paid current and/or the finalization of encroachment permit is required prior to release of security.

Restoration of Right-of-Way – All portions of the right-of-way, and all adjacent areas directly affecting such, if disturbed by work pursuant to this permit, shall be promptly restored to prior condition (including the replacement of suitable material and/or the planting of vegetation) and shall be left in a presentable condition.

Existing Utilities – The permittee shall contact all utilities to determine the location of any existing facilities prior to any excavation. The underground Service Alert ticket number and name shall be kept on the job site and be available to any representative of the County or any law enforcement officer on request. The permittee shall also contact the local water purveyor, sanitation district or other utility not affiliated with Underground Service Alert to advise them of the proposed project. The date and name of this contact must also be kept on the job site. The permittee shall immediately notify the owning utility of any damage to the existing facility.

Future Moving of Installation – In the event it becomes necessary, in the opinion of the County, to remove or relocate the encroachment permitted hereunder, such shall be accomplished by, and at the sole expense of, the permittee, and within such time and manner as may be required by the County. (Curb and gutter improvements constructed in accordance with approved plans are exempted from this provision).

Taxation of Possessory Interests – Permittee recognizes and understands that this permit may create a possessory interest subject to property taxation, and that permittee may be subject to payment of taxes levied on such interest.

Joint and Several Obligation – If there is more than one permittee subject to the terms of this permit, then all of the terms of this permit shall bind the permittees individually and collectively, and said permittees shall be individually and collectively liable therefore.

Maintenance – The permittee agrees by the acceptance of this permit to exercise reasonable care to maintain properly any encroachment placed by it in the highway and to exercise reasonable care in inspecting for and immediately repairing and making good any injury to any portion of the highway which occurs as a result of the maintenance of the encroachment in the highway or as a result of the work done under this permit, including any and all injury to the highway which would not have occurred had such work not been done or such encroachment not placed therein.

Clear Zone – Any work performed in the right-of-way shall be designed and constructed so that a 10-foot wide area beside the edge of traveled way is clear of any obstructions. No above grade unyielding fixed objects shall be constructed within this clear zone unless specifically permitted by the County. The County may consider construction within the clear zone when it is designed in a manner to break away easily if hit by a moving vehicle.

#### USA MEMBERSHIP REQUIREMENTS:

California Law – Every operator of a subsurface installation, except the Department of Transportation, shall become a member of, participate in, and share in the costs of, a regional notification center, (USA). Cal. Govt. Code Sections 4216-4216.9. "Operator" means any person, corporation, partnership, business trust, public agency, or other entity which owns, operates, or maintains a subsurface installation. For purposes of Section 4216.1 an "Operator" does not include any owner of real property where subsurface facilities are exclusively located if they are used exclusively to furnish services on that property and the subsurface facilities are under the operation and control of that owner. "Subsurface installation" means any underground pipeline, conduit, duct, wire, or other structure, except non-pressurized sewer lines, non-pressurized storm drains, or other non-pressurized drain lines.

#### UTILITY AND UNDERGROUND:

Cutting Pavement – All construction in asphalt shall be bored wherever possible. Open cut construction must be specifically permitted or may be authorized by the County to accommodate unexpected field conditions. When pavement is cut it shall be done in a manner which causes the least possible damage to the adjacent pavement. After the utility is placed and the trench backfilled and based, the pavement shall be trimmed by sawing or other approved means to a sufficient width to removal displaced or damaged pavement. If the trench edge is within 2-feet of the edge of the roadway pavement, the entire 2-feet shall be removed and replaced.

Backfill – Bedding and shading material shall be consolidated and compacted by a field approved method. Backfill material shall be consolidated and compacted to the following standards: (U-4 Series Drawings). Compaction tests shall be taken in locations as determined by the County. If approved by the County, excavations may be backfilled with vibrated sand slurry, or two sack cement

slurry. All tests shall be conducted using Caltrans test methods.

Replacement of Pavement – The surface of all trenches in the traveled way shall be temporarily patched or otherwise surfaced at the end of each working day. Such temporary patching or other field approved surfacing shall be kept in a smooth, firm, dust-free condition for the safe use of the public for no more than 30-days before the final surface patch is required. Cold mix asphalt may be used as a temporary patch material; however, recessed metal plates are required on all arterial and major collector streets. Steel plate bridging shall conform to State Standards TR-0157. After the ditch edges have been trimmed, the base and pavement shall be replaced. The thickness of the base and paving to be replaced shall be determined in the field and shall be at least equal in section to that adjacent to the trench area; however, no pavement shall be less than 3-inches thick. Pavement shall be replaced with Type A hot mix asphalt which shall conform to State requirements for ½-inch maximum medium grading. Base material shall conform to State requirements for Class 2 Aggregate Base.

Plowing – The use of a static plow within 5-feet of the edge of the pavement is prohibited. A vibrating plow may be used to within 1-foot off the edge of the pavement. Any pavement that is broken or otherwise disturbed by the plowing operations shall be removed and replaced. After plowing and prior to any compaction efforts, the plow trench shall be flooded to attain a plastic condition. The trench shall then be compacted by wheel rolling or other suitable means.

General – Minimum cover over utilities shall conform to the Standard U-1 drawing for installation. Maximum length of work under construction at any time shall not exceed 500 feet. Disposal of spoil material shall be in a legal manner and outside the right-of-way unless otherwise specifically approved by the County. Reasonable care shall be taken to avoid damage to major roots of trees. If an independent contractor installs a utility, the operator of the utility must accept the work before final approval of the work by the County.

Responsibility for Failures – The utility/service company that required the installation of facilities within the limits of the County right-of-way shall assume maintenance responsibility, in perpetuity, for any damage/failure to facilities owned and/or maintained by the County of San Luis Obispo as a result of such installation.

#### EROSION CONTROL:

Erosion control measures for wind, water, material stockpiles, and tracking shall be implemented at all times by the contractor and shall include source control, including protection of stockpiles, protection of slopes, protection of all disturbed areas, protection of accesses, and perimeter containment measures. Erosion control shall be placed prior to the commencement of work based upon location, site characteristics or time of year. The intent of erosion control measures shall be to keep all generated sediments from entering a swale, drainage way, watercourse, atmosphere, or migrate onto adjacent properties or onto the public right-of-way.

The contractor shall be responsible for the placement and maintenance of all storm water control measures/devices and shall be available, installed, and/or applied between October 15 and April 15 or anytime the rain probability exceeds 30% per the satisfaction of the permit inspector and the County Public Improvement Standards.

In the event of a failure, the contractor shall be responsible for cleanup and all associated costs or damage. In the event that damage occurs within the right-of-way and the County is required to perform cleanup, the permittee shall be responsible for reimbursing the County all associated costs.

USE OF ROAD SHOULDER (IF SPECIFICALLY PERMITTED): Use of a county shoulder for construction staging and material storage must have prior approval from County Public Works.

Unless permitted otherwise, no construction equipment or materials shall be parked or stored within ten (10) feet of the edge of traveled way or conflict with access to properties, utilities, etc.

The shoulder area shall be signed as closed and portable delineators used to mark a taper in advance of the material or equipment. All delineators shall be equipped with nighttime reflective bands and spaced no greater than 25-foot intervals along the edge of work zone.

Safe public (pedestrian) access to the road shoulder between the edge of pavement and stockpile must be provided at all times.

No vehicle maintenance shall be allowed at any time.

Upon completion of work the shoulder must be returned to a condition equal to or better than pre-disturbed conditions, and to the satisfaction of the county encroachment permit inspector.

Requirements for storage of erosive materials including road base and native soil (must be specifically permitted):

1. An erosion control plan (or SWPPP if required) must be prepared and implemented by the permittee.
2. Stockpiles shall be located a minimum of 10-feet away from the nearest edge of traveled way of the adjacent public road(s); 50-feet away from water bodies such as creeks, rivers, and drainage courses; shall not be located in environmentally sensitive

areas; shall not be located on slopes greater than 20%; and shall not remain longer than 6-months without prior written approval from the Department.

3. All stockpiles should be shaped, not left in an "end dump condition"; should have a slope of 3:1 or flatter with the top surface sloped downhill at minimum of 0.5% and a maximum of 5%; should not exceed 20 feet in height; and no one stockpile should exceed 5,000 cubic yards. Adjacent stockpiles should not be located closer than 50-feet to each other.

4. All stockpiles regardless of time of year shall have silt fence installed immediately around the perimeter at the toe of slope. This silt fence shall be maintained until stockpile is removed.

5. Between April 15th and October 15th stockpiles remaining inactive for longer than one (1) week shall be covered with plastic or otherwise protected to control dust.

6. Between October 15th and April 15th (rainy season) stockpiles shall be stripped of plastic coverings and appropriate Best Management Practices that reduce erosion potential and stabilize the slopes (i.e., hydro-seeding, straw, straw wattles etc.) shall be implemented.

7. Once a stockpile is removed the area below shall be returned to the original contours or final project finished grades with established vegetation.

#### PAVEMENT RESTORATION:

Trench restoration shall be completed in accordance with County R-1, R-3 and/or R-3a standard drawings.

Pavement restoration shall be completed in accordance with County R-1, R-2, R-2a and/or R-4 standard drawings.

All Other Permits Shall Be The Permittee's Responsibility to Obtain.

PERMITEE IS RESPONSIBLE FOR READING AND ADHERING TO ALL CONDITIONS AND PROVISIONS OF THE ENCROACHMENT PERMIT. PERMIT HOLDER SHALL CONTACT THE ENCROACHMENT PERMIT UNIT VIA E-MAIL AT PW.PERMITS@CO.SLO.CA.US OR CALL (805) 781-5252 AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE TO SCHEDULE INSPECTIONS, PRIOR TO COMMENCING OF THE WORK FOR FINAL INSPECTION.

Permit Not Valid Without County Signature

*Phillip Bettencourt*

PHILLIP BETTENCOURT

Work Completed: \_\_\_\_\_  
Inspector Date

For current standards visit: <https://www.slocounty.ca.gov/public-works/public-improvement-standards.aspx>



**C. Proposed Mitigation**

On-site Habitat Set Aside <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  _____ (square-feet)	Habitat Fees Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  \$ <u>14,160.00</u>	Administration Fee Required (\$) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  \$ <u>1,920.00</u>
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Waitlist Position	<u>N/A</u> Waitlist #	<u>N/A</u> Date Requested	<u>N/A</u> Date Granted	<input type="checkbox"/> Single Family Waitlist <input type="checkbox"/> Multi-family Waitlist
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**D. Effective & Expiration Date**

**Discretionary Projects** (*projects requiring a land use permit*): For land use permit applications that are "Accepted for Processing", CRFs are effective for a period of **3-years** after CRF issuance. Building permits must be issued prior to the expiration of the CRF.

**Ministerial Projects** (*building permits only*): Initial building permit fees must be paid within **45-days** of CRF issuance, otherwise HCP credit expires and building permit application will be voided. Following payment of initial building permit fees, CRFs are effective for a period of up to **1-year**. Building permits must be issued prior to the expiration of the CRF.

CRF Effective Date:	<u>6/12/2026</u>	CRF Expiration Date:	<u>6/12/2029</u>
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<b>DEPARTMENTAL USE ONLY - DO NOT MARK</b>			
HCP Disturbance Plan: <input checked="" type="checkbox"/> Attach to this CRF	Biological Visual Survey <input checked="" type="checkbox"/> Attach to this CRF	Water Will-serve <input type="checkbox"/>	Sewer Will-Serve <input type="checkbox"/>
Date Completed: <u>6/12/2026</u>	Land Use Permit #: <u>ENC20260256</u>		



## Exhibit 1 - Avoidance and Minimization Measures (AMMs)

Section 10 (a)(2)(B) of the Endangered Species Act stipulates that the impacts of covered activities must be minimized and mitigated to the maximum extent practicable. Table 5-2 the Los Osos Habitat Conservation Plan (LOHCP) lists the measures that will be implemented to avoid or minimize take of/impacts to the covered species during implementation of the covered activities. These Avoidance and Minimization Measures (AMMs) are designed to reduce the take of/impacts to individuals and the degradation of remaining habitat to the maximum extent practicable, in compliance with federal and state endangered species laws. The measures are outlined in accordance with the LOHCP conservation hierarchy, where attaining goals and objectives for ecosystems and communities will promote conservation of the covered species, as well as other species within the Baywood fine sands ecosystem of Los Osos.

The LOHCP provides four categories of AMMs to avoid take and impacts to: (1) covered species, (2) other listed species, (3) nesting birds, and (4) covered species and nesting birds resulting from implementation of Community Wildfire Protection Plan (CWPP).

Based on the location, habitat conditions, and the terms, conditions, and applicable requirements of the ITP and LOHCP for the covered activity \_\_\_\_\_

**Infrastructure Projects (Water-based Infrastructure)** at APN \_\_\_\_\_:

**County ROW near intersection of Pismo Ave and 5th St** \_\_\_\_\_

compliance with the following AMMs are required:

- [AMM-1](#): Covered Species Avoidance and Minimization Measures - required (pages 2-3)
- [AMM-2](#): Other Listed Species Avoidance and Minimization Measures based on Figure 5-4 of LOHCP, at the planner's discretion (pages 4-6)
- [AMM-3](#): Nesting Birds Avoidance and Minimization Measures (page 7)
- [AMM-4](#): Covered Species and Nesting Birds Resulting from Implementation of Community Wildfire Protection Plan (CWPP) Avoidance and Minimization Measures based on Figure 2-7 of LOHCP (pages 8-9)

*Additional Requirement: If parcel is within PCA and parcel is greater than 2.75 acres*

- Set aside 3:1 conservation for habitat protection



**AMM-1: Covered Species Avoidance and Minimization Measures**

Type	Measure
Ecosystem	E1: Minimize habitat fragmentation and maintain connectivity between aquatic, riparian, and upland habitats by limiting the creation of barriers to species movement, maintaining corridors to connect remaining habitat for the covered species, clustering development, and minimizing length of driveways and other impervious surfaces.
Community	<p>C1: Minimize loss and degradation of the natural communities of the Baywood fine sand ecosystem, including coastal sage scrub, central maritime chaparral, and oak woodlands, by minimizing the area of permanent and temporary habitat disturbance and by siting projects in already developed or degraded areas.</p> <p>C2: Restore all areas of temporary disturbance such as staging areas and impacted areas adjacent to the project footprint, to pre-project conditions or ecologically superior conditions for the covered species. Use plants native to the Baywood fine sand communities from sources located within the LOHCP Plan Area.</p> <p>C3: Avoid use of herbicide and pesticides. Where necessary, apply biocides as part of integrated pest management strategies, while following all local, state, and federal regulations.</p> <p>C4: Minimize impacts of vegetation management projects conducted for fire safety, including to create and maintain defensible space, by implementing the best management practices. The list of BMPs will be maintained by the County and reviewed periodically by the USFWS and CDFW and will include specific fuel-reduction prescriptions designed to minimize impacts to the covered species.</p> <p>C5: Install temporary construction fencing to prevent disturbance outside the designated footprint.</p>
Morro Shoulderband snail (MSS)	<p>Avoid and minimize the impacts to Morro shoulderband Snail to the maximum extent practical, by locating projects away from known or likely occupied habitat, as well as suitable but unoccupied habitat.</p> <p>MSS-1: Prior to and during all ground-disturbing activities in habitat suitable for Morro shoulderband snail within designated parcels (Figure 5-2), a biologist approved by the USFWS shall capture and move all Morro shoulderband snails to suitable habitat away from the project impact area (Section F.2).</p> <p>MSS-2: Avoid introducing non-native snails, and the use of snail control applications, including but not limited to mulluscicide, beer, and/or salt.</p>
Morro Bay Kangaroo Rat (MBKR)	MBKR-1: Prior to ground-disturbing activities in habitat suitable for Morro Bay kangaroo rat within designated parcels (Figure 5-3), the project proponent will retain a CDFW- and USFWS-approved biologist to conduct a visual assessment of the site, which will be followed by a survey, as needed, to ensure the site is not occupied (Section F.1).



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**AMM-1: Covered Species Avoidance and Minimization Measures**

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Type	Measure
Indian Knob Mountainbalm (IKM)	IKM-1: Prior to ground-disturbing activities in habitat suitable for Indian Knob mountainbalm, the project proponent will retain a USFWS-approved biologist to conduct a survey for the species in the project area. If the species is present, the project proponent will work with the County, USFWS, and CDFW to develop a plan to ensure that no take/impacts of this species occurs during project implementation. If a plan cannot be developed to avoid impacts to the species, the project proponent will be required to obtain a separate permit from CDFW in addition to the certificate of inclusion for this HCP.
Morro Manzanita (MM)	MM-1: Avoid and minimize impacts of project activities on Morro manzanita, by siting project disturbance envelopes at least 10 feet away from the canopy of existing plants wherever possible. MM-2: Avoid removal and minimize trimming of Morro manzanita when conducting vegetation management including in association with required hazard abatement activities. <sup>1</sup> MM-3: Avoid planting manzanita species ( <i>Arctostaphylos</i> spp.) other than Morro manzanita to reduce the likelihood of hybridization.

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<sup>1</sup> Does not apply to projects to implement the conservation program, where impacts to individuals will be needed to promote regeneration and maintain suitable habitat.



**AMM-2: Avoidance Measures for Other Listed Species**

Type	Measures
Ecosystems	Avoid altering aquatic systems, including streams, lakes, ponds, and the Morro Bay estuary.
Communities	<p>Avoid impacts to open water or riparian vegetation and wetlands, including freshwater, brackish water, and saltwater wetlands.</p> <p>Conduct vegetation management activities that could affect nesting birds outside of the nesting period, which is currently February 1 – August 31, but may change as a result of climate change.</p>
Species: California seablite, Salt marsh bird's beak, and marsh sandwort	<p>Proponents of covered activities that occur within 100 feet of known or potential habitat for one of more of the listed plant species will arrange for a USFWS-approved biologist to conduct a survey to evaluate presence of the species within suitable habitat within the project parcel. Surveys will be conducted within the flowering period of the three species, which may change as a result of global climate change, but currently are as follows:</p> <p>California seablite: July to October            Salt marsh bird's beak: May to October            Marsh sandwort May to August</p> <p>If one or more species are present, the project will be designed and implemented to avoid impacts to the species or its habitat. The following are specific measures that will be implemented:</p> <p>The project disturbance envelope will exclude occurrences of the species.</p> <p>Orange construction fencing shall be placed between the occurrence and the disturbance envelope and signs will be posted to restrict entry into the protected area.</p> <p>A USFWS-approved biologist will provide pre-project training to all project personnel regarding the species and the measures that must be taken to avoid impacts; the biologist will monitor project implementation to ensure the measures are being implemented and are effective.</p> <p>Erosion and sedimentation control measures will be implemented for projects that have the potential to result in the sedimentation of occupied or suitable habitat.</p> <p>Herbicide application shall be limited to times outside of the rainy season to prevent runoff carrying the herbicide to potential or known habitat. In addition, herbicide application shall be conducted during times of low wind (&lt;10 mph throughout the duration of application) to prevent herbicide drift into potential or known listed plant habitat.</p>
South-Central California Coast Steelhead ( <i>Oncorhynchus            mykiss irideus</i> )	<p>Proponents of covered activities that occur within or adjacent to habitat for steelhead including Los Osos Creek will implement best management practices to avoid impacts to the threatened species. The measures to be implemented will be identified during the application process, based upon aspects of the covered activity and the site it which it occurs, and may include the following:</p>



**AMM-2: Avoidance Measures for Other Listed Species**

Type	Measures
<p>California red-legged frog (<i>Rana draytonii</i>)</p>	<p>All project activities shall minimize disturbance to riparian and upland vegetation.</p> <p>A NMFS-approved biologist will provide pre-project training to all project personnel regarding the species and the protection measures that must be taken to avoid impacts; the biologist will monitor the project to ensure the measures are being implemented and are effective.</p> <p>Projects will be conducted between June 1 and October 15.</p> <p>Appropriate erosion and sedimentation avoidance measures will be taken to prevent sediment runoff into flowing water.</p> <p>Measures will be taken to ensure that petroleum products and other materials do not enter nearby streams and surface waters.</p> <p>Proponents of covered activities that occur within or adjacent to California red-legged frog breeding, dispersal, or foraging habitat will implement best management practices to avoid impacts to the threatened species. The measures to be implemented will be identified during the application process, based upon aspects of the covered activity and the site it which it occurs, and may include the following:</p> <p>All project activities shall avoid disturbance to suitable breeding habitat, including ponds and streams.</p> <p>A USFWS-approved biologist will provide pre-project training to all project personnel regarding the species and the protection measures that must be taken to avoid impacts; the biologist will monitor the project to ensure the measures are being implemented and are effective.</p> <p>All construction-related holes capable of entrapping wildlife will either be covered at the end of each workday or ramped in a manner that will prevent entrapment.</p> <p>Appropriate measures will be taken to ensure petroleum products and other hazardous materials do not enter nearby streams, ponds, and other aquatic habitat.</p>
<p>California Black Rail (<i>Laterallus jamaicensis coturniculus</i>)</p>	<p>Proponents of covered activities that occur within or adjacent to California black rail nesting or foraging habitat will implement best management practices to avoid impacts to the state-listed threatened and California Fully Protected Species. The measures to be implemented will be identified during the application process, based upon aspects of the covered activity and the site at which it occurs, and may include the following:</p> <p>In or adjacent to potential or known California black rail habitat, work activities shall be confined to areas outside of known or potential habitat to the extent feasible. Staging, access, and parking areas shall be located outside of salt marsh and brackish marsh habitats.</p> <p>If woody vegetation within or immediately adjacent to salt marsh habitat must be removed as part of the project, vegetation removal should be conducted between September and January, in order to avoid impacts on nesting birds. If vegetation removal must occur between</p>



**AMM-2: Avoidance Measures for Other Listed Species**

Type	Measures
	<p>February and August, a qualified biologist should conduct a pre-construction survey for nesting birds prior to disturbance. If nesting California black rail are identified, protection measures shall include avoiding work activities within 300 feet of the nesting location.</p> <p>If an active California black rail nest is located closer than 300 feet to a construction or maintenance site and there is the potential for substantial disturbance to nesting birds due to construction activities, a plan to monitor nesting birds during construction shall be prepared and submitted to the CDFW for review and approval.</p> <p>A qualified biological monitor shall be present during all work activities in or adjacent to California black rail habitat. If California black rail is detected during work activities, work shall be stopped immediately and the CDFW shall be contacted immediately. Work shall not resume at that location until authorization is obtained from the CDFW unless prior approval has been granted by the CDFW.</p>
<p>Golden Eagle (<i>Aquila chrysaetos</i>)</p>	<p>Proponents of covered activities that occur within 500 feet of a recorded golden eagle nest site will have a USFWS and CDFW-approved biologist conduct a golden eagle survey to determine whether there is a nest site within 400 yards of the proposed project footprint. Projects with confirmed nesting golden eagles within 400 yards will implement best management practices to avoid impacts to this California Fully Protected Species. The measures to be implemented will be identified during the application process, based upon aspects of the covered activity and the site it which it occurs, and may include the following:</p> <p>Avoid vegetation removal and other project activities that would disrupt nesting behavior during the primary nesting season, which is currently February to August though may change as a result of global climate change, or until the nesting cycle is determined by a USFWS and CDFW-approved biologist to be completed.</p> <p>Avoid removing any suitable trees or other nest sites.</p>
<p>White-tailed kite (<i>Elanus leucurus</i>)</p>	<p>Proponents of covered activities that occur within 500 feet of a recorded or observed white-tailed kite nest site will have a CDFW-approved biologist conduct a white-tailed kite survey to determine whether there is an active nest site within 500 feet of the proposed project footprint. Projects with confirmed nesting white-tailed kite within 500 feet will implement best management practices to avoid impacts to this California Fully Protected Species. The measures to be implemented will be identified during the application process, based upon aspects of the covered activity and the site it which it occurs, and may include the following:</p> <p>Avoid vegetation removal and other project activities that would disrupt nesting behavior during the primary nesting season (February-August), or until the nesting cycle is determined by the USFWS and CDFW-approved biologist to be completed.</p> <p>Avoid removing any suitable trees or other nest sites.</p>



COUNTY OF SAN LUIS OBISPO DEPARTMENT OF  
PLANNING & BUILDING

**Avoidance and Minimization Measures (AMMs)**

**AMM-3: Nesting Birds AMMs**

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**AMM-3: Avoidance Measures for Nesting Birds**

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<b>Type</b>	<b>Measures</b>
Nesting Birds	NB-1: Projects that remove vegetation and other nesting habitat will be conducted outside of the nesting season (September 1 - January 31), whenever feasible; and  NB-2: If it is not feasible, then they will use pre-project surveys for nesting birds to identify measures that will be implemented to avoid impacts to nests of birds of prey and any other nesting birds



**AMM-4: Minimization Measures for the Community Wildfire Protection Plan**

Taxa	Measure	Description
All Covered Species	All-1: Procedures and Training	Clearly defined operational procedures will be developed and implemented by CAL FIRE. A USFWS-approved biologist will develop and deliver environmental awareness training sessions for all personnel involved in hazard abatement activities. The training will inform personnel regarding the identification, status, and presence of covered species likely to be present in each abatement area; those avoidance and minimization measures that must be implemented; and the legal ramifications associated with non-compliance. Training materials will include descriptions and pictures of the covered species, relevant provisions of the State and Federal Endangered Species Acts, and the project boundaries for each abatement action. CAL FIRE will ensure that all personnel who participate in hazard abatement activities within the Plan Area receive this training immediately prior to the start of any hazard abatement activities.
	All-2: Biological Monitor	A USFWS-approved biologist will monitor all vegetation removal activities that will take place within habitat suitable for the covered species. Monitoring activities will be required daily until completion of initial disturbance at each location to ensure that avoidance and minimization measures are implemented. The monitor will be granted full authority to stop work at his or her discretion if abatement-related activities occur outside the demarcated boundaries of the treatment footprint. The monitor will stop work if any of the covered species are detected within the proposed abatement area and take the appropriate species-specific avoidance or minimization measures.
Morro Shoulderband Snail	MSS-1: Pre-Project Survey and Translocation of Morro shoulderband snail	Prior to the start of any abatement activities within habitat suitable for Morro shoulderband snail within the designated parcels (Figure 5-2), a USFWS-approved biologist will conduct surveys to identify the location of any Morro shoulderband snails present in treatment areas. These surveys shall be conducted within 24 hours of the commencement of any activities associated with hazard abatement that could result in take of the species. The primary objective of the pre-activity surveys is to locate as many Morro shoulderband snails as possible so that they can be captured and moved out of harm's way. All live Morro shoulderband snails of any life stage found during pre-activity surveys, or any phase of hazard abatement, will be captured and moved out of harm's way to a pre-determined, USFWS-approved receptor site by the surveying biologist.
	MSS-2: Minimize Impacts to Native Plants Important to Morro shoulderband snail	Canopy thinning and limbing up of plant species of particular value to Morro shoulderband snail must be avoided or minimized to the maximum extent possible. Pre-project surveys of treatment areas should be used to identify plant species that should be avoided, which include but are not limited to mock heather ( <i>Ericameria ericoides</i> ), dune bush lupine ( <i>Lupinus chamissonis</i> ), and sand almond ( <i>Prunus fasciculata var. punctata</i> ).



**AMM-4: Minimization Measures for the Community Wildfire Protection Plan**

Taxa	Measure	Description
MSS-3: Monitor for Morro shoulderband snail		Prior to initiating any hazard abatement activities, a USFWS-approved biologist will be present to ensure that the limits of work are clearly delineated. This biologist shall have the authority to order any reasonable measure necessary to avoid the take of Morro shoulderband snail and to stop any work or activity not in compliance with the conditions set forth in the HCP/ITP. The biologist will notify the Ventura Fish and Wildlife Office and the County of San Luis Obispo Department of Planning and Building of any “stop work” order that is issued and this order will remain in effect until the issue has been resolved.
Morro Bay Kangaroo Rat	MBKR-1: Avoid Impacts to Morro Bay Kangaroo rat	Prior to initiating any fire hazard abatement activities in areas featuring habitat suitable for MBKR within the designated parcels (Figure 5-3), a CDFW and USFWS-approved biologist will conduct a visual assessment of the site, which will be followed by a survey, as needed, to ensure the site is not occupied (Section F.1)
Morro Manzanita	MM-1: Minimize Impacts to Morro Manzanita	No individual Morro manzanita plants will be removed and all canopy thinning and limbing up of lower branches of Morro Manzanita will be avoided or minimized to the extent that abatement goals can still be achieved.
Indian Knob Mountainbalm	IKM-1: Avoid Impacts to Indian Knob Mountainbalm	Prior to initiating any hazard abatement activities, a CDFW and USFWS-approved biologist will survey the treatment area to assess the presence of Indian Knob mountainbalm. If the species is detected within or adjacent to the treatment area, CAL FIRE must consult with the USFWS and CDFW to determine how to proceed as no impacts to individuals this species will be authorized.
Migratory Birds	MBA-1: Avoid Impacts to Migratory Birds	All hazard abatement activities will be conducted outside of the bird breeding season, which is generally considered to be between March 15 and September 15. This seasonal prohibition period will be adjusted, as needed, to reflect changes in the breeding bird season due to climate change or other factors.
		If it is necessary to conduct abatement activities during this timeframe, a USFWS-approved biologist must be retained to conduct breeding bird and nest surveys; treatments may only proceed if no breeding activity or nests are detected.

**Technical Specifications  
for  
Sweet Springs Groundwater Monitoring Wells**

**Prepared for:**

**Los Osos Basin Management Committee  
and  
Los Osos Community Services District**



**Prepared by:**

**Cleath-Harris Geologists, Inc.  
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**(805) 543-1413**

**March 2026**



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## 1.0 Introduction

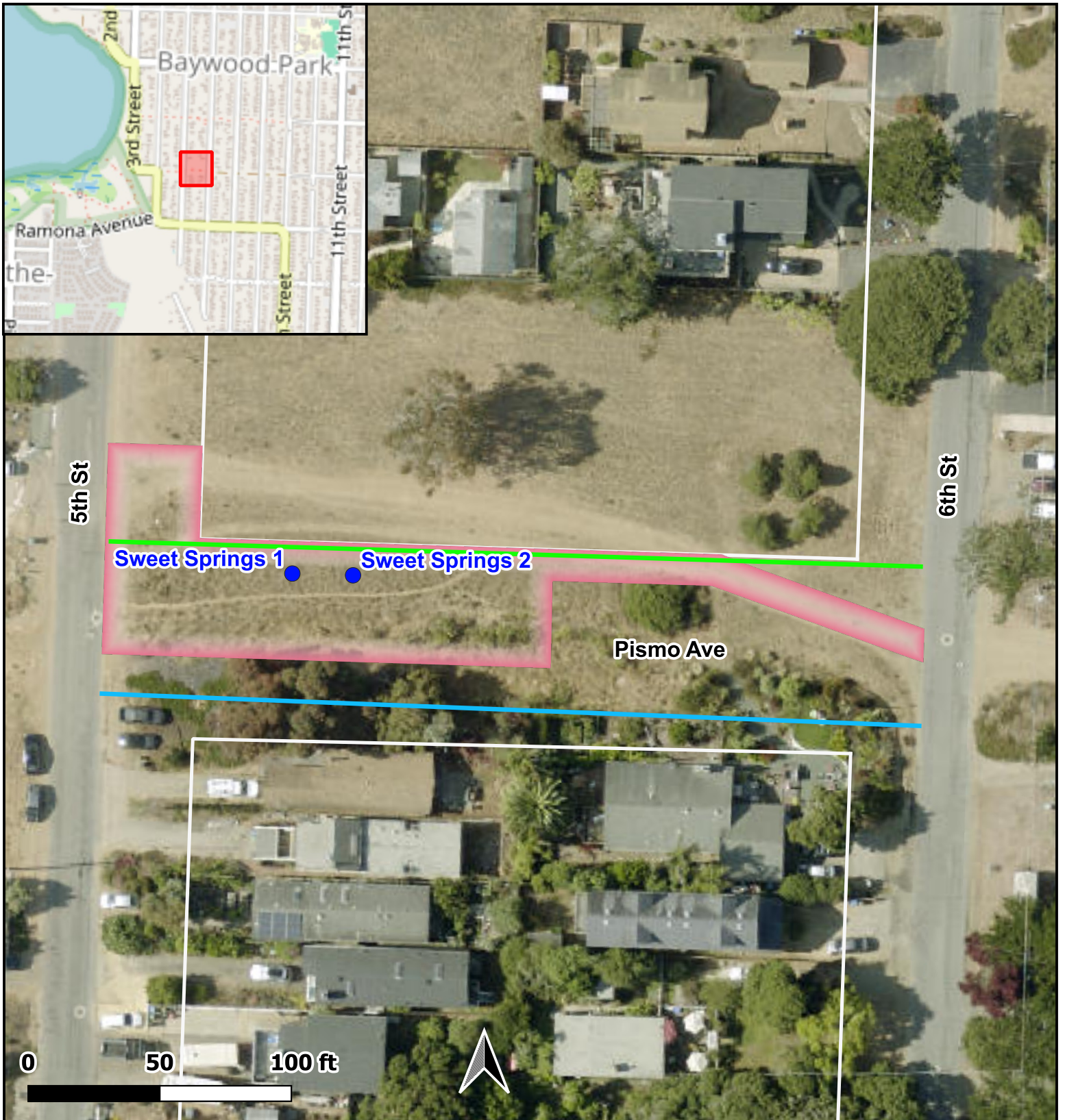
This technical specification applies to the construction and testing of a groundwater monitoring well cluster for the Los Osos Community Services District. The purpose of this specification is to document the level of effort expected from the drilling contractor. This specification does not, through omission, excuse the contractor from complying with any laws, rules and regulations, or standards governing the work being performed.

## 2.0 Scope of Work

The work includes furnishing all labor, materials, transportation, tools, supplies, equipment, and appurtenances necessary for the complete and satisfactory construction, and testing, of the monitoring well cluster. The well site location is shown in Figure 1. Well design construction diagrams for bidding purposes are shown in Figure 2a and 2b. The design and testing parameters are as follows:

### Well Construction Summary

Drilling site:	Corner of Pismo Avenue (unpaved - no traffic) and 5 <sup>th</sup> Street (paved - traffic) in Los Osos, California.
GPS Coordinates:	Sweet Springs 1 (west): N 35.322619; W -120.837428 Sweet Springs 2 (east): N 35.322619; W -120.837351
Conductor Casing:	10-inch SDR-21 PVC blank casing cemented in 18-inch nominal diameter borehole to 50 feet depth (Sweet Springs 1 and 2).
Final borehole size:	Sweet Springs 1 (west): 500 feet, 9-inch nominal diameter Sweet Springs 2 (east): 380 feet, 9-inch nominal diameter
Geophysics:	Sweet Springs 1 only: Spontaneous potential, long and short normal, Laterolog 3, natural gamma ray, sonic. No geophysics at Sweet Springs 2.
Total well depth:	Sweet Springs 1 (west): 490 feet Sweet Springs 2 (east): 370 feet
Sweet Springs 1:	Wellhead to 440 feet: 2.5-inch diameter, Sch 80 PVC blank casing. 440 to 480 feet: 2.5-inch diameter, Sch 80 PVC, 0.020-inch slots. 480 to 490 feet: 2.5-inch diameter, Sch 80 PVC blank casing.



**Explanation**

- Work area (approximate)
- Right of Way limits (approximate)
- Gas line
- Water line
- Proposed well

**Figure 1**

**Proposed Well Locations**

**Sweet Springs Groundwater  
Monitoring Wells**

**Los Osos, California**

**Cleath-Harris Geologists**

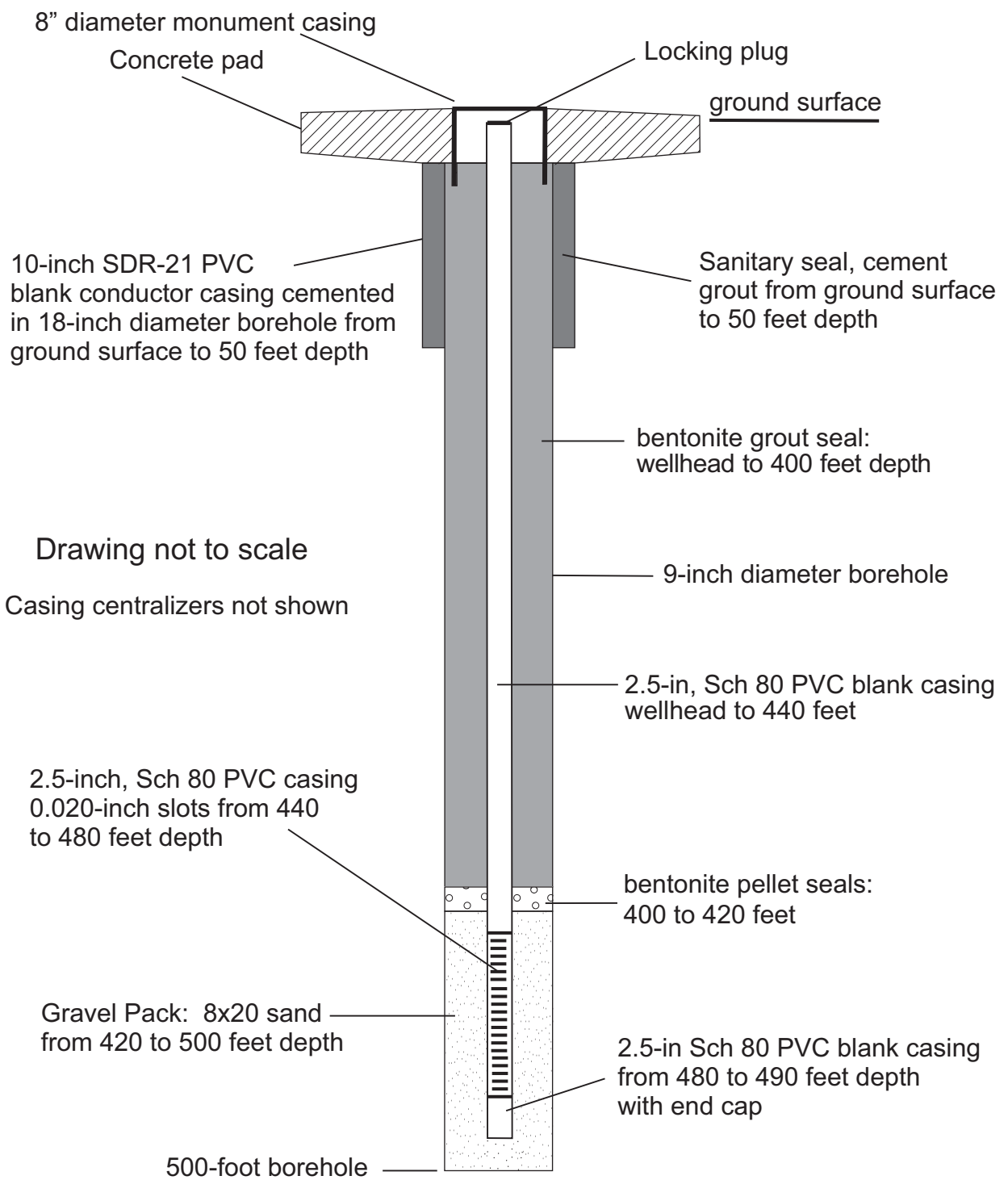


Figure 2a

Preliminary Design  
 Sweet Springs Groundwater  
 Monitoring Well 1  
 Los Osos BMC

Cleath-Harris Geologists

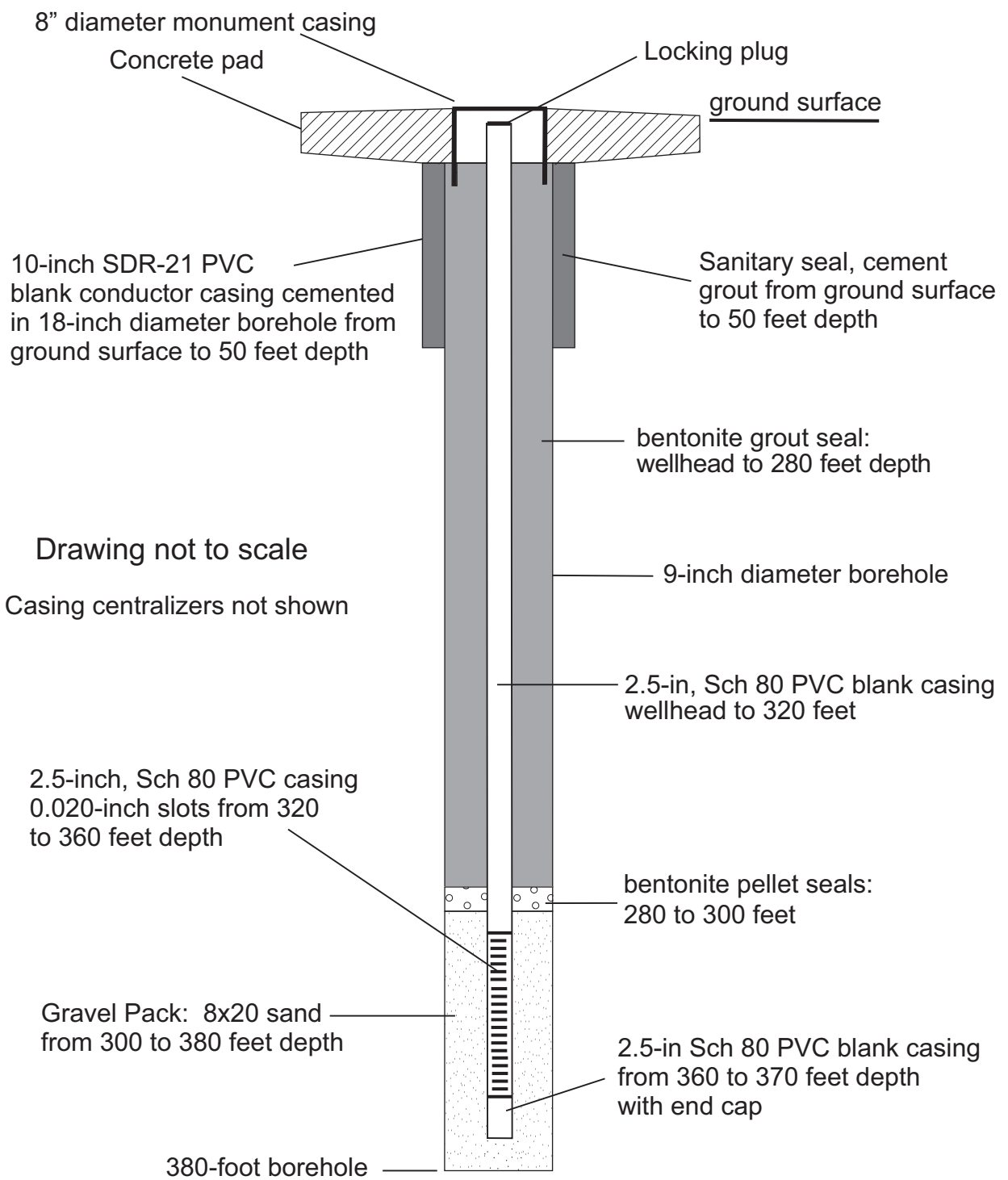


Figure 2b

Preliminary Design  
 Sweet Springs Groundwater  
 Monitoring Well 2  
 Los Osos BMC

Cleath-Harris Geologists



- Sweet Springs 2: Wellhead to 320 feet: 2.5-inch diameter, Sch 80 PVC blank casing.  
320 to 360 feet depth: 2.5-inch diameter, Sch 80 PVC, 0.020-inch slots  
360 to 370 feet: 2.5-inch diameter, Sch 80 PVC blank casing.
- Centralizers: Flexible, stainless-steel centralizers at the top and bottom of screened intervals.
- Gravel pack: 8x20 sand from approved supplier.
- Deep Seals: Sweet Springs 1: Bentonite grout from wellhead to 400 feet depth. Coated time release bentonite pellets from 400 to 420 feet depth.  
  
Sweet Springs 2: Bentonite grout from wellhead to 280 feet depth. Coated time release bentonite pellets from 280 to 300 feet.
- Sanitary Seal: Sweet Springs 1 and 2: Cement grout from wellhead to 50 feet depth (conductor).
- Development: 1 hour air-lift per casing (2 hours total).
- Pumping tests: none
- Development water: Contain development water and percolate on-site.
- Cuttings: Removed from site and disposed by contractor.
- Drilling Mud: Removed from site and disposed by contractor.

### **3.0 Permits, Laws, and Standards**

The contractor is responsible for obtaining a well application permit prior to drilling and for filing a Well Completion Report at the conclusion of the project. The contractor shall comply with all federal, state, or local laws, ordinances, rules and regulations, and standards relating to the performance of work, including the California Water Well Standards (Dept. of Water Resources Bulletins 74-81 and 74-90) and any applicable noise ordinance.

An encroachment permit from San Luis Obispo County will be needed for well construction in county right-of-way. Contractor will obtain the encroachment permit with assistance as needed from District. Contractor will follow applicable provisions of encroachment permit.



#### **4.0 Site Access/Make-up Water**

Any improvements necessary for access shall be identified by the contractor during the initial site inspection. The contractor is responsible for ensuring that site access is satisfactory prior to mobilizing equipment on-site. Arranging for, obtaining, and transporting water for drilling shall be the contractor's responsibility.

#### **5.0 Conductor Casing/Sanitary Seal**

A conductor casing shall be used to stabilize the upper borehole walls at both Sweet Springs 1 and Sweet Springs 2 as indicated in the Scope of Work. The conductor casing shall be installed to a minimum depth of 50 feet bgs in a nominal 18-inch diameter borehole. The conductor shall be 10-inch diameter SDR 21 PVC. After the conductor has been centered and aligned plumb in the borehole, the annular space shall be filled with cement grout that will also serve as the sanitary seal for the well.

#### **6.0 Borehole Drilling**

A borehole shall be drilled to the total depths listed in the Scope of Work. During borehole drilling, the contractor shall keep the following minimum records:

- 5.1 A descriptive log of the formation materials with depths at which each change in materials occurs.
- 5.2 The penetration rate of each drill pipe section, reported in minutes per joint.
- 5.3 Collect representative formation samples in labeled containers at regular 10-foot intervals.
- 5.4 Record the drill bits used (type and size) and any notable events, such as loss of circulation, hole instability, voids, etc.
- 5.5 A mud condition log (Section 6.0)

#### **7.0 Mud Program**

A mud program is required. Only high-grade products shall be used in the make-up of the drilling fluid. The purpose of the mud program is to prevent formation invasion by drilling fluid, reduce the potential for other downhole problems, and facilitate development. Solids control is very important to limiting water loss and the de-sanding equipment should be capable of handling about 1-1/2 times the anticipated maximum pumping volume, with fines removal down to about 25 microns.

The contractor shall either provide and follow a mud program designed by a qualified Mud Engineer or shall follow the mud program described below. The mud program involves maintaining mud values within specified limits and checking/adjusting mud values at least once



every 4 hours during drilling. The program may be modified if necessary, during drilling, however, the reasons for any modification to the program should be noted. Sufficient time for proper monitoring and conditioning of the drilling mud every morning and as needed during drilling should be taken and will be expected. The basic monitoring components of the mud program are as follows:

- 7.1 Drilling fluid pH should be between 8.5-9 units. Adjust make-up water pH with soda ash before adding bentonite. pH strips are acceptable for testing.
- 7.2 Mud weight should be less than 9.0 pounds per gallon. A mud balance is required.
- 7.3 Mud viscosity should generally be between 35-50 seconds. Viscosity should only be as high as needed to clean out hole. A marsh funnel viscometer is required.
- 7.4 Sand content should be less than 2 percent. An Imhoff cone or equivalent is required.

Mud conditioning additives, such as a polymer for shielding formation clays from hydrating, are required. Additives should be mixed per manufacturer instructions, slowly, while circulating after all other mud adjustments are made in the morning. Mud viscosity increases due to additives should be taken into consideration. Drilling mud additives may include National Science Foundation (NSF) certified products such as Aqua-Gel, Quik-Gel, EZ-Mud, Quick-Trol, Drispac, etc. Specific product selection and use are at contractor's discretion and based on actual borehole conditions. All bentonite and mud additive products must be approved by the project inspector.

The basic procedure for daily mud monitoring/adjusting is as follows:

- 7.5 Circulate mud in the morning. If greater volume is needed, add clean water first. Pre-treat make-up water with about 6 ounces of soda ash per 300 gallons.
- 7.6 Check fluid pH. Adjust using soda ash (to increase) or clean water (to decrease).
- 7.7 Check mud viscosity. Add bentonite to increase. Allow for about 10 seconds of increased viscosity for polymer, if used.
- 7.8 Check sand content. If too high, circulate through de-sanding cones and recheck.
- 7.9 Check mud weight. If too high, add clean water and return to step 6.6.
- 7.10 Add polymer last. Polymer should be added very slowly and used sparingly. Check final viscosity.
- 7.11 Recheck mud values every 4 hours during drilling. All mud values and product quantities used should be recorded in a log.

## 8.0 Final Design

The project inspector will determine the final well design following receipt of the e-log and other borehole results from contractor (generally within a few hours of borehole completion). Changes to the well design used for bidding would involve adjustments to total well depth, screened interval, and/or deep seal depths.



## **9.0 Casing Placement**

Well casing installations shall begin as soon as practical following contractor receipt of the final design. All casing material delivered to the site will be new.

The well casings and screens will be placed in the correct position and depth or an alternate acceptable to the project inspector. Casing centralizers will be attached at the required intervals, or as directed by the project inspector. The well casings will be suspended from the top and allowed to hang freely in the borehole at all times during well construction.

## **10.0 Filter Pack Placement**

The filter pack will consist of clean, mostly rounded to sub-rounded silica sand, graded to the specifications listed in the Scope of Work. A recent sieve analysis of the product being used must be provided to the project inspector. The project inspector has the right to reject a filter pack if the sieve analysis is unsatisfactory or not representative of the actual delivered load, if the grains are mostly angular to highly angular, or if the sand has more than a trace of impurities, especially of calcium carbonate (such as shell fragments). The filter pack shall be protected from contamination during storage. If stored on site, the filter pack shall be placed on new plastic sheeting (visqueen) and covered with new plastic sheeting.

Prior to placement of the gravel pack into the annular space, the drilling fluid shall be thinned with clean water. The filter pack shall be placed in the well bore by use of a tremie pipe. The rate of gravel placement shall not exceed 1.5 feet per minute, and placement of gravel shall proceed without interruption until completion.

## **11.0 Deep Seals**

Two types of deep seal will be used to isolate the well casings in each borehole, (1) coated time release bentonite pellets and (2) bentonite grout (slurry). All sealing products must be approved by the project inspector.

Pellets shall be placed through a tremie pipe the depths specified in the Scope of Work, with depth verification using a tag line. Bentonite grout shall consist of a high-solids bentonite and water mixture specifically designed for borehole seals, with a minimum of 20 percent solids. Conventional drilling clay and water is not acceptable. The grout shall be thoroughly mixed so that no lumps exist, and shall be pumped through a tremie pipe to the sealing depth.

## **12.0 Well Development**

The two monitoring wells will be developed by air lifting. A surge block and bailer can be used, if needed, to assist with development and removing fines from the bottom of the well. Discharge water from well development shall be percolated on site.



### **13.0 Drill Cuttings and Drilling Fluids**

Drill cuttings shall be removed from the site and disposed of at contractor's expense. All drilling fluids must be contained and removed from the site and disposed of at contractor's expense.

### **14.0 Site Security/Traffic Control**

The work area surrounding the drilling rig shall be clearly marked with signage and/or plastic safety netting to prevent unauthorized entry, and the test hole shall be covered to prevent access when contractor is not present on site. Traffic control shall be provided in accordance with any applicable provisions in the encroachment permit.

### **15.0 Monitoring Well Boxes**

The finished wellheads shall consist of the well casings terminated below grade inside an 8-inch diameter traffic-rated well box with concrete pad. The concrete pads shall be a minimum of 4-inches thick and a nominal 3-foot square, with the surface gently sloped to drain away from the manhole cover. The well box shall be placed at the center of the concrete pad. The conductor casing will need to be cut off below grade to accommodate well box and concrete pad installation (see Figure 2a and 2b). Each nested casing will be furnished with a locking plug. The manhole cover shall include the words "monitoring well" and be a water-tight design. Well box and locking plug products must be approved by the project inspector.

### **16.0 Final Inspection**

The project inspector will inspect the site and wellhead prior to releasing the contractor from the job. All trash, extra materials, and drilling fluids generated by the contractor must be off the site, and the wellhead must be properly secured in the well box.

🗑 REMOVE FROM MY PERMITS
📁 UPLOAD FILE



Information as of 5/4/2026 11:52:44 AM

**ENCROACHMENT: ENC20260256**

<b>TYPE:</b>	GENERAL - NO CHARGE	<b>APPLIED:</b>	04/14/2026
<b>STATUS:</b>	PENDING	<b>ISSUED:</b>	
<b>TOTAL FEES:</b>	\$0.00	<b>EXPIRES:</b>	07/13/2026
<b>BALANCE DUE:</b>	\$0.00	<b>FINAL:</b>	
<b>PRIMARY CONTACT:</b>	LOS OSOS BASIN MANAGEMENT COMMITTEE		
<b>LOCATION:</b>	PISMO AVE, LOS OSOS		
<b>PARCEL:</b>			

**WORK DESCRIPTION:** Construction of monitoring well(s) to be completed by the selected drilling contractor (details below). Application on behalf of LOCSD/ LO Basin Management Committee. - Drilling site: Corner of Pismo Avenue (unpaved - no traffic) and 5th Street (paved - traffic) in Los Osos, California. - GPS Coordinates: Sweet Springs 1 (west): N 35.322619; W -120.837428, Sweet Springs 2 (east): N 35.322619; W -120.837351 - Conductor Casing: 10-inch SDR-21 PVC blank casing cemented in 18-inch nominal diameter borehole to 50 feet depth (Sweet Springs 1 and 2). - Final borehole size: Sweet Springs 1 (west): 500 feet, 9-inch nominal diameter, Sweet Springs 2 (east): 380 feet, 9-inch nominal diameter. - Geophysics: Sweet Springs 1 only: Spontaneous potential, long and short normal, Laterolog 3, natural gamma ray, sonic. No geophysics at Sweet Springs 2. - Total well depth: Sweet Springs 1 (west): 490 feet, Sweet Springs 2 (east): 370 feet - Sweet Springs 1: Wellhead to 440 feet: 2.5-inch diameter, Sch 80 PVC blank casing. 440 to 480 feet: 2.5-inch diameter, Sch 80 PVC, 0.020-inch slots. 480 to 490 feet: 2.5-inch diameter, Sch 80 PVC blank casing 1. Utility work in accordance with County Public Improvement Standards. 2. Construct two groundwater monitoring wells. 3. Construct wells per design details developed by Cleath-Harris Geologists. 4. The noticing requirement is 100' for occupants and 300' for owners. 5. MSS pre-con survey and this will be carried out by the CSD construction personnel with training by biologist previously approved to perform such activities for the Project. Results will be submitted to the County prior to initiation of construction. 6. Pavement / shoulder restoration in accordance with County Public Improvements Standards 7. Mandatory preconstruction meeting with County Public Works Inspector (805) 305-1516 8. Traffic control in accordance with permit conditions and per MUTCD standards. 9. Environmental clearances required from the Department of Public Works and Planning and Building Department prior to ENC permit issuance.

ASSOCIATED PEOPLE		
TYPE	NAME	PRIMARY CONTACT
OWNER	LOS OSOS BASIN MANAGEMENT COMMITTEE	Y
APPLICANT	CONFLUENCE ENGINEERING SOLUTIONS	N
CONTRACTOR	N/A N/A	N

CONDITIONS	
DESCRIPTION	CONDITION
PERMITTED SHOULDER, LAN...	Shoulder closures are permitted on: <b>NO SHOULDER CLOSURES PERMITTED</b>  Lane closures are permitted on: <b>NO LANE CLOSURES PERMITTED</b>  Road closures are permitted on: <b>NO ROAD CLOSURES PERMITTED</b>
STORMWATER WAIVER	By signing this permit, the owner/authorized agent/contractor of record for this project certifies that this project is not subject to post construction performance requirements (Central Coast Water Board Resolution R3-2013-0032) for one of the reasons below. If field changes necessitate the replacement of impervious surfaces to the subgrade or an expansion of impervious areas, the applicant must notify Public Works.  (1) The project will create and/or replace less than 2,500 square feet of impervious area. (2) The project consists of one or more items recognized by the RWQCB as non-regulated projects per the list below.  <b>Non-Regulated Projects</b> <ul style="list-style-type: none"> <li>• Road surface repair including slurry sealing, fog sealing, and pothole and square cut patching, or crack sealing.</li> <li>• Repair/reconstruction of road because of slope failures, natural disasters, acts of God or other man-made disaster.</li> <li>• Resurfacing with in-kind material without expanding the road.</li> <li>• Shoulder grading.</li> <li>• Overlaying existing asphalt or concrete pavement with asphalt or concrete without expanding area of coverage.</li> <li>• Cleaning, repairing, maintaining, reshaping, or re-grading drainage systems.</li> <li>• Practices to maintain original line and grade, hydraulic capacity, and overall footprint of the road.</li> <li>• Underground utility projects that replace ground surface with in-kind material or materials with similar runoff characteristics.</li> <li>• Curb and gutter improvement or replacement projects that are not part of any additional creation or replacement of impervious surface area (e.g.,</li> </ul>

DESCRIPTION	CONDITION
	<p>commissioner shall serve on the permittee his written demand specifying the place of relocation and specifying a reasonable time within which the work of relocation must be commenced. The permittee must commence such relocation within the time specified in said demand and thereafter diligently prosecute the same to completion.</p> <p>All permits other than those issued to public agencies or a public utility having lawful authority to occupy the roads are revocable on five days' notice and the encroachment must be removed or relocated as may be specified by the road commissioner in the notice revoking the permit and within a reasonable time specified by the road commissioner unless the permit provides a specified time.</p> <p>Public utilities may be required, within a reasonable time, to relocate such of their facilities as interfere with an enlarged public use of the road, except in those cases where the enlarged use of the road involves a state freeway.</p> <p>If required, a cash deposit has been posted by the permittee. It is agreed that funds will be drawn from the deposit to pay the actual costs of any action taken by the County to correct any unsafe condition that may arise during the course of the above permitted activity.</p> <p><b>TRAFFIC CONTROL:</b> The contractor shall be responsible for providing traffic control throughout all phases of work in accordance with Part 6 of the California Manual on Uniform Traffic Control Devices (CA MUTCD).</p> <p><b>PEDESTRIAN PROTECTION:</b> The permittee shall be responsible for constructing and maintaining pedestrian protection devices at all times and in accordance with the California Manual of Uniform Traffic Control Devices (CA-MUTCD), and the California Building Code (CBC). If permitted herein, sidewalk closures must conform to Part 6 of the CA-MUTCD, including TA-28 and TA-29; and pedestrian protection through a construction zone must conform to CBC §3306, including barricades, railings, covered walkways.</p> <p><b>ENVIRONMENTAL:</b> In the event archeological resources are unearthed or discovered during construction activities associated with this permit all work must immediately cease and the permit inspector notified. Work may only resume after a mitigation plan to avoid the resources to the maximum degree feasible has been approved by the County.</p> <p>All mitigation required by project environmental permits will be the responsibility of the permittee. Applicable permits may include local agency, U.S. Army Corps of Engineers, the California Regional Water Quality Control Board/State Water Resources Control Board, and/or the California Department of Fish &amp; Wildlife. The permittee must submit copies of each environmental permit to the County Department of Public Works prior to release of improvement security.</p> <p><b>SURVEY MONUMENT PRESERVATION:</b> Prior to commencing work the permittee shall hire a licensed land surveyor or registered civil engineer, legally authorized to practice land surveying, to locate all the survey monuments within the work zone and file a corner record or record survey of the references with the County Surveyor if the monument could be destroyed, damaged, covered, disturbed, or otherwise obliterated. Prior to completion of the permitted work, all disturbed monuments shall be reset in the surface of the new construction, a suitable monument box placed thereon, or permanent witness monuments set to perpetuate their location; and a new corner record or record of survey of the references shall be filled with the County Surveyor. It shall be the responsibility of the permittee to provide for the monumentation required by this section.</p> <p><b>MAINTENANCE OF FACILITIES:</b> The permittee agrees to exercise reasonable care to maintain properly any encroachment placed by it in the highway and to exercise reasonable care in inspecting for and immediately repairing and making good any injury to any portion of the highway which occurs as a result of the maintenance of the encroachment in the highway or as a result of the work done under this permit, including any and all injury to the highway which would not have occurred had such work not been done or such encroachment not placed therein.</p> <p><b>RESTORATION OF RIGHT-OF-WAY:</b> Upon completion of the work authorized per this permit, the permittee, at its sole expense, must restore the right-of-way (roads and shoulder) to a condition equivalent to the right-of-way condition immediately before the encroachment work was commenced, unless otherwise authorized by the County Inspector or County Development Services Engineer.</p> <p>Restoration of the right-of-way (road and shoulder) is at the sole discretion of the County Development Services Engineer and/or County Inspector. Any work (trenching, potholing, boring, etc.) to county-maintained roads may require full lane, half lane, etc., overlays to be paved back based on the assessment of the County Development Services Engineer and/or County Inspector and can be requested at any point during the project. Assessment is based upon existing road condition, extent of work activities, any amendments to the scope of work, and requirements set forth in Public Improvements Standard R-1 for seam locations.</p> <p><b>ACCEPTANCE:</b> Commencement of any work under this permit shall constitute acceptance of all conditions and requirements of the permit whether or not the permit is signed by said person or an authorized representative of said person, firm or corporation.</p> <p><b>AGREEMENT CLAUSE:</b> The permittee agrees and accepts that the work will be conducted in accordance with the Encroachment Permit Conditions, the (County) Public Improvement Standards, the Streets and Highways Code, State Vehicle Code, County Code, and these attached Provisions.</p> <p>The permittee agrees and accepts that any work within the right of way of a county-maintained road shall be performed by an appropriately licensed and bonded contractor and shall provide traffic control per the latest California Manual of Uniform Traffic Control Devices.</p> <p>The permittee shall defend, indemnify and save harmless the County of San Luis Obispo, its officers, agents and employees from any and all claims, demands, damages, costs, expenses, or liability that relate in any way to this permit, including, but not limited to, any act or omission on the part of the permittee, or of agents, employees, or independent contractors directly responsible to the permittee; including, but not limited to, any defects, flaws or errors in the design or performance of any work under this permit, providing further that the foregoing shall apply to any acts, or omissions to act, committed jointly or concurrently by the permittee, the permittee's agents, employees or independent contractors, and the County, its agents, employees or independent contractors. Nothing contained in the foregoing indemnity provisions shall be construed to require the permittee to indemnify the County against any responsibility or liability in contravention of Section 2782 of the Civil Code.</p>
GENERAL ENCROACHMENT P...	<p>Authority – This permit is issued pursuant to Chapter 13.08 of the San Luis Obispo County Code and Chapter 5.5 (commencing with Section 1450) of the Division 2 of the California Streets and Highways Code, the provisions of which are incorporated herein by reference as though fully set forth herein. Special event permits with are issued pursuant to Chapter 15.610 of the San Luis Obispo County Code and Chapter 2 (commencing with Section 942) of the Division 2 of the California Streets and Highways Code, the provisions of which are incorporated herein by reference as though fully set forth herein. Issuance or denial of permit may be appealed to the Board of Supervisors. All board decisions are final and conclusive.</p> <p>Definitions – The word "County" as used herein means the County of San Luis Obispo acting by and through its Director of Public Works or his duly authorized representative. The word "work" as used herein means allowed activities in the County of San Luis Obispo right-of-way as specified in the encroachment permit.</p> <p>No Precedent Established – This permit is granted with the understanding that this action is not to be considered to establish a precedent concerning any kind of encroachment within the county right-of-way.</p> <p>Permits from Others – When the law requires the consent to any work hereunder from any other public board or person having jurisdiction, this</p>

DESCRIPTION	CONDITION
	<p>Responsible Party – No party other than the named permittee or their agent is authorized to work under any permit.</p> <p>Notice Prior to Starting Work – Before starting work under the encroachment permit, the permittee shall notify the County 24-hours prior to initial start of work.</p> <p>Indemnity – The permittee shall defend, indemnify and save harmless the County of San Luis Obispo, its officers, agents and employees from any and all claims, demands, damages, costs, expenses, or liability that relate in any way to this permit, including, but not limited to, any act or omission on the part of the permittee, or of agents, employees, or independent contractors directly responsible to the permittee; including, but not limited to, any defects, flaws or errors in the design or performance of any work under this permit, providing further that the foregoing shall apply to any acts, or omissions to act, committed jointly or concurrently by the permittee, the permittee’s agents, employees or independent contractors, and the County, its agents, employees or independent contractors. Nothing contained in the foregoing indemnity provisions shall be construed to require the permittee to indemnify the County against any responsibility or liability in contravention of Section 2782 of the Civil Code.</p> <p>Other Work – This permit is to be strictly construed, and no work other than that specifically mentioned is authorized hereby.</p> <p>Safety – All work shall be performed in a safe and workmanlike manner in accordance with all applicable laws and regulations.</p> <p>Keep Permit on the Job – This permit shall be kept at the site of the work and shall be shown to any representative of the County, or any law enforcement officer on request.</p> <p>Protection of the Public – The work shall cause the least possible inconvenience to the traveling public. Two-way traffic shall be maintained from the close of the working day to the start of the next working day. County approval required for shoulder, lane, and road closures. All warning signs, lights, devices, and procedures shall conform to the latest California Manual of Uniform Traffic Control Devices (CA MUTCD). All traffic associated with the work shall follow the provisions of the California Vehicle Code.</p> <p>Standards of Construction – Any matter not specifically mentioned herein, or covered by direct reference, shall conform to the latest adopted County Public Improvement Standards, and, if not covered therein, to Caltrans Standard Specifications and Plans.</p> <p>County Inspection – All work shall be subject to County inspection and performed in accordance with latest adopted County Public Improvement Standards and to the satisfaction of the County.</p> <p>Expense of Inspection – On work which in the judgment of the County requires the presence of an employee of the Department of Public Works as inspector, the actual cost (including salary, traveling expense, and overhead) of such inspection shall be paid by the permittee upon presentation of a statement therefore. The cost of any tests required by the County shall be borne by the permittee.</p> <p>Security – The applicant shall provide a cash security (with assignment to the County of San Luis Obispo) in the amount specified on the encroachment permit which sum is deemed sufficient by the County and which deposit aforesaid shall guarantee payment to the County of San Luis Obispo for all costs of work of improvement, engineering, inspection, maintenance, and related incidental expenses done or incurred by the County as is provided for herein. Expense of County costs shall be paid current and/or the finalization of encroachment permit is required prior to release of security.</p> <p>Restoration of Right-of-Way – All portions of the right-of-way, and all adjacent areas directly affecting such, if disturbed by work pursuant to this permit, shall be promptly restored to prior condition (including the replacement of suitable material and/or the planting of vegetation) and shall be left in a presentable condition.</p> <p>Existing Utilities – The permittee shall contact all utilities to determine the location of any existing facilities prior to any excavation. The underground Service Alert ticket number and name shall be kept on the job site and be available to any representative of the County or any law enforcement officer on request. The permittee shall also contact the local water purveyor, sanitation district or other utility not affiliated with Underground Service Alert to advise them of the proposed project. The date and name of this contact must also be kept on the job site. The permittee shall immediately notify the owning utility of any damage to the existing facility.</p> <p>Future Moving of Installation – In the event it becomes necessary, in the opinion of the County, to remove or relocate the encroachment permitted hereunder, such shall be accomplished by, and at the sole expense of, the permittee, and within such time and manner as may be required by the County. (Curb and gutter improvements constructed in accordance with approved plans are exempted from this provision).</p> <p>Taxation of Possessory Interests – Permittee recognizes and understands that this permit may create a possessory interest subject to property taxation, and that permittee may be subject to payment of taxes levied on such interest.</p> <p>Joint and Several Obligation – If there is more than one permittee subject to the terms of this permit, then all of the terms of this permit shall bind the permittees individually and collectively, and said permittees shall be individually and collectively liable therefore.</p> <p>Maintenance – The permittee agrees by the acceptance of this permit to exercise reasonable care to maintain properly any encroachment placed by it in the highway and to exercise reasonable care in inspecting for and immediately repairing and making good any injury to any portion of the highway which occurs as a result of the maintenance of the encroachment in the highway or as a result of the work done under this permit, including any and all injury to the highway which would not have occurred had such work not been done or such encroachment not placed therein.</p> <p>Clear Zone – Any work performed in the right-of-way shall be designed and constructed so that a 10-foot wide area beside the edge of traveled way is clear of any obstructions. No above grade unyielding fixed objects shall be constructed within this clear zone unless specifically permitted by the County. The County may consider construction within the clear zone when it is designed in a manner to break away easily if hit by a moving vehicle.</p> <p><b>USA MEMBERSHIP REQUIREMENTS:</b>  California Law – Every operator of a subsurface installation, except the Department of Transportation, shall become a member of, participate in, and share in the costs of, a regional notification center, (USA). Cal. Govt. Code Sections 4216-4216.9. "Operator" means any person, corporation, partnership, business trust, public agency, or other entity which owns, operates, or maintains a subsurface installation. For purposes of Section 4216.1 an "Operator" does not include any owner of real property where subsurface facilities are exclusively located if they are used exclusively to furnish services on that property and the subsurface facilities are under the operation and control of that owner. "Subsurface installation" means any underground pipeline, conduit, duct, wire, or other structure, except non-pressurized sewer lines, non-pressurized storm drains, or other non-pressurized drain lines.</p> <p><b>UTILITY AND UNDERGROUND:</b>  Cutting Pavement – All construction in asphalt shall be bored wherever possible. Open cut construction must be specifically permitted or may be authorized by the County to accommodate unexpected field conditions. When pavement is cut it shall be done in a manner which causes the least possible damage to the adjacent pavement. After the utility is placed and the trench backfilled and based, the pavement shall be trimmed by sawing or other approved means to a sufficient width to removal displaced or damaged pavement. If the trench edge is within 2-feet of the edge of the roadway pavement, the entire 2-feet shall be removed and replaced.</p> <p>Backfill – Bedding and shading material shall be consolidated and compacted by a field approved method. Backfill material shall be consolidated and compacted to the following standards: (U-4 Series Drawings). Compaction tests shall be taken in locations as determined by the County. If approved by the County, excavations may be backfilled with vibrated sand slurry, or two sack cement slurry. All tests shall be conducted using</p>

DESCRIPTION	CONDITION
	<p>public for no more than 30-days before the final surface patch is required. Cold mix asphalt may be used as a temporary patch material; however, recessed metal plates are required on all arterial and major collector streets. Steel plate bridging shall conform to State Standards TR-0157. After the ditch edges have been trimmed, the base and pavement shall be replaced. The thickness of the base and paving to be replaced shall be determined in the field and shall be at least equal in section to that adjacent to the trench area; however, no pavement shall be less than 3-inches thick. Pavement shall be replaced with Type A hot mix asphalt which shall conform to State requirements for ½-inch maximum medium grading. Base material shall conform to State requirements for Class 2 Aggregate Base.</p> <p>Plowing – The use of a static plow within 5-feet of the edge of the pavement is prohibited. A vibrating plow may be used to within 1-foot off the edge of the pavement. Any pavement that is broken or otherwise disturbed by the plowing operations shall be removed and replaced. After plowing and prior to any compaction efforts, the plow trench shall be flooded to attain a plastic condition. The trench shall then be compacted by wheel rolling or other suitable means.</p> <p>General – Minimum cover over utilities shall conform to the Standard U-1 drawing for installation. Maximum length of work under construction at any time shall not exceed 500 feet. Disposal of spoil material shall be in a legal manner and outside the right-of-way unless otherwise specifically approved by the County. Reasonable care shall be taken to avoid damage to major roots of trees. If an independent contractor installs a utility, the operator of the utility must accept the work before final approval of the work by the County.</p> <p>Responsibility for Failures – The utility/service company that required the installation of facilities within the limits of the County right-of-way shall assume maintenance responsibility, in perpetuity, for any damage/failure to facilities owned and/or maintained by the County of San Luis Obispo as a result of such installation.</p> <p><b>EROSION CONTROL:</b> Erosion control measures for wind, water, material stockpiles, and tracking shall be implemented at all times by the contractor and shall include source control, including protection of stockpiles, protection of slopes, protection of all disturbed areas, protection of accesses, and perimeter containment measures. Erosion control shall be placed prior to the commencement of work based upon location, site characteristics or time of year. The intent of erosion control measures shall be to keep all generated sediments from entering a swale, drainage way, watercourse, atmosphere, or migrate onto adjacent properties or onto the public right-of-way.</p> <p>The contractor shall be responsible for the placement and maintenance of all storm water control measures/devices and shall be available, installed, and/or applied between October 15 and April 15 or anytime the rain probability exceeds 30% per the satisfaction of the permit inspector and the County Public Improvement Standards.</p> <p>In the event of a failure, the contractor shall be responsible for cleanup and all associated costs or damage. In the event that damage occurs within the right-of-way and the County is required to perform cleanup, the permittee shall be responsible for reimbursing the County all associated costs.</p> <p><b>USE OF ROAD SHOULDER (IF SPECIFICALLY PERMITTED):</b> Use of a county shoulder for construction staging and material storage must have prior approval from County Public Works.</p> <p>Unless permitted otherwise, no construction equipment or materials shall be parked or stored within ten (10) feet of the edge of traveled way or conflict with access to properties, utilities, etc.</p> <p>The shoulder area shall be signed as closed and portable delineators used to mark a taper in advance of the material or equipment. All delineators shall be equipped with nighttime reflective bands and spaced no greater than 25-foot intervals along the edge of work zone.</p> <p>Safe public (pedestrian) access to the road shoulder between the edge of pavement and stockpile must be provided at all times.</p> <p>No vehicle maintenance shall be allowed at any time.</p> <p>Upon completion of work the shoulder must be returned to a condition equal to or better than pre-disturbed conditions, and to the satisfaction of the county encroachment permit inspector.</p> <p>Requirements for storage of erosive materials including road base and native soil (must be specifically permitted):</p> <ol style="list-style-type: none"> <li>1. An erosion control plan (or SWPPP if required) must be prepared and implemented by the permittee.</li> <li>2. Stockpiles shall be located a minimum of 10-feet away from the nearest edge of traveled way of the adjacent public road(s); 50-feet away from water bodies such as creeks, rivers, and drainage courses; shall not be located in environmentally sensitive areas; shall not be located on slopes greater than 20%; and shall not remain longer than 6-months without prior written approval from the Department.</li> <li>3. All stockpiles should be shaped, not left in an "end dump condition"; should have a slope of 3:1 or flatter with the top surface sloped downhill at minimum of 0.5% and a maximum of 5%; should not exceed 20 feet in height; and no one stockpile should exceed 5,000 cubic yards. Adjacent stockpiles should not be located closer than 50-feet to each other.</li> <li>4. All stockpiles regardless of time of year shall have silt fence installed immediately around the perimeter at the toe of slope. This silt fence shall be maintained until stockpile is removed.</li> <li>5. Between April 15th and October 15th stockpiles remaining inactive for longer than one (1) week shall be covered with plastic or otherwise protected to control dust.</li> <li>6. Between October 15th and April 15th (rainy season) stockpiles shall be stripped of plastic coverings and appropriate Best Management Practices that reduce erosion potential and stabilize the slopes (i.e., hydro-seeding, straw, straw wattles etc.) shall be implemented.</li> <li>7. Once a stockpile is removed the area below shall be returned to the original contours or final project finished grades with established vegetation.</li> </ol> <p><b>PAVEMENT RESTORATION:</b> Trench restoration shall be completed in accordance with County R-1, R-3 and/or R-3a standard drawings.</p> <p>Pavement restoration shall be completed in accordance with County R-1, R-2, R-2a and/or R-4 standard drawings.</p>

INSPECTIONS		
<p>Click on the printer to print this list of inspections and the results: </p>		
STATUS	INSP ID	DESCRIPTION
	10	Site Inspection

GENERAL INFORMATION

<b>Permit Type:</b> GENERAL - NO CHARGE	<b>Status:</b> PENDING
Issued By: PHILLIP BETTENCOURT	General Location: Pismo Ave, Los Osos
Community: Los Osos	To Pending: 04/14/2026
Road Num: Pismo Ave - M3035	Issued:
WO Number: 245R12C104UT	Expires: 07/13/2026
Inspector: Nate Gardner 805-305-1516	Insp Complete:
BP Number: <input type="checkbox"/> MS 4 AREA?	Final:
STND DRW:	Void:
Charge Number: 245R12C104NC <input type="checkbox"/> C&I? If 'Yes', check box	Online: ONLINE_ENC
Receipt Number:	Date Paid:
	Bond Release Date:

**Work Desc:** Construction of monitoring well(s) to be completed by the selected drilling contractor (details below). Application on behalf of LOCSD/ LO Basin Management Committee.

- Drilling site: Corner of Pismo Avenue (unpaved - no traffic) and 5th Street (paved - traffic) in Los Osos, California.
- GPS Coordinates: Sweet Springs 1 (west): N 35.322619; W -120.837428, Sweet Springs 2 (east): N 35.322619; W -120.837351
- Conductor Casing: 10-inch SDR-21 PVC blank casing cemented in 18-inch nominal diameter borehole to 50 feet depth (Sweet Springs 1 and 2).
- Final borehole size: Sweet Springs 1 (west): 500 feet, 9-inch nominal diameter, Sweet Springs 2 (east): 380 feet, 9-inch nominal diameter.
- Geophysics: Sweet Springs 1 only: Spontaneous potential, long and short normal, Laterolog 3, natural gamma ray, sonic. No geophysics at Sweet Springs 2.
- Total well depth: Sweet Springs 1 (west): 490 feet, Sweet Springs 2 (east): 370 feet
- Sweet Springs 1: Wellhead to 440 feet: 2.5-inch diameter, Sch 80 PVC blank casing. 440 to 480 feet: 2.5-inch diameter, Sch 80 PVC, 0.020-inch slots. 480 to 490 feet: 2.5-inch diameter, Sch 80 PVC blank casing

1. Utility work in accordance with County Public Improvement Standards.
2. Construct two groundwater monitoring wells.
3. Construct wells per design details developed by Cleath-Harris Geologists.
4. The noticing requirement is 100' for occupants and 300' for owners.
5. MSS pre-con survey and this will be carried out by the CSD construction personnel with training by biologist previously approved to perform such activities for the Project. Results will be submitted to the County prior to initiation of construction.
6. Pavement / shoulder restoration in accordance with County Public Improvements Standards
7. Mandatory preconstruction meeting with County Public Works Inspector (805) 305-1516
8. Traffic control in accordance with permit conditions and per MUTCD standards.
9. Environmental clearances required from the Department of Public Works and Planning and Building Department prior to ENC permit issuance.

Los Osos Community Services District  
Attn: Ron Munds  
2122 9th Street  
Los Osos, CA 93402



June 1, 2026

**Subject:** *Visual Biological Survey of the Sweet Springs Monitoring Well Project (ENC20260256), Los Osos, San Luis Obispo County, California*

Ecological Assets Management LLC, a [San Luis Obispo County Qualified Environmental Consultant](#), conducted a site visit to the undeveloped proposed work area located between 5<sup>th</sup> and 6<sup>th</sup> Street on an undeveloped section of Pismo Avenue in Los Osos to conduct a Visual Biological Survey (VBS).

The purpose of the VBS is to determine if the covered and other species identified within the Los Habitat Conservation Plan (LOHCP) could be present within the identified disturbance area. These species are identified within [Tables 5-2 and 5-3 of the LOHCP](#) and include the following species: Morro shoulderband snail (*Helminthoglypta walkeriana*), Morro Bay kangaroo rat, Indian knob Mountain balm (*Eriodictyon altissimum*), Morro manzanita (*Arctostaphylos morroensis*), California seablite (*Suaeda californica*), salt marsh bird's beak (*Cordylanthus maritimus ssp. maritimus*), marsh sandwort (*Arenaria paludicola*), South-Central California Coast Steelhead (*Oncorhynchus mykiss irideus*), California red-legged frog (*Rana draytonii*), California black rail (*Laterallus jamaicensis coturniculus*), golden eagle (*Aquila chrysaetos*), and, white-tailed kite (*Elanus leucurus*).

The area of disturbance (i.e. work area) assessed in this VBS is located within an undeveloped section of Pismo Avenue between 5<sup>th</sup> and 6<sup>th</sup> Streets (refer to attached figure). During the May 29, 2026, site visit the area of disturbance was observed to be dominated by areas unvegetated sand, vehicle parking areas, pedestrian trails, and areas of dense veldt grass and ice plant mats (refer to attached photos). No native habitats were present within or adjacent to the proposed area of disturbance.

None of the species listed above were observed during the VBS. In addition, no native habitats suitable for any of the species identified in Tables 5-2 or 5-3 of the LOHCP is present within the proposed area of disturbance. However, there is a low potential for Morro shoulderband snail to be present within the non-native vegetation (i.e. ice plant and veldt grass) observed within the disturbance area. The survey area is surrounded by dense residential development to the south and four (4) undeveloped parcels to the north, but no native habitats suitable for any of the species identified in Tables 5-2 or 5-3 are present on any of the immediately adjacent parcels.

Based on the observed conditions and absence of suitable native habitats, impacts to most of the species identified within Tables 5-2 or 5-3 of the LOHCP are not expected to occur. There is only low potential for Morro shoulderband snail to be present within the proposed area of disturbance.

If you have any questions regarding the information presented in this VBS, please contact me at 805.440.6137 or e-mail at [dwayne@ecologicalmgmt.com](mailto:dwayne@ecologicalmgmt.com).

Sincerely,

A handwritten signature in black ink that reads "Dwayne Oberhoff". The signature is written in a cursive, flowing style.

Dwayne Oberhoff  
Senior Project Biologist

Attachments:

- Area of Disturbance/Work Area Figure
- Site Photos

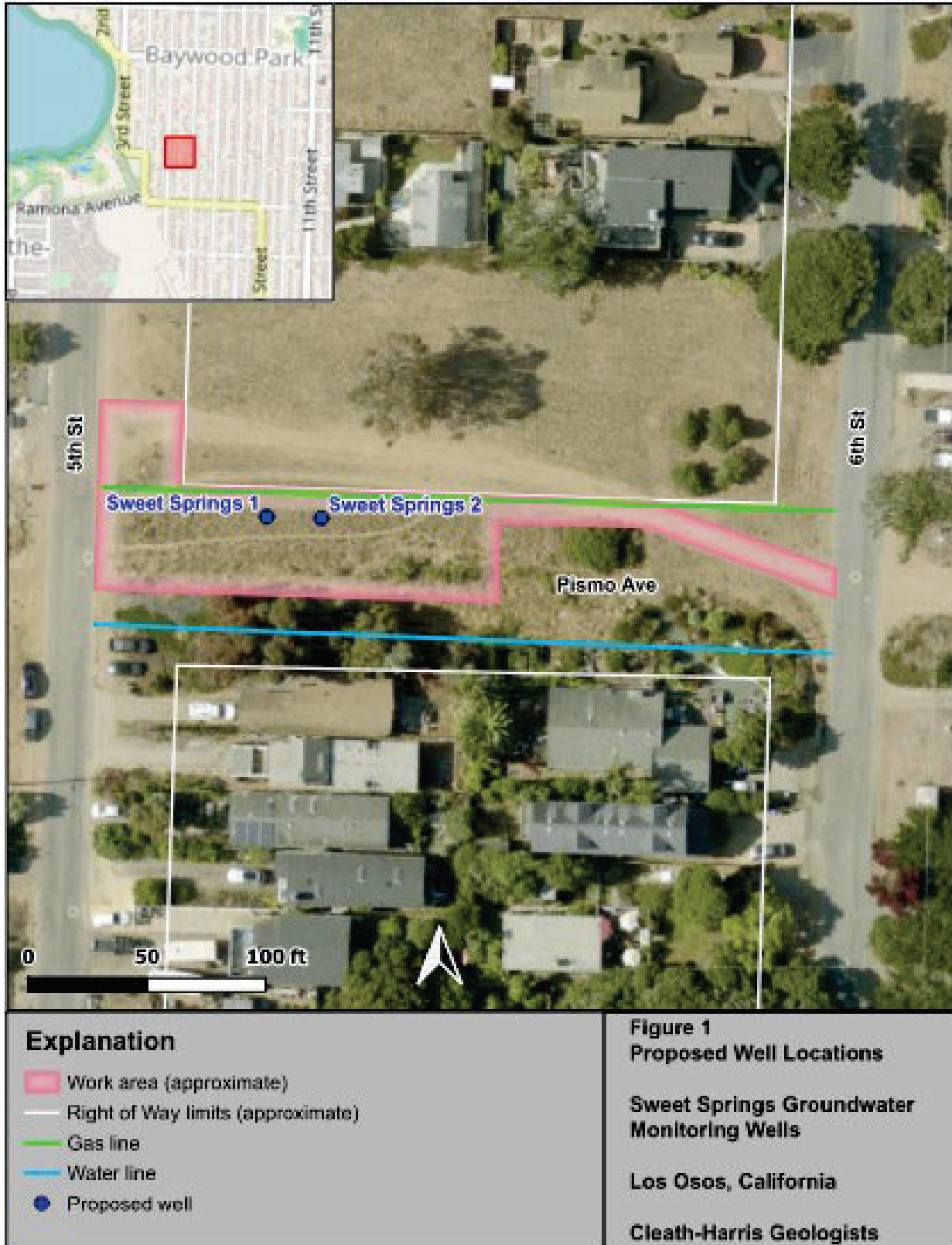




Photo 1: Photo viewing east from 5<sup>th</sup> Street through proposed disturbance area. Photo taken May 29, 2026.



Photo 2: Photo viewing west from 6<sup>th</sup> Street south through proposed disturbance area. Photo taken May 29, 2026.



Photo 3: Photo viewing west from center of block between 5<sup>th</sup> and 6<sup>th</sup> Street through proposed disturbance area. Photo taken May 29, 2026.



Photo 4: Photo viewing east across 5<sup>th</sup> Street to the northern segment of the proposed disturbance area located along the shoulder of 5<sup>th</sup> Street. Photo taken May 29, 2026.



COUNTY OF SAN LUIS OBISPO  
 DEPARTMENT OF PLANNING & BUILDING  
**INVOICE (INV2026-03890)**  
**AS OF 06/12/2026**

**BILL TO:** Los Osos Community Services District  
 2122 9th ST 110  
 Los Osos, CA 93402

**INVOICE DATE:** 6/5/2026  
**INVOICE DUE DATE:** 6/5/2026

CASE #	CONTACT	FEE NAME	PAYMENT DATE	FEE AMOUNT	PAID	DUE
		LOHCP Habitat Protection Fee -1	6/5/2026	\$1,920.00	\$1,920.00	\$0.00
		LOHCP Restoration/Management/Administration -1	6/5/2026	\$14,160.00	\$14,160.00	\$0.00
-				<b>\$16,080.00</b>	<b>\$16,080.00</b>	<b>\$0.00</b>
			<b>SUB TOTAL</b>	<b>\$16,080.00</b>	<b>\$16,080.00</b>	<b>\$0.00</b>
			<b>INVOICE TOTAL</b>	<b>\$16,080.00</b>	<b>\$16,080.00</b>	<b>\$0.00</b>

These fees may be adjusted. This statement does not reflect all fees assessed by other agencies or departments. Additional fees may be invoiced at a later date due to applicable laws. Copies of outside consultant invoices are available online in PermitSLO to registered contacts.

**Please note for all Planning and Building applications, after 15 days of non-payment of invoice, the application will be void and resubmittal will be required.**

PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

- 1.1 This Section describes the methods of measurement and payment for the specific bid items. All other provisions of the Contract Documents which relate to measurement and payment are applicable, except that where conflicts occur between this section and other provisions of the technical specifications or reference specifications, this measurement and payment section shall prevail.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 GENERAL

- A. All work shown, described, or otherwise required by the Contract Documents, shall be included within the given bid items.
- B. Payment for all bid items shall include full compensation for all equipment, materials, labor, tools, trucking, and all other incidental work necessary to construct complete and operational systems which conform to the Contract Documents.

3.2 MEASUREMENT AND PAYMENT FOR BID ITEMS

- A. All lengths shall be measured in a horizontal plane (plan view dimensions), unless otherwise specified. All areas measured shall be based on the specified measurement definition included in each bid item description.
- B. All work shown, described, or otherwise required by the Contract Documents, shall be included within the given bid items.
- C. Basis for the submitted bid shall be on the quantities shown for the items on the Bid Sheet.
- D. Unit definitions of Measurement and Payment
1. "Lump Sum", or "LS", shall mean a single Lump Sum Payment for the identified bid item. Partial payments may be made, based on the Engineer's estimate of the percent completion of the specified item.
  2. "Each" shall mean the actual number of identified bid items provided. Payment for the identified bid item will be based on providing each item, complete and in place in accordance with the contract documents.
  3. Measurable units of quantity expressed in "Linear Feet" or "LF"; "Cubic Yard or CY"; "Ton"; shall mean the number of indicated measurable quantities of the bid item. Payment for the identified bid item will be based on actual and measured quantities of the bid item installed.

E. Final Pay Quantities.

1. Bid items that are designated a Final Pay Quantity bid item by having the notation (F) or (S-F) shown on the bid sheet or by designation in this Section 01 20 00, Measurement and Payment.
2. The quantity shown on the bid sheet for a Final Pay Quantity shall be the final pay quantity used for the purpose of payments, unless the dimensions of any portion of the item are modified by the Engineer, or the item or any portion of the item is eliminated.
3. If the dimensions of any portion of a Final Pay Quantity bid item are changed, and the changes result in an increase or decrease in the quantity of the item, the final pay quantity will be revised by the change in quantity.
4. If a portion of a Final Pay Quantity item, or the item is eliminated, the final pay quantity will be adjusted by the quantity eliminated.
5. The estimated quantity shown on the bid sheet for a Final Pay Quantity bid item shall be considered as an estimate only and no guarantee is made that a quantity computed based on the details and the plans, will equal the estimated quantity shown on the bid sheet. No allowance is made in the event that a computed quantity does not equal the estimate quantity.
6. In the case of a discrepancy between a quantity shown on the plans, and an estimated quantity shown on the bid sheet for a Final Pay Quantity item, payment will be based on the quantity shown on the bid sheet.

**Bid Item No. 1 – Mobilization/Demobilization**

- A. Units: Lump Sum
- B. Measurement: Partial payments based on Engineer's determination, and per Item C of this Pay Item.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for mobilization/demobilization.
  1. No payment for mobilization/demobilization work will be made until all the listed items have been completed to the satisfaction of the Owner.
  2. Intermediate partial payments based on Engineer's determination, and total value approved for payment shall not exceed actual percent complete of Contract Work.
  3. Up to 50% of this item will be compensated for when the well construction permit is issued.
- D. Scope of bid item: mobilization/demobilization includes, but is not limited to the following:
  1. Obtaining all required bonds and insurance.
  2. Posting all OSHA required notices and establishment of safety programs and injury and illness prevention plan (IIPP).
  3. Obtaining well permits, complying with County encroachment Permit requirements, and compliance with such permit conditions.
  4. Moving onto the site of all Contractors' equipment required for project operations.
  5. Arranging for and erection of Contractor's work and storage yard.
  6. Providing and installing temporary utilities, communication facilities.

7. Providing and installing construction water facilities.
8. Providing on-site sanitary facilities.
9. Designation of the Contractor's superintendent who will be present at the job site during drilling and development/installation operations.
10. Submittal of work plan describing the order of Work to ensure proper installation and testing of work, coordination with Owner's staff, local agency coordination, scheduled down time, and other key aspects of the Work.
11. Preparation of approved traffic control plans.
12. Submittal of the work schedule required in Section 01 32 16, Construction Progress Schedule.
13. Documenting construction progress, including pre- and post-construction photographs, and progress photographs.
14. Preparing and submitting field record drawings.
15. USA notifications, and verifying location of existing utilities and improvements.
16. General construction site management as specified in Section 01 57 19, Construction Site Management.
17. Control of surface of ground and surface waters, dust control.
18. Removing equipment, personnel, temporary facilities, and other construction resources at job completion.
19. Site cleanup.
20. Temporary services including construction water.
21. Site coordination and access.
22. All other incidental work as specified in Division 01 of the Specifications, and as necessary to complete mobilization/demobilization in accordance with the Contract Documents.

**Bid Item Nos. 2 through 19 – Sweet Springs #1 and #2 Groundwater Monitoring Wells**

- A. Units: Varies, see Bid Schedule
- B. Measurement: Lump sum and per Each items, partial payments based on Engineer's determination. Unit price items, based on measured quantities in the field as confirmed by Project Inspector (see Section 33 24 13).
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Sweet Springs #1 and #2 Groundwater Monitoring Wells.
- D. Scope of bid item: Sweet Springs #1 and #2 Groundwater Monitoring Wells includes, but is not limited to the following:
  1. All work defined in Section 33 24 13, and as shown on the drawings and specifications, for the construction of two groundwater monitoring wells.
  2. All other incidental work necessary to complete Sweet Springs #1 and #2 Groundwater Monitoring Wells in accordance with the Contract Documents.

**3.3 TESTING**

- A. The Owner will perform, or will contract for the performance of the following tests. The Owner will pay for the costs of the initial tests. Should test results show that any work, construction, materials, or methods is unacceptable, the Contractor shall pay for all costs associated with any necessary retesting before or after corrective measures have been made. Such costs will be deducted from payments due to the Contractor.

1. None.
- B. The Contractor shall furnish and pay for all labor, materials, tools, and supplies required to make the following performance tests in the presence of the Engineer:
1. Refer to Section 33 24 13.

All tests must be passed, and any test reports requested by the Owner shall be provided to the Owner prior to acceptance of the work.

**END OF SECTION**

ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.1 PROJECT CONTROL

- A. The Owner's Representative will outline and detail communication, correspondence and coordination procedures at the Project pre-construction meeting.
- B. Condition of Work in Place: Inspect and take responsibility for previously prepared or installed work of other contractors before applying subsequent materials or finishes. If work is in unsatisfactory condition, notify the Owner. Do not proceed until defective work has been corrected.
- C. Coordination:
  - 1. Subletting and Subcontracting Responsibilities: Refer to General Conditions of the Contract for Construction, Article 6.
  - 2. Perform and complete checking and coordination before commencing construction in the affected areas.
  - 3. Coordinate the work to assure efficient and orderly sequence of installation of construction elements, and that Work is coordinated with access requirements of the private property owner.
  - 4. Verify that all conditions of the right of entry and encroachment permits have been met, that traffic control plans, if required, have been approved by the County.

1.2 LOCATIONS AND LAYOUT OF WORK

- A. Property/right-of-way lines, location ties and dimensions, and well construction details are shown on the Drawings. Prior to starting the new Well Work, Contractor's Work Plan must be approved by the Project Geologist.
- B. Lay out equipment and materials in the public right of way, only in areas designated and approved by the District and County.

1.3 SCHEDULES AND MEETINGS

- A. Planning and Scheduling: Provide a project schedule as outlined herein.
- B. Provide input to develop and update project schedule including realistic activity sequences and durations, allocation of labor and materials, processing of shop drawings, and samples and purchase and delivery of products requiring long lead-time procurement. This schedule will be broken down into activities of 1week maximum duration, with the exception of procurement. Each activity shall be explicit in definition and location of work. The schedule shall be updated 1) once per month, 2) whenever work is behind schedule to an extent greater than 14 days, and 3) to add change order work which impacts schedule.
- C. Project Meetings: Contractor or his duly appointed representative shall attend project meetings at periodic intervals when requested by the Owner. Attendance shall be

limited to the Contractor and his immediate subordinates, subcontractors where so specified, the Owner, and representatives of the Engineer and Consultants, County of San Luis Obispo, as requested. Owner, or Owner's duly appointed representative, will keep minutes of meetings; with copies sent to all who attend. Meetings shall be held at the job site.

1.4 SCHEDULE OF VALUES - NOT USED

**END OF SECTION**

CONSTRUCTION PROGRESS SCHEDULE

PART 1 GENERAL

1.1 DESCRIPTION

This Section covers the specific requirements for the Construction Progress Schedule.

- A. Work Included in This Section. Principal items are:
  - 1. Simple bar chart schedule, with key tasks listed.

1.2 SUBMITTALS

In accordance with Section 01 33 00, Submittal Procedures, provide the following:

- A. Provide a PDF of schedule along with Work Plan (see below) for the Owner's review.
- B. Within 7 calendar days following notice to proceed, or at the pre-construction meeting, whichever occurs first, provide a Work Plan for review by Owner and Engineer, that dovetails with the Schedule in Paragraph 1.02A above, and describes how the Work is anticipated to be conducted. The Work Plan shall include, at a minimum, the following:
  - 1. Sequencing and Order of Work
  - 2. Site Security Plan
- C. Narratives:
  - 1. Prepare brief narrative statements of assumptions and conditions which provide supportive information for conclusions represented in the schedule submitted.
  - 2. Indicate proposed areas for work and for storage of specific materials, proposed use of equipment, assumptions, and methods which determine durations and sequences represented in specific areas of the schedule. Show Work Zone limits consistent with that shown on the drawings, for protection of the designed wetlands area shown on the map/drawings.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.1 INITIAL SUBMITTAL

- A. See Part 1 General, Submittals, of this Section.

3.2 REVIEW AND APPROVAL

- A. Within 3 working days after receipt of the initial Work Plan, the Owner will meet with the Contractor for joint review, correction or adjustment of the Contractor's proposed approach. Within 3 working days after the joint review, the Contractor shall submit a revised Work Plan as necessary reflecting comments offered during the joint review.

The Owner will review this resubmission, and may accept it as submitted. The accepted Work Plan and schedule will constitute the Contractor's project work schedule until it is subsequently revised by the Contractor.

- B. Acceptance of the Work Plan and schedule is not to be construed as concurrence by Owner that schedule is reasonable or achievable. Any omission of project work from the Work Plan and schedule, otherwise required for Contract compliance, shall not excuse the Contractor from completing such work within any applicable completion date as determined by the Owner.

### 3.3 UPDATE

- A. Bi-weekly or as agreed to, a job-site meeting will be held to review the schedule, work progress, and any on-going project issues.
- B. As part of this review, prepare a brief narrative report or written responses relating to the status of construction, submittals, approvals, and procurement, and issues discussed during the bi-weekly meetings. Indicate in the report areas where problems exist and are anticipated and recommend corrective action needed to be taken by the Owner or by the Contractor.

### 3.4 PROGRESS PAYMENT

- A. The Job Progress Report will constitute the basis for monthly payment. Payment will not be made until the Job Progress Report is approved.

### 3.5 PAYMENT FOR SCHEDULING

- A. Include all costs of preparing and updating the Work Plan and schedule as specified herein in the Bid Price for the Contract, paid for under Bid Item No. 1, Mobilization/Demobilization.

END OF SECTION

SECTION 01 33 00  
SUBMITTAL PROCEDURES

PART 1 GENERAL

1.01 DESCRIPTION

This Section covers requirements for submittals in addition to those stated in elsewhere in the Contract Documents, and forms a part of all other Specification Sections in which submittals are specified or required. Refer to the specific Sections and Divisions of the Specifications for additional submittal requirements.

- A. Submittal Requirements Included In This Section.
  - 1. Number of submittal copies required.
  - 2. Bar chart schedule.
  - 3. Shop drawings.
  - 4. Materials lists and equipment data.
  - 5. Record drawings.
  
- B. Submittal Requirements In General Conditions and Other Sections.
  - 1. Applications for payments Section 00700, Article 14.
  - 2. Section 01 70 00, Execution and Closeout Requirements
  - 3. Written guarantees and warranties.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 SUBMITTAL - GENERAL REQUIREMENTS

All items required to be submitted for review shall be furnished by and at the expense of the Contractor and any work affected by them shall not proceed without such review. Except for record documents, test plans, and instructional manuals for operation and maintenance, submittal shall be approved before the material or equipment covered by the submittal is delivered to the site.

- A. Number of Submittals.
  - 1. General. Unless otherwise specified, all submittals shall be in electronic PDF format.
  
- B. Method of Submittal. Equipment which is specified in one section of the Specifications shall not be combined in a single submittal with equipment specified in other Sections of the Specifications, unless unit responsibility for a package system is required. In each transmittal the Contractor shall state the Owner's Project Number and Name,

Name and Address of Contractor, Name and Address of Subcontractor, Manufacturer, Supplier or Distributor as applicable, Plan Reference and Specification Section, Articles, and paragraphs to which the submittal pertains; accompanying data sheets, catalogs, and brochures shall be identified in the same manner. Submittal transmittals shall fully index all items submitted.

- C. Piecemeal Submittals. Except for reinforcing steel submittals, piecemeal submittals will be returned unreviewed. However, for mechanical equipment and the like, separate submittals for embedded items, embedded metal work and anchors will be accepted for review.
- D. Number of Submittal Re-Reviews. The Owner will provide required submittal/re-submittal review up to three occurrences per submittal. Contractor shall reimburse the Owner the cost of Owner's, Owner's Representative's, and Engineer's time required for all subsequent reviews beyond three reviews. Such costs for excessive review of incomplete or non-conforming submittals shall be deducted from Contractor's monthly pay requests at the time such charges are incurred.
- E. Engineer's Submittal Review Schedule. Engineer will review and return submittals within 5 working days from date of receipt from Owner's Representative. Engineer will review and return re-submittals within 3 working days from the date of receipt from Owner's Representative.

### 3.02 PROGRESS SCHEDULE (SEE SECTION 01 32 16)

### 3.03 SHOP DRAWINGS (NOT USED)

### 3.04 FORM OF APPROVAL

- A. Copies of submittals which are returned to the Contractor and which are subject to approval will be marked with notations A, B, B-R, C, D, or E, in which case the action so indicated shall be taken by the Contractor. These notations are defined as follows:
  - 1. A: No Exceptions Noted (Resubmittal Not Required): Accepted subject to its compatibility with future submissions and additional partial submissions for portions of the work not covered in this submission. Does not constitute approval or deletion of specified or required items not shown in the partial submission.
  - 2. B: Make Corrections Noted (Resubmittal Not Required): Same as A, except that minor corrections as noted shall be made by the Contractor.
  - 3. B –R: Make Corrections Noted (Resubmit for Record Purposes): Same as B, except that resubmittal is required.
  - 4. C: Amend and Resubmit: Rejected because of major inconsistencies or error which shall be resolved or corrected by the Contractor prior to subsequent review by the Design Consultant.
  - 5. D: Not Acceptable (Resubmit): Submitted material does not conform to Drawings and Specifications in major respect, i.e., wrong size, model, capacity, or material.
  - 6. E: Received for Record Purposes Only: Applies to submittals which are required but not reviewed, such as shoring submittals.
- B. Returned copies of drawings marked with either notation A, B, or B-R authorize the Contractor to proceed with the fabrication, installation or construction, or any

combination thereof, covered by such returned drawings, provided, that such fabrication, installation or construction shall be subject to the comments, if any, shown on such returned copies and to the Contract requirements whether or not specifically referenced. Although fabrication may proceed on a notation B-R, Contractor shall incorporate the comments, resubmit, and obtain notation A before release for shipment can be granted. Failure to satisfactorily address the review comments, shall result in designation of the resulting as being defective.

- C. Returned copies of drawings marked with notation C or D shall be corrected as necessary and revised drawings shall be submitted in the same manner as before.

### 3.05 RECORD DRAWINGS

- A. Refer to Section 01 70 00, Execution and Closeout Requirements.

END OF SECTION

**SECTION 01 35 00**  
**SPECIAL PROJECT PROCEDURES**

**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes:
  - 1. Protection of improvements
  - 2. Utility potholing
  - 3. Existing utilities
  - 4. Protection of existing pavement
  - 5. Protection of existing hardscape
  - 6. Protection of existing trees
  - 7. Excavation notification
  - 8. Construction Photographs
  
- B. Related Sections:
  - 1. Section 01 33 00 - Submittal Procedures

1.2 SUBMITTALS

- A. Potholing Report (not applicable).

**PART 2 - PRODUCTS - NOT USED**

**PART 3 - EXECUTION**

- 3.1 Protect all existing utilities and improvements not designated for removal and restore damaged or temporarily relocated utilities and improvements, immediately, to a condition equal to or better than they were prior to such damage or temporary relocation, all in accordance with requirements of the contract documents.
  
- 3.2 Protect all private and public property from damage due to its activities. If any damage does occur to public or private property as a result of the contractor's operation, the contractor shall be responsible for the repair of the property. See Section 01 11 00, Summary of Work, for additional details on the private property and access agreement.
  
- 3.3 EXISTING UTILITIES, WATER, DRAINAGE
  - A. General: The Contractor shall protect all above ground and underground utility, water, and drainage improvements that may be impaired during construction operations at the Work site. Prior to drilling, notify USAAlert (811) for utility markings by local utility owners. Contractor shall review the project site and ascertain based on USA markings, careful subsurface exploration and review of any avail-

able drawings, the presence of underground utilities. Contractor shall be responsible for utility protection, whether utilities are indicated in these contract documents or not.

- B. Right of Access: The right is reserved to the District and County of San Luis Obispo, to enter at any time upon any public street, alley, right-of-way, or easement for the purpose of making changes in their property made necessary by the work of this Contract. Refer to access agreement, Section 01 11 00, Summary of Work.
- C. Approval of Repairs: All repairs to a damaged utility or improvement are subject to inspection and approval by an authorized representative of the utility owner, and County of San Luis Obispo for work in right of way.
- D. Maintaining Service: All pipelines, power, telephone, communication cable, gas, water, sewer, irrigation, and storm drain systems within the work area shall remain continuously in service during all the operations under the Contract, unless specifically shown otherwise in the Contract Documents, or unless other arrangements satisfactory to the Engineer are made (by the Contractor) with the owner of said system.

### 3.4 RESTORATION OF PAVEMENT

- A. General: All paved areas cut or damaged during construction shall be replaced with similar materials and of equal thickness to match the existing adjacent undisturbed areas, except where specific resurfacing requirements have been called for in the Contract Documents.
- B. Pavement repair, if any, shall be in accordance with the San Luis Obispo County Encroachment Permit, at no additional cost to the Owner.
- C. All temporary and permanent pavement shall conform to the requirements of the affected pavement owner. All pavements that are subject to partial removal shall be neatly saw cut in straight lines.
- D. Pavement markers and markings: The Contractor shall replace all pavement markings, parking stall striping, wheel stops, and markers that are removed or disturbed by construction activities. Pavement markings and markers shall be in accordance with Owner requirements.

### 3.5 EXISTING HARDSCAPE AND DIRT AREAS

- A. General: All concrete or other hardscape areas cut or damaged during construction shall be replaced with similar materials and of equal material and quality to match the existing adjacent undisturbed areas, except where specific resurfacing requirements have been called for in the Contract Documents. All such repairs and replacements shall conform to the requirements of the affected hardscape owner.

- B. Partial removal: All concrete that is subject to partial removal shall be neatly saw cut in straight lines. The saw cut lines shall be extended to align with existing score lines or similar feature so as to provide a uniform appearance.
- C. Restore all dirt areas to original condition or better. Re-vegetation shall not be required so long as disturbed surface area is limited to drill rig and immediate area around the well and borehole. Document pre-construction conditions as required in this Specification. Should extensive disturbance of the Site be caused by the Contractor, site surface restoration including hydroseeding and/or re-vegetation shall be required, at no additional cost to Owner.

### 3.6 EXCAVATION NOTIFICATION

- A. Notify Prior to Excavation: Prior to any excavation the Contractor shall notify the respective authorities representing the owners or agencies responsible for such facilities not less than 3 days nor more than 7 days prior to excavation so that a representative of said owners or agencies can be present during such work if they so desire.
- B. Call USA: The Contractor shall also notify Underground Service Alert (USA) at **811** at least 2 working days, but no more than 14 calendar days, prior to such excavation. If a utility owner is not equipped to locate its utility, the Contractor shall locate it.

### 3.7 CONSTRUCTION PHOTOGRAPHS

- A. Provide pre-construction, construction progress, and post-construction photographs as part of the Work. Photographs shall be taken with a minimum 5 megapixel digital camera, and all photos shall be provided to Owner on thumb drive, or transmitted electronically via email. Photos shall be arranged in folders by date taken and clearly identified by location of Work. Provide further cataloging of photographs as required to clearly identify subject matter, if not self-evident on the photograph (such as utility identification).
- B. Pre-Construction Photographs. Arrange a meeting time with Owner and Engineer, 2 working days prior to taking photographs, to allow Owner and Engineer the opportunity to accompany Contractor on the pre-construction photograph session. Provide pre-construction photographs during this walk-through of the existing project site conditions at locations directed by Owner and Engineer. Submit the pre-construction photographs within 5 working days following the date photographs are taken. Include at a minimum, the following:
  - 1) photographs and documentation of condition of well site, including surrounding improvements, landscaping, pavement, driveways, surface condition/vegetation, power poles and guy wires, utility markings, and other improvements in the immediate area of the Work in public right of way and on private property;
- 1. Post-Construction Photographs. Provide same coverage as required in the pre-construction photographs. Arrange a meeting time with Owner

and Engineer, 2 working days prior to taking photographs, to allow Owner and Engineer the opportunity to accompany Contractor on the post-construction photograph session. Submit final photographs as part of close-out submittals specified in Section 01 70 00.

2. Progress Photographs. Provide photographs of the progress of the Work, to be provided to the Owner throughout progress of the Work. Progress photographs shall be taken at a minimum, on a daily basis. Photographs shall be taken at a minimum:
  - a. Progress during drilling, facilities to contain and haul cuttings, barricades, traffic control, drill rig and other equipment, well development activities, management of development water.
  - b. Staging and construction haul routes.

**END OF SECTION**

TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Furnish and install temporary facilities as hereunder specified, plus other unspecified temporary facilities, including labor, materials, services, utilities, and equipment, as may be required for proper performance of Contract, except as otherwise provided. Temporary facilities shall be approved by the Owner and other authorities having legal jurisdiction. Locate facilities where and as directed, and maintain in safe and sanitary condition at all times until completion of Work.
- B. At completion of work, or sooner when no longer needed, remove all temporary facilities, except where certain facilities are specified to remain or to be relocated for use under future contracts.
- C. All Work required and specified in this Section shall be included in Contractor's price for mobilization, and therefore no separate or additional payment will be made therefore.

1.02 CONSTRUCTION EQUIPMENT

- A. Erect, equip, operate, and maintain construction equipment in strict accordance with applicable statutes, laws, ordinances, rules, and regulations of authorities having jurisdiction.

1.03 SAFETY PRECAUTIONS

- A. Provide and maintain barricades, fencing, and other safety precautions to properly guard against personal injury and property damage as prescribed by the Owner, and to adequately buffer and protect from damage to existing wetland areas. Refer to Section 33 24 13 for temporary fencing requirements.
- B. Maintain such items for duration of Work, and repair, replace, and relocate them as necessary for safe protection.
- C. Provide such additional safety precautions as may be prescribed by the Owner.
- D. Attention is directed to Safety Orders issued by State of California, Division of Industrial Safety. Contractor shall obtain copies of Safety Orders applicable to type of work to be performed, and shall be governed by requirements thereof in construction operations. Also see Supplementary General Conditions Article 6.13.
- E. Fully inform each subcontractor and material supplier as to requirements of applicable Safety Orders.

#### 1.04 ROADS AND ACCESSWAYS

- A. Maintain roads, shoulders, and parking areas in satisfactory condition during Contract time, and repair damages attributable to Work of this Project at intervals as needed. At completion of Contract, roads, parking areas and entrance ways shall be left in condition at least equal to that existing at start of Contract, except as may be otherwise required by Contract documents.
- B. Permanent Improvements: Where Contract calls for permanent sidewalk, road, and other ground improvements, and such permanent improvements are completed, or essentially completed within construction period, Contractor does not have vested right to use such improvements as temporary facilities.
- C. Retain responsibility of permanent improvements pursuant to General Conditions. Use of permanent improvements by Contractor shall be subject to approval by the Owner.

#### 1.05 USE OF OWNER PROPERTY (NOT USED)

#### 1.06 PROTECTION OF EXISTING IMPROVEMENTS

- A. Protection of Trees and Shrubs: Existing trees and shrubs to remain shall not be injured during the course of this work.
  - 1. If any tree or shrub during the course of, or as a result of construction operations is injured to extent of causing its permanent disfigurement or death, Contractor shall pay cost of damages to the Owner for each tree or shrub so injured, amount to be agreed upon by the Owner and Contractor.
  - 2. If any tree or shrub during the course of, or as a result of construction operations is injured to extent of causing its permanent disfigurement or death within the one year guarantee period, it is agreed by the parties to this Contract that actual damage to the Owner will be impossible to determine, and in lieu thereof, Contractor shall pay to Owner as fixed, agreed, and Liquidated Damages, for each tree and each shrub so injured.
- B. Protection of Existing Utilities:
  - 1. Closely coordinate with the Gas Company, District and other utility Owners for the Work to be performed. Prior to commencement of drilling, in addition to the required USA notifications, coordinate with the Gas Company as required for utility notifications and to protect existing gas utilities from damage.
  - 2. Protect from damage, existing utility lines not specified to be altered by Work of this Contract; any such features damaged shall be repaired or replaced to condition equal to that existing prior to commencing work of this Contract. Unless otherwise specified, maintain existing utility service at all times during construction. Utility service lines found entering site and not indicated to remain or to be incorporated in new Work, shall be plugged, capped, or otherwise abandoned by Contractor in manner satisfactory to Utility Companies whose services are involved, except as otherwise required.

#### 1.07 CLEAN UP OF WORK AND DISPOSAL OF TRASH

- A. Attention of Contractor is directed to General Conditions, Article 6.11, and Specification Section 01 70 00. Keep work and storage areas clean and free of rubbish and perform protective and clean up work within one day of being so notified by Owner.

- B. Remove and dispose of trash resulting from work in appropriate receptacles provided by Contractor, and dispose of at an approved facility. Do not use existing nearby trash containers for depositing trash and rubbish.

#### 1.08 DUST ABATEMENT

- A. Use water wagons or spray from hoses to control dust created by outdoor work operations in areas on project property during entire period of this Contract as directed by Owner; also, satisfactorily control dust created by operations on property used, other than project property, to satisfaction of all concerned.

#### 1.09 SANITARY FACILITIES

- A. Toilet Facilities: Provide sufficient suitably enclosed chemical toilets, conforming to ANSI Z4.3., with urinal for workmen.
- B. Drinking Water Facilities: Provide clean, sanitary and adequate drinking water.

#### 1.010 TEMPORARY WATER

- A. Make arrangements for and pay for all water required for construction purposes, through the Los Osos CSD; furnish and install temporary piping or hose to carry water to every part of construction.

#### 1.011 SECURITY

- A. Contractor shall be responsible for security of Work involved in this Project, during entire time of Contract. Make good all damages to work and loss of materials due to vandalism or theft, within this responsibility.
- B. All construction equipment including drill rig, trucks, construction materials shall be fenced or otherwise protected from access by the public at all times.

END OF SECTION

CONSTRUCTION SITE MANAGEMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Construction site management shall consist of controlling potential sources of water pollution before they come in contact with storm water systems or watercourses. The Contractor shall control material pollution and manage waste and non-storm water existing at the construction site by implementing effective handling, storage, use, and disposal practices.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.01 GENERAL

- A. Train all employees and subcontractors regarding:
  - 1. Material pollution prevention and control;
  - 2. Waste management;
  - 3. Non-storm water management;
  - 4. Identifying and handling hazardous substances; and
  - 5. Potential dangers to humans and the environment from spills and leaks or exposure to toxic or hazardous substances. Emphasis shall be placed on spill prevention to adjacent Morro Bay waters.
- B. Training shall take place before starting work on this project. New employees shall receive the complete training before starting work on this project. Hold regular meetings to discuss and reinforce spill prevention and control; material delivery, storage, use, and disposal; waste management; and non-storm water management procedures.
- C. Instructions for material and waste handling, storage, and spill reporting and cleanup shall be posted at all times in an open, conspicuous, and accessible location at the construction site.
- D. Nonhazardous construction site waste and excess material shall be recycled when practical or properly disposed of in an offsite location.
- E. Vehicles and equipment at the construction site shall be inspected by the CM on a frequent, predetermined schedule, and by the operator each day of use. Leaks shall be repaired immediately, or the vehicle or equipment shall be removed from the construction site.

### 3.02 SPILL PREVENTION AND CONTROL

- A. Implement spill and leak prevention procedures when chemicals or hazardous substances are stored. Spills of petroleum products; substances listed under CFR Title 40, Parts 110, 117, and 302; and sanitary and septic waste shall be contained and cleaned up as soon as is safe.
- B. Minor spills involve small quantities of oil, gasoline, paint, or other material that can be controlled by the first responder upon discovery of the spill. Cleanup of minor spills includes:
  - 1. Containing the spread of the spill,
  - 2. Recovering the spilled material using absorption,
  - 3. Cleaning the contaminated area, and
  - 4. Disposing of contaminated material promptly and properly.
- C. Semi-significant spills are those that can be controlled by the first responder with the help of other personnel. Cleanup of semi-significant spills shall be immediate. Cleanup of semi-significant spills includes:
  - 1. Containing the spread of the spill;
  - 2. Recovering the spilled material using absorption if the spill occurs on paved or an impermeable surface;
  - 3. Containing the spill with an earthen dike and digging up contaminated soil for disposal if the spill occurs on dirt;
  - 4. Preventing contaminants from reaching storm drain inlets;
  - 5. Covering the spill with plastic or other material to prevent contaminating runoff if the spill occurs during precipitation; and
  - 6. Disposing of contaminated material promptly and properly.
- D. Significant or hazardous spills are those that cannot be controlled by construction personnel. Notifications of these spills shall be immediate. The following steps shall be taken:
  - 1. Construction personnel shall not attempt to cleanup the spill until qualified staff have arrived;
  - 2. Notify the Engineer and follow up with a written report;
  - 3. Obtain the services of a spills contractor or hazardous material team immediately;
  - 4. Notify the local emergency response team by dialing 911 and county officials at the emergency phone numbers kept on the construction site;
  - 5. Notify the Governor's Office of Emergency Services Warning Center at (805) 852-7550;
  - 6. Notify the National Response Center at (800) 424-8802 regarding spills of Federal reportable quantities in conformance with CFR Title 40, Parts 110, 119, and 302;
  - 7. Notify other agencies as appropriate, including:
    - a. Fire Department,
    - b. Public Works Department,
    - c. Coast Guard,
    - d. Owner Police,
    - e. Department of Toxic Substances,
    - f. California Division of Oil and Gas,
    - g. Cal OSHA,
    - h. Regional Water Quality Control Board.

- E. The Contractor shall oversee and enforce proper spill prevention and control measures. Minor, semi-significant, and significant spills shall be reported to the Project Geologist or District immediately.
- F. Prevent spills from entering storm water runoff before and during cleanup. Spills shall not be buried or washed with water.
- G. Keep material or waste storage areas clean, well organized, and equipped with enough cleanup supplies for the material being stored. Plastic shall be placed under paving equipment when not in use to catch drips.

### 3.03 MATERIAL MANAGEMENT

- A. Material shall be delivered, used, and stored for this contract in a manner that minimizes or prevents discharge of material into the air, storm drain systems, or watercourses.
- B. Implement the practices described in this section when taking delivery of, using, or storing the following materials:
  - 1. Hazardous chemicals including:
    - a. Acids,
    - b. Lime,
    - c. Glues,
    - d. Adhesives,
    - e. Paints,
    - f. Solvents, and
    - g. Curing compounds;
  - 2. Soil stabilizers and binders;
  - 3. Fertilizers;
  - 4. Detergents;
  - 5. Plaster;
  - 6. Petroleum products including:
    - a. Fuel,
    - b. Oil, and
    - c. Grease;
  - 7. Asphalt components and concrete components; and
  - 8. Pesticides and herbicides.
- C. When requested by Engineer or Owner, supply the Material Safety Data Sheets to the for material used or stored. Keep an accurate inventory of material delivered and stored at the construction site.
- D. Employees trained in emergency spill cleanup procedures shall be present when hazardous materials or chemicals are unloaded.
- E. Use recycled or less hazardous products when practical.
- F. Material Storage
  - 1. Store liquids, petroleum products, and substances listed in CFR Title 40, Parts 110, 117, and 302 in containers or drums approved by the United States Environmental Protection Agency, and place them in secondary containment facilities.

2. Secondary containment facilities shall be impervious to the materials stored there for a minimum contact time of 72 hours.
3. Throughout the rainy season secondary containment facilities shall be covered during non-working days and when precipitation is predicted. Secondary containment facilities shall be adequately ventilated.
4. Keep the secondary containment facility free of accumulated rainwater or spills. After precipitation, or in the event of spills or leaks, accumulated liquid shall be collected and placed into drums within 24 hours. These liquids shall be handled as hazardous waste in accordance with the provisions in "Hazardous Waste" of these special provisions, unless testing determines them to be nonhazardous.
5. Incompatible materials, such as chlorine and ammonia, shall not be stored in the same secondary containment facility.
6. Materials shall be stored in the original containers with the original product labels maintained in legible condition. Damaged or illegible labels shall be replaced immediately.
7. The secondary containment facility shall have the capacity to contain precipitation from a 24-hour-long, 25-year storm; and 10 percent of the aggregate volume of all containers, or all of the volume of the largest container within the facility, whichever is greater.
8. Store bagged or boxed material on pallets. Throughout the rainy season, bagged or boxed material shall be protected from wind and rain during non-working days and when precipitation is predicted.
9. Provide sufficient separation between stored containers to allow for spill cleanup or emergency response access. Storage areas shall be kept clean, well organized, and equipped with cleanup supplies appropriate for the materials being stored.
10. Repair or replace perimeter controls, containment structures, covers, and liners as needed. Storage areas shall be inspected before and after precipitation, and at least weekly during other times.

G. Stockpile Management

1. Reduce or eliminate potential air and water pollution from stockpiled material including soil, paving material, or pressure treated wood. Stockpiles shall be located out of floodplains when possible, and at least 50 feet from concentrated flows of storm water, drainage courses, or inlets unless written approval is obtained from the Engineer.
2. Stockpiles shall still be considered active for up to 21 days after discontinuing, adding or removing materials to stockpile.
3. Protect active stockpiles with plastic or geotextile cover, soil stabilization measures, or with linear sediment barrier when precipitation is predicted. Active stockpiles of cold mix asphalt concrete shall be placed on an impervious surface and covered with plastic when precipitation is predicted.
4. Protect inactive soil stockpiles with a plastic or geotextile cover, or with soil stabilization measures at all times during the rainy season. A linear sediment barrier around the perimeter of the stockpile shall also be used. During the non-rainy season soil stockpiles shall be covered and protected with a linear sediment barrier when precipitation is predicted. The Contractor shall control wind erosion during dry weather as provided in Section 10, "Dust Control," of the Standard Specifications.
5. Stockpiles of Portland cement concrete rubble, asphalt concrete (AC), hot mix asphalt (HMA), AC and HMA rubble, aggregate base, or aggregate subbase shall be covered with plastic or geotextile, or protected with a linear sediment

- barrier at all times during the rainy season, and when precipitation is predicted during the non-rainy season.
6. Stockpiles of cold mix asphalt concrete shall be placed on and covered with impermeable material at all times during the rainy season, and when precipitation is predicted during the non-rainy season.
  7. Stockpiles of pressure treated wood shall be covered with impermeable material and placed on pallets at all times during the rainy season, and when precipitation is predicted during the non-rainy season.
  8. Repair or replace linear sediment barriers and covers as needed or as directed by the Engineer to keep them functioning properly. Sediment shall be removed when it accumulates to 1/3 of the linear sediment barrier height.

### 3.04 WASTE MANAGEMENT

#### A. Solid Waste

1. Do not allow litter or debris to accumulate anywhere on the construction site, including storm drain grates, trash racks, and ditch lines. Pick up and remove trash and debris from the construction site at least once a week. The CM will monitor solid waste storage and disposal procedures on the construction site. Provide dumpsters of sufficient size to contain the solid waste generated by the project. Dumpsters shall be emptied when refuse reaches the fill line. Dumpsters shall be watertight. Do not wash out dumpsters on the construction site. Provide additional containers and more frequent pickup during the demolition phase of construction.

#### B. Solid waste includes:

1. Brick,
2. Mortar,
3. Timber,
4. Metal scraps,
5. Sawdust,
6. Pipe,
7. Electrical cuttings,
8. Non-hazardous equipment parts,
9. Styrofoam and other packaging materials,
10. Vegetative material and plant containers from highway planting, and
11. Litter and smoking material, including litter generated randomly by the public.

#### C. Trash receptacles shall be provided and used in the Contractor's yard, field trailers, and locations where workers gather for lunch and breaks.

#### D. Hazardous Waste

1. Implement hazardous waste management practices when waste is generated on the construction site from the following substances:
  - a. Petroleum products,
  - b. Asphalt products,
  - c. Concrete curing compound,
  - d. Pesticides,
  - e. Acids,
  - f. Paints,
  - g. Stains,
  - h. Solvents,
  - i. Wood preservatives,

- j. Roofing tar, and
  - k. Materials classified as hazardous by California Code of Regulations, Title 22, Division 4.5; or listed in CFR Title 40, Parts 110, 117, 261, or 302.
2. Nothing in these special provisions shall relieve the Contractor of the responsibility for compliance with Federal, State, and local laws regarding storage, handling, transportation, and disposal of hazardous wastes.
  3. The CM will oversee and enforce hazardous waste management practices. Production of hazardous materials and hazardous waste on the construction site shall be kept to a minimum. Perimeter controls, containment structures, covers, and liners shall be repaired or replaced when damaged.
  4. Provide a laboratory certified by the California Department of Public Health (CDPH) to sample and test waste when hazardous material levels are unknown to determine safe methods for storage and disposal.
  5. Segregate potentially hazardous waste from nonhazardous waste at the construction site. Hazardous waste shall be handled, stored, and disposed of as required in California Code of Regulations, Title 22, Division 4.5, Section 66262.34; and in CFR Title 49, Parts 261, 262, and 263.
  6. Store hazardous waste in sealed containers constructed and labeled with the contents and date accumulated as required in California Code of Regulations, Title 22, Division 4.5; and in CFR Title 49, Parts 172, 173, 178, and 179. Hazardous waste containers shall be kept in temporary containment facilities conforming to the provisions in "Material Storage" of these special provisions.
  7. There shall be adequate storage volume and containers shall be conveniently located for hazardous waste collection. Containers of hazardous waste shall not be overfilled and hazardous wastes shall not be mixed. Containers of dry waste that are not watertight shall be stored on pallets. Do not allow potentially hazardous waste to accumulate on the ground. Hazardous waste shall be stored away from storm drains, watercourses, moving vehicles, and equipment.
  8. Clean water based or oil based paint from brushes or equipment within a contained area and shall not contaminate soil, watercourses, or storm drain systems. Paints, thinners, solvents, residues, and sludges that cannot be recycled or reused shall be disposed of as hazardous waste. When thoroughly dry, latex paint and paint cans, used brushes, rags, absorbent materials, and drop cloths shall be disposed of as solid waste.
  9. Dispose of hazardous waste within 90 days of being generated. Hazardous waste shall be disposed of by a licensed hazardous waste transporter using uniform hazardous waste manifest forms and taken to a Class I Disposal Site. A copy of the manifest shall be provided to the Engineer.
- E. Contaminated Soil
1. Identify contaminated soil from spills or leaks by noticing discoloration, odors, or differences in soil properties. Soil with evidence of contamination shall be sampled and tested by a laboratory certified by CDPH. If levels of contamination are found to be hazardous, the soil shall be handled and disposed of as hazardous waste.
  2. Prevent the flow of water, including ground water, from mixing with contaminated soil by using one or a combination of the following measures:
    - a. Berms,
    - b. Cofferdams,
    - c. Grout curtains,
    - d. Freeze walls, or
    - e. Concrete seal course.

3. If water mixes with contaminated soil and becomes contaminated, the water shall be sampled and tested by a laboratory certified by the CDPH. If levels of contamination are found to be hazardous, the water shall be handled and disposed of as hazardous waste.
- F. Concrete Waste
1. Implement practices to prevent the discharge of portland cement concrete, AC, or HMA waste into storm drain systems or watercourses.
  2. Portland cement concrete, AC, or HMA waste shall be collected at the following locations and disposed of:
    - a. Where concrete material, including grout, is used;
    - b. Where concrete dust and debris result from demolition;
    - c. Where sawcutting, coring, grinding, grooving, or hydro-concrete demolition of portland cement concrete, AC, or HMA creates a residue or slurry; or
    - d. Where concrete trucks or other concrete-coated equipment is cleaned at the construction site.
- G. Sanitary and Septic Waste
1. Wastewater from sanitary facilities shall not be discharged within the Owner right of way. The CM will inspect sanitary waste storage and monitor disposal procedures at least weekly.
- H. Liquid Waste
1. Do not allow construction site liquid waste, including the following, to enter storm drain systems or watercourses:
    - a. Drilling slurries or fluids,
    - b. Grease-free or oil-free wastewater or rinse water,
    - c. Dredgings,
    - d. Liquid waste running off a surface including wash or rinse water, or
    - e. Other non-storm water liquids not covered by separate permits.
  2. Hold liquid waste in structurally sound, leak proof containers such as:
    - a. Sediment traps,
    - b. Roll-off bins, or
    - c. Portable tanks.
  3. Liquid waste containers shall be of sufficient quantity and volume to prevent spills and leaks. The containers shall be stored at least 50 feet from storm drains, watercourses, moving vehicles, and equipment.
  4. Remove and dispose of deposited solids from sediment traps as provided in "Solid Waste" of these special provisions, unless determined infeasible by the Engineer.
  5. Liquid waste may require testing to determine hazardous material content before disposal.
  6. Drilling fluids and residue shall be disposed of outside the highway right of way. If the Engineer determines that an appropriate location is available, fluids and residue exempt under California Code of Regulations, Title 23, Section 2511(g) may be dried by infiltration and evaporation in a leak proof container. The remaining solid waste may be disposed of as provided in "Solid Waste" of these special provisions.

### 3.05 NON-STORM WATER MANAGEMENT

#### A. Water Control and Conservation

1. Prevent erosion or the discharge of pollutants into storm drain systems or watercourses by managing the water used for construction operations. Obtain the Engineer's approval before washing anything on the construction site with water that could discharge into a storm drain system or watercourse. Discharges shall be reported to the Engineer immediately.
  2. Implement water conservation practices when water is used on the construction site. Irrigation areas shall be inspected and watering schedules shall be adjusted to prevent erosion, excess watering, or runoff. The Contractor shall shut off the water source to broken lines, sprinklers, or valves, and they shall be repaired as soon as possible. When possible, water from waterline flushing shall be reused for landscape irrigation. Paved areas shall be swept and vacuumed, not washed with water.
  3. Construction water runoff, including water from water line repair, shall be directed to areas to infiltrate into the ground and shall not be allowed to enter storm drain systems or watercourses. Spilled water shall not be allowed to escape water truck filling areas. When possible, the Contractor shall direct water from off-site sources around the construction site, or shall minimize contact with the construction site.
- B. **Illegal Connection and Discharge Detection and Reporting**
1. Inspect the construction site and the site perimeter before beginning work for evidence of illegal connections, discharges, or dumping. Subsequently, the construction site and perimeter shall be inspected on a frequent, predetermined schedule.
  2. Immediately notify the Engineer when illegal connections, discharges, or dumping are discovered. Do not take further action unless directed by the Engineer. Unlabeled or unidentifiable material shall be assumed to be hazardous.
  3. Observe the site for the following evidence of illegal connections, discharges, or dumping:
    - a. Debris or trash piles,
    - b. Staining or discoloration on pavement or soils,
    - c. Pungent odors coming from drainage systems,
    - d. Discoloration or oily sheen on water,
    - e. Stains or residue in ditches, channels or drain boxes,
    - f. Abnormal water flow during dry weather,
    - g. Excessive sediment deposits,
    - h. Nonstandard drainage junction structures, or
    - i. Broken concrete or other disturbances near junction structures.
- C. **Vehicle and Equipment Cleaning**
1. Limit vehicle and equipment cleaning or washing on the construction site to that necessary to control vehicle tracking or hazardous waste. Vehicles and equipment shall not be cleaned on the construction site with soap, solvents, or steam until the Engineer has been notified. The resulting waste shall be contained and recycled, or disposed of as provided in "Liquid Waste" or "Hazardous Waste" of these special provisions, whichever is applicable. Do not use diesel to clean vehicles or equipment, and minimize the use of solvents.
  2. Clean or wash vehicles and equipment in a structure equipped with disposal facilities. If using a structure is not possible, vehicles and equipment shall be cleaned or washed in an outside area with the following characteristics:
    - a. Located at least 50 feet from storm drainage systems or watercourses,
    - b. Paved with AC, HMA, or portland cement concrete,

- c. Surrounded by a containment berm, and
    - d. Equipped with a sump to collect and dispose of wash water.
  - 3. When washing vehicles or equipment with water, use as little water as possible. Hoses shall be equipped with a positive shutoff valve.
  - 4. Wash racks shall discharge to a recycle system or to another system approved by the Engineer. Sumps shall be inspected regularly, and liquids and sediments shall be removed as needed.
- D. Vehicle and Equipment Fueling and Maintenance
  - 1. Fuel or perform maintenance on vehicles and equipment off the construction site whenever practical. When fueling or maintenance must be done at the construction site, designate a site, or sites, and obtain approval from the Engineer before using. The fueling or maintenance site shall be protected from storm water, shall be on level ground, and shall be located at least 50 feet from drainage inlets or watercourses. The WPCM shall inspect the fueling or maintenance site regularly. Mobile fueling or maintenance shall be kept to a minimum.
  - 2. Use containment berms or dikes around the fueling and maintenance area. Adequate amounts of absorbent spill cleanup material and spill kits shall be kept in the fueling and maintenance area and on fueling trucks. Spill cleanup material and kits shall be disposed of immediately after use. Drip pans or absorbent pads shall be used during fueling or maintenance unless performed over an impermeable surface.
  - 3. Fueling or maintenance operations shall not be left unattended. Fueling nozzles shall be equipped with an automatic shutoff control. Vapor recovery fueling nozzles shall be used where required by the Air Quality Management District. Nozzles shall be secured upright when not in use. Fuel tanks shall not be topped-off.
  - 4. Recycle or properly dispose of used batteries and tires.
- E. Paving, Sealing, Sawcutting, and Grinding Operations
  - 1. Prevent the following material from entering storm drain systems or water courses:
    - a. Cementitious material,
    - b. Asphaltic material,
    - c. Aggregate or screenings,
    - d. Grinding or sawcutting residue,
    - e. Pavement chunks,
    - f. Shoulder backing.
  - 2. Cover drainage inlets and use linear sediment barriers to protect downhill watercourses until paving, sealing, sawcutting, or grinding operations are completed and excess material has been removed. Drainage inlets and manholes shall be covered during the application of seal coat, tack coat, slurry seal, or fog seal.
  - 3. During the rainy season or when precipitation is predicted, paving, sawcutting, and grinding operations shall be limited to places where runoff can be captured. Seal coat, tack coat, slurry seal, or fog seal operations shall not begin if precipitation is predicted for the application or the curing period. The Contractor shall not excavate material from existing roadways during precipitation.
  - 4. Vacuum up slurry from sawcutting operations immediately after the slurry is produced. Slurry shall not be allowed to run onto lanes open to public traffic or off the pavement.

5. Collect residue from portland cement concrete grinding operations with a vacuum attachment on the grinding machine. The residue shall not be left on the pavement or allowed to flow across the pavement.
  6. Material excavated from existing roadways may be stockpiled as provided in "Stockpile Management" of these special provisions if approved by the Engineer. AC or HMA chunks used in embankment shall be placed above the water table and covered by at least one foot of material.
  7. Substances used to coat asphalt trucks and equipment shall not contain soap, foaming agents, or toxic chemicals.
- F. Thermoplastic Striping and Pavement Markers
1. Thermoplastic striping and preheating equipment shutoff valves shall work properly at all times when on the construction site. Do not preheat, transfer, or load thermoplastic within 50 feet of drainage inlets or watercourses. Do not fill the preheating container to more than 6 inches from the top. Truck beds shall be cleaned daily of scraps or melted thermoplastic.
  2. Do not unload, transfer, or load bituminous material for pavement markers within 50 feet of drainage inlets or watercourses. All pressure shall be released from melting tanks before removing the lid to fill or service. Melting tanks shall not be filled to more than 6 inches from the top.
  3. Collect bituminous material from the roadway after marker removal.
- G. Concrete Curing
1. Do not overspray chemical curing compound. Drift shall be minimized by spraying as close to the concrete as possible. Drainage inlets shall be covered before applying curing compound.
  2. Minimize the use and discharge of water by using wet blankets or similar methods to maintain moisture when curing concrete.
- H. Concrete Finishing
1. Collect and dispose of water and solid waste from high-pressure water blasting. Drainage inlets within 50 feet shall be covered before sandblasting. The nozzle shall be kept as close to the surface of the concrete as possible to minimize drift of dust and blast material. Blast residue may contain hazardous material.
  2. Containment structures for concrete finishing operations shall be inspected for damage before each day of use and before predicted precipitation. Liquid and solid waste shall be removed from the containment structure after each work shift.

END OF SECTION

## SECTION 01 60 00

### PRODUCT REQUIREMENTS

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. This section provides the requirements for product substitution. The procedure for requesting substitution approval applies to products defined in the Contract Documents by reference to one or more of the following:
1. Name of manufacturer
  2. Name of vendor
  3. Trade name
  4. Catalog number
- B. Requests for Substitution - General:
1. Base all bids on materials, equipment, and procedures specified, and as approved by addendum. Refer to Article 6.05.C, Supplementary General Conditions.
  2. Certain types of equipment and kinds of material are described in specifications by means of references to names of manufacturers and vendors, trade names, or catalog numbers. When this method of specifying is used, it is not intended to exclude from consideration other products bearing other manufacturer's or vendor's names, trade names, or catalog numbers, provided said products are capable of accomplishing the same tasks as the products specifically indicated.
  3. Other types of equipment and kinds of material may be acceptable.

##### 1.02 QUALITY ASSURANCE

- A. In making request for substitution or in using an approved product, Contractor represents:
1. He has investigated proposed product, and has determined that it is equal or superior in all respects to that specified, and that it will perform function for which it is intended.
  2. He will provide same guarantee for substitute item as for product specified.
  3. He will coordinate installation of accepted substitution into work, to include building modifications if necessary, making such changes as may be required for work to be complete in all respects.
  4. He waives all claims for additional costs related to substitution which subsequently arise.

##### 1.03 DEFINITIONS

- A. Product: Manufactured material or equipment.

#### 1.04 PROCEDURE FOR REQUESTING SUBSTITUTION

- A. Considered after award of Contract, or by addenda during bidding. See Paragraph 1.01.B of this Section.
- B. Written requests may be made by the Contractor only.
- C. Transmittal Mechanics:
  - 1. Follow the transmittal mechanics prescribed for shop drawings in Section 01 33 00, Submittal Procedures. Describe the deviation and justifications on the transmittal form. Include in the transmittal letter, either directly or as a clearly marked attachment, the items listed in paragraph D below.
- D. Transmittal Contents:
  - 1. Product identification:
    - a. Manufacturer's name.
    - b. Telephone number and representative contact name.
    - c. Specification section or drawing reference of originally specified product, including discrete name or tag number assigned to original product in the Contract Documents.
  - 2. Manufacturer's literature clearly marked to show compliance of proposed product with Contract Documents.
  - 3. Itemized comparison of original and proposed product addressing product characteristics including but not necessarily limited to:
    - a. Size.
    - b. Composition or materials of construction.
    - c. Weight.
    - d. Electrical or mechanical requirements.
  - 4. Product experience:
    - a. Location of past projects utilizing product.
    - b. Name and telephone number of persons associated with referenced projects knowledgeable concerning proposed product.
    - c. Available field data and reports associated with proposed product.
  - 5. Data relating to changes in construction schedule.
  - 6. Data relating to changes in cost.
  - 7. Samples:
    - a. At request of Engineer.
    - b. Full size if requested by Engineer.
    - c. Held until substantial completion.
    - d. Engineer not responsible for loss or damage to samples.

## 1.05 APPROVAL OR REJECTION

- A. Written approval or rejection of substitution given by the Engineer.
- B. Engineer reserves the right to require proposed product to comply with color and pattern of specified product if necessary to secure design intent.
- C. In event substitution results in a change of Contract price or time, provisions in Special Provisions-General Conditions will be applied for adjustment.
- D. Substitutions will be rejected if:
  - 1. Submittal is not through the Contractor with Contractor's approval.
  - 2. Requests are not made in accordance with this Section.
  - 3. In the Engineer's opinion, acceptance will require substantial revision of the original design.
  - 4. In the Engineer's opinion, substitution is not equal to original product specified or will not perform adequately the function for which it was intended.

## PART 2 PRODUCTS

Not Used.

## PART 3 EXECUTION

Not Used.

**END OF SECTION**

## SECTION 01 70 00

### EXECUTION AND CLOSEOUT REQUIREMENTS

#### PART 1 GENERAL

##### 1.01 REQUIREMENTS INCLUDED

- A. Closeout Procedures.
- B. Project Record Documents.
- C. Guaranties, Warranties and Bonds.

##### 1.02 CLOSEOUT PROCEDURES

- A. Comply with procedures in this Section, and the General Conditions for inspection and acceptance of the Work, payment and retention procedures.
- B. When Contractor considers Work has reached substantial completion, submit written certification that Work is ready for inspection.

##### 1.03 INSPECTION PROCEDURES

When the Work is in the opinion of the Contractor, substantially complete, the Contractor shall call for a punch list inspection.

- A. Inspection Procedures: On receipt of a written request for inspection, the Owner Representative will schedule the inspection. If in the judgment of the Owner's Representatives the project is not substantially complete, the Owner Representative will so advise the Contractor and discontinue the inspection.
  - 1. The Owner's Representative will repeat inspection when requested and assured that the Work has been completed.
  - 2. Results of the completed inspection will form the basis of requirements for final acceptance of the Work.
- B. Final cleaning shall be completed prior to Owner's inspection and acceptance.

##### 1.04 PROJECT RECORD DOCUMENTS ("AS-BUILTS")

- A. Maintain, on current basis, record drawings showing "as-built" conditions of project; subject to review by Owner Representative/Project Geologist. Monthly pay estimates will not be processed without review and approval of record drawings by the Owner. Written confirmation that the as-builts have been properly updated shall be submitted with each pay application request. Final Acceptance of Work will not take place until record drawings are turned over to the Owner's Representative.
- B. Store Project record documents separate from those used for construction. Protect from deterioration and loss in a secure, fire-resistive location; provide access to the

Owner's Representatives during normal working hours. In the event of loss of recorded data, use means necessary to again secure the data to the Owner's acceptance; such means shall include, if necessary in the opinion of the Owner, removal and replacement of concealing materials and in such case, replacements shall be to the standards originally specified.

- C. Before commencing backfilling of utilities or any other underground pipes, ducts, conduits, or structures, take photographs showing relationship of below ground utilities to structure(s) or other physical reference point. Photos are to be in compliance with Section 01 35 00, Special Project Procedures, categorized by locations and indicating utilities and progress of Work, as specified. Provide photo(s) of all connections, crossings, stubs, or other critical points. If the Contractor neglects to take such photographs, Contractor shall uncover, at the Contractor's expense, the area(s) so neglected in order to provide the requisite photos.
- D. Record Drawings: Maintain a clean, undamaged bond set of Contract Drawings and Shop Drawings. Mark the set to show the actual installation where the installation varies from the Work as originally shown. Mark whichever drawing is most capable of showing conditions fully and accurately. At time of installation, installed locations of work relating to aboveground and underground utilities, structural, ventilation, plumbing, electrical, and other scopes of work as may be required, shall be recorded on sepia mylar prints by Contractor, and reviewed with Owner's Representative. Timing of entries shall be within 24 hours after receipt of information. Do not conceal work until required information is recorded.
1. Information entered on prints shall be neat, legible, and emphasized by drawing "clouds" around changed items. Mark record sets with red erasable pencil; use other colors to distinguish between variations in separate categories of the work. Date entries.
  2. Mark new information that is important to the Owner, but was not shown on Contract Drawings or Shop Drawings.
  3. At a minimum, the following information shall be inserted and dimensioned on record documents where applicable:
    - a. The exact horizontal and vertical location of all installations in their finished condition, including all electrical, plumbing and mechanical installations;
    - b. All changes in construction, materials and installed equipment;
    - c. Adequate dimensional data, both horizontal and vertical, to allow location of covered installations;
    - d. The identification of changes authorized by Change Order and the number of that Change Order;
    - e. All Requests for information and the number of that Request for Information;
    - f. All Field Clarifications and the number of that Field Clarification;
    - g. All the Engineer's field change directives and the number of such directive where applicable.
  4. Symbols and designations used in preparing record drawings shall match those used in Contract Drawings.
  5. Locate and dimension work, including stubs for future connections, with reference to permanent landmarks or buildings and indicate approximate depth below finish grade.

6. Organize record drawing sheets into manageable sets, bind with durable paper cover sheets, and print suitable titles, dates and other identification on the cover of each set.
- E. As part of these Closeout Submittals, submit final Well Completion Report as specified in Section 33 24 13/Cleath-Harris Geologist technical specifications.
- F. Prior to final Acceptance of Work, submit Project record documents with transmittal letter containing date, Project title, Contractor's name and address, list of documents and signature of Contractor.

#### 1.05 FINAL ACCEPTANCE

- A. Preliminary Procedures: Before requesting certification of final Acceptance of the Work, complete the following:
  1. Submit a certified copy of the Owner Representative's list of items to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance for final inspection.
- B. Final Inspection: The Owner's Representative will re-inspect the work upon receipt of notice that the work, including inspection list items from earlier inspections, "(punch-list)", has been completed, except items whose completion has been delayed because of circumstances acceptable to the Owner.
  1. Upon completion of final inspection, the Owner's Representative will prepare and submit to the Owner, a certificate of final acceptance, or advise the Contractor of work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance.
  2. If after the inspection, the Owner determines that the Work is complete, the Owner will accept the Work per Article 14, General Conditions.

**END OF SECTION**

SECTION 13 24 13  
GROUNDWATER MONITORING WELL

PART 1 GENERAL

1.1 WORK INCLUDED

- A. This Section covers the work necessary to provide two new groundwater monitoring wells located in Los Osos, CA. The Well technical specifications, prepared by Cleath-Harris Geologists, are included at the end of this Section and all of the requirements contained therein shall be part of these Contract Documents, except as otherwise modified by this Section.
- B. This Work is to provide two new groundwater monitoring wells, in accordance with DWR Bulletin 74-80 and 74-90 and these Technical Specifications.
- C. MODIFICATIONS AND CLARIFICATIONS TO THE WELL TECHNICAL SPECIFICATIONS:
  - 1. Provide submittals on all materials listed and shown in the Well technical specifications, in accordance with Section 01 33 00, Submittal Requirements.
  - 2. Temporary Fencing. Provide temporary site fencing, minimum 4-foot tall heavy duty orange safety fencing, of sufficient length to completely surround Contractor's Work Zone and equipment. Fencing shall be maintained throughout the Project duration, and must be intact at end of each Work day. Contractor may provide more secure temporary fencing if desired, at no additional cost to Owner. Regardless, Contractor shall be responsible for all equipment and materials left on site within the confines of the orange safety fencing.
  - 3. Provide portable sanitary facility for workers, and maintain this facility within the temporary fencing at all times. Fencing shall enclose the entire work area, including drill rig and other equipment, at all times. Do not block access to any private driveways or other facilities in the Work areas, except temporarily as required to position equipment and drill rig in the construction zone.
  - 4. Refer to other Division 01 requirements with regards to permit requirements, and coordination with Utility Companies.

PART 2 PRODUCTS

2.1 PRODUCTS

- A. See Well Technical Specifications.

PART 3 EXECUTION

3.1 GENERAL

- A. See Well Technical Specifications (attached).

- B. Refer to Division 01 technical specifications for coordination, notification and permitting requirements.

END OF SECTION  
(CHG Technical Specifications follow)

**Technical Specifications  
for  
Sweet Springs Groundwater Monitoring Wells**

**Prepared for:**

**Los Osos Basin Management Committee  
and  
Los Osos Community Services District**



**Prepared by:**

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**(805) 543-1413**

**May 2026**



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## 1.0 Introduction

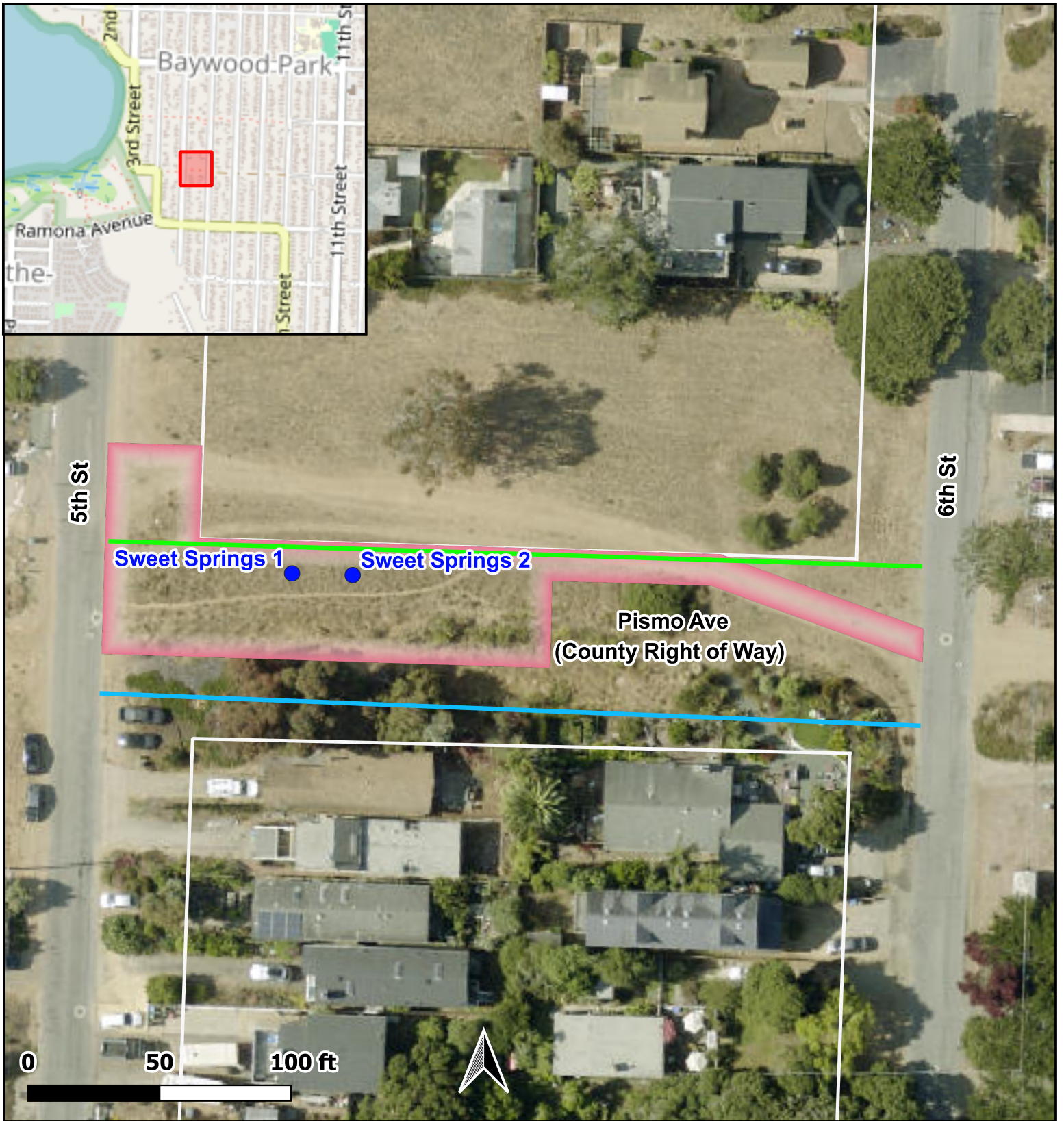
This technical specification applies to the construction and testing of a groundwater monitoring well cluster for the Los Osos Community Services District. The purpose of this specification is to document the level of effort expected from the drilling contractor. This specification does not, through omission, excuse the contractor from complying with any laws, rules and regulations, or standards governing the work being performed.

## 2.0 Scope of Work

The work includes furnishing all labor, materials, transportation, tools, supplies, equipment, and appurtenances necessary for the complete and satisfactory construction, and testing, of the monitoring well cluster. The well site location is shown in Figure 1. Well design construction diagrams for bidding purposes are shown in Figure 2a and 2b. The design and testing parameters are as follows:

### Well Construction Summary

Drilling site:	Corner of Pismo Avenue (unpaved - no traffic) and 5 <sup>th</sup> Street (paved - traffic) in Los Osos, California.
GPS Coordinates:	Sweet Springs 1 (west): N 35.322619; W -120.837428 Sweet Springs 2 (east): N 35.322619; W -120.837351
Conductor Casing:	10-inch SDR-21 PVC blank casing cemented in 18-inch nominal diameter borehole to 50 feet depth (Sweet Springs 1 and 2).
Final borehole size:	Sweet Springs 1 (west): 500 feet, 9-inch nominal diameter Sweet Springs 2 (east): 380 feet, 9-inch nominal diameter
Geophysics:	Sweet Springs 1 only: Spontaneous potential, long and short normal, Laterolog 3, natural gamma ray, sonic. No geophysics at Sweet Springs 2.
Total well depth:	Sweet Springs 1 (west): 490 feet Sweet Springs 2 (east): 370 feet
Sweet Springs 1:	Wellhead to 440 feet: 2.5-inch diameter, Sch 80 PVC blank casing. 440 to 480 feet: 2.5-inch diameter, Sch 80 PVC, 0.020-inch slots. 480 to 490 feet: 2.5-inch diameter, Sch 80 PVC blank casing.



**Explanation**

- Work area (approximate)
- Right of Way limits (approximate)
- Gas line (approximate location)
- Water line (approximate location)
- Proposed well

**Figure 1**

**Proposed Well Locations**

**Sweet Springs Groundwater Monitoring Wells**

**Los Osos, California**

**Cleath-Harris Geologists**

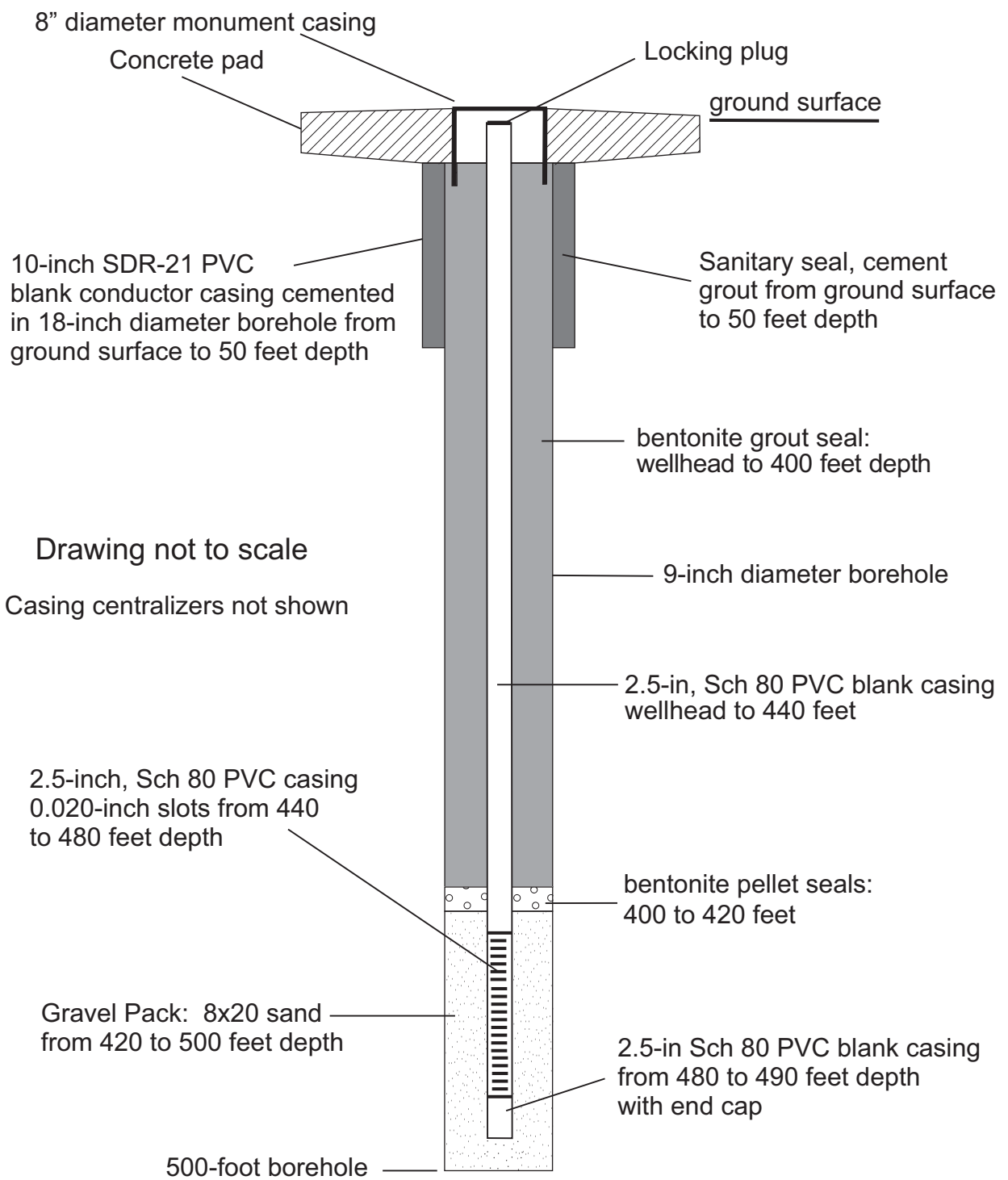


Figure 2a

Preliminary Design  
 Sweet Springs Groundwater  
 Monitoring Well 1  
 Los Osos BMC

Cleath-Harris Geologists

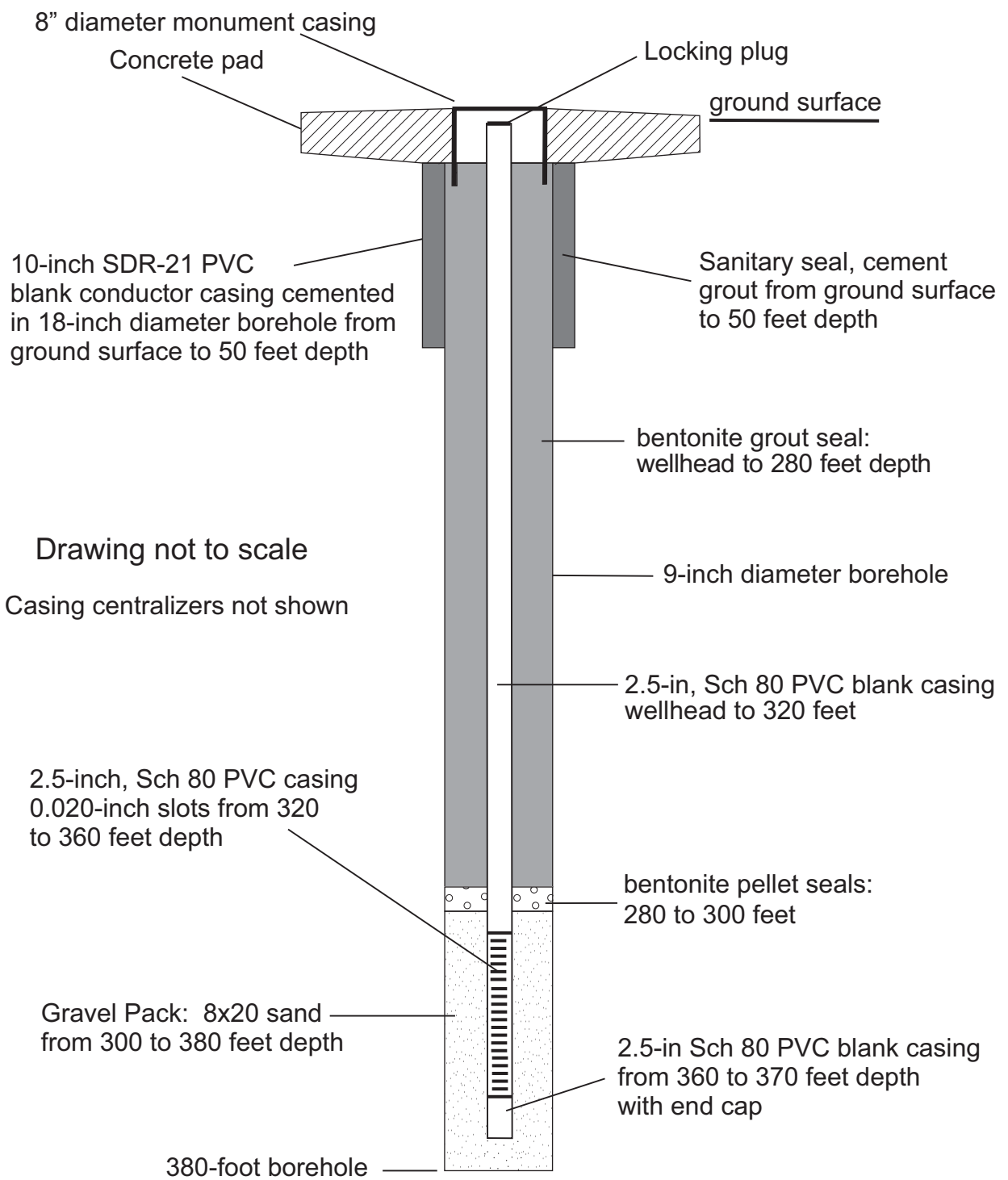


Figure 2b

Preliminary Design  
 Sweet Springs Groundwater  
 Monitoring Well 2  
 Los Osos BMC

Cleath-Harris Geologists



- Sweet Springs 2: Wellhead to 320 feet: 2.5-inch diameter, Sch 80 PVC blank casing.  
320 to 360 feet depth: 2.5-inch diameter, Sch 80 PVC, 0.020-inch slots  
360 to 370 feet: 2.5-inch diameter, Sch 80 PVC blank casing.
- Centralizers: Flexible, stainless-steel centralizers at the top and bottom of screened intervals.
- Gravel pack: 8x20 sand from approved supplier.
- Deep Seals: Sweet Springs 1: Bentonite grout from wellhead to 400 feet depth. Coated time release bentonite pellets from 400 to 420 feet depth.  
  
Sweet Springs 2: Bentonite grout from wellhead to 280 feet depth. Coated time release bentonite pellets from 280 to 300 feet.
- Sanitary Seal: Sweet Springs 1 and 2: Cement grout from wellhead to 50 feet depth (conductor).
- Development: 1 hour air-lift per casing (2 hours total).
- Pumping tests: none
- Development water: Contain development water and percolate on-site.
- Cuttings: Removed from site and disposed by contractor.
- Drilling Mud: Removed from site and disposed by contractor.

### **3.0 Permits, Laws, and Standards**

The contractor is responsible for obtaining a well application permit prior to drilling and for filing a Well Completion Report at the conclusion of the project. The contractor shall comply with all federal, state, or local laws, ordinances, rules and regulations, and standards relating to the performance of work, including the California Water Well Standards (Dept. of Water Resources Bulletins 74-81 and 74-90) and any applicable noise ordinance.

An encroachment permit from San Luis Obispo County will be needed for well construction in county right-of-way. Contractor will obtain the encroachment permit with assistance as needed from District. Contractor will follow applicable provisions of encroachment permit.



## **4.0 Underground Utilities**

The Contractor shall notify Underground Service Alert of Southern California (DigAlert) at least two (2) working days prior to pre-construction meeting for the assignment of a DigAlert ticket number. No excavation shall commence unless the Contractor has obtained a valid DigAlert ticket number. The Contractor shall communicate with the local gas company with regards to the buried gas line that is near the drilling site. No excavation or drilling shall begin unless it has been confirmed by the Contractor that any underground utilities will not be in the way of operations.

## **5.0 Site Access/Make-up Water**

Any improvements necessary for access shall be identified by the contractor during the initial site inspection. The contractor is responsible for ensuring that site access is satisfactory prior to mobilizing equipment on-site. Arranging for, obtaining, and transporting water for drilling shall be the contractor's responsibility.

## **6.0 Conductor Casing/Sanitary Seal**

A conductor casing shall be used to stabilize the upper borehole walls at both Sweet Springs 1 and Sweet Springs 2 as indicated in the Scope of Work. The conductor casing shall be installed to a minimum depth of 50 feet bgs in a nominal 18-inch diameter borehole. The conductor shall be 10-inch diameter SDR 21 PVC. After the conductor has been centered and aligned plumb in the borehole, the annular space shall be filled with cement grout that will also serve as the sanitary seal for the well.

## **7.0 Borehole Drilling**

A borehole shall be drilled to the total depths listed in the Scope of Work. During borehole drilling, the contractor shall keep the following minimum records:

- 7.1 A descriptive log of the formation materials with depths at which each change in materials occurs.
- 7.2 The penetration rate of each drill pipe section, reported in minutes per joint.
- 7.3 Collect representative formation samples in labeled containers at regular 10-foot intervals.
- 7.4 Record the drill bits used (type and size) and any notable events, such as loss of circulation, hole instability, voids, etc.
- 7.5 A mud condition log (Section 8.0).



## 8.0 Mud Program

A mud program is required. Only high-grade products shall be used in the make-up of the drilling fluid. The purpose of the mud program is to prevent formation invasion by drilling fluid, reduce the potential for other downhole problems, and facilitate development. Solids control is very important to limiting water loss and the de-sanding equipment should be capable of handling about 1-1/2 times the anticipated maximum pumping volume, with fines removal down to about 25 microns.

The contractor shall either provide and follow a mud program designed by a qualified Mud Engineer or shall follow the mud program described below. The mud program involves maintaining mud values within specified limits and checking/adjusting mud values at least once every 4 hours during drilling. The program may be modified if necessary, during drilling, however, the reasons for any modification to the program should be noted. Sufficient time for proper monitoring and conditioning of the drilling mud every morning and as needed during drilling should be taken and will be expected. The basic monitoring components of the mud program are as follows:

- 8.1 Drilling fluid pH should be between 8.5-9 units. Adjust make-up water pH with soda ash before adding bentonite. pH strips are acceptable for testing.
- 8.2 Mud weight should be less than 9.0 pounds per gallon. A mud balance is required.
- 8.3 Mud viscosity should generally be between 35-50 seconds. Viscosity should only be as high as needed to clean out hole. A marsh funnel viscometer is required.
- 8.4 Sand content should be less than 2 percent. An Imhoff cone or equivalent is required.

Mud conditioning additives, such as a polymer for shielding formation clays from hydrating, are required. Additives should be mixed per manufacturer instructions, slowly, while circulating after all other mud adjustments are made in the morning. Mud viscosity increases due to additives should be taken into consideration. Drilling mud additives may include National Science Foundation (NSF) certified products such as Aqua-Gel, Quik-Gel, EZ-Mud, Quick-Trol, Drispac, etc. Specific product selection and use are at contractor's discretion and based on actual borehole conditions. All bentonite and mud additive products must be approved by the project inspector.

The basic procedure for daily mud monitoring/adjusting is as follows:

- 8.5 Circulate mud in the morning. If greater volume is needed, add clean water first. Pre-treat make-up water with about 6 ounces of soda ash per 300 gallons.
- 8.6 Check fluid pH. Adjust using soda ash (to increase) or clean water (to decrease).
- 8.7 Check mud viscosity. Add bentonite to increase. Allow for about 10 seconds of increased viscosity for polymer, if used.



- 8.8 Check sand content. If too high, circulate through de-sanding cones and recheck.
- 8.9 Check mud weight. If too high, add clean water and return to step 8.5.
- 8.10 Add polymer last. Polymer should be added very slowly and used sparingly.  
Check final viscosity.
- 8.11 Recheck mud values every 4 hours during drilling. All mud values and product quantities used should be recorded in a log.

## **9.0 Final Design**

The project inspector will determine the final well design following receipt of the e-log and other borehole results from contractor (generally within a few hours of borehole completion). Changes to the well design used for bidding would involve adjustments to total well depth, screened interval, and/or deep seal depths.

## **10.0 Casing Placement**

Well casing installations shall begin as soon as practical following contractor receipt of the final design. All casing material delivered to the site will be new.

The well casings and screens will be placed in the correct position and depth or an alternate acceptable to the project inspector. Casing centralizers will be attached at the required intervals, or as directed by the project inspector. The well casings will be suspended from the top and allowed to hang freely in the borehole at all times during well construction.

## **11.0 Filter Pack Placement**

The filter pack will consist of clean, mostly rounded to sub-rounded silica sand, graded to the specifications listed in the Scope of Work. A recent sieve analysis of the product being used must be provided to the project inspector. The project inspector has the right to reject a filter pack if the sieve analysis is unsatisfactory or not representative of the actual delivered load, if the grains are mostly angular to highly angular, or if the sand has more than a trace of impurities, especially of calcium carbonate (such as shell fragments). The filter pack shall be protected from contamination during storage. If stored on site, the filter pack shall be placed on new plastic sheeting (visqueen) and covered with new plastic sheeting.

Prior to placement of the gravel pack into the annular space, the drilling fluid shall be thinned with clean water. The filter pack shall be placed in the well bore by use of a tremie pipe. The rate of gravel placement shall not exceed 1.5 feet per minute, and placement of gravel shall proceed without interruption until completion.



## **12.0 Deep Seals**

Two types of deep seal will be used to isolate the well casings in each borehole, (1) coated time release bentonite pellets and (2) bentonite grout (slurry). All sealing products must be approved by the project inspector.

Pellets shall be placed through a tremie pipe to the depths specified in the Scope of Work, with depth verification using a tag line. Bentonite grout shall consist of a high-solids bentonite and water mixture specifically designed for borehole seals, with a minimum of 20 percent solids. Conventional drilling clay and water is not acceptable. The grout shall be thoroughly mixed so that no lumps exist, and shall be pumped through a tremie pipe to the sealing depth.

## **13.0 Well Development**

The two monitoring wells will be developed by air lifting. A surge block and bailer can be used, if needed, to assist with development and removing fines from the bottom of the well. Discharge water from well development shall be percolated on site.

## **14.0 Drill Cuttings and Drilling Fluids**

Drill cuttings shall be removed from the site and disposed of at contractor's expense. All drilling fluids must be contained and removed from the site and disposed of at contractor's expense.

## **15.0 Site Security/Traffic Control**

The work area surrounding the drilling rig shall be clearly marked with signage and/or plastic safety netting to prevent unauthorized entry, and the test hole shall be covered to prevent access when contractor is not present on site. Traffic control shall be provided in accordance with any applicable provisions in the encroachment permit.

## **16.0 Monitoring Well Boxes**

The finished wellheads shall consist of the well casings terminated below grade inside an 8-inch diameter traffic-rated well box with concrete pad. The concrete pads shall be a minimum of 4-inches thick and a nominal 3-foot square, with the surface gently sloped to drain away from the manhole cover. The well box shall be placed at the center of the concrete pad. The conductor casing will need to be cut off below grade to accommodate well box and concrete pad installation (see Figure 2a and 2b). Each nested casing will be furnished with a locking plug. The manhole cover shall include the words "monitoring well" and be a water-tight design. Well box and locking plug products must be approved by the project inspector.



## **17.0 Final Inspection**

The project inspector will inspect the site and wellhead prior to releasing the contractor from the job. All trash, extra materials, and drilling fluids generated by the contractor must be off the site, and the wellhead must be properly secured in the well box.