



RESOLUTION No. 17-161

OF THE BOARD OF SUPERVISORS OF THE COUNTY OF NEVADA

APPROVAL OF PLANS AND SPECIFICATIONS, AND AUTHORIZATION TO BID THE MCCOURTNEY ROAD LANDFILL FINAL COVER MAINTENANCE PROJECT

WHEREAS, this project proposes to repair settlement-related sags at 10 locations on the final cover of the Old Landfill Mass (OLM); and

WHEREAS, plans, specifications and cost estimate have been prepared to accomplish this work; and

WHEREAS, funding is available to accomplish this project in the Solid Waste Western fund; and

WHEREAS, construction is scheduled to begin in July 2017.

NOW, THEREFORE, BE IT HEREBY RESOLVED that the Board of Supervisors of Nevada County:

1. Approves the plans, specifications and cost estimate for the McCourtney Road Landfill Final Cover Maintenance Project, authorizes the Chair of the Board of Supervisors to sign the documents and grants the District Engineer/Public Works Director the authorization to incorporate any final changes into the bid documents before advertising for bids.
2. Instructs the Purchasing Division to advertise for bids in accordance with the applicable regulations with the bid opening date to be determined by the Purchasing Agent in the Eric Rood Administrative Center, Providence Room, 950 Maidu Avenue, 2nd Floor, Nevada City, California 95959.

PASSED AND ADOPTED by the Board of Supervisors of the County of Nevada at a regular meeting of said Board, held on the 11th day of April, 2017, by the following vote of said Board:

Ayes: Supervisors Heidi Hall, Edward Scofield, Dan Miller, Hank Weston and Richard Anderson.

Noes: None.

Absent: None.

Abstain: None.

ATTEST:

JULIE PATTERSON HUNTER
Clerk of the Board of Supervisors

BY: 


Hank Weston, Chair

4/11/2017 cc: DPW*
AC*
Purchasing*

COUNTY OF NEVADA

STATE OF CALIFORNIA

BIDDING DOCUMENTS, SPECIFICATIONS
AND CONTRACT DOCUMENTS

FOR

McCOURTNEY ROAD LANDFILL
FINAL COVER MAINTENANCE PROJECT

BID DATE: MAY 18, 2017

MCCOURTNEY ROAD LANDFILL
15741 WOLF MOUNTAIN ROAD, GRASS VALLEY, CA

(Standard Public Works Contract)

TABLE OF CONTENTS

ESTIMATED CONTRACT TIME LINE..... 8

INVITATION TO BID 9

INSTRUCTIONS TO BIDDERS 12

CHECKLIST OF DOCUMENTS ENCLOSED BY BIDDER..... 22

BID FORM 23

BIDDER’S BOND 27

EXPERIENCE STATEMENT 29

SUBCONTRACTOR LISTING 30

BIDDER’S REPRESENTATIONS 31

TECHNICAL SPECIFICIFICATIONS 32

PROJECT PLANS 33

CONTRACT 34

BOND OF FAITHFUL PERFORMANCE..... 36

BOND FOR LABOR AND MATERIAL 37

ARTICLE I: DEFINITIONS 38

 Act of God 38

 Addenda 38

 Application for Payment..... 38

 Calendar Days 38

 Change Order..... 38

 Contract Documents 38

 Contract Price 39

 Contractor 39

 Contractor’s Plant and Equipment 39

 Day 39

 Defective..... 39

 Directed 39

 Director 39

 Drawings..... 39

 Effective Date of the Contract 40

 Engineer..... 40

 Equal..... 40

 Field Order..... 40

 Final Acceptance, Date of..... 40

 Laboratory..... 40

 Lien 40

 Notice of Award 40

 Notice to Proceed..... 40

 Partial Completion..... 40

 Person 40

 Project..... 41

 Schedule of Values 41

 Shall 41

 Shop Drawings 41

 Specifications..... 41

Standard Specifications	41
Subcontractor	41
Substitute	41
Sufficient:	41
Supplementary Conditions.....	41
Underground Facilities	41
Unit Price Work.....	42
Work	42
Working Day	42
ARTICLE II: SCOPE OF WORK	42
ARTICLE III: CONTRACT TIME.....	43
ARTICLE IV: CHANGE OF CONTRACT TIME.....	43
Change by Change Order.....	43
Contract Time May Be Extended	43
Delay and Price Change.....	43
Delays in Completion of the Work.....	43
1. Notice of Delays	43
2. Avoidable Delays.....	44
3. Unavoidable Delays.....	44
Extension of Time	44
1. Avoidable Delays.....	44
2. Unavoidable Delays.....	44
Liquidated Damages	44
ARTICLE V: CONTRACT PRICE.....	45
ARTICLE VI: CHANGE OF CONTRACT PRICE.....	45
Contract Price	45
Change by Change Order.....	45
Determination of Change in Contract Price.....	45
Cost of the Work.....	45
Not Included in Cost of the Work.....	47
Contractor's Fee	47
Cost Breakdown	48
Cash Allowances	48
Unit Price Work.....	48
Final Pay Quantities.....	49
ARTICLE VII: PAYMENTS TO CONTRACTOR	49
Source of Funds	49
Schedule of Values	49
Invoices.....	49
Progress Payment.....	49
Amounts of Progress Payments	50
Contractor's Warranty of Title	50
Payment of Progress Payment	50
County's Recommendation of Payment.....	51
County May Refuse to Make Payment	51
Completion and Final Inspection.....	51
Acceptance and Final Application for Payment	51
Final Payment	52
Delay in Completion Through No Fault of Contractor.....	52

Contractor's Continuing Obligation	52
Waiver of Claims	52
Books of Account and Audit Provision	53
ARTICLE VIII: PRELIMINARY MATTERS	53
Delivery of Certificates of Insurance	53
Delivery of Bonds	53
Pre-construction Conference	53
Delivery of Schedules	53
Finalizing Schedules	54
Before Starting Construction	54
Contractor's Representations	54
ARTICLE IX: CHANGES IN THE WORK	54
County May Order Changes	54
Failure to Agree to a Price or Time Change; Claims	55
No Change in Time or Price for Work Not Required	55
Changes in Time or Price	55
Notice to Sureties	55
ARTICLE X: CONTRACT DOCUMENTS	55
Intent	55
Contract Interpretation	55
Conflicts, Errors and Discrepancies	56
Amending Contract Documents	56
Supplementary Contract Documents	56
Reuse of Documents	56
Contract Documents	56
ARTICLE XI: THE PROJECT SITE	57
Availability of Lands	57
Physical Conditions	57
County's Review	57
Possible Document Change	57
Possible Price and Time Adjustments	57
Physical Conditions - Underground Facilities	57
Preservation of Property	58
Reference Points	58
Power	59
Water	59
Sanitary Facilities	59
Contractor's Office	59
ARTICLE XII: LABOR, MATERIAL AND PERFORMANCE BONDS	59
Bonds to be Provided	59
Insolvency or Termination of Right to Do Business	59
ARTICLE XIII: CONTRACTOR LIABILITY AND INSURANCE	60
Liability of Contractor	60
Contractor's Liability Insurance	60
Contractual Liability Insurance	60
Schedule of Required Insurance	61
Notice Requirement	61
Deductibles and Self-Insured Retentions	61
Risk of Loss	61

Waiver of Rights.....	61
No Right of Recovery.....	61
Receipt and Application of Proceeds.....	62
County's Duties as Trustee.....	62
Acceptance of Insurance.....	62
Verification of Coverage.....	62
Subcontractors.....	62
ARTICLE XIV: MATERIALS AND EQUIPMENT.....	62
Material and Equipment.....	62
Quality of Materials and Equipment.....	62
Storage of Materials and Equipment.....	63
Substitute Items.....	63
Operating and Maintenance Instructions and Manufacturer's Warranties.....	63
Patent Fees and Royalties.....	64
Contractor's Equipment.....	64
ARTICLE XV: PLANS AND SPECIFICATIONS.....	65
Interpretation of Plans, Specifications and Drawings.....	65
Ownership.....	65
Handicapped Access.....	65
ARTICLE XVI: SHOP DRAWINGS AND SAMPLES.....	65
Shop Drawings.....	65
Samples.....	66
Contractor's Review.....	66
Notice of Variation.....	66
County's Review.....	66
Contractor's Responsibility for Variation.....	67
Work Performed Prior to Shop Drawing or Sample Review.....	67
ARTICLE XVII: SUBCONTRACTORS, SUPPLIERS AND OTHERS.....	67
Objectionable Parties.....	67
Responsibility for Subcontractors.....	67
Division of Work.....	68
Subcontracts.....	68
ARTICLE XVIII: PERFORMANCE OF THE WORK.....	68
Supervision.....	68
Superintendence.....	68
Personnel.....	68
Order of Work.....	68
Safety and Protection.....	69
Detours.....	69
Safety Representative.....	70
Vehicle Code.....	70
Trench Safety.....	70
Notice Prior to Trenching.....	70
Alcoholic Beverages.....	71
Emergencies.....	71
Warranty and Guarantee.....	71
Environmental and Toxics Warranty.....	71
Access to Work.....	72
County May Stop the Work.....	72

Alternative Methods of Construction	72
Correction or Removal of Defective Work	72
Acceptance of Defective Work.....	72
County May Correct Defective Work.....	72
Adjusting Progress Schedule	73
Substitute Method of Construction.....	73
Suggestions to Contractor.....	73
Permits	73
Laws and Regulations.....	74
Taxes.....	74
Use of Premises	74
Site Clean-Up	74
Protection of Structures	75
Restoration of Structures	75
Drainage.....	75
Environmental Control	75
Record Documents	76
As-Built Drawings.....	76
Continuing the Work	76
Indemnification.....	76
Statutory Limitations	76
Related Work at Site.....	77
Access to Site.....	77
Acceptance of Work by Others.....	77
ARTICLE XIX: TESTS AND INSPECTIONS	77
Tests and Inspections Required by Laws or Regulations	77
Other Inspections and Tests.....	78
General Requirements	78
Certificates of Compliance	78
Delivery Acceptance Tests and Inspection	79
Installed Tests and Inspection.....	79
Quality Control	80
Work Requiring Testing	80
Contractor's Obligation.....	80
Uncovering Work Covered Contrary to County's Request.....	80
Uncovering Work for Inspection or Testing.....	80
ARTICLE XX: SUSPENSION OF WORK AND TERMINATION	81
County May Suspend Work.....	81
County May Terminate.....	81
County May Abandon.....	82
Contractor May Stop Work or Terminate.....	82
ARTICLE XXI COUNTY'S AGENT'S STATUS DURING CONSTRUCTION	82
County's Representative.....	82
Agent's Authority.....	82
Replacement of Representative	82
Visits to Site	82
Observation of Work	83
Clarifications and Interpretations	83
Authorized Variations in Work	83

Rejecting Defective Work	83
Determinations for Unit Prices	83
Claims and Disputes	83
Representative's Decision	85
Limitations on Representative's Responsibilities	85
Construction Methods and Safety.....	85
Acts and Omissions of Contractor.....	85
ARTICLE XXII: PARTIAL COMPLETION	85
Partial Completion (Completion of a Portion of the Work)	85
ARTICLE XXIII: ARBITRATION	86
Arbitration	86
Time to Request Arbitration.....	86
ARTICLE XXIV: LABOR AND EMPLOYMENT	86
Worker's Compensation Certification	86
Prevailing Wage Rates.....	87
Collective Bargaining Agreements	87
Payroll Records.....	87
Limitations on Hours Worked	87
Equal Employment Opportunity and Nondiscrimination	88
Employment of Apprentice Labor	88
Preference for Resident Labor	88
Incompetent Workers.....	88
Labor Class Substitutions	88
ARTICLE XXV: ASSIGNMENT	88
ARTICLE XXVI: CONFLICT OF INTEREST RESTRICTIONS	88
ARTICLE XXVII: WAIVER OF RIGHTS	89
ARTICLE XXVIII: SUCCESSORS IN INTEREST	89
ARTICLE XXIX: NOTICE	89
Giving Notice	89
Joint Venture Contractor	89
ARTICLE XXX: VENUE AND JURISDICTION	90

ESTIMATED CONTRACT TIME LINE

1. BIDS DUE: **MAY 18, 2017, at 3:00 p.m.**
2. BID OPENING: **MAY 18, 2017, at 3:00 p.m.**
3. BIDS TO REMAIN OPEN FOR **60 DAYS** FROM DATE OF OPENING OF BIDS.
4. NOTICE OF AWARD DUE WITHIN **60 DAYS** OF OPENING OF BIDS.
5. BID BONDS OF UNSUCCESSFUL BIDDERS TO BE RETURNED WITHIN **10 DAYS** OF AWARD BY COUNTY.
6. CONTRACT SIGNING AND BONDS DUE WITHIN **14 DAYS** OF NOTICE OF AWARD.
7. NOTICE TO PROCEED WITH WORK DUE WITHIN **14 DAYS** OF CONTRACT SIGNING.
8. CONSTRUCTION MUST BEGIN WITHIN **7 DAYS** AFTER MAILING OF NOTICE TO PROCEED.
9. CONTRACTOR MUST GIVE **72 HOURS** WRITTEN NOTICE OF DATE WORK WILL COMMENCE.
10. PRECONSTRUCTION CONFERENCE WITHIN **7 DAYS** OF NOTICE TO PROCEED.
11. SCHEDULES AND BREAKDOWN OF PHASES OF CONSTRUCTION DUE IN **5 DAYS** AFTER RECEIPT OF NOTICE TO PROCEED.
12. WORK MUST BE COMPLETED WITHIN **66 WORKING DAYS** OF MAILING OF THE NOTICE TO PROCEED.

INVITATION TO BID

FOR: **McCourtney Road Landfill Final Cover Maintenance Project**

LOCATED AT: **McCourtney Road Landfill, Nevada County**

Sealed bids will be received at the office of:

County of Nevada
Purchasing Division
c/o Auditor Controller's Office
950 Maidu Avenue, 2nd Floor, Suite 230
Nevada City, CA 95959

Until **3:00 p.m.** local time on **MAY 18, 2017** for the above-referenced project.

Bids received after said time will not be accepted and will be returned unopened.

At said place and time, and promptly thereafter, all bids that have been properly submitted will be publicly opened and read aloud. All interested parties are invited to attend.

The work to be performed includes final cover maintenance at six locations on Landfill Unit 1 and shall be performed in accordance with the Plans for Unit I Final Cover Maintenance; the Technical Specifications; and the Construction Quality Assurance (CQA) Plan.

Repair areas 1 and 2 require installation of additional geosynthetic clay liner (GCL) by a qualified installer. The existing GCL is to remain in place, and additional GCL is to be added after grade is modified.

Repair areas 3 through 10 involve minor augmentation of the vegetative layer to promote drainage.

An estimated 270 cubic yards of clean soil (as measured in place) are required to adjust grade at the repair locations. Approximately 220 cubic yards of select soil are to be imported, and the remainder of the soil is to be borrowed from an existing stockpile located on the deck of Landfill Unit 1.

Repair procedures for areas 1 and 2 are summarized below:

1. Remove topsoil layer and vegetative layer to new GCL subgrade. Stockpile topsoil (upper six inches) and vegetative soil separately for reuse.
2. Grade, prepare and compact the subgrade surface with a smooth drum roller to support the new GCL.
3. Prepare existing GCL on the perimeter of the repair area for overlap.
4. Install new GCL over the prepared soil surface and install new well boots.
5. Replace the vegetative layer and topsoil layer and install erosion controls.

Repair procedures for areas 3 through 10 are summarized below:

1. Place and compact additional vegetative layer using select imported soil and install erosion controls.

Bids items shall be **LUMP SUM** for mobilization and field engineering, excavation and grading, geosynthetic clay liner and erosion control. Bid item for import of select soil is **UNIT PRICE**.

Bids must be for all of the work described herein unless the bid form specifically indicates a bid item is optional. Plans, specifications, proposal forms, project manuals and all documents relating to this project may be downloaded from www.mynevadacounty.com/nc/igs/purchasing/Pages/Home.aspx. Potential bidders must register as a plan holder with the County in order to be notified of addenda and other notices. To register, please send an email to diana.wilburn@co.nevada.ca.us, indicating "**McCourtney Road Landfill Final Cover Maintenance Project Registration**" in the subject field. If you do not receive a reply to this email indicating that you have been registered, please call 530-265-1766.

Project documents may also be reviewed or purchased at:

County of Nevada
Department of Public Works
950 Maidu Avenue, 1st Floor
Nevada City, CA 95959

Contractor will be required to possess a **CLASS A** contractor's license or a combination of classes required by the categories and types of work included in this contract at the time the bid is submitted.

DEPARTMENT OF INDUSTRIAL RELATIONS CONTRACTOR REGISTRATION. The Department of Industrial Relations (DIR) has launched an online application at <https://efiling.dir.ca.gov/PWCR/ActionServlet?action=displayPWCRegistrationForm> for public works contractors to meet the requirements of Senate Bill 854. Contractors must register and meet requirements using the new online application before bidding on public works contracts in California.

In accordance with California Labor Code Section 1771.1, a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. Bids cannot be accepted from unregistered contractors except as provided in Section 1771.1.

Contractor and all subcontractors must comply with the requirements of labor code section 1771.1(a), pertaining to registration of contractors pursuant to section 1725.5 Registration and all related requirements of those section must be maintained throughout the performance of the contract.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. Each contractor and subcontractor must furnish certified payroll records to the Labor Commissioner at least monthly.

~~The County is required to provide notice to the Department of Industrial Relations of any public work contract subject to prevailing wages within five (5) days of the award.~~

The County of Nevada encourages its contractors and subcontractors to use the US. Citizenship and Immigration Services E-Verify system to verify that employees are eligible to work in the United States. Information about the E-Verify system is available at www.dhs.gov/e-verify.

A non-refundable charge of **\$25.00** will be made for each set of documents, and an additional charge of **\$5.00** will be made if those documents are mailed (via regular mail).

All written requests, correspondence and/or communications of any kind regarding the project, including any sealed bids which are submitted by mail, shall be addressed to:

Diana Wilburn
County of Nevada
Purchasing Division
950 Maidu Avenue
Nevada City, CA 95959

Phone Number (530) 265-1766 or diana.wilburn@co.nevada.ca.us

A pre-bid conference or walk-through will be held on **May 4, 2017**, at the hour of **10:00 a.m.** at the McCourtney Road Landfill site at 14741 Wolf Mountain Road, Grass Valley, CA.

Each bidder must submit a cashier's check, certified check or a bidder's bond in an amount equal to 10% of the total amount of the bid. The bidder to whom a contract is awarded will be required to furnish a performance bond and a labor and materials bond guaranteeing faithful performance and payment of all debts related to this contract.

The County of Nevada, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the regulations of the Department of Commerce (15 C.F.R., Part 8), issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

This is a public works project. Pursuant to Sections 1770 and 1773 of the Labor Code of the State of California, the County of Nevada has ascertained that prevailing wage rates are applicable to the work to be done and are available at the State of California Department of Industrial Relations website <http://www.dir.ca.gov/dlsr/PWD/index.htm>. Contractor shall not pay less than the prevailing rate of wages.

No bid will be considered unless it is made on a blank form furnished by the County of Nevada and is made in accordance with the provisions of the proposal requirements and conditions set forth in the contract documents.

The County of Nevada reserves the right to reject any or all bids.

DATED: 4/11/2017

COUNTY OF NEVADA
STATE OF CALIFORNIA

By Hank Weston
Chair, Board of Supervisors

INSTRUCTIONS TO BIDDERS

FOR: **MCCOURTNEY ROAD LANDFILL FINAL COVER MAINTENANCE PROJECT**

LOCATED AT: **MCCOURTNEY ROAD LANDFILL, NEVADA COUNTY**

1. **DEFINITIONS:**

Bidder: One who submits a bid directly to County as distinct from a sub-bidder who submits a bid to a bidder.

Successful Bidder: The lowest, qualified, responsive, responsible bidder to whom County makes an award.

Bidding Documents:

Invitation to Bid
Instruction to Bidders
Bid Form
Bidder's Bond or other security
Experience Statement
Subcontractor Listing
Bidder's Representations
Plans for Unit 1 Final Cover Maintenance, McCourtney Road Landfill
Technical Specifications for Unit 1 Final Cover Maintenance, McCourtney Road Landfill
CQA Plan for Unit 1 Final Cover Maintenance, McCourtney Road Landfill
Proposed Contract Documents
Any and all Addenda

2. **COPIES OF BIDDING DOCUMENTS**

Complete copies of the drawings and project manual for use in preparing bids may be obtained in accordance with the Invitation to Bid.

Partial sets of bidding documents will not be issued. Complete sets of bidding documents shall be used in preparing bids. County assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of bidding documents. If bidder believes its set of bidding documents is incomplete, it shall be the responsibility of bidder to contact County to confirm that Bidder has a complete set.

County, in making copies of bidding documents available on the above terms, does so only for the purpose of obtaining bids on the work and does not confer a license or grant for any other use.

3. **QUALIFICATIONS OF BIDDERS**

Each bidder must be prepared to submit, within five days of County's request, written evidence of bidder's qualifications to perform the work. Bidders may be required to submit evidence that they have a practical knowledge of the particular work bid upon, and that they have the financial resources to complete the proposed work. In determining the bidder's

qualifications, the following factors will be considered: work previously completed by the bidder and whether the bidder (a) maintains a permanent place of business; (b) has adequate plant and equipment to do the work properly and expeditiously; (c) has the financial resources to meet all obligations incident to the work; and (d) has appropriate technical experience. Each bidder may be required to show that he or she has handled former work so that no just claims are pending against such work. No bid will be accepted from a bidder who is engaged on any work which would impair his or her ability to perform or finance this work.

Each bidder must hold a current valid contractor's license at the time of bidding or the bid will be rejected.

4. INSPECTION OF SITE OF WORK

Bidders are required 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 as to the actual conditions of and at the site of work. If, during the course of the examination, bidder finds facts or conditions that appear confusing to bidder, bidder shall apply to County for additional information and explanation before submitting the bid. However, no such supplemental information so requested or furnished shall vary the terms of the specifications or the Contractor's sole responsibility to satisfy himself or herself as to the conditions of the work to be performed, unless an addendum has been issued.

The submission of a bid by the bidder shall constitute the acknowledgement that, if awarded the contract, bidder has relied and is relying on bidder's examination of (a) the site of the work, (b) the access to the site, and (c) all other data, matters, and things requisite to the fulfillment of the work and on bidder's own knowledge of existing conditions 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 County. No claim for additional compensation will be allowed which is based upon a lack of knowledge of the above items.

Where technical reports or data have been utilized in the preparation of the contract documents, bidder may rely upon the accuracy of the technical data contained in such reports but not upon the interpretations or opinions contained therein for the completeness thereof for the purpose of bidding or construction.

Where plans and specifications contain drawings of physical conditions in or relating to existing surface conditions, including underground facilities, which are at or contiguous to the site, bidder may rely upon the accuracy of the data contained in such drawings but not upon the completeness thereof for the purposes of bidding or construction. If a mass diagram has been prepared for a project, it is for design purposes only. If it is made available to bidders, County assumes no responsibility whatever for the information contained therein and makes no guarantees with respect to reliance thereon.

Before submitting a bid, each bidder will, at bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface and underground facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance or furnishing of the work and which bidder deems necessary to determine its bid for performing and furnishing the work in accordance with the time, price and other terms and conditions of the contract documents.

On request in advance, County will provide each bidder access to the site to conduct such explorations and tests, as each bidder deems necessary for the submission of a bid. Bidder

shall fill all holes, clean up and restore the site to its former condition upon completion of such explorations.

The lands upon which the work is to be performed, rights-of-way and easements for access thereto and other lands designated for use by Contractor in performing the work are identified in the contract documents. All additional lands and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by Contractor. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by County unless otherwise provided in the contract documents.

5. EXAMINATION OF CONTRACT DOCUMENTS

The contract documents shall consist of the following:

1. Invitation to Bid;
2. Instructions to Bidders;
3. Contractor's Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award);
4. Contract;
5. Addenda which pertain to the Contract;
6. The Bonds or other security;
7. Any supplementary conditions or any and all written agreements amending or extending the work, time or price contemplated;
8. The Plans, Technical Specifications and CQA Plan as identified in the Contract;
9. Certificates of Insurance.

Each bidder shall thoroughly examine and be familiar with legal and procedural documents, general conditions, specifications, drawings and addenda (if any). The submission of a bid shall constitute an acknowledgement upon which County may rely that the bidder has thoroughly examined and is familiar with the contract documents. The failure or neglect of a bidder to receive or examine any of the contract documents shall in no way relieve that bidder from any obligation with respect to that bidder's bid or to the contract. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any contract documents.

6. INTERPRETATION OF CONTRACT DOCUMENTS

No oral representations or interpretations will be made to any bidder as to the meaning of the contract documents. Any ambiguities, inconsistencies in the plans and specifications or other contract documents, or problems which are visible by an inspection of the site or review of the contract documents shall be resolved prior to bidding. Request for an interpretation shall be made and delivered to County at least five (5) days before the time announced for opening of the proposals. If required, interpretations by County will be in the form of an addendum to the contract documents and, when issued, will be sent as promptly as is practical to all parties to whom the bid documents have been issued. All such addenda shall become part of the contract. County reserves the right to amend any contract language, which it determines, is ambiguous prior to award of the bid.

7. ADGENDA

Each bid shall include specific acknowledgment, in the space provided, of receipt of all addenda issued during the bidding period. Failure to so acknowledge will result in the bid being rejected as not responsive. The Contractor is responsible for verifying that all

addenda have been received and for obtaining all addenda prior to submitting bids for the work.

Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

Addenda may also be issued to modify the bidding documents as deemed advisable by County.

Addenda will be mailed or delivered to all parties recorded as having received the bidding documents. No addenda will be issued later than four (4) days prior to the date for receipt of bids except an addendum, if necessary, postponing the date for receipt of bids or withdrawing the request for bids.

8. BIDS

Bids shall be made on the blank forms prepared by County and included herein. Bidders may extract these pages from the book of specifications or submit the entire book. All bids shall give prices, both in writing and in figures, and shall be signed by the bidder or bidder's authorized representative with bidder's address and shall provide all other information requested on the bid form. If the bid is made by an individual, his or her name, signature and post office address must be shown; if made by a firm or partnership, the name and post office address of the firm or partnership must be shown; if made by a corporation, the bid shall show the name of the state under the laws of which the corporation is chartered, the name and post office address of the corporation, and the title of the person who signs on behalf of the corporation.

9. SUBMISSION OF BIDS

Bids shall be submitted at the time and place indicated in the Invitation to Bid and shall be included in a sealed envelope addressed to the Nevada County, Purchasing Division. If mailed or hand carried, the bids shall be addressed to:

County of Nevada
Purchasing Division
c/o Auditor Controller's Office
950 Maidu Avenue, 2nd Floor, Suite 230
Nevada City, CA 95959

The bid shall be identified on the outside with the bidder's name, license number and address and with the project title.

Each bid shall be accompanied by the bid security and other required documents.

If the bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "BID ENCLOSED" on the face thereof.

Bids shall be deposited at the designated location prior to the time and date for receipt of bids indicated in the Invitation to Bid, or the modified time and date indicated by addendum. Bids received after the time and date for receipt of bids will be returned unopened. Bidder shall assume full responsibility for timely delivery at the location designated for receipt of bids.

Oral, telephone, or fax bids are invalid and will not receive consideration. No bidder may submit more than one bid. Multiple bids under different names will not be accepted from one firm or association.

10. PRE-BID CONFERENCE OR WALK-THROUGH

A pre-bid conference or walk-through will be held **May 4, 2017**, at the hour of **10:00 a.m.** at the McCourtney Road Landfill site at 14741 Wolf Mountain Road, Grass Valley, CA.

The representatives of County, consultants and/or Project Engineer will be present to answer questions. Any questions which, in the opinion of County, cannot be answered by direct reference to the bidding documents will be answered by formal written addenda as outlined above. The pre-bid conference or walk-through may include a tour of the site of the work conducted by representatives of County. All interested parties are invited to attend.

11. BID PRICE

The bid price shall include everything necessary for the completion of construction and fulfillment of the contract including, but not limited to, furnishing all materials, equipment, tools, plant and other facilities and all management, superintendence, labor and services, except as may be provided otherwise in the contract documents.

In the event of a difference between the price quoted in words and a price quoted in figures for the same quotation, the words shall be considered the amount bid. Discrepancies between the indicated sum or total of figures and the correct sum or total will be resolved in favor of the correct sum or total.

12. BASIS OF BIDS

The bidder shall submit prices for all unit cost items. Failure to comply may be cause for rejection.

Where specific quantities are given, they are approximate only, being given as a basis for the comparison of bids, and the County of Nevada does not, expressly or by implication, warrant that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work or to omit portions of the work as may be deemed necessary or advisable by County. The amount of the bid for comparison purposes will be the total of all items. The total of unit basis items will be determined by extension of the item price bid on the basis of the estimated quantity set forth for the item.

The bidder shall set forth for each item of work in clearly legible figures, an item price and a total for the item in the respective spaces provided for this purpose. In the case of unit basis items, the amount set forth under the "Total" column shall be the extension of the item price bid on the basis of the estimated quantity for the item.

In case of discrepancy between the item price and the total set forth for the item, the item price shall prevail; however, if the amount set forth as an item price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or in the case of unit basis items is the same amount as the entry in the "Total" column, then the amount set forth in the "Total" column for the item shall prevail in accordance with the following:

- a. As to unit basis items, the amount set forth in the "Total" column shall be divided by the estimated quantity for the item and the price thus obtained shall be the item price.

- b. As to the lump sum items, the amount set forth in the "Total" column shall be the item price.

In accordance with the provision of Section 6707 of the State Labor Code, each bidder shall list, in any bid item calling for trenching of five (5) feet or more in depth, the amount contained in the proposal for adequate trench and excavation sheeting, shoring, and bracing or equivalent method for the protection of life and limb which shall conform to applicable Safety Orders.

13. TAXES

Bid prices shall include allowance for all federal, state and local taxes.

14. CONTRACT TIME

The date by which the work is to be completed (the contract time) is set forth in the contract documents.

15. SUBSTITUTE MATERIAL AND EQUIPMENT

The contract, if awarded, will be on the basis of material and equipment described in the drawings or specified in the specifications without consideration of possible substitute or "co-equal" items. Whenever it is indicated in the drawings or specified in the specifications that a substitute or "co-equal" item of material or equipment may be furnished or used by Contractor if acceptable to County, application for such acceptance will not be considered by County until after the effective date of the contract unless an addendum is issued to all bidders authorizing the use of a specified substitute. The procedure for submittal of any such application by Contractor and consideration by County is set forth in the contract documents.

16. LIST OF SUBCONTRACTORS

Each bid shall have listed on the form provided herewith 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 bid, or, in the case of bids for construction of streets or highways, including bridges, in excess of one-half of one percent of the Contractor's total bid or \$10,000, whichever is greater, per Public Contracts Code Sections 4104. For the purpose of this paragraph, a subcontractor is defined as one who contracts with the Contractor to furnish materials and labor, or labor only for the performance of work at the site of the work.

County has the right to review the suitability and qualifications of any subcontractor or supplier proposed by the Contractor. As part of this review County may request an experience statement with pertinent information as to similar projects and other evidence of qualification for each subcontractor, person and organization. If County, after due investigation, has reasonable objection to any proposed subcontractor, County may, before giving the notice of award, request the apparent successful bidder to submit an acceptable substitute without an increase in bid price. If the apparent successful bidder does not make such substitution, the contract shall not be awarded to such bidder, but Contractor's failure to make such substitution will not constitute grounds for sacrificing the bid security. Any subcontractor, other person or organization so listed and to whom County does not make written objection prior to the giving of the notice of award will be deemed acceptable to County subject to revocation of such acceptance after the effective date of the agreement as provided in the contract documents.

No Contractor shall be required to employ any subcontractor, other person or organization against whom Contractor has reasonable objection.

The Contractor may not change any subcontractor listed on its bid without written approval from County after a determination that the requirements of Public Contracts Code Section 4107 have been met.

17. BID GUARANTY (BID BOND)

The bid shall be accompanied by a bid guaranty bond (bid bond) duly completed on the form provided herewith or a form which is substantially similar, by a guaranty company authorized to carry on business in the State of California, for payment to County in the sum of at least ten (10%) percent of the total amount of the bid, or alternatively by a certified or cashier's check, payable to County in the sum of at least ten (10%) percent of the total amount of the bid. A bid bond form which provides further payment of attorney's fees or which contains a termination date will not be considered to be "substantially similar". The amount payable to County under the guaranty bond, or the certified or cashier's check and the amount thereof, as the case may be, shall be forfeited to County as liquidated damages in case of a failure or neglect of the bidder to furnish, execute and deliver to County the required performance and payment bonds, evidence of insurance, and to enter into, execute and deliver to County the contract on the form provided herewith, within **14 days** after being notified in writing by County that the award has been made and the agreement is ready for execution.

All bonds shall have a power of attorney authorizing the signature of the person authorized to sign on behalf of the Surety attached to the bond. The power of attorney signature and the principal's signature shall each (both) be notarized.

The bid bond shall name County as beneficiary and shall specify that the bond is valid for the bid opening of this project as scheduled in the Invitation to Bid.

18. RETURN OF BID GUARANTEES

Within **ten (10) days** after the bids are awarded, County will return the bid guarantees (other than bid bonds) accompanying the bids for bids not considered in making the award. All other bid guaranties will be held until the contract has been fully executed, after which they will be returned to the respective bidders whose bids they accompany.

19. MODIFICATION OR WITHDRAWAL OF BIDS

Bids submitted early may be modified or withdrawn by notice to the party receiving bids at the place and prior to the time designated for receipt of bids. Such notice shall be in writing over the signature of the bidder or be by fax; if by fax, written confirmation over the signature of bidder must have been mailed and postmarked on or before the date and time set for receipt of bids; it shall be so worded as not to reveal the amount of original bid. Bids may also be modified or withdrawn in person by the bidder or an authorized representative provided bidder can prove bidder's identity and authority. Withdrawn bids may be resubmitted up to the time designated for the receipt of bids provided that they are then fully in conformance with these instructions to bidders.

If, within 24 hours after bids are opened, any bidder files a duly signed written notice with County and promptly thereafter demonstrates to the reasonable satisfaction of County that there was a material and substantial mistake in the preparation of the bid, that bidder may

withdraw his or her bid and the bid security will be returned. Thereafter, that bidder will be disqualified from further bidding on the work.

20. OPENING OF BIDS

Bids will be opened publicly and read aloud. An abstract of the amounts of the base bids and major alternates (if any) will be made available after the opening of the bids.

21. BIDS TO REMAIN OPEN

All bids shall remain open and subject to acceptance for a period of **60 days** from the date of opening, but County may, in County's discretion, release any bid and return the bid security prior to that date.

22. POSTPONEMENT OF OPENING

County reserves the right to postpone the date and time for opening of bids at any time prior to the date and time announced in the advertisement.

23. AWARD OF CONTRACT

The award of the contract, if awarded, will be made to the lowest responsive, responsible bidder whose bid complies with all the requirements stated herein. Within **60 days** after the time of opening the bids, County will act either to accept a proposal or to reject all proposals. The acceptance of a proposal will be evidenced by a notice of award of contract in writing, delivered in person or by mail to the bidder whose proposal is accepted. No other act of County shall constitute acceptance of a bid. The award of contract shall obligate the bidder whose bid is accepted to furnish a performance bond, payment bond and evidence of insurance (certificates of insurance and endorsements specified in the contract) and execute the agreement set forth in the contract documents

County reserves the right to reject any and all bids and to waive any and all formalities, and the right to disregard all non-conforming, non-responsive, or conditional bids. County reserves the right to reject the bid of any bidder if County believes that it would not be in the best interest of the project to make an award to that bidder, whether because the bid is not responsive or the bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by County. County reserves the right to reject any bids which omit a bid on any one or more items on which bids are required; any bids which omit unit prices if unit prices are required; any bids in which unit prices are unbalanced in the opinion of County; any bid accompanied by insufficient or irregular bid security; and any bids from bidders who have previously failed to perform properly or to complete on time contracts of any nature.

County may consider the qualifications and experience of subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work as to which the identity of subcontractors and other persons and organizations must be submitted as provided herein. Operating costs, maintenance considerations, performance data and guarantees of materials and equipment may also be considered by County.

If there is reason to believe that collusion exists among the bidders, none of the bids of the participants in such collusion will be considered, and County may likewise elect to reject all bids received.

County may conduct such investigations as County deems necessary to assist in the evaluation of any bid and to establish the responsibility, qualifications and financial ability of the bidders, proposed subcontractors and other persons and organizations to do the work in accordance with the contract documents to County's satisfaction within the prescribed time. County reserves the right to reject the bid of any bidder who does not pass any such evaluation to County's satisfaction.

If the contract is to be awarded, it will be awarded to the lowest bidder whose evaluation by County indicates to County that the award will be in the best interests of the project.

24. SIGNING OF AGREEMENT

When County gives a Notice of Award to the successful bidder, it will be accompanied by unsigned counterparts of the agreement and all other contract documents.

Two copies of the contract documents will be prepared by County. All copies will be submitted to Contractor, and Contractor shall execute the contract, insert executed copies of the required bonds and power of attorney, and submit all copies to County within **14 days**. The date of execution of the contract shall be left blank for filling in by County.

County will execute all copies, insert the date of signing the contract on the contract and bond forms and on the power-of-attorney and distribute one copy each to County and Contractor. Contractor shall be responsible for distribution of copies to the Surety(ies).

Notwithstanding any action by County to the contrary or by the Board of Supervisors in accepting a bid, there shall be no contract between bidder and County until the contract documents are signed by County.

Failure of the Contractor to execute the contract within the specified time shall be just cause for withdrawal of the contract award by the County and forfeiture by the Contractor of the bid guaranty bond.

25. NOTICE TO PROCEED

County shall give the successful bidder written notice to proceed with the work within **14 days** of the execution of the contract. Notwithstanding any other provision of the contract, County shall not be obligated to accept or to pay for any work furnished by the Contractor prior to delivery of notice to proceed whether or not County has knowledge of the furnishing of such work.

26. PERFORMANCE AND OTHER BONDS

The contract documents set forth County's requirements as to performance and other bonds. When the successful bidder delivers the executed contract to County, it shall be accompanied by the required contract security. The bonds shall be provided on County's forms or on forms which are substantially similar. Notwithstanding any language contained in the bonds, County shall not be liable for attorney's fees either for the enforcement of the bond or for any other action under this Contract. Bonds shall not contain any date of termination.

27. CONTRACTUAL RESTRICTIONS

No official of County who is authorized in such capacity and on behalf of County to negotiate, make, accept or approve, or to take part in negotiating, making, accepting, or approving any architectural, engineering, inspecting, construction or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof. No officer, employee, architect, attorney, engineer, or inspector of or for County who is authorized in such capacity and on behalf of County who is in any legislative, executive, supervisory, or other similar function in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

28. POSTING SECURITY IN LIEU OF RETENTION

The Contractor may elect to receive one hundred percent (100%) of payments due under this contract from time to time, without retention of any portion of the payment by the public agency, by depositing securities of equivalent value with County in accordance with the provisions of Section 22300 of the California Public Contract Code; except that no such substitution shall be allowed where federal money is funding the project and federal regulations or policies would prohibit such substitution of securities for the retention. Securities eligible for investment shall include those listed in Section 16430 of the California Government Code, or bank or savings and loan certificates of deposits. Such securities, if deposited by the bidder, shall be valued by County whose decision on the valuation of the securities shall be final. The bidder shall be the beneficial owner of any securities substituted for money withheld and shall receive any interest thereon.

29. LIQUIDATED DAMAGES

The County is authorized by Government Code Section 53069.85 to assess liquidated damages for delay. County refers bidders to the Contract for review of the liquidated damages provision to be included in this contract.

CHECKLIST OF DOCUMENTS ENCLOSED BY BIDDER

Bidder shall acknowledge he or she has enclosed all required Bidding Documents listed herein by signing his or her initials in "Bidder" column, after each item.

DOCUMENT	SIGNATURES	
	BIDDER	COUNTY REP.
1. BID FORM (signed)		
2. ACKNOWLEDGMENT OF ADDENDA		
3. BID SECURITY: Bid Bond (must be signed by corporate surety); or Cashier's check; or Certified Check; or Cash		
4. EXPERIENCE STATEMENT FORM		
5. SUBCONTRACTOR LISTING (signed)		
6. BIDDER'S REPRESENTATIONS: (BIDDER'S QUALIFICATIONS, WORKER'S COMPENSATION CERTIFICATE NON-COLLUSION DECLARATION)		

BID FORM

(Nevada County Standard Form Bid Document)

BID TO THE COUNTY OF NEVADA FOR: _____

Name of Bidder: _____

The work to be done and referred to herein is in Nevada County, State of California, and shall be constructed in accordance with the Plans, Specifications (including the payment of not less than the wage rates set forth therein) and the Contract annexed hereto.

The work to be done is shown on project documents entitled: **McCOURTNEY ROAD LANDFILL FINAL COVER MAINTENANCE PROJECT.**

The undersigned, as bidder, declares that the only persons or parties interested in this bid as principals are those named herein; that this bid is made without collusion with any other person, firm, or corporation, and in submitting this bid, the undersigned bidder agrees that he or she has carefully examined the location of the proposed work, the annexed proposed form of contract, and the plans therein referred to and all other documents listed or incorporated in the bidding documents and contract documents; and bidder proposes, and agrees if this bid is accepted, that bidder will contract with the County of Nevada in the form of the copy of the contract annexed hereto, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of County as therein set forth, and that bidder will take in full payment therefor the following:

BASE BID PACKAGE

Item No.	Item	Unit of Measure	Estimated Quantity	Unit Price	Total
1	Mobilization and Field Engineering	LS	1		
2	Excavation and Grading	LS	1		
3	Import Select Soil	CY	200		
4	Geosynthetic Clay Liner (GCL)	LS	1		
5	Erosion Control	LS	1		
TOTAL \$					

TOTAL OF BID (in figures): _____

TOTAL OF BID (in words): _____

Contract shall be awarded based upon the sum of Base Bid Package (Items 1 - 5)

The undersigned bidder agrees to furnish the required bonds or other security and to enter into a contract within the time specified in the Instructions to Bidders, and further agrees to complete all work by the bid, in accordance with all requirements the contract.

Receipt of copies of the following addenda is hereby acknowledged.

<u>Addendum No.</u>	<u>Bidder's Signature</u>	<u>Date Acknowledged</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

All addenda received have been considered in preparation of this bid.

Enclosed herewith are the Bid Form, Bid Bond or other security, Experience Statement, Subcontractor Listing and Bidder's Representations form.

In submitting this bid it is understood that the right is reserved by County to reject any and all bids, and it is understood that this bid may not be withdrawn during the period set forth in the Instructions to Bidders.

Envelopes containing bids must be marked as required by the Instructions to Bidders.

County reserves the right to reject any and all bids and to waive any irregularities in bids.

The amount of the bid for comparison purposes will be the total of all items. The total of unit basis items will be determined by extension of the item price bid on the basis of the estimated quantity set forth for the item.

Prices bid shall include overhead, profit and all applicable taxes.

By submission of this bid, each bidder certified, and in the case of a joint bid each party thereto certifies as to its own organization, that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other bidder or with any competitor.

A bid bond will accompany this bid in a sum of not less than ten percent (10%) of the total amount of the bid and shall be on a form approved by County or a form which is substantially similar, which is attached thereto.

If this bid shall be accepted and the undersigned shall fail to contract as aforesaid, and to give the performance bond and labor and material bond as required in the contract with a surety satisfactory to County within the number of days set forth in the Instructions to Bidders after receipt of notice that the contract has been awarded to the undersigned, County may, at its option, determine that the bidder has abandoned the contract and thereupon the award of the contract shall be null and void and the bidder and surety shall forfeit the security accompanying this bid to the County of Nevada.

Accompanying this bid is _____

("Bidder's Bond", "Cashier's Check", "Certified Check" or "Cash")

for \$ _____ an amount equal to ten percent (10%) of the total bid.

The names of individuals who are principals in any partnership, joint venture, business association or corporation in the foregoing bid are as follows:

Licensed in accordance with an act providing for the registration of contractors, License No.

Dated: _____

Authorized Signature of Bidder

BUSINESS ADDRESS: _____

PLACE OF RESIDENCE: _____

TELEPHONE NUMBER: _____

CLASSIFICATION OF CONTRACTOR'S LICENSE: _____

EXPIRATION DATE OF CONTRACTOR'S LICENSE: _____

FEDERAL TAX ID. NO.: _____

NOTE: If bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation; if bidder is a co-partnership, the true name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts on behalf of the co-partnership; and if bidder is an individual, his or her signature shall be placed above. If a bidder is a joint venture, the documents must be signed by an authorized officer of each firm to the joint venture and shall include the California Contractor's License number of each partner to the joint venture. The signature of any attorney-in-fact must be notarized.

BIDDER'S BOND

STATE OF CALIFORNIA

COUNTY OF NEVADA

KNOW ALL PERSONS BY THESE PRESENT,

That we _____

_____, as principal, and

as surety, are held and firmly bound unto the County of Nevada in the sum of ten percent (10%) of the total amount of the bid of the principal above named, submitted by said principal to the County of Nevada for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, to the County of Nevada, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. In no case shall the liability of the surety hereunder exceed the sum of \$ _____.

The condition of this obligation is such that whereas the principal has submitted the above-mentioned bid to the County of Nevada, as aforesaid, for certain construction specifically described as follows, for which bids are to be opened at Nevada City, California, on _____, for:

NOW, THEREFORE, if the aforesaid principal is awarded the contract, and within the time and manner required by the contract documents, after the prescribed forms are presented to him or her for signature, enters into a written Contract, in the prescribed form, in accordance with the bid, and files two bonds with the County of Nevada, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect.

Notice to Surety shall be provided at :

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _____
day of _____ A. D. 20_____.

Seal

Seal

Principal Seal

Seal

Seal

Surety Seal

NOTE: Signature of Surety shall be notarized. Power of attorney for surety with corporate seal affixed must be attached.

SUBCONTRACTOR LISTING

The following information is submitted which gives the name, business address, and portion of the work for each subcontractor that will be used for a portion of the work equal to or exceeding the amount specified in the Instructions to Bidders if the bidder is awarded the contract. Additional numbered pages shall be attached to this page as required. Each page shall be headed "SUBCONTRACTOR LISTING" and signed.

<u>Name</u>	<u>Business Address</u>	<u>Description of Portion of Work to be Performed</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Signature of Contractor

BIDDER'S REPRESENTATIONS

I, the undersigned, declare as follows:

1. **BIDDER'S QUALIFICATIONS:** That neither I nor a company of which I am more than 50% owner have been disqualified from bidding, removed from a public works construction project or otherwise been prevented from bidding because of a violation of law or a safety regulation.

Further, I declare under penalty of perjury that neither I nor a company of which I am more than a 50% owner, have had more than one final, unappealable finding of contempt of court by a federal court within the immediately preceding two year period because of failure to comply with an order of the Federal court (Public Contract Code Section 10232), which orders the Contractor to comply with an order of the National Labor Relations Board.

Further, I declare under penalty of perjury that I have not been convicted by any court of any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of state or federal antitrust law in connection with the bidding upon, award of, or performance of any public works contract.

2. **WORKER'S COMPENSATION CERTIFICATION (LABOR CODE SECTION 1861):** That I am aware of the provisions of Section 3700 of the Labor Code of the State of California, which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this Contract.

3. **NONCOLLUSION DECLARATION:** I, the undersigned, declare that I am the _____ of _____, the party making the foregoing bid, that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the 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, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date: _____

BIDDER: _____

By: _____

TECHNICAL SPECIFICIFICATIONS

See attached book: "Technical Specifications for Unit 1 Final Cover Maintenance, McCourtney Road Landfill, Nevada City, California," (Dated February 2017, Prepared by Holdredge & Kull).

Division 1 – General Provisions

Division 2 – Site Work

PROJECT PLANS

See attached book: "Drawings for McCourtney Road Final Cover Maintenance Project,"
(Dated February 2017, Prepared by Holdredge & Kull).

Drawings:

- 1 of 4 – Unit 1 Final Cover Maintenance
- 2 of 4 – Technical Sections Repair Areas 1 and 2
- 3 of 4 – Repair Area 1
- 4 of 4 – Repair Area 2

COUNTY OF NEVADA
STATE OF CALIFORNIA

CONTRACT

FOR

MCCOURTNEY ROAD LANDFILL FINAL COVER MAINTENANCE PROJECT

DATE: _____

(Standard Public Works Contract)

NOTICE TO BIDDERS:

THE FOLLOWING CONTRACT SECTION IS INCLUDED

AS A SAMPLE

FOR INFORMATION ONLY

AND IS NOT TO BE

COMPLETED WITH BID

BOND OF FAITHFUL PERFORMANCE

KNOW ALL PEOPLE BY THESE PRESENTS THAT WE _____, the Contractor in the contract annexed hereto, as principal, and _____, as surety are held and firmly bound unto the County of Nevada in the sum of _____ dollars (\$ _____) in lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, jointly and severally, firmly by these presents:

The condition of the above obligation is that if said principal as Contractor in the contract hereto annexed shall faithfully perform each and all of the conditions of said contract to be performed by Contractor, and shall furnish all tools, equipment, apparatus, facilities, transportation, labor, and material, other than material, if any, agreed to be furnished by County, necessary to perform and complete, and performs and completes in good workmanlike manner, the work of _____ in strict conformity with the terms and conditions set forth in the contract hereto annexed, then this obligation shall be null and void, otherwise to remain in full force and effect; and the said 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 or the specifications accompanying the same shall, in any way, affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

IN WITNESS WHEREOF this instrument has been duly executed by the principal and surety above named on _____, 20__.

Contractor (Seal)

Surety (Seal)

NOTE: All signatures must be notarized. Attach Power of Attorney for Surety, sealed or certified.

APPROVED AS TO FORM:
COUNTY COUNSEL

By: _____

BOND FOR LABOR AND MATERIAL

KNOW ALL PEOPLE BY THESE PRESENTS THAT WE _____**

the Contractor in the Contract hereto annexed, as principal, and

are held and firmly bound unto the County of Nevada in the sum of

Dollars (\$_____), lawful money of the
United States, for which payment, well and truly to be made, we bind ourselves, jointly and
severally, firmly by these presents.

The condition of the above obligation is that if said principal, its successors or assigns, as
Contractor in the Contract hereto annexed, or his, her or its subcontractor, fails to pay for any
materials, provisions, provider or other supplies, or items, used in, upon, for or about the
performance of the work contracted to be done by said Contractor, namely to furnish all tools,
equipment, apparatus, facilities, transportation, labor and material necessary to perform and
complete, and to perform and complete in a good workmanlike manner, the work of

in strict conformity with the
terms and conditions set forth in the contract hereto annexed, or for any work or labor done
thereon of any kind or for amounts due under the Unemployment Insurance Act with respect to
such work or labor, or to make payments to the Employment Development Department
pursuant to Civil Code Section 3248, or to pay any of the persons named in Civil Code Section
3181, said surety will pay for the same in an amount not exceeding the sum herein above set
forth. This bond is executed in accordance with the requirements of Title 15 of the Civil Code
and is subject to the provisions thereof, and shall inure to the benefit of any and all persons,
companies and corporations entitled to file claims under and by virtue of the provisions of
Section 3181 of the Civil Code, or to their assigns; and the said 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 or the specifications
accompanying the same, shall in any way affect its obligations on this bond, and it does hereby
waive notice of such change, extension of time, alteration or addition to the terms of the
contract or to the work or to the specifications. In the event suit is brought on this bond, a
reasonable attorney's fee may be fixed by the Court.

IN WITNESS WHEREOF this instrument has been duly executed by the principal and surety
above named on _____, 20____.

Contractor (Seal)

Surety (Seal)

NOTE: All signatures must be notarized. Attach Power of Attorney for Surety, sealed or
certified.

APPROVED AS TO FORM:

COUNTY COUNSEL By: _____

COUNTY OF NEVADA
STATE OF CALIFORNIA
CONTRACT

THIS CONTRACT, made this _____ day of _____, 2017, by and between the COUNTY OF NEVADA, hereinafter referred to as County and _____ hereinafter referred to as Contractor.

WITNESSETH: That the County and Contractor, for the consideration hereinafter mentioned, agree as follows:

ARTICLE I: DEFINITIONS

Wherever used in these general conditions or in the other contract documents the following terms have the meanings indicated which are applicable to both the singular and plural thereof:

Act of God

"Act of God" means an earthquake or flood, or other cataclysmic phenomenon of nature. A rain, windstorm, high water or other natural phenomenon of unusual intensity for the specific locality of the work, which might reasonably have been anticipated from historical records of the general locality of the work, shall not be construed as an Act of God.

Addenda

Written or graphic instruments issued prior to the opening of bids which clarify, correct or change the bidding documents.

Application for Payment

The form accepted by County which is to be used by Contractor in requesting progress or final payments and which is to include such supporting documentation as is required by the contract documents.

Calendar Days

Consecutive days of the month including Saturdays, Sundays and holidays. A calendar day shall be the 24 hours running from midnight to the next midnight.

Change Order

A document, which is signed by Contractor and County and authorizes an addition, deletion or revision in the work, or an adjustment in the contract price or the contract time, issued on or after the effective date of the contract.

Contract Documents

The written agreement covering the performance of the work and the furnishing of labor, materials and equipment in construction of the work. The agreement shall be construed to include the

1. Invitation to Bid
2. Instruction to Bidders

3. Contractor's Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award)
4. Contract
5. Addenda which pertain to the Contract
6. The Bonds
7. Any supplementary conditions or any and all written agreements amending or extending the work, time or price contemplated
8. The Plans and Specifications and Drawings as identified in the Contract
9. Certificates of Insurance

Contract Price

Either the total lump sum bid of the Contractor or the total of the unit price bids of the Contractor extended based upon the estimated quantities set forth in the bid, or combinations thereof, plus or minus any adjustments made in accordance with the contract.

Contractor

The person or persons, co-partnership, joint venturers or corporation who have entered into a contract with County as party or parties of the second part and/or their legal representatives.

Contractor's Plant and Equipment

Everything, except labor, brought onto the site by the Contractor in order to carry out the work, but not to be incorporated in the work.

County

The County of Nevada and any person or persons to whom the power belonging to County shall be duly designated including but not limited to an engineer or architect. Only those persons designated in writing by the County Administrator or Director of the department overseeing the project shall have authority to act on behalf of County.

Day

A calendar day of 24 hours, except when preceded by "working", as defined below.

Defective

An adjective which when modifying the word "work" refers to work that is unsatisfactory, faulty or deficient, or does not conform to the contract documents, or does not meet the requirements of any inspection, reference standard, test or approval referred to in the contract documents, or has been damaged (unless responsibility for the protection thereof has been assumed by County).

Directed

"Directed", "designated", "permitted", "required", "accepted", and words of like import, wherever and in whatever manner used means as directed, designated, permitted, required, and accepted by County.

Director

"Director" shall mean the Director of the department overseeing the project.

Drawings

The drawings which show the character and scope of the work to be performed and which have been prepared or approved by County and are referred to in the contract documents.

Effective Date of the Contract

The date indicated in the Contract on which it becomes effective, but if no such date is indicated it means the date on which the Contract is signed and delivered by the last of the two parties to sign and deliver.

Engineer

The person specifically designated in writing by County to function as staff adviser and/or consultant to County on engineering matters relating to this contract. Only those persons designated by County, in writing, shall have authority to act for County in the administration of this contract. Said written designation shall be signed by the County Administrator or Director of the department overseeing the project.

Equal

A device, material, equipment, technique or method that conforms to the intent of that specified or indicated on the Drawing.

Field Order

A written order issued by County which orders minor changes in the work but which does not involve a change in the contract price or the contract time.

Final Acceptance, Date of

The date when all final punch list items are corrected, the final inspection has been completed and when the governing body and/or funding agency formally accepts the project as complete. This date will be used to establish the start date of the one-year warranty period for the contract.

Laboratory

The designated testing laboratory authorized by County to test materials and work involved in the contract.

Lien

Any claim by a person entitled to file a stop notice pursuant to the provisions of California Civil Code Sections 3179, et seq.

Notice of Award

The written notice by County to the apparent successful bidder stating that upon compliance by the apparent successful bidder with the conditions precedent enumerated therein, within the time specified, County will sign and deliver the Contract.

Notice to Proceed

A written notice given by County to Contractor fixing the date on which the contract time will commence to run and on which Contractor shall start to perform Contractor's obligations under the Contract Documents.

Partial Completion

Placing a portion of the work in service for the purpose for which it is intended (or a related purpose) before reaching completion of all the work.

Person

Includes firms, companies and corporations.

Project

The total construction which is required by the Contract Documents which may be all of the work or a part as indicated in the Contract Documents.

Schedule of Values

A list of divisions of the total scope of work under the contract made by the Contractor and approved by the County for purposes of progress payments.

Shall

"Shall" or "will", whenever used, is mandatory.

Shop Drawings

All drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for Contractor to illustrate some portion of the work and all product data illustrations, brochures, standard schedules, performance charts, instructions, diagrams, samples, and other information prepared by a supplier and submitted by Contractor to illustrate material or equipment for some portion of the work.

Specifications

Those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the work and certain administrative details applicable thereto.

Standard Specifications

Specifications which are authored and authorized by a particular industry or agency which may be incorporated by reference. Where so incorporated, they are incorporated for use of technical data and specifications only. If there is a conflict between the standard specifications and express terms of this contract, the provisions set forth in the contract shall prevail.

Subcontractor

An individual, firm or corporation having a direct contract with Contractor or with any other subcontractor for the performance of a part of the work at the site.

Substitute

A device, material, equipment, technique or method of construction that differs from that intended or indicated on the Drawings.

Sufficient:

"Sufficient", "necessary", "proper", "acceptable", "satisfactory", "desirable", and words of like import, wherever and in whatever manner used, with or without reference to the County, means sufficient, necessary, proper, acceptable, satisfactory and desirable in the judgment of the County.

Supplementary Conditions

An addition to the Contract Documents which supplements the main Contract.

Underground Facilities

All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials: electricity, gases,

steam, liquid petroleum products, telephone or other communications, cable television, sewage and drainage removal, traffic or other control systems or water.

Unit Price Work

Work to be paid for on the basis of unit prices.

Work

The entire completed construction or the various separately identifiable parts thereof required to be furnished under the Contract Documents. Work is the result of performing services, furnishing labor and furnishing and incorporating materials and equipment into the construction, all as required by the Contract Documents.

Working Day

A working day is any day except Saturdays, Sundays, or legal holidays and days on which the Contractor is specifically required by special provisions, by any labor contract, or by law, to suspend construction operations. Also excepted is any day on which the Contractor is prevented by inclement weather conditions resulting therefrom, or other phenomena of nature from proceeding with at least seventy-five percent (75%) of the normal labor and equipment force for at least five (5) hours toward completion of the current controlling item on the accepted project schedule. Should the conditions prevent the work from beginning at the usual starting time, or prevent the Contractor from proceeding with seventy-five percent (75%) of the normal labor and equipment force for a period of at least five (5) hours, and the crew is dismissed as a result thereof, Contractor will not be charged for a working day whether or not conditions change so that the major portion of the day could be considered to be suitable for work on the controlling item.

ARTICLE II: SCOPE OF WORK

Contractor, at Contractor's own proper costs and expense, shall do all the work and furnish all the materials necessary to construct and/or reconstruct and complete in good workmanlike and substantial manner and to the satisfaction of the County, the following:

Final cover maintenance at ten locations on Landfill Unit 1 performed in accordance with the Plans for Unit I Final Cover Maintenance; the Technical Specifications; and the Construction Quality Assurance (CQA) Plan. Repair areas 1 and 2 require installation of additional geosynthetic clay liner (GCL) by a qualified installer. The existing GCL is to remain in place, and additional GCL is to be added after grade is modified. Repair areas 3 through 10 involve minor augmentation of the vegetative layer to promote drainage. An estimated 270 cubic yards of clean soil (as measured in place) are required to adjust grade at the repair locations. Approximately 220 cubic yards of select soil are to be imported, and the remainder of the soil is to be borrowed from an existing stockpile located on the deck of Landfill Unit 1.

Repair procedures for areas 1 and 2 are summarized below:

1. Remove topsoil layer and vegetative layer to new GCL subgrade. Stockpile topsoil (upper six inches) and vegetative soil separately for reuse.
2. Grade, prepare and compact the subgrade surface with a smooth drum roller to support the new GCL.
3. Prepare existing GCL on the perimeter of the repair area for overlap.
4. Install new GCL over the prepared soil surface and install new well boots.
5. Replace the vegetative layer and topsoil layer and install erosion controls.

Repair procedures for areas 3 through 10 are summarized below:

1. Place and compact additional vegetative layer using select imported soil and install erosion controls.

This scope of work shall be constructed in accordance with this Contract, the Invitation to Bid, the Instruction to Bidders, the Plans and Specifications and Drawings, and all other contract

documents attached hereto and which are incorporated herein by reference and made a part of this Contract as if set forth in full.

ARTICLE III: CONTRACT TIME

Contractor will start work to be performed under this Contract within **7 days** after the Contractor is instructed in writing by County to proceed with the work. Said work shall be diligently prosecuted to completion. All the work shall be completed and ready for acceptance within **66 working days** from the date of the mailing of the Notice to Proceed. When any period of time is referred to in the contract documents 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.

ARTICLE IV: CHANGE OF CONTRACT TIME

Change by Change Order

The contract time may only be changed by change order. A request for an extension or shortening of the contract time shall be based on written notice delivered by the party making the request to County promptly after the occurrence of the event giving rise to the request and stating the general nature of the request. Notice of the extent of the request with supporting data shall be delivered to County and shall be accompanied by the written statement that the adjustment requested is the entire adjustment to which the requesting party has reason to believe it is entitled as a result of the occurrence of said event. No request for an adjustment in the contract time will be valid if not submitted in accordance with the requirements of this paragraph.

Contract Time May Be Extended

The contract time will be extended in an amount equal to time lost due to delays beyond the control of Contractor if the request is made therefor as provided in this Article. Such delays shall include, but not be limited to, acts of neglect by County or others performing additional work, or to fires, floods, labor disputes, epidemics, abnormal weather conditions or acts of God.

Delay and Price Change

All time limits stated in the contract documents are of the essence. There shall be no adjustment of contract price due to delays which are not caused by the County, including but not limited to delays for fires, floods, labor disputes, epidemics, abnormal weather conditions or acts of God and the acts of any other person or entity. The provisions of this Article shall not exclude recovery for damages for delay which is caused by the County.

Delays in Completion of the Work

1. Notice of Delays

Whenever the Contractor foresees any delay in the prosecution of the work, and in any event immediately upon the occurrence of any delay which the Contractor regards as unavoidable, Contractor shall notify County in writing of the probability of the occurrence of such delay and its cause in order that County may take immediate steps to prevent, if possible, the occurrence or continuance of the delay or, if this cannot be done, may determine whether the delay is to be considered avoidable or unavoidable, how long it continues, and to what extent the prosecution and completion of the work are to be delayed thereby. It will be assumed that any and all delays which have occurred in the prosecution and completion of the work have been avoidable delays, except such delays as shall have been called to the attention of County at the time of their occurrence and found by County to have been unavoidable. The Contractor shall make no requests for

extensions of time as to delay not called to the attention of County at the time of its occurrence.

2. Avoidable Delays

Avoidable delays in the prosecution or completion of the work shall include all delays which in the opinion of County would have been avoided by the exercise of care, prudence, foresight and diligence on the part of the Contractor or Contractor's subcontractors.

3. Unavoidable Delays

Unavoidable delays in the prosecution or completion of the work shall include all delays which, in the opinion of County, result from causes beyond the control of the Contractor and which could not have been avoided by the exercise of care, prudence, foresight and diligence on the part of the Contractor or the subcontractors and/or any suppliers. Delay in completion due to contract modifications ordered by County and unforeseeable delays in the completion of work or interference by other contractors employed by County will be considered unavoidable delays insofar as they interfere with the Contractor's completion of the work.

Extension of Time

1. Avoidable Delays

In case the work is not completed in the time specified, including such extensions of time as may have been granted for unavoidable delays, the Contractor will be assessed damages for delay in accordance with the liquidated damages provision. The County, however, shall have the right to grant an extension of time for avoidable delay if it is deemed in County's best interest to do so. During such extension of time, the Contractor will be charged for engineering and inspection services and other costs but will not be assessed damages for the delay.

2. Unavoidable Delays

For delays which County considers to be unavoidable, the Contractor shall, pursuant to Contractor's application, be allowed an extension of time beyond the time herein set forth, proportional to such delay or delays, in which to complete the contract. During such extension of time, neither extra compensation for engineering and inspection provided nor damages for delay will be charged to the Contractor.

Liquidated Damages

County and Contractor recognize that time is of the essence and that County will suffer financial loss if the work is not completed within the time specified above, plus any extensions thereof allowed in accordance with this contract. They also recognize the delays, expense and difficulties involved in proving the actual loss suffered by County if the work is not completed on time. Accordingly, instead of requiring any such proof, and due to impracticality and difficulty of ascertaining exact damages caused by delay, County and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay County of Nevada **\$750.00** for each day that expires after the time specified above for completion. Such damages shall only be payable by Contractor to County if the delay is a result of the failure of Contractor to timely perform on its part and not occasioned by the County or any State or Federal agency. In case of joint responsibility for delay in the final completion of the work, where two or more separate contracts are in force at the same time and cover work at the same site, liquidated damages assessed against any one Contractor will be based upon the individual responsibility of that Contractor for the delay as determined by, and in the judgment of, County. County shall have the right to deduct the liquidated damages from any money in its hands, otherwise due, or to

become due, to Contractor, or to sue for and recover compensation for damages for nonperformance of this contract within the time stipulated. It is acknowledged that the subject contract is a public project which is subject to the provisions of the Public Contracts Code. Accordingly, County has determined and the Contractor acknowledges that the liquidated damages as established herein are governed by the provisions of Government Code Section 53069.85 and are predicated upon the reasonable damages accruing to County stemming from any delay in the completion of this project.

ARTICLE V: CONTRACT PRICE

County shall pay Contractor for performance of the work in accordance with the Contract Documents in current funds as follows:

ARTICLE VI: CHANGE OF CONTRACT PRICE

Contract Price

The contract price constitutes the total compensation (subject to authorized adjustments) payable to Contractor for performing the work. All duties, responsibilities and obligations assigned to or undertaken by Contractor shall be at Contractor's expense without change in the contract price.

Change by Change Order

The contract price may only be changed by a written change order. Any request for an increase or decrease in the contract price shall be based on written notice delivered by the party making the request to the other party prior to the commencement of any extra work. Said request shall state the exact nature of the request.

Data regarding any change shall be delivered by Contractor prior to commencing extra work and shall be accompanied by Contractor's written statement that the amount requested covers all amounts (direct, indirect and consequential) to which the Contractor is entitled as a result of the extra work to be done. If said request is granted, County will issue a written change order therefor. No request for an adjustment in the contract price will be valid if not submitted in advance and in accordance with this paragraph.

Determination of Change in Contract Price

The value of any work covered by a change order or of any request for an increase or decrease in the contract price shall be determined in one of the following ways:

1. Where the work involved is covered by unit prices contained in the contract documents, by application of unit prices to the quantities of the items involved (subject to the provisions regarding unit price work set forth below).
2. By mutual agreement, and if there is no mutual agreement, no. 3 directly below shall apply.
3. On the basis of the cost of the work determined as provided below plus a Contractor's fee for overhead and profit as provided below.

Cost of the Work

The term "cost of the work" means the sum of all costs necessarily incurred and paid by Contractor in the proper performance of the extra work required or permitted under a change order. Except as otherwise may be agreed to in writing by County, such costs shall be in amounts no higher than those prevailing in the locality of the project and shall 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 County and Contractor. Payroll costs for employees not employed full time on the work shall be apportioned on the basis of their time spent on the work. Payroll costs shall include salaries and wages plus the cost of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, sick leave, vacation and holiday pay applicable thereto. Such employees shall include superintendents and foremen at the site. The expenses of performing work after regular working hours, on Saturday, Sunday or legal holidays, shall be included in the above to the extent authorized by County in writing.
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 shall accrue to Contractor unless County deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to County. All trade discounts, rebates and refunds and all returns from sale of surplus materials and equipment shall accrue to County, and Contractor shall make provisions so that they may be obtained.
3. Payments made by Contractor to the subcontractors for work performed by subcontractors. If required by County, Contractor shall obtain competitive bids from subcontractors acceptable to Contractor and shall deliver such bids to County who will then determine which bids will be accepted. If a 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 shall be determined in the same manner as Contractor's cost of the work. All subcontracts shall be subject to the other provisions of the contract documents insofar as applicable.
4. Costs of special consultants (including engineers, architects, testing laboratories, surveyors, and accountants) employed for services specifically, and only, related to the work.
5. Supplemental costs including 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 and hand tools not owned by the workers, 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.
 - c. Rentals of all construction equipment and machinery and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by County, and the costs of transportation, loading, unloading, installation, dismantling and removal thereof, all in accordance with terms of said rental agreements. The rental of any such equipment, machinery or parts shall cease when the use thereof is no longer necessary for the work.
 - d. Sales, consumer, use or similar taxes related to the work, and for which Contractor is liable, 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), not compensated by insurance or otherwise, to the work or otherwise sustained by contractor in connection with the performance and furnishing of the work (except losses and damages within the deductible amounts of property insurance established by County), provided they 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 shall include settlements made with the written consent and approval of County. No such losses, damages and expenses shall be included in the cost of the work for the purpose of determining Contractor's fee. If, however, any such loss or damage requires reconstruction and Contractor is placed in charge thereof, Contractor shall be paid for services a fee proportionate to that stated below under Contractor's fee.
- g. The cost of utilities, fuel and sanitary facilities at the site.
- h. Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the work.
- i. Cost of premiums for additional bonds and insurance required because of changes in the work and premiums for property insurance coverage within the limits of the deductible amounts established by County in this contract.

Not Included in Cost of the Work

The term "cost of the work" shall not include any of the following:

1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnership and sole proprietorships), 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 a branch office for general administration of the work and not specifically included in the agreed upon schedule of job classifications referred to in this contract or specifically covered above under costs of special consultants, all of which are to be considered administrative costs covered by the Contractor's fee.
2. Expenses of Contractor's principal and branch offices other than Contractor's office at the site.
3. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the work and charges against Contractor for delinquent payments.
4. Cost of premiums for all bonds and for all insurance whether or not Contractor is required by the contract documents to purchase and maintain the same (except for the cost of premiums specifically covered above).
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. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included herein.

Contractor's Fee

The Contractor's fee allowed to Contractor for overhead and profit shall be determined by a fee based on the following percentages of the various portions of the cost of the work:

- a. For all allowable costs of the work incurred under the paragraphs dealing with payrolled employees and costs of materials and equipment, the Contractor's fee shall be fifteen percent;
- b. For all allowable costs of the work incurred under the paragraph dealing with work done by subcontractors, the Contractor's fee shall be five percent; and if a subcontract is on the basis of cost of the work plus a fee, the maximum allowable to Contractor on account of overhead and profit of all subcontractors shall be fifteen percent, for a total add-on of twenty percent.
- c. No fee shall be payable on the basis of costs itemized under paragraphs dealing with special consultants, supplemental costs and/or costs not included in cost of the work.
- d. The amount of credit to be allowed by Contractor to County for any such change which results in a net decrease in cost will be the amount of the actual net decrease plus a deduction in Contractor's fee by an amount equal to ten percent of the net decrease; and
- e. When both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with paragraphs 2(a) through 2(d) above.

Cost Breakdown

Whenever the cost of any work is to be determined as set forth herein, Contractor will submit, in form acceptable to County, an itemized cost breakdown together with supporting data.

Cash Allowances

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 done by such subcontractors or suppliers and for such sums within the limit of the allowances as may be acceptable to County. Contractor agrees that:

1. The allowances include the cost to the 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 cost for unloading and handling on the site, labor, installation costs, overhead, profit and other expenses contemplated for the allowances have been included in the contract price and not in the allowances. No demand for additional payment on account of any thereof will be valid.

Prior to final payment, an appropriate change order will be issued to reflect actual amounts due Contractor on account of work covered by allowances, and the contract price shall be correspondingly adjusted.

Unit Price Work

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 established unit prices for each separately identified item of unit price work times the estimated quantity of each item as indicated in the contract documents. 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. Determinations of the actual quantities and classifications of unit price work performed by Contractor will be made by County. 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. Except for items shown on the bid sheet or in the specifications as "contingency" items where no additional amounts will be allowable, where the quantity of any item of unit price work performed by Contractor differs more than 25 percent from the estimated quantity of such item indicated in the contract documents and there is no corresponding adjustment with respect to any other item of work, and if either party believes that it has incurred additional expense or reduced cost as a result thereof, either party may make a claim for an increase or decrease in the contract price if the parties are unable to agree as to the amount of any such increase or decrease.

Final Pay Quantities

When the estimated quantities for a specific portion of the work are designated on the plans as final pay quantities, said estimated quantities shall be the final quantities for which payment for such specific portion of the work will be made, unless the dimensions of said portions of the work shown on the plans are revised by the Engineer. If such dimensions are revised, and such revisions result in an increase or decrease in the quantities of such work, the final quantities for payment will be revised in the amount represented by the changes in the dimensions. The estimated quantities for such specific portion of the work shall be considered as approximate only and no guarantee is made that the quantities which can be determined by computations, based on the details and dimensions shown on the plans, will equal the estimated quantities. No allowance will be made in the event that the quantities based on computations do not equal the estimated quantities.

When portions of an item have been designated on the plans as final pay quantities, portions not so designated will be measured and paid for in accordance with the applicable provisions of these specifications and the special provisions.

In case of a discrepancy between the quantities shown on the plans as final pay quantities and the quantity of the same item shown in the Engineer's Estimate, payment will be based on the final pay quantities shown on the plans.

ARTICLE VII: PAYMENTS TO CONTRACTOR

Source of Funds

The source of funding by the County for this work shall be: **4117-91001-705-1000 / 537500**

Schedule of Values

The schedule of values established for the work will serve as the basis for progress payments and will be incorporated into a form of application for payment acceptable to County. Progress payments on account of unit price work will be based on the number of units completed.

Invoices

Invoices or applications for payment to the County shall be detailed and shall contain full documentation of all work performed and all reimbursable expenses incurred. Where the scope of work on the contract is divided into various tasks, invoices shall detail the related expenditures accordingly. Labor expenditures need documentation to support time, subsistence, travel and field expenses. No expense will be reimbursed without adequate documentation. This documentation will include, but not be limited to, receipts for material purchases, rental equipment and subcontractor work.

Progress Payment

Once each month County shall cause an estimate to be made covering the work completed as of the date of the estimate. No materials shall be paid for until incorporated into the work. If, however, County reaches an agreement with Contractor to pay for materials and equipment not

yet incorporated into the work due to some special circumstances, then Contractor must show that the materials or equipment were delivered and are suitably stored at the site or at another location agreed to in writing. In that event, the payment shall be based on a bill of sale, invoice or other documentation submitted by Contractor and warranting that County has received the materials and equipment free and clear of all liens, charges, security* interests and encumbrances (which are hereinafter referred to as "liens") and evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect County's interest therein, all of which will be satisfactory to County. The amount of retention with respect to progress payments will be five percent (5%).

Amounts of Progress Payments

Prior to completion, progress payments will be in an amount equal to:

1. Ninety five percent (95%) of the work completed, and
2. Where applicable pursuant to the above, ninety percent (95%) of materials and equipment not incorporated in the work but delivered and suitably stored, less in each case the aggregate of payments previously made.
3. Thirty-five days after recording of the Notice of Completion but not later than 60 days after completion of the work as defined in Public Contract Code section 7107, and upon Contractor providing all required documentation, County will pay an amount sufficient to increase total payments to Contractor to one hundred percent (100%) of the contract price, less such amounts as County shall determine in accordance with this contract. County reserves the right to retain such funds as it shall determine in accordance with the contract documents to complete the work.
4. The Contractor may elect to receive 100% of payments due under this contract from time to time, without retention of any portion of the payment by the public agency, by depositing securities of equivalent value with County in accordance with the provisions of Section 22300 of the California Public Contract Code; except that no such substitution shall be allowed where federal money is funding the project and federal regulations or policies would prohibit such substitution of securities for the retention. Securities eligible for investment shall include those listed in Section 16430 of the California Government Code, or bank or savings and loan certificates of deposits. Such securities, if deposited by the bidder, shall be valued by County whose decision on the valuation of the securities shall be final. The bidder shall be the beneficial owner of any securities substituted for money withheld and shall receive any interest thereon.

Contractor's Warranty of Title

Contractor warrants and guarantees that title to all work, materials and equipment covered by any application for payment, whether incorporated in the project or not, will pass to County no later than the time of payment free and clear of all liens.

Payment of Progress Payment

County will submit each progress pay estimate to Contractor. Upon receipt back from Contractor of a signed copy of the pay estimate, County shall process the pay estimate for payment. The amount approved by County will become due thirty (30) days after receipt of the signed progress pay estimate. Said payment shall be made by County to Contractor unless County has knowledge of claims or liens filed in connection with the work.

Pursuant to Public Contract Code Section 20104.50, if the County fails to make any progress payment within thirty (30) days after receipt of an undisputed and properly submitted payment request it shall pay interest to Contractor at the legal rate set forth in subdivision (a) of Section 685.010 of the Code of Civil Procedure. "Progress payment" for purposes of this paragraph includes all payments due Contractor except that portion of the final payment designated by the contract as retention earnings.

Also, pursuant to Public Contract Code Section 20104.50, each payment request shall be reviewed by County as soon 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 Contractor as soon as practicable, but not later than seven (7) 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. The number of days available to County to make a payment without incurring interest pursuant to Public Contract Code Section 20104.50 shall be reduced by the number of days by which County exceeds the seven (7) day return requirement. 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 County.

County's Recommendation of Payment

By County's recommending any payment, Contractor cannot conclude that County represents that exhaustive or continuous on-site inspections have been made to check the quality or the quantity of the work in the contract documents or that there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by County or County to withhold payment to Contractor.

County May Refuse to Make Payment

County may refuse to make payment of the full amount or any part if, in County's opinion, it would be incorrect to make such payment. County may also refuse to make any such payment or, because of subsequently discovered evidence or the results of subsequent inspections or tests, nullify any such payment previously recommended, to such extent as may be necessary in County's opinion to protect County from loss because:

1. The work is defective, or completed work has been damaged requiring correction or replacement,
2. The contract price has been reduced by written amendment or change order,
3. Contractor has been required to correct defective work or complete work, or
4. Of County's actual knowledge of the occurrence of any of the events enumerated in paragraphs relating to suspension of work and termination.

County may refuse to make payment of the full amount because claims have been made against County on account of Contractor's performance or furnishing of the work or liens have been filed in connection with the work or there are other items entitling County to a set-off against the amount recommended, but County must give Contractor immediate written notice stating the reasons for such action.

Completion and Final Inspection

When Contractor considers the entire work ready for its intended use, Contractor shall notify County in writing that the entire work is completed. Within a reasonable time thereafter, County and Contractor shall make an inspection of the work to determine the status of completion. If County does not consider the work complete, County will notify Contractor in writing giving the reasons therefor. If County considers the work incomplete, County will prepare and deliver a list of items to be completed or corrected before final payment. Contractor shall immediately take such measures as are necessary to complete or correct the listed items.

Acceptance and Final Application for Payment

After Contractor has completed all such measures to remedy deficiencies to the satisfaction of County and delivered all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, marked-up record documents, property owner's releases and other documents, all as required by the contract documents, and after County has indicated

that the work is acceptable, Contractor may make application for final payment. The final application for payment shall be accompanied by all documentation called for in the contract documents, together with complete and legally effective receipts, releases or waivers (satisfactory to County) from all subcontractors or material suppliers and an affidavit of Contractor that the releases and receipts include all labor, services, material and equipment for which a lien could be filed, and that all payrolls, material and equipment bills, and other indebtedness connected with the work for which County or County's property might in any way be responsible, have been paid or otherwise satisfied; and consent of the surety, if any, to final payment. If any subcontractor or supplier fails to furnish a release or receipt in full, or if a stop notice has been filed, Contractor may furnish a bond or other collateral satisfactory to County to indemnify County against any lien.

Final Payment

If, on the basis of County's review of the final application for payment and accompanying documentation, all as required by the contract documents, County is satisfied that Contractor's obligations under the contract documents have been fulfilled, County will, within seven (7) days after receipt of the final application for payment, process the application for payment. Otherwise, County will return the application to Contractor, indicating in writing the reasons for refusing to make final payment, in which case Contractor shall make the necessary corrections and resubmit the application. Thirty-five days after presentation to County of the application and accompanying documentation, in appropriate form and substance, but no later than 60 days after completion of the project as defined in Public Contract Code Section 7107, or thirty-five (35) days after recording of a Notice of Completion, whichever date is later, the full retention will become due and will be paid by County to Contractor.

Delay in Completion Through No Fault of Contractor

If, through no fault of Contractor, final completion of the work is significantly delayed and if County so confirms, County shall, upon receipt of Contractor's final application for payment, and without terminating the Contract, make payment of the balance due for that portion of the work fully completed and accepted. If the remaining balance to be held by County for work not fully completed or corrected is less than the retainage stipulated in the contract, and if the appropriate bonds have been furnished, the written consent of the surety to the payment of the balance due for that portion of the work fully completed and accepted shall be submitted by Contractor to County with the application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

Contractor's Continuing Obligation

Contractor's obligation to perform and complete the work in accordance with the contract documents shall be absolute. Neither the issuance of a certificate of substantial completion, nor any payment by County to Contractor under the contract documents, nor any use or occupancy of the work or any part thereof by County, nor any act of acceptance by County nor any failure to do so, nor any review and approval of a shop drawing or sample submission, nor the issuance of a notice of acceptability, nor any correction of defective work by County will constitute an acceptance of work not in accordance with the contract documents or a release of Contractor's obligation to perform the work in accordance with the contract documents.

Waiver of Claims

The making and acceptance of final payment will constitute:

1. A waiver of all claims by County against Contractor, except claims arising from unsettled liens, or from defective work appearing after final inspection or from failure to comply with the contract documents or the terms of any special guarantees specified therein, or from any outstanding claims; however, it will not constitute a waiver by County of any

- rights in respect of Contractor's continuing obligations under the contract documents;
and
2. A waiver of all claims by Contractor against County other than those previously made in writing and still unsettled.

Books of Account and Audit Provision

Contractor shall maintain on a current basis complete books and records relating to this contract. Such records shall include, but not be limited to, documents supporting all bids, all income and all expenditures. The books and records shall be original entry books with a general ledger itemizing all debits and credits for the work on this contract. In addition, Contractor shall maintain detailed payroll records including all subsistence, travel and field expenses, and canceled checks, receipts and invoices for all items. These documents and records shall be retained for at least five years from the completion of this contract. Contractor will permit County to audit all books, accounts or records relating to this contract or all books, accounts or records of any business entities controlled by Contractor who participated in this contract in any way. Any audit may be conducted on Contractor's premises or, at County's option, Contractor shall provide all books and records within a maximum of fifteen (15) days upon receipt of written notice from County. Contractor shall refund any moneys erroneously charged. If County ascertains that it has been billed erroneously by Contractor for an amount equaling 5% or more of the original bid, Contractor shall be liable for the costs of the audit in addition to any other penalty to be imposed.

ARTICLE VIII: PRELIMINARY MATTERS

Delivery of Certificates of Insurance

Before any work at the site is started, Contractor shall deliver to County certificates (and other evidence of insurance requested by County) which Contractor is required to purchase and maintain in accordance with the insurance provisions herein.

Delivery of Bonds

When Contractor delivers the executed Agreements to County, Contractor shall also deliver to County the bonds required herein. Notwithstanding the language in bonds authorizing attorneys' fees to be awarded if suit is brought upon the bond, no attorneys' fees shall be payable for any other suit brought under this contract.

Pre-construction Conference

Within **5 days** after receipt of the notice to proceed, but before contractor starts the work at the site, a conference attended by Contractor and County and others as appropriate will be held to discuss schedules, procedures for handling shop drawings and other submittals and for processing applications for payment, and to establish a working understanding among the parties as to the work.

Delivery of Schedules

Within **5 days** after receipt of written notice to proceed, Contractor shall submit to County for review:

1. An estimated progress schedule indicating the starting and completion dates of the various stages of the work;
2. A preliminary schedule of shop drawing submissions;
3. A preliminary schedule of product deliveries;
4. A preliminary schedule of values for all of the work which will include quantities and prices of items aggregating the contract price and will subdivide the work into component parts in sufficient detail to serve as the basis for progress payments during

construction. Such prices will include an appropriate amount of overhead and profit applicable to each item of work which will be confirmed in writing by Contractor at the time of submission.

Finalizing Schedules

At least ten days before submission of the first application for payment a conference attended by Contractor, County and others as appropriate will be held to finalize schedules. The finalized progress schedule will be acceptable to County as providing an orderly progression of the work to completion within the contract time, but such acceptance will neither impose on County responsibility for the progress or scheduling of the work nor relieve Contractor from full responsibility therefor. The finalized schedule of shop drawing submissions will be acceptable to County as providing a workable arrangement for processing the submissions. The finalized schedule of values will be acceptable to County as to form and substance.

Before Starting Construction

Contractor shall provide County with at least 72 hours written notice of the date on which it intends to commence work. Before undertaking each and every part of the work, Contractor shall carefully study and compare the contract documents and check and verify pertinent figures shown thereon and all applicable field measurements. Contractor shall promptly report in writing to County any conflict, error or discrepancy which Contractor may discover and shall obtain a written interpretation or clarification from County before proceeding with any work affected thereby; however, Contractor shall not be liable to County for failure to report any conflict, error or discrepancy in the contract documents, unless Contractor had actual knowledge thereof or should reasonably have known thereof.

Contractor's Representations

In order to induce County to enter into this agreement, Contractor makes the following representations:

1. Contractor has familiarized himself or herself with the nature and extent of the contract documents, work, locality, and with all local conditions and federal, state and local laws, ordinances, rules and regulations that in any manner may affect cost, progress or performance of the work.
2. Contractor has studied carefully all reports of investigations and tests of subsurface and latent physical conditions at the site or otherwise affecting cost, progress or performance of the work which were relied upon by County in the preparation of the drawings and specifications and which have been identified in the contract documents.
3. Contractor has made or caused to be made examinations, investigations, and tests and studies of such reports and related data necessary for the performance of the work at the contract price, within the contract time and in accordance with the other terms and conditions of the contract documents; and no additional examinations, investigations, tests, reports or similar data are or will be required by Contractor for such purposes.
4. Contractor has correlated the results of all such observations, examinations, investigations, tests, reports and data with the terms and conditions of the contract documents.
5. Contractor has given County written notice of all conflicts, errors or discrepancies that have been discovered in the contract documents and the written resolution thereof by County is acceptable to Contractor.

ARTICLE IX: CHANGES IN THE WORK

County May Order Changes

Without invalidating this contract and without notice to any surety, County may, at any time or from time to time, order additions, deletions or revisions in the work; these will be authorized by change order. Upon receipt of any such document, Contractor shall promptly forward any

request for change in the contract price and, if instructed to do so, proceed with the work involved which will be performed under the applicable conditions of the contract documents (except as otherwise specifically provided).

Failure to Agree to a Price or Time Change; Claims

If County and Contractor are unable to agree as to the extent, if any, of an increase or decrease in the contract price or an extension or shortening of the contract time that should be allowed, a claim may be made therefor but the work shall proceed if County so instructs.

No Change in Time or Price for Work Not Required

Contractor shall not be entitled to an increase in the contract price or an extension of the contract time with respect to any work performed that is not required by the contract documents as amended, modified and supplemented except in the case of an emergency as set forth herein and except in the case of uncovering work for inspection or testing as set forth in this contract.

Changes in Time or Price

County and Contractor shall execute appropriate change orders (or written amendments) covering:

1. Changes in the work which are ordered by County or are agreed to by the parties;
2. Changes in the contract price or contract time which are agreed to by the parties; and
3. Changes in the contract price or contract time which embody the substance of any written decision rendered by County in response to a request therefor.

Notice to Sureties

If notice 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 time) is required by the provisions of any bond to be given to a surety, the giving of any such notice will be Contractor's responsibility, and the amount of each applicable bond will be adjusted accordingly. Failure to give such notice shall not release the surety from its obligations to County.

ARTICLE X: CONTRACT DOCUMENTS

Intent

The contract documents comprise the entire agreement between County and Contractor concerning the work. The contract documents are complementary; what is called for by one is as binding as if called for by all. The contract documents will be construed in accordance with California law.

Contract Interpretation

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. Any work, materials or equipment that may reasonably be inferred from the contract documents as being required to produce the intended results will be supplied whether or not specifically called for. When words which have a well-known technical or trade meaning are used to describe work, materials or equipment, such words shall be interpreted in accordance with that meaning. Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code or laws or regulations in effect at the time of opening of bids, except as may be otherwise specifically stated. However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the contract documents) shall be

effective to change the duties and responsibilities of County or Contractor, or any of their consultants, agents or employees from those set forth in the contract documents, nor shall it be effective to assign to County, or any of County's consultants, agents or employees, any duty or authority to supervise or direct the furnishing or performance of the work or any duty or authority to undertake responsibility contrary to the provisions of this contract. Clarifications and interpretations of the contract documents shall be issued by County.

Conflicts, Errors and Discrepancies

If during the performance of the work, Contractor finds a conflict, error or discrepancy in the contract documents, Contractor shall so report to County in writing at once and before proceeding with the work affected thereby shall obtain a written interpretation or clarification from County.

Amending Contract Documents

The contract documents may be amended to provide for additions, deletions and revisions in the work or to modify the terms and conditions thereof by change order. Contract price and contract time may only be changed by change order.

Supplementary Contract Documents

In addition to the above, the requirements of the contract documents may be supplemented, and minor variations and deviations in the work may be authorized in one or more of the following ways:

1. A field order,
2. County's approval of a shop drawing or sample, or
3. County's written interpretation or clarification.

Reuse of Documents

Neither contractor nor any subcontractor or supplier or other person or organization performing or furnishing any of the work under a direct or indirect contract with County shall 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 County; and they shall not reuse any of them on extensions of the project or any other project without written consent of County and specific written verification or adaptation by County.

Contract Documents

The contract documents comprise the entire agreement between the parties and may be amended only by writing signed by both parties or by written change order. The contract documents shall include this contract, any general and special conditions, plans and specifications, bidding documents and addenda thereto, and all proposals submitted by Contractor. In the case of ambiguity or conflict, the documents shall be given the following priority:

1. Special provisions or conditions
2. Standard Public Works Contract
3. Project plans
4. Standard plans
5. Standard specifications
6. All other documents incorporated by reference.

ARTICLE XI: THE PROJECT SITE

Availability of Lands

- County shall furnish, as indicated in the contract documents, the lands upon which the work is to be performed, rights-of-way and easements for access thereto, and such other lands which are designated for the use of Contractor. Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by County, unless otherwise provided in the contract documents. If Contractor believes that any delay in County's furnishing these lands, rights-of-way or easements entitles Contractor to an extension of the contract time, Contractor may make a claim therefor as provided for herein. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

Physical Conditions

If the contract documents identify those reports of explorations and tests of subsurface conditions at the site that have been utilized by County in preparation of the contract documents, Contractor may rely upon the accuracy of the factual data contained in such reports but not upon interpretations or opinions contained therein or for the completeness or representativeness thereof for Contractor's purposes. If construction drawings of physical conditions in or relating to existing surface and subsurface structures (except underground facilities discussed below) at or contiguous to the site have been utilized by County in preparation of the contract documents, Contractor may rely upon the accuracy of the factual data contained in such drawings but not the completeness thereof for Contractor's purposes. If Contractor believes that any factual data on which Contractor is entitled to rely is inaccurate, or any physical condition uncovered or revealed at the site differs materially from that indicated, reflected or referred to in the contract documents, Contractor shall, promptly after becoming aware thereof and before performing any work in connection therewith (except in an emergency as permitted herein), notify County in writing about the inaccuracy or difference. Failure to notify County promptly shall relieve County of any liability for any and all claims resulting from such inaccuracy or difference.

County's Review

County will review the pertinent conditions, determine the necessity of obtaining additional explorations or tests with respect thereto and advise Contractor in writing of County's findings and conclusions.

Possible Document Change

If County concludes that there is a material error in the contract documents or that because of newly discovered conditions a change in the contract documents is required, a change order will be issued in writing as provided to reflect and document the consequences of the inaccuracy or difference.

Possible Price and Time Adjustments

In each case of inaccuracy or difference, an increase or decrease in the contract price or an extension or shortening of the contract time, or any combination thereof, will be allowable to the extent that they are attributable to any such inaccuracy or difference. If County and Contractor are unable to agree as to the amount or length thereof, a claim may be made therefor as provided in the contract documents.

Physical Conditions - Underground Facilities

The information and data shown or indicated in the contract documents with respect to existing underground facilities at or contiguous to the site is based on information and data furnished to

County by the owners of such underground facilities or by others. Generally service connections are not indicated on drawings. Unless it is otherwise expressly provided:

1. County shall not be responsible for the accuracy or completeness of any such information or data; and,
2. Contractor shall have full responsibility for reviewing and checking all such information and data, for locating all underground facilities shown or indicated in the contract documents, for coordination of the work with the owners of such underground facilities during construction, for the safety and protection thereof, and repairing any damage thereto resulting from the work, the cost of all of which will be considered as having been included in the contract price.
3. If an underground facility is uncovered or revealed at or contiguous to the site which was not shown or indicated in the contract documents and which Contractor could not reasonably have been expected to be aware of, Contractor shall, promptly after becoming aware thereof and before performing any work affected thereby (except in an emergency as permitted by this contract), identify the owner of such underground facility and give written notice thereof to that owner and to County. County will review the underground facility to determine the extent to which the contract documents should be modified to reflect and document the consequences of the existence of the underground facility, and the contract documents will be amended or supplemented to the extent necessary. During such time, Contractor shall be responsible for the safety and protection of such underground facility as provided herein. Contractor shall be allowed an increase in the contract price or an extension of the contract time, or both, to the extent that they are attributable to the existence of any underground facility that was not shown or indicated in the contract documents and which Contractor could not reasonably have been expected to be aware of and will not be assessed liquidated damages pursuant to Government Code Section 4215. If the parties are unable to agree as to the amount or length thereof, Contractor may make a claim therefor as provided in these contract documents.

Preservation of Property

Due care shall be exercised to avoid injury to existing highway improvements or facilities, utility facilities, adjacent property, and roadside trees, shrubs, and other plants that are not to be removed. Roadside trees, shrubs, and other plants that are not to be removed, and pole lines, fences, signs, markers and monuments, buildings and structures, conduits, pipelines under or above ground, sewer and water lines, all highway facilities and any other improvements or facilities within or adjacent to the project shall be protected from injury or damage, and if ordered by County, the Contractor shall provide and install suitable safeguards, approved by County, to protect such objects from injury or damage. If such objects are injured or damaged by reason of the Contractor's operations, they shall be replaced or restored at the Contractor's expense. The facilities shall be replaced or restored to a condition as good as when the Contractor entered upon the work, or as good as required by the specifications accompanying the contract, if any such objects are a part of the work being performed under the contract. County may make or cause to be made such temporary repairs as are necessary to restore to service any damaged facility. The cost of such repairs shall be borne by the Contractor and may be deducted from any moneys due or to become due to the Contractor under the contract. Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in protecting or repairing property, shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefor.

Reference Points

County shall establish one or more horizontal and vertical reference points for construction which in County's judgment are necessary to enable Contractor to proceed with the work or as provided in the contract documents. County shall set any other stakes or marks which it deems necessary to establish the lines and grades required for the completion of the work unless the special provisions require that the Contractor is responsible for laying out the work. Contractor

shall notify the County when Contractor requires staking, in writing a reasonable time in advance of such requirement. In no event shall Contractor give less than two working days notice of such requirement. Contractor shall protect and preserve the established reference points, stakes and marks and shall make no changes or relocations without the prior written approval of County. Contractor shall report to County whenever any reference point, stake or mark is lost or destroyed or requires relocation because of necessary changes in grades or locations. Contractor will be charged for the cost of relocation or replacement if the need therefor arises due to Contractor's acts.

Power

The Contractor shall provide, at no additional cost to the County, all construction power used at the project site and shall make all arrangements with the electrical utility and with the County for power takeoff points, voltage and phasing requirements, transformers, and metering and shall pay all costs and fees arising therefrom. It shall be the Contractor's responsibility to provide all special connections required for the work.

Water

The Contractor shall provide the water needed for the work, including potable water, construction water, and water for testing purposes.

Sanitary Facilities

The Contractor shall make arrangements for use of adequate toilet facilities at or near the site of work. Such facilities shall be subject to the acceptance of the County as to location and type. The Contractor shall maintain the sanitary facilities in acceptable condition from the beginning of the work until completion and shall remove the facilities and disinfect the premises.

Contractor's Office

The Contractor shall maintain on the project site a suitable office or other protected area in which shall be kept project copies of the contract documents, project progress records, etc. which shall be accessible to County during normal working hours.

ARTICLE XII: LABOR, MATERIAL AND PERFORMANCE BONDS

Bonds to be Provided

The Contractor shall furnish two bonds each in the amount of one hundred (100%) percent of the contract price, one as security for the faithful performance of the work, and the other as security for the faithful payment and satisfaction of all persons furnishing materials and performing labor for the project. The bonds shall be issued by a corporation duly and legally licensed to transact surety business in the State of California. The labor and materials bond shall remain in force throughout the period required to complete the work and for 35 days after the recording of the Notice of Completion. The performance bond shall remain in force for a period of 365 days after final acceptance of the work to cover any defects in workmanship, materials, or equipment which develop in that time. The bonds must be executed by a duly licensed surety company and accompanied by a certified copy of the authority to act. The scope of the bonds or the forms thereof shall in no way affect or alter the liabilities of the Contractor to County. Bonds shall be executed on the forms included in the contract documents.

Insolvency or Termination of Right to Do Business

If the surety on any bond furnished by Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in California, Contractor shall within five days thereafter substitute another bond and surety, both of which must be acceptable to County. If an acceptable substitute is not furnished within five days, County may terminate Contractor.

ARTICLE XIII: CONTRACTOR LIABILITY AND INSURANCE

Liability of Contractor

The Contractor shall be liable for all damages and injury which shall be caused to County or any other owners of property on or in the vicinity of the work or which shall occur to any person or persons or property whatsoever arising out of the performance of this contract. Contractor agrees to hold County harmless and indemnify County for any such losses.

Contractor's Liability Insurance

Contractor shall purchase and maintain commercial general liability and other insurance as is appropriate for the work being performed and furnished and as will provide protection from claims set forth below which may arise out of or result from Contractor's performance and furnishing of the work and Contractor's other obligations under the contract documents, whether it is to be performed or furnished by Contractor, by any subcontractor, by anyone directly or indirectly employed by any of them to perform or furnish any of the work, or by anyone for whose acts any of them may be liable:

1. Claims under workers' disability benefits and other similar employee benefit acts;
2. Claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;
3. Claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;
4. Claims for damages insured by personal injury liability coverage which are sustained (a) by any person as a result of an offense directly or indirectly related to the employment of such person by Contractor, or (b) by any other person for any other reason;
5. Claims for damages, other than to the work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom;
6. Claims arising out of operation of laws or regulations for damages because of bodily injury or death of any person or for damage to property; and
7. Claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

To the extent that Contractor's work, or work under Contractor's direction, may require blasting, explosive conditions, or underground operations, the comprehensive general liability coverage shall contain no exclusion relative to blasting, explosion, collapse of buildings, or damage to underground property.

The insurance required by this paragraph shall be "per occurrence" coverage and shall include the specific coverages and be written for not less than the limits of liability and coverages provided herein, or required by law, whichever is greater. The commercial general liability insurance shall include completed operations insurance. All such insurance shall remain in effect until final payment and at all times thereafter when Contractor may be correcting, removing or replacing defective work. In addition, Contractor shall maintain such completed operations insurance for at least one year after final payment and furnish County with evidence of continuation of such insurance at final payment. If Contractor's insurance is canceled prior to completion of the project and the Contractor does not furnish a new Certificate of Insurance prior to cancellation, County may obtain the required insurance and deduct the premium from contract moneys due the Contractor.

At the option of Contractor, evidence of coverage and limits may be furnished by an umbrella liability policy certificate in addition to certificates for worker's compensation and employer's liability, and comprehensive automobile and general liability policies.

Contractual Liability Insurance

The commercial general liability insurance required above will include contractual liability insurance applicable to Contractor's obligations hereunder.

Schedule of Required Insurance

1. Worker's Compensation Insurance: Statutory amount and employer's liability of **\$1,000,000.**
2. Contractor's Commercial General Liability Insurance (bodily injury, property damage and including contractual liability insurance, completed operations and products liability insurance): **\$1,000,000.**
3. Comprehensive Business or Commercial Automobile Liability Coverage (bodily injury liability, property damage liability, uninsured motorist protection and including non-owned and hired automobile liability): **\$1,000,000.**

Nevada County shall be named as additional insured on all insurance policies. Contractor shall provide proof of insurance required in this contract evidenced by certificates of insurance and endorsements.

Notice Requirement

All the policies of insurance (or the certificates or other evidence thereof) required to be purchased and maintained by the Contractor shall contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused until at least ten (10) days prior written notice has been given to County by registered mail.

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be fully disclosed by Contractor and approved by County prior to commencement of work. At County's option, the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects County, its officials and employees, or Contractor shall provide a bond guaranteeing payment of losses and related investigations, claims administration and defense expenses.

Risk of Loss

Liability for loss or damage to equipment, materials, workmanship or services occurring on or off the site shall be the responsibility of the Contractor. Liability for completed work shall not be assumed by County until both the work has been completed and County has accepted the work as complete. County will not be responsible for purchasing and maintaining any property insurance to protect the interests of Contractor, subcontractors or others in the work. The risk of loss will be borne by Contractor, subcontractor or others suffering any such loss and if any of them wishes property insurance coverage in addition to insurance required herein, each may purchase and maintain it at the purchaser's own expense.

Waiver of Rights

Contractor waives all rights against County and its agents for all losses and damages caused by any of the perils covered by the policies of insurance provided for above and any other property insurance applicable to the work, and all other parties named as insureds in such policies for losses and damages so caused. Each subcontract between Contractor and a subcontractor will contain similar waiver provisions by the subcontractor in favor of County and its agents and all other parties named as insureds. None of the above waivers shall extend to the rights that any of the insured parties may have to the proceeds of insurance held by County as trustee or otherwise payable under any policy so issued.

No Right of Recovery

County and Contractor intend that any policies provided as set forth herein shall protect all of the parties insured and provide primary coverage for all losses and damages caused by the perils covered thereby. Any insurance or self-insurance maintained by County shall be in excess of Contractor's insurance and shall not contribute to it.

Receipt and Application of Proceeds

Any insured loss under the policies of insurance required herein will be adjusted with County and made payable to County as trustee for the insureds, as their interests may appear, subject to the requirements of any applicable mortgage clause. County shall deposit in a separate account any money so received, and shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged work shall be repaired or replaced, the moneys so received applied on account thereof and the work and the cost thereof covered by an appropriate change order or written amendment.

County's Duties as Trustee

County as trustee shall have power to adjust and settle any loss with the insurers.

Acceptance of Insurance

If County has any objection to the coverage afforded by or other provisions of the insurance required to be purchased and maintained by Contractor on the basis of its not complying with the contract documents, County shall notify Contractor in writing thereof and Contractor shall immediately provide proof of the proper coverage. Contractor shall provide to County such additional information in respect of insurance provided by it as County may reasonably request. County may at its option waive any type of insurance required herein which County in its discretion deems to be inapplicable to the type of project being constructed. Any such waiver shall be in writing by the County Administrator.

Verification of Coverage

Contractor shall furnish County with certificates of insurance and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be on forms provided by County and are to be received and approved by County before work commences.

Subcontractors

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

ARTICLE XIV: MATERIALS AND EQUIPMENT

Material and Equipment

Unless otherwise specified, Contractor shall furnish and assume full responsibility and risk of loss for all 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 furnishing, performance, testing, start-up and completion of the work.

Quality of Materials and Equipment

All materials and equipment shall be of good quality and new, except as otherwise provided in the contract documents. If required by County, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment. Contractor may be required to show that materials and/or equipment will be available in sufficient quantity or time so as to assure top quality performance of the contract. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable supplier except as otherwise provided in the contract documents; but no provision of any such instructions will be effective to assign to County, or any of County's consultants, agents or employees, any duty or authority to supervise

or direct the furnishing or performance of the work or any duty or authority to undertake responsibility contrary to the provisions of this contract.

Storage of Materials and Equipment

Materials and equipment shall be stored where specified by County and so as to insure the preservation of their quality and fitness for the work. Stored equipment and materials shall be located so as to facilitate inspection. The Contractor shall be responsible for all damages that occur to materials and equipment until the completion and final acceptance of the work by the County.

Substitute Items

Whenever materials or equipment are specified or described in the contract documents by using the name of a proprietary item or the name of a particular supplier the naming of the item is intended to establish the type, function and quality required. Unless the name is followed by words indicating that no substitution is permitted, materials or equipment of other suppliers may be accepted by County if sufficient information is submitted in advance by Contractor to allow County to determine that the material or equipment proposed is equivalent or equal to that named.

The procedure for review by County will include the following: requirements for review of substitute items of material and equipment or modification or alteration of the design of any material or equipment or portion of the work will not be accepted by County from anyone other than Contractor. If Contractor wishes to furnish or use a substitute item of material or equipment or modification or alteration of the design of any material or equipment or portion of the work, Contractor shall make written application to County for acceptance thereof, certifying that the proposed substitute or modification or alteration will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. The application will state that the evaluation and acceptance of the proposed substitute will not prejudice Contractor's achievement of completion on time, whether or not acceptance of the substitute or design modification or alteration for use in the work will require a change in any of the contract documents (or in the provisions of any other direct contract with County for work on the project) to adapt the design to the proposed substitute or design modification or alteration and whether or not incorporation or use of the substitute in connection with the work is subject to payment of any license fee or royalty. All variations of the proposed substitute or design modification or alteration from that specified will be identified in the application and available maintenance, repair and replacement service will be indicated, where necessary. The application will also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute or design modification or alteration, including costs of redesign and claims of other contractors affected by the resulting change, all of which shall be considered by County in evaluating the proposed substitute or design modification or alteration. County may require Contractor to furnish at Contractor's expense additional data about the proposed substitute or design modification or alteration. County will be allowed a reasonable time within which to evaluate each proposed substitute or design modification or alteration. County will be the sole judge of acceptability, and no substitute or design modification or alteration will be ordered, installed or utilized without County's prior written acceptance which will be evidenced by either a change order or an accepted shop drawing. County may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute or design modification or alteration. Contractor shall pay all costs for redesign required by the implementation of the proposed substitute.

Operating and Maintenance Instructions and Manufacturer's Warranties

Before receiving payment for more than 60 percent of the purchase value of any equipment and prior to installation of said equipment, the Contractor shall deliver to County acceptable manufacturer's operating and maintenance instructions covering each item of equipment assembly provided under this contract and each and every warranty provided by the

manufacturer. Manufacturers' standard brochures or manuals will be modified to reflect only that model or series of equipment installed on this project. All extraneous material will be crossed out or otherwise altered as acceptable to County.

The operating and maintenance instructions shall include, as a minimum, the following data for each item of mechanical, electrical, and instrumentation equipment:

1. An itemized list of all data provided.
2. Name and location of the manufacturer, the manufacturer's local representative, the nearest supplier and spare parts warehouse.
3. Accepted submittal information applicable to operation and maintenance.
4. Recommended installation, adjustment, start up, calibration, and troubleshooting procedures.
5. Recommended lubrication and an estimate of yearly quantity needed.
6. Recommended step-by-step procedures for all modes of operation.
7. Complete internal and connection wiring diagrams.
8. Recommended preventive maintenance procedures and schedule.
9. Complete parts lists, by generic title and identification number, with exploded view of each assembly.
10. Recommended spare parts.
11. Disassembly, overhaul, and re-assembly instructions.
12. Complete, as applicable, operating and maintenance instructions, transmittal forms and summary sheets.
13. Nameplate data for all equipment supplied, including make, model and serial numbers, type and motor data together with designation and location of equipment.

Before final acceptance of the project, the Contractor shall bind all of the above in an appropriately labeled binder. Each completed binder shall contain only that material which can be held in a non-expanded position. A complete table of contents listing all items and their location in the set shall be included in each binder. For ready reference, the Contractor shall compile a complete list of manufacturer's local representatives for each item provided. In addition to withholding payment where Contractor fails to provide County with manufacturer's warranties, Contractor shall also be deemed to have personally warranted the equipment to the same extent as the manufacturer's warranty on the equipment.

Patent Fees and Royalties

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 a particular 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 County 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 shall be disclosed by County in the contract documents. Contractor shall indemnify and hold harmless County and anyone directly or indirectly employed by either of them from and against all claims, damages, losses and expenses (including attorneys' fees and court and arbitration costs) arising out of 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, and shall defend all such claims in connection with any alleged infringement of such rights.

Contractor's Equipment

The Contractor shall identify each piece of Contractor's equipment, other than hand tools, by means of an identifying number plainly stenciled or stamped on the equipment at a conspicuous location, and shall furnish to County a list giving the description of each piece of equipment and its identifying number. In addition, the make, model number and empty gross weight of each

unit of compacting equipment shall be plainly stamped or stenciled in a conspicuous place on the unit. The gross weight shall be either the manufacturer's rated weight or the scale weight.

The make, model, serial number and manufacturer's rated capacity for each scale shall be clearly stamped or stenciled on the load receiving element and its indicator or indicators. All meters shall be similarly identified, rated and marked. Upon request of County, the Contractor shall furnish a statement by the manufacturer, designating sectional and weighbridge capacities of portable vehicle scales.

ARTICLE XV: PLANS AND SPECIFICATIONS

Interpretation of Plans, Specifications and Drawings

The plans, specifications and the drawings are intended to be explanatory of each other. Any work indicated on the drawings and not in the plans or specifications, or vice versa, shall be executed as if indicated in both. Where not specifically stated otherwise, all work and materials necessary for each unit of construction, including special construction for any specific brand or shape of material called for even though only briefly mentioned or indicated, shall be furnished and installed fully and completely as a part of the Contract. As the figured dimensions shown on the drawings and in the specifications of the contract may not in every case agree with scale dimensions, the figured dimensions shall be followed in preference to the scaled dimensions. Should it appear that the work to be done, or any of the matters relative thereto are not sufficiently detailed or explained in the contract documents, the Contractor shall apply to County for such further explanations as may be necessary, and shall conform thereto as part of the contract so far as may be consistent with the terms thereof. In the event of any doubt or question arising respecting the true meanings of the plans, specifications or drawings, the decision of County shall be final and conclusive.

Where for convenience the specifications are arranged by job classification or divided into various sections, it is to be understood this separation is for the convenience of all parties involved and is not to be considered as the limits of the work required of any separate trade. The terms and conditions of such limitations are wholly between Contractor and its subcontractors during both the bidding and construction phase; i.e., all work shown, specified, implied or necessary for the completion of each trade's work, as well as for the proper completion of the project as a whole shall be coordinated by Contractor and the subcontractors during bidding and construction and shall be provided in this contract.

Ownership

All plans and specifications shall remain the property of County and shall be returned to County before the final certificate will be issued.

Handicapped Access

Where applicable, it is the County's intent for all features on the plans and specifications to conform to applicable regulations for the accommodation of physically handicapped persons in buildings and facilities used by the public.

ARTICLE XVI: SHOP DRAWINGS AND SAMPLES

Shop Drawings

After checking and verifying all field measurements and after complying with applicable procedures herein, Contractor shall submit to County for review and acceptance in accordance with the accepted schedule of shop drawing submissions or other appropriate action if so indicated herein, the number of copies specified of all shop drawings, which will bear a stamp or specific written indication that Contractor has satisfied Contractor's responsibilities under the contract documents with respect to the review of the submission. All submissions will be identified as County may require. Such drawings shall be approved by County before any work

involving the drawings is performed. The data shown on the shop drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials and similar data to enable County to review the information as required.

Samples

Contractor shall also submit to County for review and acceptance with such promptness as to cause no delay in work, all samples required by the contract documents or as requested by County. All samples will have been checked by and accompanied by a specific written indication that Contractor has satisfied Contractor's responsibilities under the contract documents with respect to the review of the submission and will be identified clearly as to material, supplier, pertinent data such as catalog numbers and the use for which intended.

Contractor's Review

Before submission of each shop drawing or sample, Contractor shall have determined and verified all quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers and similar data with respect thereto and reviewed or coordinated each shop drawing or sample with other shop drawings and samples and with the requirements of the work and the contract documents.

Notice of Variation

At the time of each submission, Contractor shall give County specific written notice of each variation that the shop drawings or samples may have from the requirements of the contract documents, and, in addition, shall cause a specific notation to be made on each shop drawing submitted to Engineer for review and acceptance of each such variation.

County's Review

County will review and accept with reasonable promptness shop drawings and samples, but County's review and acceptance will be only for conformance with the design concept of the project and for compliance with the information given in the contract documents and shall not extend to means, methods, techniques, sequences or procedures of construction (except where a specific means, method, technique, sequence or procedure of construction is indicated in or required by the contract documents) or to safety precautions or programs incident thereto. The review and acceptance of a separate item as such will not indicate acceptance of the assembly in which the item functions. Within a reasonable time after receipt of drawings or samples, County will return marked up copies indicating one of the following four actions:

1. If review and checking indicates no exceptions, copies will be returned marked "NO EXCEPTIONS TAKEN" and work may begin immediately on incorporating the material and equipment covered by the submittal into the work.
2. If review and checking indicates limited corrections are required, copies will be returned marked "MAKE CORRECTIONS NOTED" and work may begin immediately on incorporating the material and equipment covered by the submittal into the work.
3. If review and checking indicates insufficient or incorrect data has been submitted, copies will be returned marked "AMEND AND RESUBMIT". No work may begin on incorporating the material and equipment covered by this submittal into the work until the submittal is revised, resubmitted, and returned marked either "NO EXCEPTIONS TAKEN" or "MAKE CORRECTIONS NOTED".
4. If review and checking indicates the material and equipment submittal is unacceptable, copies will be returned marked "REJECTED". No work may begin on incorporating the material and equipment covered by this submittal into the work until a new submittal is made and returned marked either "NO EXCEPTIONS TAKEN" or "MAKE CORRECTIONS NOTED".

Contractor shall direct specific attention in writing to revisions other than the corrections called for by County on previous submittals. The Contractor may authorize material or equipment

supplier to deal directly with County with regard to such submittals; however, ultimate responsibility for the accuracy and completeness of the information contained in the submittal shall remain with the Contractor. Normally, a separate transmittal form shall be used for each specific item or class of material or equipment for which a submittal is required. Submittals on various items using a single transmittal form will be permitted only when the items taken together constitute a manufacturer's "package" or are so functionally related that expediency indicates checking or review of the group or "package" as a whole.

Contractor's Responsibility for Variation

County's review of shop drawings or samples shall not relieve Contractor from responsibility for any variation from the requirements of the contract documents unless Contractor has in writing called County's attention to each such variation at the time of submission and County has given written acceptance of each such variation by a specific written notation thereof incorporated in or accompanying the shop drawing or sample review nor will any review by County relieve Contractor from responsibility for errors or omissions in the shop drawings or from responsibility for having complied with the provisions above.

Work Performed Prior to Shop Drawing or Sample Review

Where a shop drawing or sample is required by the specifications, any related work performed prior to County's review of the pertinent submission will be the sole expense and responsibility of Contractor.

ARTICLE XVII: SUBCONTRACTORS, SUPPLIERS AND OTHERS

Objectionable Parties

Contractor shall not employ any subcontractor, supplier or other person or organization, whether initially or as a substitute, against whom County may have reasonable objection. Contractor shall not be required to employ any subcontractor, supplier or other person or organization to furnish or perform any of the work against whom Contractor has reasonable objection. If the contract documents require the identity of certain subcontractors, suppliers or other persons or organizations (including those who are to furnish the principal items of materials and equipment) to be submitted to County in advance for acceptance by County and if Contractor has submitted a list thereof in accordance with the contract documents, County's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the bidding documents or the contract documents) of any such subcontractor, supplier or other person or organization so identified may be revoked on the basis of reasonable objection after due investigation, in which case Contractor shall submit an acceptable substitute, the contract price will be increased by the difference in the cost occasioned by such substitution and an appropriate change order will be issued. No acceptance by County of any such subcontractor, supplier, or other person or organization shall constitute a waiver of any right of County to reject defective work. The Contractor may not change any subcontractors listed on its bid without written approval from County after a determination that the requirements of Public Contracts Code Section 4107 have been met.

Responsibility for Subcontractors

Contractor shall be fully responsible to County for all acts and omissions of the subcontractors, suppliers and other persons and organizations performing or furnishing any of the work under a direct or indirect contract with Contractor just as Contractor is responsible for Contractor's own acts and omissions. Nothing in the contract documents shall create any contractual relationship between County and any such subcontractor, supplier or other person or organization, nor shall it create any obligation on the part of County to pay or to see to the payment of any moneys due any such subcontractor, supplier or other person or organization except as may otherwise be required by laws and regulations. County may furnish to any subcontractor or other person

or organization, to the extent practical, evidence of amounts paid the Contractor on account of specific work done.

Division of Work

The divisions and sections of the specifications and the identifications of any drawings shall not control Contractor in dividing the work among subcontractors or suppliers or delineating the work to be performed by any specific trade.

Subcontracts

All work performed for Contractor by a subcontractor will be pursuant to an appropriate agreement between contractor and the subcontractor which specifically binds the subcontractor to the applicable terms and conditions of the contract documents for the benefit of County and contains waiver provisions as required herein. Contractor shall pay each subcontractor a just share of any insurance moneys received by Contractor on account of losses under policies issued pursuant to this Contract.

ARTICLE XVIII: PERFORMANCE OF THE WORK

Supervision

Contractor shall supervise 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. Contractor shall be solely responsible for the means, methods, techniques, sequences and procedures of construction. Contractor shall be responsible to see that the finished work complies accurately with the contract documents.

Superintendence

Contractor shall keep on the work at all times during its progress a competent resident superintendent, acceptable to County, who shall not be replaced without written notice to County except under extraordinary circumstances. The superintendent will be Contractor's representative at the site and shall have authority to act on behalf of Contractor. All communications given to the superintendent shall be as binding as if given to Contractor. When work is not in progress and during periods when work is suspended, arrangements acceptable to County shall be made for emergencies. If the superintendent is not present, County shall give direction to the next in command and said direction shall be binding.

Personnel

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 at all times maintain good discipline and order at the site. Except in connection with the safety or protection of persons or the work or property at the site or adjacent thereto, and except as otherwise indicated in the contract documents, all work at the site shall be performed during regular working hours, and Contractor will not permit overtime work or the performance of work on Saturday, Sunday or any legal holiday without County's written consent given after prior written notice to County.

Order of Work

If a sequence or procedure is specified in the special provisions or plans for the project, Contractor shall be required to follow the sequence or procedure specified. The price for compliance with a specified sequence or procedure will be considered as part of the bid price and no extra amounts will be allowed therefor.

Safety and Protection

Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work. Contractor shall take all reasonable precautions for the safety of, and shall provide reasonable protection to prevent damage, injury or loss to:

1. All employees on the work and other persons and organizations who may be affected thereby;
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, utilities and underground facilities not designated for removal, relocation or replacement in the course of construction.

Contractor shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and of underground facilities and utility owners when prosecution of the work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property. All damage, injury or loss to any property referred to herein caused, directly or indirectly, in whole or in part, by Contractor, any subcontractor, supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable, shall be remedied by Contractor. Contractor's duties and responsibilities for the safety and protection of the work shall continue until such time as all the work is completed and County has issued a notice to County and Contractor that the work is acceptable.

The Contractor shall at all times so conduct the work as to insure the least possible obstruction to traffic and inconvenience to the general public and the residents in the vicinity of the work, and to insure the protection of persons and property. No road or street shall be closed to the public except with the permission of County and other governmental authority. Fire hydrants on or adjacent to the work shall be kept accessible to fire fighting equipment at all times. Temporary provisions shall be made by the Contractor to insure the use of sidewalks and private and public driveways, and the proper functioning of all gutters, sewer inlets, drainage ditches and culverts, irrigation ditches and natural water courses.

The Contractor shall leave a night emergency telephone number or numbers with the local law enforcement office, so that contact may be made easily at all times in case of trouble or emergencies. The names and telephone numbers of at least two medical doctors practicing in the vicinity and the telephone number of the local ambulance shall be prominently displayed adjacent to all telephones.

Any lighting fixtures shall be installed, mounted and directed in a manner precluding glare to approaching traffic.

Detours

Where detours are necessary, Contractor shall construct and remove detours as provided in the special provisions, or as shown on the plans, or as directed by County. The failure or refusal of Contractor to construct and maintain detours at the required time shall be sufficient cause for closing down the work until remedied. The cost of the detours shall be considered a part of the contract price or as included in other items of work as noted in the special provisions and no extra amounts shall be paid therefor.

Safety Representative

Contractor shall designate a responsible representative at the site whose duty shall be the prevention of accidents. This person shall be Contractor's superintendent unless otherwise designated in writing by Contractor to County.

Vehicle Code

Pursuant to the authority contained in Vehicle Code Section 591, County has determined that within such areas as are within the limits of the project and are open to public traffic, the following requirements of the Vehicle Code will apply. The lighting requirements in Section 25803; the brake requirements in Chapter 3, Division 12; the splash apron requirements in Section 27600; and, when operated on completed or existing treated base, surfacing, pavement or structures, except as otherwise provided in Section 7-1.02, "Weight Limitations," the weight limitation requirements contained in Division 15.

Attention is directed to the statement in said Section 591 that this section shall not relieve Contractor or any person from the duty of exercising due care. The Contractor shall take all necessary precautions for safe operation of its equipment and the protection of the public from injury and damage from such equipment.

Any other requirements set forth in Divisions 11, 12, 13, 14 and 15 of the Vehicle Code which County, pursuant to the authority contained in Vehicle Code Section 591, will require compliance with, will be set forth in the special provisions.

Trench Safety

Attention is directed to the provisions of Section 6705 of the Labor Code of the State of California.

Excavation for any trench 5 feet or more in depth shall not begin until the Contractor has submitted to County the Contractor's detailed plan for worker protection from the hazards of caving ground during the excavation of such trench. Such plan shall be submitted at least 5 days before the Contractor intends to begin excavation for the trench and shall show the details of the design of shoring, bracing, sloping, or other provisions to be made for worker protection during such excavation. The plan shall not use shoring, sloping or a protective system less effective than that required by the Construction Safety Orders of the Division of Industrial Safety and if such plan varies from the shoring system standards established by the Construction Safety Orders, the plan shall be prepared and signed by an engineer who is registered as a Civil or Structural Engineer in the State of California.

In addition, the Contractor shall obtain, pay for, and comply with all provisions of the permit required by Section 6500 of the California Occupational Safety and Health Act of 1973.

Notice Prior to Trenching

Where trenching is required, Contractor shall, pursuant to Public Contracts Code Section 7104, promptly, and before the following conditions are disturbed, notify County, in writing of any:

- (1) Material that contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.
- (2) Subsurface or latent physical conditions at the site differing from those indicated.
- (3) Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the contract.

Upon receipt of such notice, County shall, as required by Public Contracts Code Section 7104, promptly investigate the conditions. If County finds the conditions do materially so differ, or do

involve hazardous waste, and would require a decrease or increase in Contractor's cost of, or time required for, performance of any part of the work, County shall issue a change order under the procedures described in this Contract. In the event that a dispute arises between County and Contractor as to whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the cost or time required for performance, Contractor will not be excused from the scheduled completion date but shall proceed with all work to be performed. Contractor shall retain its rights to file a claim as set forth herein.

Alcoholic Beverages

Absolutely no alcoholic beverages shall be permitted on the job site.

Emergencies

In emergencies affecting the safety or protection of persons or the work or property at the site or adjacent thereto, Contractor, without special instruction or authorization from County, is obligated to act to prevent threatened damage, injury or loss. Contractor shall give County prompt written notice as soon as possible thereafter. If County determines that a change in the contract documents is required because of the action taken in response to an emergency, a change order will be issued to document the consequences of the changes or variations.

Warranty and Guarantee

Unless the plans and/or specifications require a longer period for any warranted item, Contractor warrants all of the work completed under this contract by Contractor for a period of one year from the date of final completion. Said warranty includes the guarantee that all work is completed in accordance with the contract documents and that the work is not defective in any way and is fit for its intended use. Work not conforming to the plans and specifications shall be considered defective. If within the warranty period any work is found to be defective, Contractor shall promptly, without cost to County and in accordance with County's written instruction, either correct such defective work or remove it from the site and replace it with non-defective work. If Contractor does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, County may have the defective work corrected or removed and replaced, and all direct, indirect and consequential costs of such removal and replacement (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) will be paid by Contractor. Nothing in this paragraph shall serve as a waiver of the statute of limitations for breach of contract or latent defects.

Environmental and Toxics Warranty

Contractor warrants that no asbestos-containing materials, no PCB-containing fixtures or equipment or other toxic or hazardous materials or equipment other than what is contained in standard building materials were installed on this project without County's express written consent. Contractor further warrants that no asbestos-containing materials, PCB-containing fixtures or equipment or other toxic or hazardous materials were discovered during construction of this project which were not disclosed to County in writing.

Contractor also warrants that its operations during the project were not in violation of any applicable federal, state or local environmental law or regulation dealing with hazardous materials or toxic substances, and no notice from any governmental body has been given to Contractor claiming any such violation or calling attention to the need for any work, repairs, construction, or installation or in connection with the project in order to comply with such laws with which Contractor has not complied. If there are any such notices with which Contractor has complied, Contractor shall provide County with copies thereof.

This warranty shall survive completion of the project, and Contractor shall indemnify County for any breach thereof.

Access to Work

County's representatives, testing agencies and governmental agencies with jurisdictional interests will have access to the work at reasonable times for their observation, inspecting and testing. Contractor shall provide proper and safe conditions for such access.

County May Stop the Work

If Contractor fails to conform with the contract documents, if the work is defective, if the work is being carried out in an unsafe manner, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to furnish or perform the work in such a way that the completed work will conform to the contract documents, County may order Contractor to stop the work, or any portion thereof, until the cause for such order has been eliminated; however, this right of County to stop the work shall not give rise to any duty on the part of County to exercise this right for the benefit of Contractor or any other party.

Alternative Methods of Construction

Whenever the plans or specifications provide that more than one specified method of construction or more than one specified type of material or construction equipment may be used to perform portions of the work and leave the selection of the method of construction or the type of material or equipment to be used up to the Contractor, it is understood that County does not guarantee that every such method of construction or type of material or equipment can be used successfully throughout all or any part of any project. It shall be the Contractor's responsibility to select and use the alternative or alternatives which will satisfactorily perform the work under the conditions encountered. In the event some of the alternatives are not feasible or it is necessary to use more than one of the alternatives on any project, full compensation for any additional cost involved shall be considered as included in the contract price paid for the item of work involved and no additional compensation will be allowed therefor.

Correction or Removal of Defective Work

If required by County, Contractor shall promptly, as directed, either correct all defective work, whether or not fabricated, installed or completed, or, if the work has been rejected by County, remove it from the site and replace it with non-defective work. Contractor shall bear all direct, indirect and consequential costs of such correction or removal (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) made thereby.

Acceptance of Defective Work

If, instead of requiring correction or removal and replacement of defective work, County prefers to accept it, County may do so. Contractor shall bear all direct, indirect and consequential costs attributable to County's evaluation of and determination to accept such defective work (such costs to include but not be limited to fees and charges of engineers, architects, attorneys and other professionals). If any such acceptance occurs prior to final payment, a change order will be issued incorporating the necessary revisions in the contract documents with respect to the work; and County shall be entitled to an appropriate decrease in the contract price, and, if the parties are unable to agree as to the amount thereof, County may make a claim therefor as provided in this Contract. If the acceptance occurs after such recommendation, an appropriate amount will be paid by Contractor to County. No acceptance of defective work shall occur without an express written acknowledgment by County that work described therein is defective and that County is electing to proceed under this clause. No acceptance of defective work may be inferred from any actions by County staff or its agents.

County May Correct Defective Work

If Contractor fails within a reasonable time after written notice of County to proceed to correct and to correct defective work or to remove and replace rejected work as required by County in accordance with the above, or if Contractor fails to perform the work in accordance with the contract documents, or if Contractor fails to comply with any other provision of the contract

documents, County may, after seven days' written notice to Contractor, correct and remedy any such deficiency. In exercising the rights and remedies under this paragraph County shall proceed expeditiously. To the extent necessary to complete corrective and remedial action, County 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, take possession of Contractor's tools, appliances, construction equipment and machinery at the site and incorporate in the work all materials and equipment stored at the site or for which County has paid Contractor but which are stored elsewhere. Contractor shall allow County, County's representatives, agents and employees such access to the site as may be necessary to enable County to exercise the rights and remedies under this paragraph. All direct, indirect and consequential costs of County in exercising such rights and remedies will be charged against Contractor, and a change order will be issued incorporating the necessary revisions in the contract documents with respect to the work; and County shall be entitled to an appropriate decrease in the contract price, and, if the parties are unable to agree as to the amount thereof, County may make a claim therefor as provided in this Contract. Such direct, indirect and consequential costs will include but not be limited to fees and charges of engineers, architects, attorneys and other professionals, all court costs and all costs of repair and replacement of work of others destroyed or damaged by correction, removal or replacement of Contractor's defective work. Contractor shall not be allowed an extension of the contract time because of any delay in performance of the work attributable to the exercise by County of County's rights and remedies hereunder.

Adjusting Progress Schedule

Contractor shall submit to County for acceptance adjustments in the progress schedule to reflect the impact thereon of new developments; these will conform generally to the progress schedule then in effect and additionally will comply with any provisions of the general requirements applicable thereto.

Substitute Method of Construction

If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the contract documents, Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to County, if Contractor submits sufficient information to allow County to determine that the substitute proposed is equivalent to that indicated or required by the contract documents. The procedure for review by County will be similar to that provided in the paragraph regarding substitution of materials or equipment. No extension of time or extra compensation will be paid to the Contractor by virtue of County's accepting a substitute method of construction.

Suggestions to Contractor

Any plan or method of work suggested by County to the Contractor but not specified or required, if adopted or followed by the Contractor in whole or in part, shall be used at the risk and responsibility of the Contractor; and County shall assume no responsibility therefor and in no way be held liable for any defects in the work which may result from or be caused by use of such plan or method of work. Acceptance by the Contractor of any plan or method of work or change suggested by County shall not relieve the Contractor from any other requirements or provisions of the contract.

Permits

Unless otherwise provided for herein, Contractor shall obtain and pay for all construction permits and licenses necessary or incidental to the work. County 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 opening of bids. County shall pay all charges of utility connections to the work.

Laws and Regulations

Contractor shall give all notices and comply with all laws and regulations applicable to furnishing and performance of the work. Except where otherwise expressly required by applicable laws and regulations, County shall not be responsible for monitoring Contractor's compliance with any laws or regulations. If Contractor observes that the specifications or drawings are at variance with any laws or regulations, Contractor shall give County prompt written notice thereof, and any necessary changes will be authorized by one of the methods indicated herein. If Contractor performs any work knowing or having reason to know that it is contrary to such laws or regulations, and without such notice to County, Contractor shall bear all costs, damages, fines or penalties, arising therefrom.

Taxes

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.

Use of Premises

Contractor shall confine construction equipment, the storage of materials and equipment and the operations of workers to the project site and land and areas identified in and permitted by the contract documents and other land and areas permitted by laws and regulations, rights-of-way, permits and easements, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof or of any land or areas contiguous thereto, resulting from the performance of the work. Should any claim be made against County by any such owner or occupant because of the performance of the work, Contractor shall promptly attempt to settle with such other party by agreement or otherwise resolve the claim by arbitration or at law. Contractor shall, to the fullest extent permitted by laws and regulations, indemnify and hold County harmless from and against all claims, damages, losses and expenses (including, but not limited to, fees of engineers, architects, attorneys and other professionals and court and arbitration costs) arising directly, indirectly or consequentially out of any action, legal or equitable, brought by any such other party against County to the extent based on a claim arising out of Contractor's performance of the work.

Fences which cross, abut, or are on easements shall at all times be maintained by the Contractor in a condition which provides the functional purpose of the fence. Temporary fencing of the construction area will be permitted and temporary fencing shall provide the same functional purpose as existing fencing. Unless otherwise indicated, all improvements within easements shall be restored to conditions that existed prior to the start of work.

Before final acceptance of the work the Contractor shall obtain a written statement of release from each property owner that granted an easement for the work. Release statement shall indicate the property owner's acceptance of the site conditions as restored by the Contractor. The County may waive said written releases where a property owner refuses to sign same but only upon making a determination that there is no work to be completed with respect to said property.

Site Clean-Up

During the progress of the work, Contractor shall keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the work. At the completion of the work, Contractor shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment and machinery, and surplus materials, and shall leave the site clean and ready for occupancy by County. Contractor shall restore to original condition all property not designated for alteration by the contract documents.

The Contractor is advised that the final cleanup of the project shall be done with meticulous care and that the County expects all ductwork, cubicles, cabinets, motor control centers, control panels, rooms, and enclosures to be thoroughly vacuum cleaned and dust-free prior to acceptance of the work.

Protection 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 property to stresses or pressures that will endanger it.

Restoration of Structures

The Contractor shall remove such existing structures or monuments as may be necessary for the performance of the work and, if required, shall rebuild the structures or monuments thus removed in as good a condition as found. Contractor shall also repair all existing structures or monuments which may be damaged as a result of the work under this contract.

All curbs, gutters, driveways, sidewalks, and similar structures that are damaged by the installation of the work shall be reconstructed by the Contractor. Reconstruction shall be of the same kind of material with the same finish and in not less than the same dimensions as the original work. All concrete shall be as set forth in the specifications, or as required by County if not so specified. Repairs shall be made by removing and replacing the entire portions between joints or scores and not merely refinishing any damaged part. All work shall match the appearance of the existing improvements as nearly as possible.

All road and streets where the surface is removed, broken or damaged, or in which the ground has caved or settled due to work under this contract, shall be completely resurfaced and brought to the original grade and crown section unless otherwise indicated. Before resurfacing material is placed, edges of pavements shall be trimmed back far enough to provide clean, solid, vertical faces, and shall be free of any loose material. All cultivated areas, lawns, and other surface improvements which are damaged by actions of the Contractor shall be restored as nearly as possible to their original conditions.

Drainage

Existing drainage facilities shall be maintained throughout the contract time to provide the flow capacities available before commencing work. Drainage conduits shall not be broken, removed, or otherwise interfered with, without permission of the responsible agency.

Where construction requires blocking the flow, flows shall be bypassed as necessary. Stream crossings, blockages, and bypassing shall be accomplished in such a manner as to avoid degradation of downstream water quality. Particular attention shall be given to the avoidance of siltation.

Environmental Control

The Contractor shall not pollute the construction site or any drainage course or its tributary inlets with fuels, oils, bitumens, acids, insecticides, herbicides or other harmful materials. The Contractor shall comply with all applicable Federal, State, County and municipal laws concerning pollution of waterways. Contractor shall submit a plan for preventing such occurrences if required by County. Special measures shall be taken to prevent chemicals, fuels, oils, greases, bituminous materials, waste washings, herbicides and insecticides, from spilling and entering public waters.

Where the Contractor is required to connect or otherwise work around existing lines carrying sewage or process wastes, Contractor shall perform the work to prevent the spill of sewage and insure the delivery of sewage to the treatment plants. Where the Contractor chooses to provide

temporary pumping of sewage, Contractor shall first have the pumping facilities approved by County and shall provide 100 percent standby equipment on 24-hour basis.

The Contractor shall provide the means for preventing or lessening all dust nuisances and damages. Such means shall consist of applying water, dust palliative, or both all in accordance with local ordinances and regulations or as directed by County.

Record Documents

Contractor shall maintain in a safe place at the site one record copy of all drawings, plans, specifications, addenda, change orders, field orders and written interpretations and clarifications in good order and annotated to show all changes made during construction. These record documents together with all approved samples and a counterpart of all accepted shop drawings will be available to County for reference. Upon completion of the work, these record documents, samples, and shop drawings will be delivered to County.

As-Built Drawings

The Contractor shall also maintain a neatly marked set of record drawings showing the final locations and layout of all mechanical, electrical, and instrument equipment; piping and conduit, structures, and other facilities. Drawings shall be kept current weekly, with all field instructions and change orders; mechanical, electrical, and instrumentation equipment accommodations; and construction adjustment. Drawings shall be subject to the inspection of the County at all times and progress payments may be withheld if drawings are not current. At the final inspection the Contractor shall submit to County all as-built drawings. Drawings shall be stamped "AS-BUILT", dated and signed by the Contractor. The work will not be formally accepted until as-built drawings are accepted by County.

Continuing the Work

Contractor shall carry on the work and adhere to the progress schedule during all disputes or disagreements with County. No work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted specifically herein or as Contractor and County may otherwise agree in writing.

Indemnification

To the fullest extent permitted by laws and regulations, Contractor shall indemnify, defend and hold harmless County and its consultants, agents and employees from and against all claims, damages, losses and expenses, direct, indirect or consequential (including but not limited to fees and charges of engineers, architects, attorneys and other professionals and court and arbitration costs) arising out of or resulting from the performance of the work, provided that any such claim, damage, loss or expenses (a) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (including the work itself) including the loss of use resulting therefrom and (b) is caused in whole or in part by any negligent act or omission of Contractor, any subcontractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable. The Contractor's indemnification obligation shall apply whether or not the act giving rise to such claims, damages, losses and expenses is caused in part by a party indemnified hereunder or arises by or is imposed by law and regulations regardless of the negligence of any such party.

Statutory Limitations

In any and all claims against County or any of its consultants, agents or employees by any employee of Contractor, any subcontractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable, the indemnification obligation above shall 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 or other person or organization under workers' compensation acts, disability benefit acts or other employee benefit acts.

Related Work at Site

County may perform other work related to the project at the site by County's own forces, have other work performed by utility companies or let other direct contracts therefor which shall contain conditions similar to these. If the fact that such other work is to be performed was not noted in the contract documents, written notice thereof will be given to Contractor prior to starting any such other work; and, if Contractor believes that such performance will involve additional expense to Contractor or requires additional time and the parties are unable to agree as to the extent thereof, Contractor may make a claim therefor as provided for herein. Any difference or conflict arising between the Contractor and any other Contractor employed by County, or between the Contractor and the workers of County with regard to their work, shall be submitted to County and the Contractor shall abide by County's decision in the matter. If the work of the Contractor is delayed because of any facts or omissions of any other Contractor or of County, the Contractor shall on that account have no claim against County other than for an extension of time.

Access to Site

Contractor shall afford each utility company or district and other contractor who is a party to such a direct contract (or County, if County is performing the additional work with County's employees) proper and safe access to the site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such work, and shall properly connect and coordinate the work with theirs. Contractor shall do all cutting, fitting and patching of the work that may be required to make its several parts come together properly and integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of County and the others whose work will be affected. The duties and responsibilities of Contractor under this paragraph are for the benefit of such utility companies or districts and other contractors to the extent that there are comparable provisions for the benefit of Contractor in said direct contracts between County and such utility companies or districts and other contractors.

Acceptance of Work by Others

If any part of Contractor's work depends for proper execution or results upon the work of any such other contractor or utility company or district (or County), Contractor shall inspect and promptly report to County in writing any delays, defects or deficiencies in such work that render it unavailable or unsafe for such proper execution and results. Contractor's failure so to report will constitute an acceptance of the other work as fit and proper for integration with Contractor's work except for latent or nonapparent defects and deficiencies in the other work.

ARTICLE XIX: TESTS AND INSPECTIONS

Tests and Inspections Required by Laws or Regulations

If laws or regulations of any public body having jurisdiction require any work (or part thereof) to specifically be inspected, tested or approved, Contractor shall assume full responsibility therefor, pay all costs in connection therewith and furnish County the required certificates of inspection, testing, approval or compliance. Contractor shall also be responsible for and shall pay all costs in connection with any inspection or testing required in connection with County's acceptance of a supplier of materials or equipment proposed to be incorporated in the work, or of materials or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the work. The cost of all inspections, tests and approvals in addition to the above which are required by the contract documents shall be paid by County (unless otherwise specified). Contractor must utilize materials and equipment which are available for inspection

at the plant or at the point of distribution in California in the case of foreign materials or equipment.

Other Inspections and Tests

All inspections, tests or acceptances other than those required by laws and regulations of any public body having jurisdiction shall be performed by organizations acceptable to County.

General Requirements

All materials, equipment, installation, and workmanship included in this contract, if so required by County, shall be tested and inspected to prove compliance with the contract requirements. Installed leakage tests and other piping tests shall be as specified in the technical provisions of these specifications.

No tests specified herein shall be applied until the item to be tested has been inspected and approval given for the application of such test. Contractor shall give County timely notice of readiness of the work for all required inspections, tests or approvals.

Tests and inspections shall include:

1. The delivery acceptance test and inspections.
2. The installed tests and inspections of items as installed.

Tests and inspections, unless otherwise specified or accepted, shall be in accordance with the recognized standards of the industry.

The form of evidence of satisfactory fulfillment of delivery acceptance test and of installed test and inspection requirements shall be, at the discretion of County, either by tests and inspections carried out in County's presence or by certificates or reports of tests and inspections carried out by approved persons or organizations. The Contractor shall provide and use forms which include all test information and are acceptable in content to County.

Certificates of Compliance

A Certificate of Compliance shall be furnished prior to the use of any materials for which the specifications or the special provisions require that such a certificate be furnished. In addition, when so authorized in the specifications or in the special provisions, the County may permit the use of certain materials or assemblies prior to sampling and testing if accompanied by a Certificate of Compliance. The certificate shall be signed by the manufacturer of the material or the manufacturer of assembled materials and shall state that the materials involved comply in all respects with the requirements of the specifications. A Certificate of Compliance shall be furnished with each lot of material delivered to the work and the lot so certified shall be clearly identified in the certificate.

All materials used on the basis of a Certificate of Compliance may be sampled and tested at any time. The fact that material is used on the basis of a Certificate of Compliance shall not relieve the Contractor of responsibility for incorporating material in the work which conforms to the requirements of the plans and specifications and any such material not conforming to such requirements will be subject to rejection whether in place or not.

County reserves the right to refuse to permit the use of material on the basis of a Certificate of Compliance.

The form of the Certificate of Compliance and its disposition shall be as directed by County.

Delivery Acceptance Tests and Inspection

The delivery acceptance tests and inspection shall be at the Contractor's expense for any materials or equipment specified herein and shall include the following:

1. Test of items during the process of manufacture and/or on completion of manufacture, comprising material tests, hydraulic pressure tests, electric tests, performance and operating tests and inspections in accordance with the relevant standards of the industry and more particularly as detailed in individual clauses of these specifications to satisfy County that the items tested and inspected comply with the requirements of this contract. Tests required, other than those specified, will be in accordance with the contract specifications.
2. Inspection of all items delivered at the site in order that County may be satisfied that such items are of the specified quality and workmanship and are in good order and condition at the time of delivery.

Installed Tests and Inspection

All equipment shall be tested by the Contractor to the satisfaction of County before any facility is put into operation. Tests shall be as specified herein and shall be made to determine whether the equipment has been properly assembled, aligned, adjusted and connected. Any changes, adjustments or replacements required to make the equipment operate as specified shall be carried out by the Contractor as part of the work.

At least 30 days before the time allowed in the construction schedule for commencing testing and start up procedures, the Contractor shall submit to County, details of the procedures Contractor proposes to adopt for testing and start up of all mechanical and electrical equipment to be operated singly and together, excepting when such procedures have been covered in the specifications. Such tests shall be conducted using potable water where water is required for such testing. The water required for such tests shall be provided by the Contractor.

During the testing of equipment, the Contractor shall make available experienced factory trained representatives of the manufacturers of all the various pieces of equipment, or other qualified persons who shall instruct County's personnel in the operation and care thereof. Instruction shall include step-by-step troubleshooting procedures with all necessary test equipment. All manufacturer's instructions shall be provided in writing.

If, under test, any portion of the work shall fail to fulfill the contract requirements and is altered, renewed or replaced, tests on that portion when so altered, removed or replace, together with all other portions of the work as are affected thereby, shall, if so required by County, be repeated within reasonable time and in accordance with the specified conditions, and the Contractor shall pay to County all reasonable expenses incurred by County as a result of the carrying out of such tests.

Where, in the case of an otherwise satisfactory installed test, any doubt, dispute or difference should arise between County and the Contractor regarding the test results or methods or equipment using in the carrying out by the Contractor of such test, then County may order the test to be repeated. If the repeat test, using such modified methods or equipment as County may require, substantially confirms the previous test then costs in connection with the repeat test will be paid by County, otherwise the costs shall be borne by the Contractor. Where the results of any installed test fail to comply with the contract requirements for such test then such repeat tests as may be necessary to achieve the contract requirements shall be made by the Contractor at Contractor's own expense.

Quality Control

County will perform testing for the following as the County deems necessary:

1. Soils compaction control
2. Cast-in-place concrete control
3. Aggregate base rock
4. Portland Cement concrete
5. Asphalt concrete
6. Other materials and work incorporated in project

The Contractor shall pay for testing of those samples which fail to meet acceptable standards.

The Contractor shall provide services of a qualified testing laboratory to perform testing for all other work including but not limited to:

1. Concrete mix design
2. Asphalt concrete mix design

The testing laboratory selected by the Contractor is subject to County's approval. The laboratory shall cooperate with Contractor and County and provide qualified personnel promptly on notice, perform specified inspections, sampling and testing of materials as needed to comply with specified standards, and ascertain compliance with requirements of contract documents.

Work Requiring Testing

If any work (including the work of others) that is required by the Contract Documents to be inspected, tested or accepted is covered without written concurrence of County, it must, if requested by County, be uncovered for observation. Such uncovering shall be at Contractor's expense unless Contractor has given County timely notice of Contractor's intention to cover the same and County has not acted with reasonable promptness in response to such notice.

Contractor's Obligation

Neither observations by County nor inspections, tests or approvals by others shall relieve Contractor from Contractor's obligations to perform the work in accordance with the contract documents.

Uncovering Work Covered Contrary to County's Request

If any work is covered contrary to the written instructions of County or Code or contract requirements, it must, if requested by County, be uncovered for County's observation and replaced at Contractor's expense.

Uncovering Work for Inspection or Testing

In addition to the provisions above regarding work requiring testing, if County considers it necessary or advisable that covered work be observed by County or inspected or tested by others, Contractor, at County's request, shall uncover, expose or otherwise make available for observation, inspection or testing as County may require, that portion of the work in question, furnishing all necessary labor, material and equipment. If it is found that such work is defective, Contractor shall bear all direct, indirect and consequential costs of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction (including but not limited to fees and charges of engineers, architects, attorneys and other professionals), and County shall be entitled to an appropriate decrease in the contract price, and, if the parties are unable to agree as to the amount thereof, may make a claim therefor as provided in this contract. If, however, such work is not found to be defective, Contractor shall be allowed an increase in the contract price or an extension of the contract time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction; and, if the parties are

unable to agree as to the amount or extent thereof, Contractor may make a claim therefor as provided for in this contract.

ARTICLE XX: SUSPENSION OF WORK AND TERMINATION

County May Suspend Work

County may, at any time and without cause, suspend the work or any portion thereof for a period of not more than ninety days by notice in writing to Contractor. As soon as possible, County will fix the date on which work will be resumed. Contractor shall resume the work on the date so fixed. If Contractor believes that such suspension justifies an increase in the contract price or an extension of the contract time and County and Contractor are unable to agree to the amount or extent thereof, Contractor may make a claim therefor as provided herein.

County May Terminate

Except as limited by law or regulation, County may terminate upon the occurrence of any one or more of the following events:

1. If Contractor commences a voluntary case under any chapter of the Bankruptcy Code (Title 11, United States Code), as now or hereafter in effect, or if Contractor takes any equivalent or similar action by filing a petition or otherwise under any other federal or state law in effect at such time relating to the bankruptcy or insolvency;
2. If petition is filed against Contractor under any chapter of the Bankruptcy Code as now or hereafter in effect at the time of filing, or if a petition is filed seeking any such equivalent or similar relief against Contractor under any other federal or state law in effect at the time relating to bankruptcy or insolvency;
3. If Contractor makes a general assignment for the benefit of creditors;
4. If a trustee, receiver, custodian or agent of Contractor is appointed under applicable law or under contract, whose appointment or authority to take charge of property of Contractor is for the purpose of enforcing a lien against such property or for the purpose of general administration of such property for the benefit of Contractor's creditors;
5. If Contractor admits in writing an inability to pay its debts generally as they become due;
6. If Contractor persistently fails 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 established herein as revised from time to time or fails to make prompt payment to subcontractors or for materials or labor or persistently disregards laws, ordinances or instructions of the County);
7. If Contractor disregards laws or regulations of any public body having jurisdiction;
8. If Contractor disregards the authority of County or its agents; or
9. If Contractor otherwise violates in any substantial way any provisions of the contract documents;

County may, after giving Contractor (and the surety, if there be one) seven days' written notice and to the extent permitted by laws and regulations, terminate the services of Contractor, exclude Contractor from the site and take possession of the work and of all Contractor's tools, appliances, construction equipment and machinery at the site and use the same to the full extent they could be used by Contractor (without liability to Contractor for trespass or conversion), incorporate in the work all materials and equipment stored at the site or for which County has paid Contractor but which are stored elsewhere, and finish the work as County may deem expedient. In such case Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the contract price exceeds the direct, indirect and consequential costs of completing the work (including but not limited to fees and charges of engineers, architects, attorneys and other professionals and court costs) such excess will be paid to Contractor. If such costs exceed such unpaid balance, Contractor shall pay the difference to County. Such costs incurred by County will be approved as to reasonableness by County and incorporated in a change order, but when exercising any rights or remedies under

this paragraph County shall not be required to obtain the lowest price for the work performed. Where Contractor's services have been so terminated by County, the termination will not affect any rights or remedies of County against Contractor then existing or which may thereafter accrue. Any retention or payment of moneys due Contractor by County will not release Contractor from liability.

County May Abandon

Upon written notice to Contractor County may, without cause and without prejudice to any other right or remedy, elect to abandon the work and terminate the agreement. Contractor shall stop work as specified in said notice, terminate all subcontracts, deliver all materials already paid for and secure the site. In such case, Contractor shall be paid for all work executed and any actual expense sustained. No lost profit for work not yet undertaken shall be due to Contractor.

Contractor May Stop Work or Terminate

If, through no act or fault of Contractor, the work is suspended for a period of more than ninety days by County or under an order of court or other public authority, or County fails to act on any application for payment within thirty days after it is submitted, or County fails for thirty days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days' written notice to County, terminate the agreement and recover from County payment for all work executed and any expense sustained. In addition and in lieu of terminating the agreement, if County has failed to act on an application for payment or County has failed to make any payment as aforesaid, Contractor may upon seven days' written notice to County stop the work until payment of all amounts then due. The provisions of this paragraph shall not relieve Contractor of the obligations to carry on the work in accordance with the progress schedule and without delay during disputes and disagreements with County.

ARTICLE XXI COUNTY'S AGENT'S STATUS DURING CONSTRUCTION

County's Representative

County may appoint representatives during the construction period. The duties and responsibilities and the limitations of authority of such agents during construction are set forth herein and shall not be extended without written consent of County.

Agent's Authority

County may delegate authority to an employee or agent, including an engineer or an architect, to determine the amount, quality, acceptability and fitness of the several kinds of work, material and equipment which are to be paid for under the contract; to decide for the County all questions relative to the true construction, meaning and intent of the contract documents; to decide all questions relative to the classification and measurements of quantities and materials and the fulfillment of this contract, and to reject or condemn all work or material which does not conform to the terms of this contract. The representative's decision in all matters is the decision of County and shall be final and binding on Contractor.

Replacement of Representative

County reserves the right to terminate the employment of the representative at any time.

Visits to Site

Where a representative represents County, said representative will make visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed work and to determine, in general, if the work is proceeding in accordance with the contract documents. However, Contractor must supervise the work and cannot rely on said representative or County as they will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the work. The representative's efforts will be directed toward providing for County a greater degree of confidence that the completed work

will conform to the contract documents. On the basis of such visits and on-site observations, the representative will keep County informed of the progress and adequacy of the work.

Observation of Work

If County and the representative agree, the representative will observe the performance of the work. The duties, responsibilities and limitations of authority of the representative in observing the work will be as provided herein. If County designates another agent to represent County at the site who is not the representative's agent or employee, the duties, responsibilities and limitations of authority of such other person will be as provided in supplementary conditions.

Clarifications and Interpretations

The representative may be appointed to issue (with reasonable promptness) such written clarifications or interpretations of the requirements of the contract documents (in the form of drawings or otherwise) as the representative may determine necessary, which shall be consistent with or reasonably inferable from the overall intent of the contract documents. If Contractor believes that a written clarification or interpretation justifies an increase in the contract price or an extension of the contract time and the parties are unable to agree to the amount or extent thereof, Contractor may make a claim therefor as provided in the contract. Said claim shall be made to County unless a representative has been selected to provide such clarifications or interpretations.

Authorized Variations in Work

If a representative is appointed, such representative may authorize minor variations in the work from the requirements of the contract documents which do not involve an adjustment in the contract price or the contract time and are consistent with the overall intent of the contract documents. These may be accomplished by a field order and will be binding on County, and also on Contractor who shall perform the work involved promptly. If Contractor believes that a field order justifies an increase in the contract price or an extension of the contract time and County and Contractor are unable to agree as to the amount or extent thereof, Contractor may make a claim therefor as provided in this Contract.

Rejecting Defective Work

If a representative is appointed, such representative will have authority to disapprove or reject work which the representative believes to be defective, and will also have authority to require special inspection or testing of the work whether or not the work is fabricated, installed or completed. Any decision made by said representative in disapproving or rejecting work shall be binding on Contractor.

Determinations for Unit Prices

If a representative is appointed, such representative will determine the actual quantities and classifications of unit price work performed by Contractor. The representative will review with the Contractor the representative's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an application for payment or otherwise). The representative's written decisions thereon will be final and binding upon Contractor.

Claims and Disputes

For purposes of this paragraph, "claim" shall be defined as set forth in Public Contracts Code Section 20104(b)(2). Claims shall be presented in writing and include the documents necessary to substantiate the claim. Claims must be filed with the designated County representative no later than thirty (30) days after the occurrence of the event giving rise thereto or denial of the change order, whichever occurs last. The form of said claims shall be the same as is required by Government Code Sections 910 and 910.2.

If the claim is under \$50,000, County shall respond in writing to Contractor within 45 days of receipt of Contractor's claim or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the County may have against the Contractor. If additional information is thereafter required, it shall be requested and provided pursuant to Public Contract Code Section 20104.2, upon mutual agreement of the County and Contractor. The County's written response to the claim, as further documented, shall be submitted to Contractor within 15 days after receipt of the further documentation or within a period of time no greater than that taken by Contractor in producing the additional information, whichever is greater.

For claims over \$50,000 and less than or equal to \$375,000, County shall respond in writing to all written claims within 60 days of receipt of the claim, or may request, in writing within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the County may have against Contractor. If additional information is thereafter required, it shall be requested and provided pursuant to Public Contract Code Section 20104.2, upon mutual agreement of County and Contractor. The County's written response to the claim, as further documented, shall be submitted to Contractor within 30 days after receipt of the further documentation, or within a period of time no greater than that taken by Contractor in producing the additional information or requested documentation, whichever is greater.

If Contractor disputes County's written response, or County fails to respond within the time prescribed above, Contractor may so notify County, in writing, either within 15 days of receipt of County's response or within 15 days of County's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer with such County representatives as the County Administrator or the Board of Supervisors directs for settlement of the issues in dispute. Upon such demand, County shall schedule a meet and confer conference within 30 days for settlement of the dispute.

Following the meet and confer conference, if the claim or any portion remains in dispute, Contractor may file a claim with the Board of Supervisors pursuant to Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. Pursuant to authority granted by Government Code Section 930.2, all claims filed with the Board of Supervisors pursuant to the Government Code shall be filed within 90 days of the denial of the original claim by the County representative. The running of the period of time within which a claim under the Government Code must be filed shall be tolled by any period of time utilized by the meet and confer conference. Any lawsuit which Contractor intends to bring with respect to any claim filed pursuant to the Government Code which claim has been denied by County must be commenced not later than six months after the recording of the notice of completion or not later than six months after the date final payment is deposited in the mail or personally delivered, whichever date comes first. If a civil action is filed, the mediation provisions set forth in Public Contract Code Section 20104.4 shall apply unless waived by mutual stipulation of County and Contractor or unless County elects to resolve the dispute pursuant to Public Contract Code Section 10240 et seq.

For every claim that Contractor makes, it shall provide the following documentation upon request of County as a condition precedent to consideration of the claim: Contractor's bidding calculations forms, cost estimates, time sheets, trend reports, job cost analysis records, labor records, as-built documents, any other records used by Contractor in arriving at its bid price, and any other documents or records kept by Contractor during the course of construction. In the event that claims are made, Contractor agrees that County shall have the right to conduct a complete audit of the books and records of Contractor relating to this project and any books and records relating to overhead, profit or general office expenses charged to this project.

Public Contract Code § 9204, as enacted by AB 626, establishes a claim resolution process required for public works projects. In the event of any conflict between the provisions of Article XXI and Public Contract Code § 9204, the provisions of the Public Contract Code shall prevail.

Representative's Decision

Where a representative is appointed, the rendering of a decision by the representative with respect to any such claim, dispute or other matter (except any which have been waived by the making or acceptance of final payment) will be a condition precedent to any exercise by County or Contractor of such rights or remedies as either may otherwise have under the contract documents or by laws or regulations in respect of any such claim, dispute or other matter.

Limitations on Representative's Responsibilities

Neither the County's representative's authority to act nor any decision made by the representative in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the representative or County to Contractor, any subcontractor, any supplier, or any other person or organization performing any of the work, or to any surety for any of them.

Construction Methods and Safety

Notwithstanding any references to laws and regulations, rules, codes or standards in the contract documents, the representative and County will not be responsible for Contractor's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, and the representative and County will not be responsible for Contractor's failure to perform or furnish the work in accordance with the contract documents.

Acts and Omissions of Contractor

Neither the County nor its representatives will be responsible for the acts or omissions of Contractor or of any subcontractor, any supplier, or any other person or organization performing or furnishing any of the work.

ARTICLE XXII: PARTIAL COMPLETION

Partial Completion (Completion of a Portion of the Work)

Use by County of any finished part of the work, which has specifically been identified in the contract documents, or which County and Contractor agree constitutes a separately functioning process or facility that can be used by County without significant interference with Contractor's performance of the remainder of the work, may be accomplished prior to completion of all the work subject to the following:

1. County at any time may request Contractor in writing to permit County to use any such part of the work which County believes to be ready for its intended use and substantially complete. If Contractor agrees, Contractor will certify to County that said part of the work is substantially complete and request County to issue a certificate of substantial completion for that part of the work. Contractor at any time may notify County in writing that Contractor considers any such part of the work ready for its intended use and substantially complete and request County to issue a certificate of substantial completion for that part of the work. Within a reasonable time after either such request, County and Contractor shall make an inspection of that part of the work to determine its status of completion. If County does not consider that part of the work to be substantially complete, County will notify Contractor in writing giving the reasons therefor. If County considers that part of the work to be substantially complete, County will deliver to Contractor a written recommendation as to the division of responsibilities pending final payment between County and Contractor for the entire work with respect to security, operation, safety, maintenance, heat, utilities, insurance and warranties. Unless Contractor disagrees in writing and so informs County promptly, County's aforesaid recommendation will be binding on Contractor until final payment for the entire work.

2. County may at any time request Contractor in writing to permit County to take over operation of any such part of the work although it is not substantially complete. A copy of such request will be sent to Contractor and within a reasonable time thereafter County and Contractor shall make an inspection of that part of the work to determine its status of completion and will prepare a list of the items remaining to be completed or corrected thereon before final payment. If Contractor does not object in writing to County that such part of the work is not ready for separate operation by County, County will finalize the list of items to be completed or corrected and will deliver such list to Contractor together with a written recommendation as to the division of responsibilities pending final payment between County and Contractor with respect to security, operation, safety, maintenance, utilities, insurance, warranties and guarantees for that part of the work which will become binding upon County and Contractor at the time when County takes over such operation (unless they shall have otherwise agreed in writing). During such operation and prior to substantial completion of such part of the work, County shall allow Contractor reasonable access to complete or correct items on said list and to complete other related work.
3. No occupancy or separate operation of part of the work will be accomplished prior to the insurers who are then providing the property insurance having acknowledged notice thereof and in writing effecting the changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policies, but the property insurance shall not be canceled or lapse on account of any such partial use or occupancy. Each party shall be responsible for notifying its own insurer.

ARTICLE XXIII: ARBITRATION

Arbitration

Where the total of all claims filed by Contractor are under \$375,000, County shall have the option of electing arbitration pursuant to Public Contract Code Sections 10240, et seq. If County does so elect, the mediation provisions of Public Contract Code Section 20104.4 shall not apply pursuant to Public Contract Code Section 20104(a)(2). If County does not elect such arbitration pursuant to Public Contract Code Sections 10240 et seq., the provisions of Public Contract Code Section 20104.4 shall apply.

Where the total of all claims filed by Contractor are above \$375,000, the arbitration provisions of this contract are voluntary. Neither County nor Contractor shall be required to enter into mediation or arbitration for amounts above \$375,000. Written consent of both parties to mediate or arbitrate such claims shall be a prerequisite to such mediation or arbitration. If the parties agree to arbitrate claims above \$375,000, the provisions of Public Contract Code Sections 10240, et seq. shall be utilized.

Time to Request Arbitration

No request for arbitration of any claim, dispute or other matter that is required to be referred to County initially for decision will be made until the earlier of (a) the date on which County has rendered a decision or (b) the tenth day after Contractor has presented its evidence to County if a written decision has not been rendered by County before that date. Unless otherwise required by law, no request for arbitration of any such claim, dispute or other matter will be made later than thirty days after the date on which County has rendered a written decision. Notice of the request for arbitration will be in writing to the other party.

ARTICLE XXIV: LABOR AND EMPLOYMENT

Worker's Compensation Certification

By my signature hereunder, as Contractor, I certify that 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 of that Code, and I will comply with such provisions before commencing the performance of the work of this contract.

Prevailing Wage Rates

In accordance with the provisions of Section 1770 and 1773 of the Labor Code, the County of Nevada has determined that prevailing wage rates are applicable to the work to be done. The Contractor shall post a copy of the wage rates on the job site.

The general prevailing wage rates determined by the Director of Industrial Relations, for the county or counties in which the work is to be done, are available from the California Department of Industrial Relations' Internet website at <http://www.wdol.gov>. These wage rates are not included in the proposal and contract for the project. Changes, if any, to the general prevailing wage rates will be available at the same location.

Pursuant to California Labor Code Section 1775, Contractor shall forfeit Two-hundred Dollars (\$200.00) for each calendar day, or portion thereof, for each worker paid less than the prevailing rates for such work or craft, and said amounts shall be distributed pursuant to the requirements of said Section 1775. Any employee whose type of work is not covered by any of the classified wage rates shall be paid not less than the rate of wage listed for the classification which most nearly corresponds to the type of work to be performed.

Collective Bargaining Agreements

Pursuant to California Labor Code Section 1773.8, Contractor shall pay travel and subsistence payments to all workers needed to execute the work as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with Section 1773.8 of the Labor Code.

Payroll Records

Contractor shall be responsible for keeping accurate payroll records as required by California Labor Code Section 1776. Contractor is aware that a penalty of twenty-five dollars (\$25.00) per day or portion thereof for each worker may be assessed for noncompliance with said section. Contractor shall forward to County a certified copy of each payroll record within ten days after close of each payroll period. Such certification shall include a statement that payroll is correct and complete and complies with prevailing wage requirements.

If by the 15th of the month, the Contractor has not submitted satisfactory payrolls for all work performed during the monthly period ending on or before the 1st of that month, County will retain an amount equal to 10 percent of the estimated value of the work performed during the month from the next monthly estimate, except that such retention shall not exceed \$10,000. Retentions for failure to submit satisfactory payrolls shall be additional to all other retentions provided for in the contract. The retention for failure to submit payrolls for any monthly period will be released for payment on the monthly estimate for partial payments next following the date that all the satisfactory payrolls for which the retention was made are submitted.

The Contractor and each subcontractor shall preserve their payroll records for a period of three years from the date of completion of the contract.

Limitations on Hours Worked

Eight hours constitutes a day's work and workers shall be limited to working 8 hours during any one calendar day and 40 hours during any one calendar week. Contractor and all subcontractors shall keep an accurate record of hours worked by each worker for each calendar day and each calendar week which record shall be available for inspection during business hours. Contractor shall, pursuant to California Labor Code Section 1813, forfeit twenty-five dollars (\$25) for each day for each worker where such worker is required or

permitted to work more than 8 hours in any one day and 40 hours in any one week in violation of the provisions of the Labor Code. No overtime shall be authorized unless prior written approval of County is obtained permitting such overtime. If such overtime work is authorized by County, Contractor shall compensate each worker required to work overtime at the rate of one and one-half (1-1/2) times the basic rate of pay. All costs for overtime inspection, except those occurring as a result of overtime and shift work established as a regular procedure, shall be paid by the Contractor. Overtime inspection shall include inspection required during holidays, Saturdays, Sundays, and any weekday between the hours of 5:00 p.m. and 7:00 a.m. Such costs will include but will not necessarily be limited to engineering, inspection, general supervision and other overhead expenses which are directly chargeable to the overtime work. All such charges shall be deducted by County from payments due the Contractor.

Equal Employment Opportunity and Nondiscrimination

During the performance of this contract, the contractor agrees to abide by all provisions of Section 1735 of the California Labor Code, as amended, regarding nondiscrimination practices.

Employment of Apprentice Labor

Reference is hereby made to Section 1777.5 of the Labor Code of the State of California, which regulations shall govern the employment of apprentices on the work.

Preference for Resident Labor

In the employment of labor for doing the work, the Contractor shall give preference to qualified persons residing within the general area of the work.

Incompetent Workers

If at any time any worker employed by Contractor or any of the subcontractors shall be declared by County to be incompetent or unfaithful in executing the work, the Contractor, on receiving written notice, shall forthwith initiate appropriate action to dismiss such person.

Labor Class Substitutions

If Contractor substitutes a labor classification or provides a new classification which results in a reduction in the contract price, County's execution of a change order evidencing said reduction in price shall in no way be construed, either express or implied, as consent to the use of said labor classification in the performance of any work on the project.

ARTICLE XXV: ASSIGNMENT

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, moneys that may become due and moneys 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.

ARTICLE XXVI: CONFLICT OF INTEREST RESTRICTIONS

No official of County who is authorized in such capacity and on behalf of County to negotiate, make, accept or approve, or to take part in negotiating, making, accepting, or approving any architectural, engineering, inspecting, construction or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof. No officer, employee, architect, attorney, engineer, or inspector of or for County who is authorized in such capacity and on behalf of County who is in any legislative, executive, supervisory, or other similar function in connection with the construction of the project, shall become directly or indirectly interested

personally in this contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

ARTICLE XXVII: WAIVER OF RIGHTS

No action or lack of action on the part of County at any time to exercise any right or remedy conferred upon it under this contract shall be deemed to be a waiver on the part of County of any of County's rights or remedies.

ARTICLE XXVIII: SUCCESSORS IN INTEREST

County and Contractor each bind themselves, their partners, successors, assigns and legal representatives to the other party hereto, their partners, successors, assigns and legal representatives in respect to all covenants, agreements, and obligations contained in the contract documents.

ARTICLE XXIX: NOTICE

Giving Notice

Whenever any provision of the contract documents requires the giving of written notice, it will be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent registered or certified mail, postage prepaid, to the last business address known to the giver of the notice. The business addresses of Contractor given in the bid form and Contractor's office at the site of the work are hereby designated as the places to which all notices, letters, and other communication to Contractor will be delivered. However, County or Contractor may change their addresses at any time by an instrument in writing delivered to the other.

Joint Venture Contractor

In the event the Contractor is a joint venture of two or more Contractors, all grants, covenants, provisos and claims, rights, powers, privileges and liabilities of the contract shall be construed and held to be several as well as joint; any notice, order, direction, request or other communication required to be or that may be given by County to the Contractor under this agreement shall be well and sufficiently given to all persons being the Contractor if given to any one or more of such persons; any notice, request or other communication given by any one of such persons to County under this agreement shall be deemed to have been given by and shall bind all persons being the Contractor.

ARTICLE XXX: VENUE AND JURISDICTION

This contract shall be construed in accordance with the laws of the State of California and the parties agree that venue shall be in Nevada County, California.

IN WITNESS WHEREOF, the parties hereto have signed this Agreement on the date first written, above. One counterpart each has been delivered to County, Contractor, and the Sureties. All portions of the contract documents have been signed or identified by County and Contractor.

COUNTY OF NEVADA

ATTEST:

Clerk of the Board

By: _____

Chairman, Board of Supervisors

CONTRACTOR

By: _____
Licensed in accordance with an act providing for
the registration of Contractors
License Number: _____
Fed. Tax ID No: _____
Telephone No: _____

TECHNICAL SPECIFICATIONS
FOR
UNIT 1 FINAL COVER MAINTENANCE
McCourtney Road Landfill
Nevada County, California

February 2017

Prepared for:

County of Nevada
Public Works Department
Solid Waste Division
950 Maidu Avenue
Nevada City, CA 95959

Prepared by:

Holdrege & Kull
792 Searls Avenue
Nevada City, CA 95959
530 478-1305

TABLE OF CONTENTS

DIVISION 1 – GENERAL REQUIREMENTS	1
SECTION 01010 – SUMMARY OF WORK.....	1
SECTION 01020 – SITE SAFETY	4
SECTION 01039 - COORDINATION AND MEETINGS	6
SECTION 01050 – FIELD ENGINEERING	8
SECTION 01300 – SUBMITTALS.....	11
SECTION 01400 – QUALITY CONTROL	12
SECTION 01600 – MATERIAL AND EQUIPMENT	14
SECTION 01700 – CONTRACT CLOSEOUT.....	15
DIVISION 2 – SITE WORK.....	16
SECTION 02010 – MOBILIZATION.....	16
SECTION 02220 – EXCAVATION AND GRADING.....	17
SECTION 02243 – GEOSYNTHETIC CLAY LINER	23
SECTION 02270 – EROSION CONTROL	31

ATTACHMENTS

PROJECT PLANS

CQA PLAN

DIVISION 1 – GENERAL REQUIREMENTS

SECTION 01010 – SUMMARY OF WORK

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Summary of work
- B. Contractor use of site and premises
- C. Work sequence
- D. Owner occupancy

1.02 RELATED SECTIONS

- A. General Conditions
- B. Special Conditions

1.03 SUMMARY OF WORK

- A. Existing site conditions: The Contractor shall make a thorough examination of the site to determine all existing conditions affecting the work.
- B. The work to be performed by the Contractor shall conform to the requirements of the General Conditions, these specifications, project plans, CQA Plan and other related documents, and shall include the furnishing of all labor, materials, tools, equipment and services necessary therefore incidental to complete the project. The work shall consist of, but not be limited to, the following:
 - 1. Remove topsoil layer and vegetative layer to new GCL (geosynthetic clay liner, see Sheet 2) subgrade. Stockpile topsoil (upper six inches) and vegetative soil separately for reuse.
 - 2. Grade, prepare and compact the subgrade surface with a smooth drum roller to support the new GCL.
 - 3. On the perimeter of the repair area, remove soil from existing GCL surface for overlap. Preserve the existing GCL and do not allow equipment traffic directly on GCL.
- C. Repair Areas 1 and 2

4. Preserve landfill gas wellheads. One 4-inch PVC well casing is located within each repair area. Owner will remove and replace wellhead and lateral gas piping.
 5. Subcontract with qualified Geosynthetic Installer for installation of new GCL over the prepared soil surface and installation of new well boots.
 6. Replace the vegetative layer using select imported soil and onsite soil. No angular materials or rocks greater than 1 inch in any dimension may be placed within 6 inches of the GCL.
 7. Replace topsoil layer.
 8. Fertilize and seed.
 9. Install erosion controls.
- D. Minor Repair Areas 3 through 10
1. Place and compact additional topsoil layer (typically 6 to 12 inches) to repair surface and promote drainage using select imported soil.
 2. Fertilize and seed.
 3. Install erosion controls.

1.04 CONTRACTOR USE OF SITE AND PREMISES

- A. Access to site is by the main facility entrance on Wolf Mountain Road. Contractor shall check in at the site office and shall make prior arrangements for site access during non-business hours, if necessary.
- B. Temporary power, if needed, is the responsibility of the Contractor.
- C. Water for dust control and earthwork will be available at the facility.
- D. Borrow soil is stockpiled near the repair areas for Contractor's use. An estimated 220 cubic yards (as measured in place) of select soil will need to be imported in addition to using approximately 50 cubic yards of onsite borrow soil located on the landfill deck.
- E. Construction operations are limited to the immediate vicinity of the repair areas and the existing access roads.
- F. Contractor is responsible for securing the work site so that it does not present a safety hazard.

1.05 WORK SEQUENCE

- A. Contractor shall submit a work schedule indicating sequence and dates for various phases of construction.
- B. Contractor shall subcontract with qualified Geosynthetic Installer for installation of GCL.
- C. Contractor shall notify CQA Monitor of any changes in schedule as soon as changes are anticipated.

END OF SECTION

SECTION 01020 – SITE SAFETY

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Requirements for site safety plan
- B. Information regarding potential contaminants

1.02 RELATED SECTIONS

- A. Section 02220 Excavation and Grading

1.03 REFERENCES

- A. Occupational Safety and Health (OSHA) Standards

1.04 SITE SAFETY PLAN

- A. Contractor shall prepare a site-specific safety plan describing the methods Contractor will implement to insure the safety of Contractor employees. Safety topics include but are not limited to:
 - 1. Protection from health risks associated with municipal refuse.
 - 2. Protection from health risks and other risks associated with landfill gas.
 - 3. Protection from accident and injury related to equipment operations, heat stress, earthwork and other work related to construction activities.
- B. The site safety plan shall include emergency response plans for fire and injury, including emergency telephone numbers and a map and directions to the nearest hospital.

1.05 PRESCRIPTIVE STANDARDS

- A. No smoking shall be allowed within 100 feet of the landfill unit.
- B. No open flame, sparks, welding or other source of combustion shall be allowed within 100 feet of the landfill unit.
- C. Preserve and protect the existing landfill components, including landfill liner components, gas wells, existing GCL and new GCL.
- D. Conduct a safety orientation prior to beginning work, and for all new employees, and conduct daily tailgate safety meetings.

- E. Maintain a copy of the site safety plan and material safety data sheets for chemicals, fuels or lubricants used at the site, in an unlocked location available to all employees, visitors, Owner, CQA Monitor and Engineer.
- F. Conform to all applicable OSHA standards.
- G. These prescriptive standards are intended as minimum requirements, and do not relieve Contractor of responsibility to assure safety of Contractor employees and site visitors.

1.06 SUBMITTALS

- A. Keep a copy of the safety plan on site at all times during the work, and submit a copy of the site safety plan to the Local Enforcement Agency (LEA; Nevada County Department of Environmental Health) upon request.

1.07 MEASUREMENT AND PAYMENT

- A. Work under this section shall be considered incidental, and no separate payment shall be made.

END OF SECTION

SECTION 01039 - COORDINATION AND MEETINGS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Coordination
- B. Field Engineering
- C. Preconstruction meeting
- D. Geosynthetics pre-installation meeting
- E. Progress meetings

1.02 RELATED SECTIONS

- A. Section 01700 - Contract Closeout

1.03 COORDINATION

- A. Coordinate scheduling, submittals, and work of the various sections of specifications to assure efficient and orderly sequence of installation of interdependent construction elements.

1.04 FIELD ENGINEERING

- A. Set and verify finish subgrade for soil surface receiving new GCL and finish grade of topsoil surface.

1.05 PRECONSTRUCTION MEETING

- A. After notice of award, Owner will schedule a meeting at the site prior to or during mobilization.
- B. Attendance required: Contractor, Owner, Engineer, CQA Manager
- C. Agenda
 - 1. Designation of personnel representing the parties in contract, responsibilities, authority and lines of communication
 - 2. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, requests for information and contract closeout procedures
 - 3. Schedule
 - 4. Owner's requirements

5. Construction facilities provided by Owner, construction water source
6. Security and housekeeping procedures
7. Testing and recordkeeping procedures, correcting and documenting construction deficiencies
8. Work area security and safety
9. Definition of storage areas, work areas, stockpile areas, laydown areas, access roads, haul roads, and related items.

1.06 GEOSYNTHETICS PRE-INSTALLATION MEETING

- A. Contractor will schedule a meeting at the site prior to or during mobilization for GCL installation.
- B. Attendance required: Contractor, Geosynthetic Installer, Owner, Engineer, CQA Manager
- C. Agenda
 1. Submittals and review
 2. Subgrade acceptance
 3. Schedule
 4. Responsibilities, authority and lines of communication
 5. Work area security and safety
 6. Procedures for correcting and documenting construction deficiencies
 7. Definition of storage areas, work areas, stockpile areas, laydown areas, access roads, haul roads, and related items

END OF SECTION

SECTION 01050 – FIELD ENGINEERING

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Survey and field engineering, and layout of all work.
- B. Establishing and maintaining all lines and grades.
- C. Project record documents.

1.02 RELATED SECTIONS

- A. Proposed finish grade contours are shown on the project plans for Repair Areas 1 and 2. Survey is required for Repair Areas 1 and 2.
- B. Proposed finish grade contours for minor Repair Areas 3 through 5 and 7 through 10 shall match surrounding contours and maintain a minimum slope of 2% to drain.
- C. Proposed finish grade contours for minor Repair Area 6 shall match surrounding contours and maintain uniform slope.
- D. Information regarding survey monumentation is available to bidders.
- E. Basic site engineering requirements may also be described in other sections of these specifications.

1.03 QUALITY ASSURANCE

- A. Employ a Land Surveyor or Engineer registered in the State of California and acceptable to the Engineer, to perform survey work of this section.

1.04 SUBMITTALS FOR REVIEW

- A. Data demonstrating qualifications of persons proposed to be engaged for field engineering services. On request, submit documentation verifying accuracy of survey and field engineering work.
- B. Submit a certificate signed by a registered professional that the elevations and locations of the work in Repair Areas 1 and 2 are in conformance with contract documents.

1.05 PROJECT RECORD DOCUMENTS

- A. Maintain a complete and accurate log of control and survey work.

1.06 EXAMINATION

- A. Verify locations of survey control points prior to starting work.

- B. Promptly notify the Engineer of any discrepancies discovered.

1.07 SURVEY REFERENCE POINTS

- A. Contractor to locate and protect survey control and reference points.
- B. Protect survey control points prior to starting site work; preserve permanent reference points during construction.
- C. Promptly report to the Engineer the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.
- D. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to and approval from the Engineer.

1.08 SURVEY REQUIREMENTS

- A. Provide field engineering services.
- B. Utilize recognized engineering survey practices.

1.09 MEASUREMENT AND PAYMENT

- A. Payment for field engineering is lump sum, and includes all work associated with surveying, project layout and construction control.

PART 2 - PRODUCTS

2.01 GRADE SHEETS

- A. Provide copies of grade sheets to Engineer.

2.02 TOLERANCES

- A. Subgrade for new GCL:
 - 1. Finish subgrade shall be constructed to within plus 0.0 foot or minus 0.1 foot for grades and +/- 1 foot for lines.
 - 2. Finish subgrade surface shall not vary by more than 0.10 foot from a uniform plane when measured with a 10-foot straight edge.
 - 3. A minimum slope of 2 percent shall be maintained in at least one direction from any given point.
- B. Finish grade for topsoil layer:
 - 1. Finish topsoil layer for Repair Areas 1 and 2 shall be constructed to within +/- 0.1 foot for grades and +/- 1 foot for lines.

2. A minimum slope of 2 percent shall be maintained in at least one direction from any given point for finish topsoil layer at Repair Areas 1 through 5 and 7 through 10 on the landfill deck.
3. Finish topsoil layer for Repair Area 6 shall confirm with the surrounding landfill slope.
4. Finish grade shall slope away from nearby landfill gas wells at a minimum slope of 10 percent for a distance of 5 feet.

END OF SECTION

SECTION 01300 – SUBMITTALS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Submittal procedures
- B. Construction progress schedules
- C. Manufacturer's certificates

1.02 RELATED SECTIONS

- A. Section 01400 Quality Control

1.03 SUBMITTAL PROCEDURES

- A. Transmit each submittal with a transmittal form approved by Nevada County Department of Public Works
- B. Sequentially number the transmittal forms
- C. For revisions and resubmittals, identify all changes made since previous submission

1.04 CONSTRUCTION PROGRESS SCHEDULES

- A. Submit initial schedule within 10 days after notice to proceed, and prior to start of work.
- B. Revise and resubmit as required.
- C. Notify CQA Monitor as soon as schedule changes are anticipated.

END OF SECTION

SECTION 01400 – QUALITY CONTROL

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Quality control
- B. Quality assurance

1.02 RELATED SECTIONS

- A. Section 01300 Submittals

1.03 REFERENCES

- A. Conform to referenced standards by date of issue current upon date of contract.
- B. Should specified reference standards conflict with contract documents, request clarification from the Engineer before proceeding.
- C. Contractual relationships of the parties to the contract shall not be altered from those set forth in the contract documents by mention or inference otherwise in any reference document.

1.04 QUALITY CONTROL

- A. Contractor shall monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
- B. Comply fully with manufacturer's instructions, including each step in sequence.
- C. Should manufacturer's instructions conflict with contract documents, request clarification from the Engineer before proceeding.
- D. Comply with specified standards as a minimum quality for the work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform work by persons qualified to produce workmanship of specified quality.

1.05 QUALITY ASSURANCE

- A. Owner is to retain QA Manager and QA Monitor pursuant to the Construction Quality Assurance (CQA) Plan (Holdrege & Kull, February 2017).
- B. The Contractor shall cooperate with the CQA Monitor, prepare earthwork testing areas using earthwork equipment, furnish samples of material.

- C. Notify CQA Monitor promptly when changes in schedule are anticipated, and no less than 24 hours prior to expected time for operations requiring services.
- D. Retesting required because of non-conformance to specified requirements shall be performed by the same independent firm on instructions by the Engineer. Payment for excessive retesting will be charged to the Contractor by deducting inspection or testing charges from the contract price.

1.06 MANUFACTURER CERTIFICATES

- A. When specified in individual specification sections, submit certification by manufacturer to the Engineer.
- B. Indicate whether material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
- C. Certificates may be recent or previous test results on material or product, but must be acceptable to the Engineer.

END OF SECTION

SECTION 01600 – MATERIAL AND EQUIPMENT

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Products
- B. Transportation and handling
- C. Storage and protection

1.02 RELATED SECTIONS

- A. Section 01300 Submittals
- B. Section 01400 Quality Control

1.03 TRANSPORTATION AND HANDLING

- A. Transport and handle products in accordance with manufacturer's instructions.
- B. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- C. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement or damage.

1.04 STORAGE AND PROTECTION

- A. Store and protect products in accordance with manufacturer's instructions, with seals and labels intact and legible.
- B. Store sensitive products in weather-tight, climate-controlled enclosures.
- C. For exterior storage of fabricated products, place on sloped supports, above ground.
- D. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation or potential degradation of product.
- E. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement or damage.

END OF SECTION

SECTION 01700 – CONTRACT CLOSEOUT

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Closeout procedures
- B. Project record documents

1.02 CLOSEOUT PROCEDURES

- A. Clean work site, remove waste and surplus materials.
- B. Submit written certification that contract documents have been reviewed, work has been inspected and work is complete in accordance with contract documents and ready for the Engineer's review.
- C. Provide submittals to the Engineer that are required by governing or other authorities.
- D. Submit final application for payment identifying total adjusted contract sum, previous payments, and sum remaining due.

1.03 PROJECT RECORD DOCUMENTS

- A. Submit grade sheets, geosynthetics product data sheets, manufacturer's certifications and installation layout sheets.

END OF SECTION

DIVISION 2 – SITE WORK

SECTION 02010 – MOBILIZATION

PART 1 - GENERAL

1.04 SECTION INCLUDES

- A. Mobilization procedures

1.05 MOBILIZATION PROCEDURES

- A. This work shall consist of preparatory work and operations necessary for the movement of personnel, equipment, materials, supplies, and incidentals to the site, and all other work and operations that must be performed or that cause costs to be incurred prior to beginning work on the various items under this contract (Bonds, initial schedules, etc.).

1.06 MEASUREMENT AND PAYMENT

- A. Payment for mobilization is lump sum including all incidentals.

END OF SECTION

SECTION 02220 – EXCAVATION AND GRADING

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Repair Areas 1 and 2

1. Remove topsoil layer and vegetative layer to new GCL subgrade (see Sheet 2). Stockpile topsoil (upper six inches) and vegetative soil separately for reuse.
2. Grade, prepare and compact the surface with a smooth drum roller to support the new GCL.
3. On the perimeter of the repair area, remove soil from existing GCL surface for overlap. Preserve the existing GCL and do not allow equipment traffic directly on GCL.
4. Preserve landfill gas wellheads. One 4-inch PVC well casing is located within each repair area. Owner will remove and replace wellhead and lateral gas piping.
5. Subcontract with qualified Geosynthetic Installer for installation of new GCL over the prepared soil surface and installation of new well boots.
6. Replace the vegetative layer using select imported soil and onsite soil. No angular materials or rocks greater than 1 inch in any dimension may be placed within 6 inches of the GCL.
7. Replace topsoil layer.

B. Minor Repair Areas 3 through 10

1. Place and compact additional topsoil layer (typically 6 to 12 inches) to repair surface and promote drainage using select imported soil.

1.02 RELATED SECTIONS

- A. Section 01050 Field Engineering
- B. Section 01400 Quality Control
- C. Section 02270 Erosion Control

1.03 MEASUREMENT AND PAYMENT

- A. Payment for site grading is lump sum including all incidentals. Payment for import of select soil is per cubic yard as measured in place.

1.04 REFERENCES

- A. ASTM D422 – Standard Test Method for Particle-Size Analysis of Soils
- B. ASTM D1557 – Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort
- C. ASTM D6938 – Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
- D. ASTM D2488 – Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)

1.05 QUALITY CONTROL

- A. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. See Section 01050 Field Engineering for tolerances for line and grade.
- C. A qualified testing laboratory will be retained by the Owner to perform QA tests for soil compaction and for observation of the earthwork. Owner's QA testing does not relieve Contractor from QC responsibilities and contract responsibilities.
- D. Samples of all imported fill material shall be delivered to Engineer at least five (5) days prior to import of soil. Written approval of material must be obtained prior to import.

1.06 PRESERVE LANDFILL GAS WELLHEADS DURING EARTHWORK

- A. Preserve landfill gas wellheads and laterals. Well casings are located within Repair areas 1, 2, 4, 8, and 9.

1.07 SUBCONTRACT QUALIFIED GEOSYNTHETIC INSTALLER

- A. Subcontract qualified Geosynthetic Installer for installation of new GCL over the prepared subgrade.

1.08 SUBMITTALS

- A. Submit representative soil samples to Engineer at least five days prior to import of soil material. Obtain written approval of material prior to import. Comply with General Conditions and pertinent provisions of Section 01300.

1.09 PRODUCT HANDLING

- A. Comply with provisions of Section 01600. Protect soil and soil stockpiles from erosion by wind or rain.

PART 2 - PRODUCTS

2.01 SELECT IMPORT

- A. Representative sample of proposed select import soil shall be submitted for review by Engineer prior to import.
- B. Select import shall be uncontaminated, clean and free of debris and organic matter, and shall contain no rocks greater than 1 inch in any dimension and no sharp, angular material.

2.02 VEGETATIVE LAYER

- A. Vegetative layer soil is to be removed, stockpiled and replaced.
- B. Onsite borrow used to supplement the vegetative layer shall be uncontaminated, clean and free of debris and organic matter, and shall contain no rocks greater than 3 inches in any dimension. Rocks or rock fragments greater than 1 inch must be screened or otherwise removed from the fill. No rocks greater than 1 inch in any dimension shall be placed within 3 inches of any GCL.

2.03 TOPSOIL LAYER

- A. Topsoil (upper six inches of existing soil) is to be removed, stockpiled separately and replaced.
- B. No additional topsoil is necessary if the existing topsoil is preserved and stockpiled separately. If additional topsoil is required because it was not adequately preserved, Contractor shall provide it at Contractor's cost, meeting the following requirements:
 - 1. Gradation Limits: Sand, 50 to 80 percent; clay 20 percent maximum; silt 30 percent maximum. Gradation limits shall be as defined in ASTM D422.
 - 2. Permeability Rate: Not less than 0.5 inch per hour nor more than 2 inches per hour when tested in accordance with ASTM D2434, California Test 220, or other approved method.
 - 3. Agricultural Suitability: The topsoil shall allow proper seed germination and be suitable to sustain the growth of the plants specified over a minimum of ten seasons, as determined by an approved local soil and plant testing laboratory.

Required amendments shall be recommended by the testing laboratory if the soil is not deemed suitable for the plants specified herein.

PART 3 - EXECUTION

3.01 DUST CONTROL

- A. Apply water to work area and haul routes as necessary to prevent dust becoming a nuisance to the public, to neighbors and to other work being performed on or near the site.
- B. Control dust emissions in accordance with Northern Sierra Air Quality Management District (NSAQMD) Rule 226.

3.02 PROTECTION OF GCL AT REPAIR AREAS 1 AND 2

- A. Soil shall be placed with low ground pressure equipment. A minimum thickness of 12 inches of cover shall be kept between heavy equipment and GCL.
- B. No vehicles shall be driven directly over the GCL until the proper thickness of cover has been placed. Care should be taken to avoid damaging the GCL by making sharp turns or pivots with equipment.
- C. To prevent damage to the GCL, the initial lift of soil cover shall not be compacted in excess of 90 percent of the maximum dry density as determined by ASTM D1557.
- D. Soil cover placement and equipment movement shall be along the GCL roll direction (parallel to the seams), and not perpendicular to the roll direction.
- E. If GCL is damaged during fill placement, it must be repaired pursuant to these specifications. The minimum patch size is 2 feet by 2 feet.
- F. Survey grade stakes shall not penetrate the existing or new GCL layer.

3.03 PROTECTION OF LANDFILL GAS WELL CASING

- A. Preserve landfill gas wellheads and laterals. Well casings are located within Repair Areas 1, 2, 4, 8, and 9. Coordinate with owner to remove and replace wellhead and lateral gas piping.

3.04 SUBGRADE

- A. Cut subgrade to line and grade shown on plans
 - 1. Finish subgrade shall be constructed to within plus 0.0 foot or minus 0.1 foot for grades and +/- 1 foot for lines.

2. The finish subgrade surface shall not vary by more than 0.10 foot from a uniform plane when measured with a 10-foot straight edge.
 3. A minimum slope of 2% shall be maintained in at least one direction from any given point.
- B. Prepare subgrade surface for installation of new GCL.
1. Remove rocks greater than 1 inch exposed at subgrade surface. The finish subgrade surface shall be free of all rocks, sharp stones, or debris of any kind that may damage the GCL.
 2. Moisture condition and compact with smooth drum roller to 90% of ASTM D1557 maximum dry density.
 3. Proof rolling shall be observed by the CQA Monitor to verify that the surface is firm and non-yielding. Loose or soft materials should be removed and replaced with compacted fill.
- C. Prepare GCL overlap zone
1. All soil shall be removed from the existing GCL for a minimum distance of one foot, as measured radially, at the overlap zone on the perimeter of the repair area to allow for GCL-to-GCL contact. Hand tools shall be used for final cleaning and sweeping to avoid damage to the existing GCL.
- D. Secure approval of Engineer in writing for subgrade prior to placing GCL.
- ### 3.05 VEGETATIVE LAYER
- A. Secure approval of Engineer in writing for GCL prior to placing vegetative layer.
- B. Preserve GCL during fill placement and compaction as described above in this section.
1. If GCL is damaged during fill placement, it must be repaired pursuant to these specifications. The minimum patch size is 2 feet by 2 feet. Survey grade stakes shall not penetrate the existing or new GCL layer.
- C. Fill shall be placed in lifts (layers) not exceeding 8 inches compacted thickness.
- D. Fill shall be processed and uniformly moisture conditioned within two percentage points of ASTM D1557 optimum moisture content prior to placement.
- E. Fill shall be compacted to a minimum of 90% of the ASTM D1557 maximum dry density.

- F. The completed vegetative layer shall have a thickness of 12 inches above the completed GCL layer.

3.06 TOPSOIL LAYER

- A. Upon acceptance of vegetative layer by Engineer, place and compact topsoil layer to 85 percent relative compaction as determined by ASTM D1557.
- B. The completed topsoil layer shall be a minimum thickness of 6 inches above the completed vegetative layer.
- C. Construct to line and grade shown on plans
 - 1. The finish topsoil layer shall be constructed to within +/- 0.1 foot for grades and +/- 1 foot for lines.
 - 2. A minimum slope of 2% shall be maintained in at least one direction from any given point for Repair Areas 1 through 5 and 7 through 10 on the landfill deck.
 - 3. Finish topsoil layer at Repair Area 6 shall conform to the surrounding landfill slope.

3.07 QUALITY CONTROL / QUALITY ASSURANCE

- A. Field testing will be provided by the Engineer or independent laboratory.
- B. Secure Engineer's approval of finish subgrade surface prior to GCL placement.
- C. Secure Engineer's approval GCL layer prior to vegetative layer placement.
- D. Secure Engineer's approval of finish vegetative layer surface prior to topsoil placement.
- E. Failed tests shall result in removal, re-processing and recompaction of materials. Retesting shall be at the discretion of the Engineer, and shall be at the Contractor's expense.

END OF SECTION

SECTION 02243 – GEOSYNTHETIC CLAY LINER

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. This section describes the general requirements for the manufacture, supply, installation, and quality control (QC) of geosynthetic clay liner (GCL) for final cover repair at Repair Areas 1 and 2. Contractor shall subcontract with a qualified Geosynthetic Installer for GCL supply and installation, as set forth in this section.

1.02 RELATED SECTIONS

- A. Section 01400 – Quality Control
- B. Section 01600 – Material and Equipment
- C. Section 02220 – Excavation and Grading

1.03 REFERENCES

- A. ASTM D2216 – Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
- B. ASTM D3776 – Standard Test Methods for Mass Per Unit Area (Weight) of Fabric
- C. ASTM D4533 – Standard Test Method for Trapezoid Tearing Strength of Geotextiles
- D. ASTM D4632 – Standard Test Method for Grab Breaking Load and Elongation of Geotextiles
- E. ASTM D5261 – Standard Test Method for Measuring Mass per Unit Area of Geotextiles
- F. ASTM D5321 – Standard Test Method for Determining the Shear Strength of Soil-Geosynthetic and Geosynthetic-Geosynthetic Interfaces by Direct Shear
- G. ASTM D4643 – Standard Test Method for Determination of Water (Moisture) Content of Soil by Microwave Oven Heating
- H. ASTM D4833 – Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products
- I. ASTM D5890 – Standard Test Method for Swell Index of Clay Mineral Component of Geosynthetic Clay Liners

- J. ASTM D5891 – Standard Test Method for Fluid Loss of Clay Component of Geosynthetic Clay Liners
- K. ASTM D5887 – Standard Test Method for Measurement of Index Flux Through Saturated Geosynthetic Clay Liner Specimens Using a Flexible Wall Permeameter

1.04 SUBMITTALS

- A. Product Data: Include installation, handling, storage, and repair instructions. Submit 5 days prior to shipment to the site.
- B. Certificates: Certifying that geotextile meets or exceeds material specifications. Submit 5 days prior to shipment to the site.
- C. Warranty: Submit manufacturer's warranty and ensure forms have been filled out in Owner's Representative's name and registered with manufacturer. Submit 5 days prior to installation.
- D. Manufacturer's QC certificates, including roll numbers and identification, sampling procedures, and results of quality control tests verifying that material properties are achieved.
- E. GCL installation plan, including:
 - 1. Drawings showing field panel layout with the proposed placement sequencing, schedule, and panel identification of the GCL sections.
 - 2. Typical seam section and any 3 and 4 way seam intersections.
 - 3. Each panel shall be marked with an identification code (numeric or alphanumeric) consistent with the layout plan.

1.05 QUALITY ASSURANCE

- A. Perform work in accordance with the CQA Plan.

1.06 QUALIFICATIONS

- A. Geotextile Manufacturer shall be a well-established firm with more than two years experience in the manufacture of geotextiles.
- B. Submit certified minimum average roll property values and the test methods used to determine those properties.
- C. Geosynthetic Installer shall meet the requirements of the CQA Plan.
- D. Geosynthetic Installer shall submit a complete description of their QC program, as applicable, for handling, installing, testing, repairing and providing a completed lining in accordance with the requirements of these specifications. Installer shall

have QC experience on 500,000 square feet of GCL. Resume shall be submitted with the QC program.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Install geotextile in dry conditions and in accordance with manufacturer's instructions.
- B. Suspend installation operations whenever climatic conditions, as determined by Owner's Representative, are unsatisfactory for placing geotextile to the requirements of this specification.

1.08 MEASUREMENT AND PAYMENT

- A. GCL supply and installation, as set forth in this section, will be performed on a lump sum basis.

PART 2 - PRODUCTS

2.01 BENTONITE

- A. Bentonite shall meet or exceed the following properties (BAS and GLA, 1996):

Property	Test Method	Unit	Value
Sodium Montmorillonite Content	X-ray diffraction	%	≥90
Free Swell (2 grams)	ASTM D5890	ml	≥24
Fluid Loss	ASTM D5891	ml	≤16
Moisture Content	ASTM D4643/D2216	%	≤10

- B. Bentonite shall be virgin first quality product mined and processed specifically for the purpose of manufacturing GCL.

2.02 CARRIER GEOTEXTILE

- A. Carrier geosynthetics shall be minimum 6-oz/sy, nonwoven, needlepunched polyester or polypropylene geotextile. The bentonite shall be attached to the carrier geosynthetics in a manner which prevents separation during transport, handling and installation and which is not detrimental to the other components of the composite liner system. The bentonite clay layer shall be incorporated between the two layers of carrier geotextiles and interlocked by needlepunching or stitching. Edge seams shall be sewn or stitched during manufacture.

- B. Carrier geotextiles shall be sampled and tested by the manufacturer during production to ensure product quality. The GCL Manufacturer shall sample and test geotextile(s) for quality control purposes. Quality control certificates from the Geotextile Manufacturer and GCL Manufacturer shall be submitted to and approved by the Engineer prior to shipment of the GCL to the site.
- C. Carrier geotextiles shall meet or exceed the minimum average roll values for the following physical properties (BAS and GLA, 1996):

Property	Test Method	Unit	Value
Mass per Unit Area	ASTM D3776	oz/sy	5.5
Grab Strength ¹	ASTM D4632	lbs	160
Grab Elongation ¹	ASTM D4632	%	50
Trapezoidal Tear Strength ¹	ASTM D4533	lbs	60

Note: 1 = Machine direction

2.03 GEOSYNTHETIC CLAY LINER

- A. GCL shall meet or exceed the minimum average roll values for the following physical and hydraulic properties (BAS and GLA, 1996):

Property	Test Method	Unit	Value
Mass per Unit Area, 20% moisture	ASTM D3776/D5261	oz/ft ²	16
Grab Strength	ASTM D4632	lbs	88
Internal Shear Strength	ASTM D5321	deg;psf	5; 400
Puncture Resistance	ASTM D4833	lbs	102
Grab Elongation	ASTM D4632	%	20
Hydraulic Conductivity ¹	ASTM D5887	cm/s	<5x10 ⁻⁹

Note: 1 = At 10 psi effective confinement stress

- B. GCL shall have no holes, pinholes, bubbles, blisters, gels, nicks, tears, cuts on edges, or contamination by foreign matter. GCL shall be needle-free. GCL shall be supplied in rolls and folding shall not be permitted.
- C. Each roll shall be labeled or tagged with roll identification number, name of manufacturer, date of production, product type and grade, lot number, physical

- dimension, and roll weight. The label or tag information shall be affixed or attached to the roll at all times during deployment of the roll. The product identification number, manufacturer name and lot number shall also be stenciled onto the start of each roll so that a positive verification can be made with label or tag information.
- D. GCL shall be monitored throughout the manufacturing process for product integrity and consistency. Manufacturer shall sample rolls for the following physical properties and at the following minimum frequency or per lot whichever results in the greatest number of tests:

Property	Test Method	Minimum Frequency
Mass per Unit Area	ASTM D3776	every 20,000 ft ²
Moisture Content ¹	ASTM D4643	every 20,000 ft ²
Hydraulic Conductivity	ASTM D5887	every 50,000 ft ²

Note: 1 = Raw bentonite

2.04 DELIVERY, STORAGE, AND HANDLING

- A. Handling, storage, and care of GCL shall be the responsibility of the Contractor. The Contractor shall be liable for all damage to the materials incurred prior to final acceptance by the Engineer.
- B. The Contractor shall be responsible for storage of the GCL at the site after the material is delivered. The geotextile shall be stored off the ground and out of direct sunlight, and shall be protected from mud, dirt, and dust, and any additional storage procedures required by the Geotextile Manufacturer.
- C. All rolls shall be identified at the factory with the following:
1. Manufacturer's name
 2. Product identification
 3. Lot Number
 4. Roll number
 5. Roll dimensions
- D. GCL shall be handled in such a manner as to ensure they are not damaged in any way.

- E. Precautions shall be taken to prevent damage to underlying materials during placement of the GCL.
- F. After unwrapping the geotextile from its cover, the geotextile shall not be left exposed for a period in excess of 30 days.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Ensure that subgrade soil has met all required compaction and preparation criteria and has been approved in writing by Engineer.
- B. Examine materials for defects including rips, holes, flaws, deterioration, or damage incurred during manufacture, transportation, or handling.
- C. Remove defective or damaged materials.

3.02 INSTALLATION

- A. Notify CQA Manager at least 24 hours in advance of intention to commence placement of GCL.
- B. Installation shall be performed in accordance with manufacturer's instructions and the following general guidelines.
 - 1. Use equipment which does not damage GCL, supporting subgrade surface or existing underlying GCL.
 - 2. All personnel working on GCL shall wear shoes that do not damage the GCL. No personnel shall be allowed to engage in activities that could damage the GCL.
 - 3. Clamps and other metal tools used in the work area shall have rounded edges (no sharp) corners. Clamps and other metal tools shall not be tossed or thrown.
 - 4. Panels shall be unrolled with a method that protects the GCL from scratches and crimps and protects the soil subgrade and underlying materials from damage.
 - 5. Place adequate temporary hold-downs to prevent uplift by wind.
 - 6. Protect GCL in heavy foot traffic areas by geotextile, extra GCL or other suitable materials. Materials used for protection shall be temporary and shall not be used as any part of the permanent installation. Do not allow vehicle traffic on GCL surface.

7. The number of panels deployed in one day shall be limited to the number of panels which can be installed, anchored, covered and sealed with vegetative cover material, and protected from moisture on the same day. In no case shall the GCL be exposed to the elements at the end of the day.

C. Weather Conditions

1. GCL shall not be deployed during precipitation, in the presence of excessive moisture, in areas of ponded water, or in the presence of excessive winds. All deployed GCL material shall be covered as soon as possible with a vegetative cover material and before the end of each working day.

D. Wind Protection

1. Protect GCL against adverse effects of high wind such as uplift. Sand bags may be used for this purpose.
2. Sand bags shall be sufficiently close-knit to preclude fines from working through the bottom, sides, or seams. Paper bags, whether or not lined with plastic, shall not be permitted.
3. Burlap bags, if used, shall be lined with plastic.
4. Sand bags shall contain not less than 40, nor more than 60 pounds of sand having 100 percent passing a number 8 screen, and shall be tied closed after filling, using only plastic ties. Metal or wire ties shall not be allowed.
5. Sand bags that are split, torn or otherwise losing their contents shall be immediately removed from the work area and any spills immediately cleaned up.

E. Seams shall be detailed to have the same minimum hydraulic conductivity as required through the body of the GCL.

1. Overlay all seams by a minimum of 6 inches.
2. Mark rolls with a continuous line along the edge of the roll at a distance of 6 inches for the purpose of verifying the minimum overlap.
3. Apply powdered bentonite (of the same quality used in the manufacturer of the GCL) between seams at the rate of 1/4 pound per linear foot of seam. Nails and staples will not be allowed.
4. Follow additional manufacturer recommendations regarding overlap and seaming.

5. For final seaming inspection, seams and the surface of the GCL shall be checked for defects, holes, blisters, undispersed raw materials, or signs of contamination by foreign matter. Installer shall distinctively mark (preferably with paint) repair areas and indicate required type of repair.

F. Repairs

1. Repair damaged GCL with patches of the same product. Patches shall overlap the edge of a hole or tear a minimum of 12 inches in all directions. Nails and staples will not be allowed.

G. Placement of Overlying Materials

1. Soil cover shall be placed with low ground pressure equipment. A minimum thickness of 12 inches of cover shall be kept between heavy equipment and the GCL at all times. No vehicles shall be driven directly over the GCL until the proper thickness of cover has been placed. Care should be taken to avoid damaging the GCL by making sharp turns or pivots with equipment.
2. To prevent damage to the GCL, the initial lift of soil cover shall not be compacted in excess of 90 percent of the maximum dry density as determined by ASTM D1557.
3. Soil cover placement and equipment movement shall be along the GCL roll direction, and not transverse to the roll direction.

- H. Any leading edge of panels left uncovered shall be protected at the end of the working day with a waterproof sheet which is adequately secured with sand bags or other ballast.

3.03 FIELD QUALITY CONTROL

1. The Contractor shall accept and retain full responsibility for all materials and installation and shall be held responsible for any defects in the completed system.

END OF SECTION

SECTION 02270 – EROSION CONTROL

PART 1 - GENERAL

1.09 SECTION INCLUDES

- A. Erosion control shall conform to these technical specifications and Section 20 of the Caltrans Standard Specifications except as modified herein.

1.010 MEASUREMENT AND PAYMENT

- A. Payment for erosion control is lump sum including all incidentals.

PART 2 - PRODUCTS

2.05 SEED

- A. The amount and type of seed shall be as follows (BAS and GLA, 1996) and shall comply with Caltrans Section 20, 20-2.10:

Seed	Rate (pounds per acre)
Vulpia myuros (Zorro fescue)	5
Festuca ovina (Covar fescue)	20
Hykon rose clover, inoculated	10
Lupinus bicolor (bicolor lupine)	2
Eschscholzia californica (California poppy)	2
Trifolium incarnatum (crimson clover)	2

2.06 FIBER

- A. Comply with Caltrans Section 20, 20-2.07

2.07 STRAW

- A. Comply with Caltrans Section 20, 20-2.06

2.08 STABILIZING EMULSION

- A. Comply with Caltrans Section 20, 20-2.11

2.09 FERTILIZER

- A. Fertilizer shall be applied at the rates listed below (BAS and GLA, 1996) and shall comply with Caltrans Section 20, 20-2.02

Fertilizer	Rate (pounds per acre)
Ammonium phosphate	200
Soil sulfur	1,000
Agricultural gypsum	2,000

2.010 FIBER ROLLS

- A. Prefabricated fiber rolls (wattles) shall conform to Caltrans Best Management Practice (BMP) SE-5.

PART 3 - EXECUTION

3.04 PREPARATION

- A. All areas designated to receive seed are to be pre-dampened to a 2-inch depth. Do not seed in hot, dry conditions.

3.05 TIMING

- A. Apply seed between the dates of October 1 and November 15.

3.06 APPLICATION

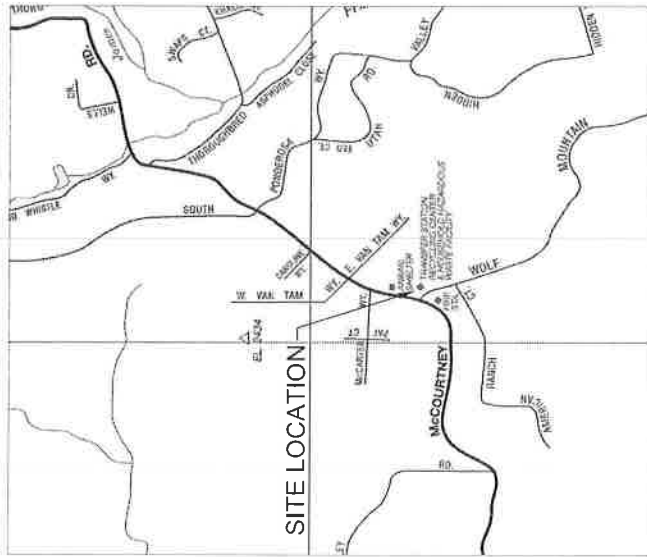
- A. Seed, fertilizer, fiber and stabilizer shall be uniformly spread over all areas disturbed by the work. Seed shall either be applied mechanically in a dry condition or with hydroseeding equipment, at the Contractor's option. If the Contractor elects to hydroseed, a minimum of 1,200 kg of fiber per acre shall be mixed and applied with the seed, and fertilizer may be mixed with the seed and fiber and applied in the hydroseeding operation. The fiber shall be furnished at the Contractor's expense and shall be in addition to incorporating straw.

3.07 FIBER ROLLS

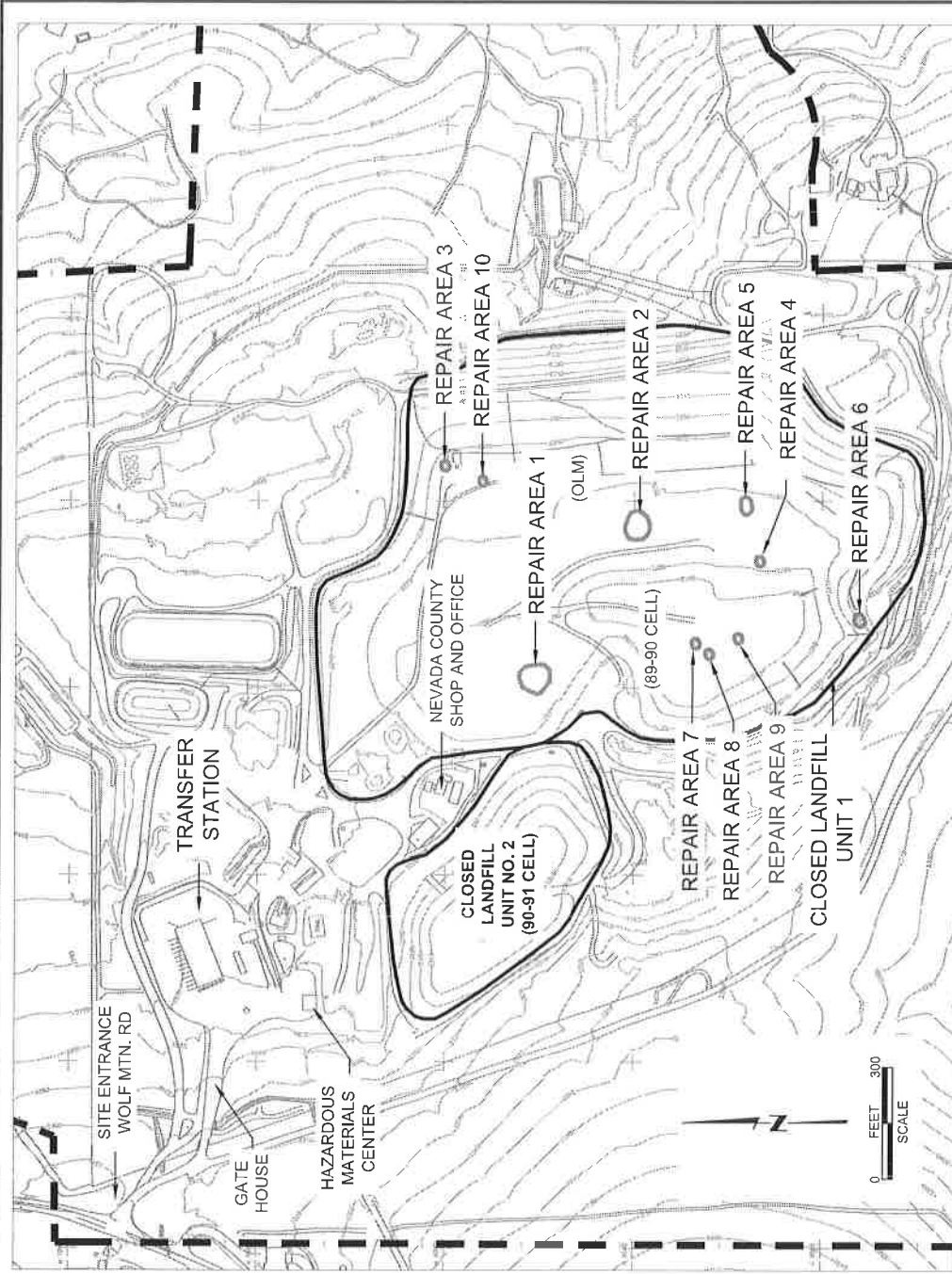
- A. Installation of fiber rolls (wattles) shall conform to Caltrans Best Management Practice (BMP) SE-5.
- B. Fiber rolls shall be installed on contour at the downslope edge of each repair area and within each the repair area at a maximum spacing of 30 feet.

1. Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
2. Stake fiber rolls into a 2-inch to 4-inch deep trench. Trench width shall be equal to the width of the roll.
3. Drive wood stakes at the end of each fiber roll and every four feet along the roll. Stakes shall be nominal $\frac{3}{4}$ in x $\frac{3}{4}$ in with a minimum length of 24 inches.
4. If more than one fiber roll is placed in a row, rolls shall be overlapped, not abutted.

END OF SECTION



VICINITY MAP
NOT TO SCALE

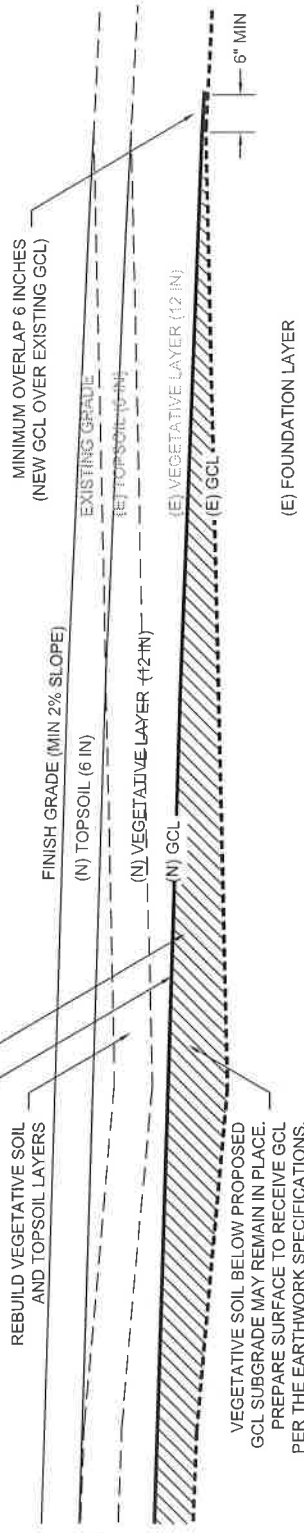


FACILITY MAP
1 INCH = 300 FEET

	UNIT 1 FINAL COVER MAINTENANCE MCCOURTNEY ROAD LANDFILL NEVADA COUNTY, CALIFORNIA		ORDER NO.: R5-2014-0022 DRAWN BY: BOTSFORD CHECKED BY: MUJR H&K PROJECT: 4142-01 DATE: FEBRUARY 2017
	NO.	REVISIONS	DATE
1 OF 4			

REMOVE TOPSOIL AND VEGETATIVE SOIL AND PREPARE SUBGRADE SURFACE FOR NEW GCL. COORDINATE WITH GEOSYNTHETIC INSTALLER FOR GCL INSTALLATION. REBUILD VEGETATIVE SOIL AND TOPSOIL LAYERS.

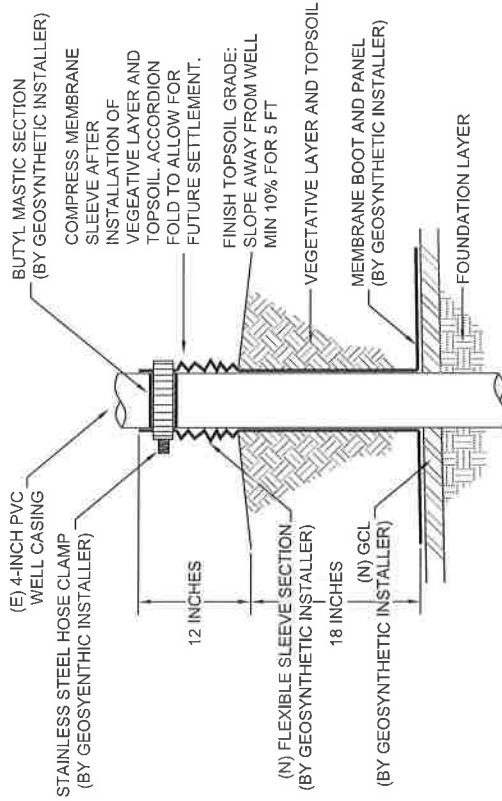
TYPICAL REPAIR SECTION
NOT TO SCALE



VEGETATIVE SOIL BELOW PROPOSED GCL SUBGRADE MAY REMAIN IN PLACE. PREPARE SURFACE TO RECEIVE GCL PER THE EARTHWORK SPECIFICATIONS.

TYPICAL WELL BOOT
NOT TO SCALE

WELL BOOT AND NEW GCL TO BE INSTALLED BY GEOSYNTHETICS INSTALLER UNDER SEPARATE CONTRACT. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH GEOSYNTHETICS INSTALLER REGARDING CONTRACTOR'S EARTHWORK SCHEDULE.



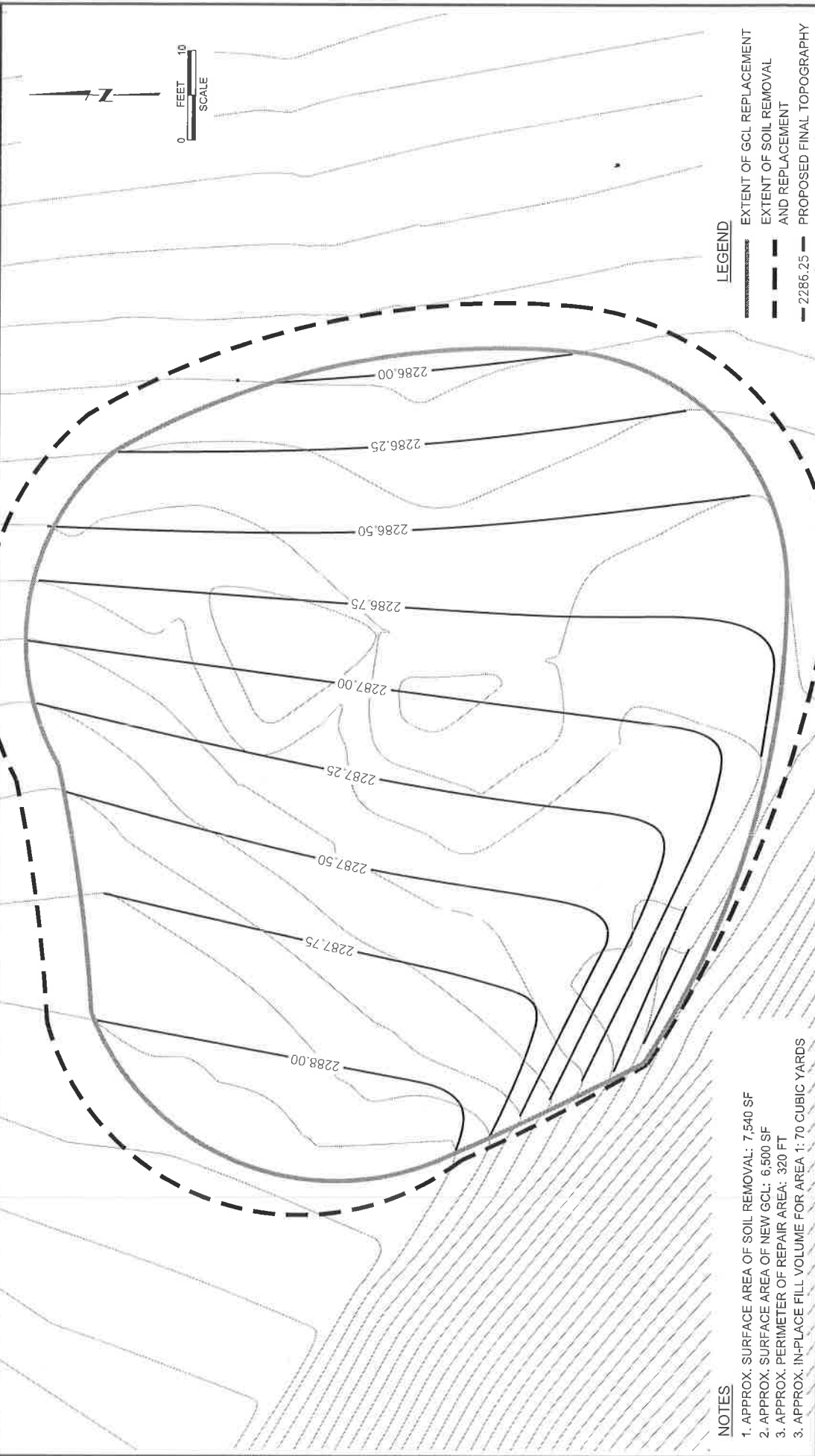
HK HOLDREGE & KULL
CONSULTING ENGINEERS • GEOLOGISTS
752 34th AVENUE - NEVADA CITY, CALIFORNIA 95959
(530) 428-2100 • www.hkholdregeandkull.com • (530) 428-0210 fax
REPUBLIC CITY • TRUCKEE • CHICO • YUBA CITY



TYPICAL SECTIONS
REPAIR AREAS 1 AND 2
MCCOURTNEY ROAD LANDFILL
NEVADA COUNTY, CALIFORNIA

NO.	REVISIONS	DATE

ORDER NO.:	R5-2014-0022
DRAWN BY:	BOTSFORD
CHECKED BY:	MUIR
H&K PROJECT:	4142-01
DATE:	FEBRUARY 2017



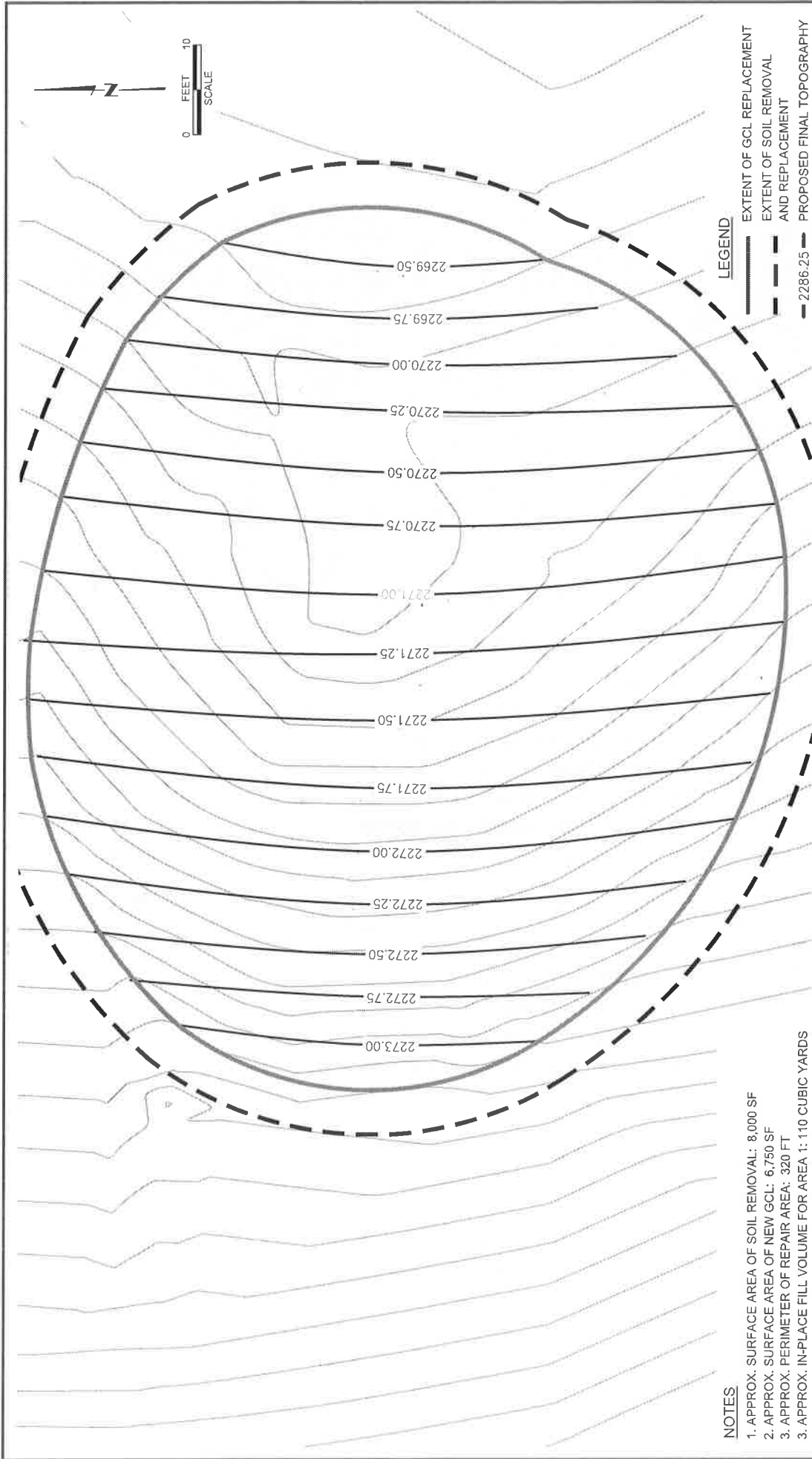
LEGEND

- EXTENT OF GCL REPLACEMENT
- EXTENT OF SOIL REMOVAL AND REPLACEMENT
- 2286.25 --- PROPOSED FINAL TOPOGRAPHY

NOTES

1. APPROX. SURFACE AREA OF SOIL REMOVAL: 7,540 SF
2. APPROX. SURFACE AREA OF NEW GCL: 6,500 SF
3. APPROX. PERIMETER OF REPAIR AREA: 320 FT
3. APPROX. IN-PLACE FILL VOLUME FOR AREA 1: 70 CUBIC YARDS

<p>HK HOLDREGE & KULL CONSULTING ENGINEERS • GEOTECHNICAL 718 SCARLETT AVENUE • NEVADA CITY, CALIFORNIA 95959 916.291.1515 • www.hkholdregeandkull.com • 0102 076 010 000 NEVADA CITY • TRUCKEE • CHICO • YUBA CITY</p>		<p>REPAIR AREA 1 McCOURTNEY ROAD LANDFILL NEVADA COUNTY, CALIFORNIA</p>		<p>NO.</p>	<p>REVISIONS</p>	<p>DATE</p>	<p>ORDER NO.: R5-2014-0022</p>
		<p>DATE</p>	<p>DRAWN BY: BOTSFORD</p>	<p>CHECKED BY: MUIR</p>	<p>H&K PROJECT: 4142-01</p>	<p>DATE: FEBRUARY 2017</p>	

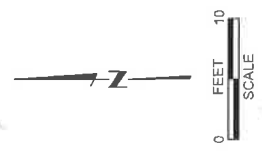


NOTES

1. APPROX. SURFACE AREA OF SOIL REMOVAL: 8,000 SF
2. APPROX. SURFACE AREA OF NEW GCL: 6,750 SF
3. APPROX. PERIMETER OF REPAIR AREA: 320 FT
3. APPROX. IN-PLACE FILL VOLUME FOR AREA 1: 110 CUBIC YARDS

LEGEND

- EXTENT OF GCL REPLACEMENT
- - - EXTENT OF SOIL REMOVAL AND REPLACEMENT
- · - · PROPOSED FINAL TOPOGRAPHY



<p>REVISIONS</p>		<p>ORDER NO.: R5-2014-0022</p>	<p>DATE:</p>
		<p>DRAWN BY: BOTSFORD</p>	<p>NO.:</p>
<p>REPAIR AREA 2</p> <p>McCOURTNEY ROAD LANDFILL</p> <p>NEVADA COUNTY, CALIFORNIA</p>		<p>CHECKED BY: MUJR</p>	<p>DATE:</p>
		<p>F&K PROJECT: 4142-01</p>	<p>NO.:</p>
<p>HK HOLDREGG & KULL</p> <p>CONSULTING ENGINEERS • GEODELISTS</p> <p>14234 BALS AVENUE, NEVADA CITY, CALIFORNIA 95959</p> <p>(530) 478-3838 ext. 200 www.HKHoldreggKull.com (530) 478-0258 fax</p> <p>NEVADA CITY • TRUCKEE • CHICO • YUBA CITY</p>		<p>DATE:</p>	<p>NO.:</p>
		<p>DATE: FEBRUARY 2017</p>	<p>NO.:</p>

CONSTRUCTION QUALITY ASSURANCE PLAN
for
UNIT 1 FINAL COVER MAINTENANCE
McCourtney Road Landfill
Nevada County, California

Prepared for:
County of Nevada
Public Works Department
Solid Waste Division
950 Maidu Avenue
Nevada City, California 95959

Prepared by:
Holdrege & Kull
792 Searls Avenue
Nevada City, California 95959

Project No. 4142-01
February 2017



Project No. 4142-01
February 1, 2017

County of Nevada
Public Works Department, Solid Waste Division
950 Maidu Avenue
Nevada City, California 95959

Attention: David Garcia, Solid Waste Program Manager

Reference: ***Unit 1 Final Cover Maintenance***
McCourtney Road Landfill
Nevada County, California

Subject: ***Construction Quality Assurance Plan***

Dear Mr. Garcia:

Holdrege & Kull (H&K) prepared this Construction Quality Assurance (CQA) Plan to outline procedures for repair of settlement-related sags at ten locations on the final cover of the Old Landfill Mass (OLM), located within Closed Landfill Unit 1 at the McCourtney Road Landfill (MRL). The ten repair areas measure approximately 18,200 square feet in total.

Nine of the proposed repair areas are located on the landfill deck, having slopes no steeper than 5:1, horizontal to vertical. Liner components for the landfill deck include, from top to bottom:

- Vegetative cover (native grass mix);
- 6 inches topsoil;
- 12 inches of compacted vegetative soil;
- Geosynthetic clay liner (GCL); and
- 24 inches of compacted foundation layer soil covering the waste.

One of the proposed repair areas is located on the landfill slope, having slopes no steeper than 3:1, horizontal to vertical. Liner components for the landfill slope in this area include:

- Vegetative cover (native grass mix);
- 6 inches topsoil;
- 6 inches of compacted vegetative soil;

- 12 inches low-permeability clay layer; and
- 24 inches of compacted foundation layer soil covering the waste.

TECHNICAL SPECIFICATIONS

Technical Specifications (H&K; February 2017) are presented under separate cover.

REPAIR PROCEDURES

Repair areas 1 and 2 are large enough that installation additional GCL is required to promote drainage. Rather than removing the existing GCL at the repair areas pursuant to Section 3 of the *Final Post Closure Maintenance Plan* (H&K; April 30, 2014), the existing GCL is to remain in place, and additional GCL is to be added after grade is modified.

Repair areas 3 through 10 involve only minor augmentation of the vegetative layer to promote drainage.

An estimated 270 cubic yards of clean soil (as measured in place) are required to adjust grade at the repair locations. Approximately 220 cubic yards of select soil are to be imported, and the remainder of the soil is to be borrowed from an existing stockpile located on the deck of Landfill Unit 1.

Repair procedures are summarized below:

Repair Areas 1 and 2

1. Remove topsoil layer and vegetative layer to new GCL subgrade. Stockpile topsoil (upper six inches) and vegetative soil separately for reuse.
2. Grade, prepare and compact the subgrade surface with a smooth drum roller to support the new GCL.
3. Prepare existing GCL on the perimeter of the repair area for overlap.
4. Install new GCL over the prepared soil surface and install new well boots.
5. Replace the vegetative layer and topsoil layer and install erosion controls.

Minor Repair Areas 3 through 10

1. Place and compact additional vegetative layer using select imported soil and install erosion controls.

CONSTRUCTION QUALITY ASSURANCE

Independent CQA is required when post-closure maintenance includes modification or repair of the low hydraulic conductivity (LHC) layer, including GCL or low-permeability clay liner. This CQA Plan is consistent with the CQA procedures set forth in the Final Closure Plan (BAS and GLA, 1996A), and the *Earthwork and Geosynthetics Quality Assurance Plan for Construction of the Final Cover System* (BAS and GLA, 1996B) which is appended to the Final Closure Plan.

H&K appreciates the opportunity to provide engineering services for McCourtney Road Landfill. If you have any comments or questions regarding the content of this plan or the proposed work in general, please contact the undersigned.

Sincerely,

HOLDREGE & KULL



Bryan Botsford
Staff Geologist



Jason W. Muir, CE 60167, GE 2697
Principal Engineer

copies: Central Valley Regional Water Quality Control Board, Todd DeFrate
County of Nevada Department of Environmental Health, Grant Eisen
CalRecycle, Diane Nordstrum-Lankim
PDF via email to all recipients

F:\1 Projects\4142 McCourtney Road Landfill\Task 14 - Unit 1 Cover Maintenance\00 Plans and Specs\04 CQA Plan\01
Text\4142-01-14 CQA Plan, Unit 1 Final Cover Maintenance, MRL.docx

TABLE OF CONTENTS

1	INTRODUCTION.....	1
1.1	DESCRIPTION OF CLOSED LANDFILL UNIT 1.....	1
1.2	DESCRIPTION OF LANDFILL COVER SYSTEM.....	1
1.3	PURPOSE AND LIMITATIONS.....	2
1.4	DEFINITIONS.....	2
2	QA ORGANIZATION.....	4
2.1	SCHEDULE OF WORK.....	4
2.2	PRECONSTRUCTION MEETING.....	4
2.3	GEOSYNTHETICS PRE-INSTALLATION MEETING.....	4
2.4	DAILY MEETINGS.....	5
2.5	PERSONNEL QUALIFICATIONS.....	5
2.6	LINE OF COMMUNICATION AND AUTHORITY.....	7
3	RECORD KEEPING.....	7
3.1	FORMS.....	7
3.2	ORGANIZATION.....	8
4	NONCONFORMANCE.....	9
5	SPECIFIC CQA TASKS.....	9
5.1	GENERAL SITE PREPARATION.....	9
5.2	TOPSOIL AND VEGETATIVE SOIL LAYER REMOVAL.....	9
5.3	SUBGRADE PREPARATION FOR GCL.....	10
5.4	IMPORT MATERIAL.....	10
5.5	CONSTRUCTION OF NEW GCL LAYER.....	12
5.6	REPLACEMENT OF VEGETATIVE SOIL LAYER.....	13
6	NOTICE OF FINAL COMPLETION.....	13
7	REFERENCES.....	14

FIGURES

Figure 1	Vicinity Map and Facility Map
Figure 2	Typical Sections, Repair Areas 1 and 2
Figure 3	Repair Area 1
Figure 4	Repair Area 2

APPENDIX A

CQA Forms

1 INTRODUCTION

The McCourtney Road Landfill (MRL) is located approximately four miles southwest of Grass Valley, as depicted on the location map, Figure 1. The geographic coordinates of the facility are latitude 39.172° north, longitude 121.109° west. The primary entrance is accessed by Wolf Mountain Road from McCourtney Road. Figure 2 is a facility map depicting the location of the two final cover repair areas.

1.1 DESCRIPTION OF CLOSED LANDFILL UNIT 1

Closed Landfill Unit 1 is a Class III landfill unit consistent with the classifications of its component landfill cells (the OLM and 89/90 Cell). Unit 1 accepted nonhazardous solid wastes, including but not limited to Municipal Solid Waste, as defined under Title 27/Subtitle D regulations.

1.2 DESCRIPTION OF LANDFILL COVER SYSTEM

The final cover system on the landfill deck (5:1, horizontal: vertical, or flatter), as defined in the Final Closure Plan (BAS and GLA, 1996) includes an engineered alternative final cover design with the following elements, listed from top to bottom:

1. Vegetative cover – native grass mix
2. Erosion resistant layer – 1½ feet vegetative cover soil (including 6" topsoil)
3. Low hydraulic conductivity (LHC) Layer – geosynthetic clay liner (GCL; hydraulic permeability (K) < 1E-09 cm/sec)
4. Foundation layer – 2 feet compacted foundation soil

The final cover system on landfill slopes includes the following components:

1. Vegetative cover – native grass mix
2. Erosion resistant layer – 1 foot vegetative cover soil (including 6" topsoil)
3. LHC layer – 1 foot compacted clay soil
4. Foundation layer – 2 feet compacted foundation soil

For the vegetative cover layer, the topsoil is amended with fertilizer and mulch to promote vegetative cover growth.

1.3 PURPOSE AND LIMITATIONS

The purpose of this QA Plan is to set forth procedures that are intended to verify that the materials used in maintenance of the final cover will be constructed, tested, and monitored according to the design specifications indicated in the approved closure plan. This QA Plan includes testing and inspection procedures that are to be performed during earthwork and geosynthetic installation to provide the County of Nevada and regulatory agencies with sufficient data to evaluate whether the end product meets the specified quality of materials and workmanship.

In contrast to quality assurance (QA), quality control (QC) is defined as testing that the Contractor performs to control his quality of work. While QC is the sole responsibility of the Contractor, the Project Manager may, at his/her discretion, provide results of QA monitoring. If such information is provided, the release of the QA data to the Contractor is for convenience only and will in no way relieve the Contractor from QC responsibilities or project requirements.

1.4 DEFINITIONS

"Construction Manager" – Person(s) or firm(s) authorized by Nevada County to manage and oversee the administration of the Construction Contract and coordination of the Contractor, QA Manager and Monitors, and the independent testing laboratory.

"Contractor" – The firm responsible for all aspects of final cover repairs and preparation of supporting surfaces. The Contractor is further responsible for his Subcontractors.

"County" – Nevada County Department of Public Works, Solid Waste Division.

"Geosynthetics" – A generic classification given to synthetic (man-made plastic and fabric) materials used in geotechnical and construction applications. Included are flexible membrane liners (FMLs), geotextiles, geosynthetic clay liner (GCL), geonets, geogrids, geocomposites and geocells.

"Geosynthetic Clay Liner (GCL)" – A factory manufactured hydraulic barrier typically consisting of a dry bentonite clay placed between and supported by an upper and lower geotextile, and needle punched or stitch bonded for strength.

"Geosynthetic Installer" – The contractor responsible for handling, storing, placing, seaming, and other aspects of the installation of the geosynthetics included in the final cover repairs.

"Geotechnical Consultant" – Geologist/geotechnical professional registered in the State of California and responsible for geotechnical design.

"Geotextile" – A permeable synthetic textile used with soil, rock, sand, gravel or any other similar materials. It can provide protection to other systems or serve to separate different materials.

"Independent Testing Laboratory" – The firm responsible for conducting tests on geotechnical or geosynthetic samples.

"Owner" – The owner of the site, in this case, the Nevada County Department of Public Works, Solid Waste Division.

"Project Documents" – All Contractor submittals, Construction Drawings, Record Drawings, "As-Built" Plans, Construction Specifications, QA Plan, Health and Safety Plan, and Project Schedule.

"Project Manager" – The County's designated representative responsible for the project.

"Project Plans and Specifications" – All project related Drawings and Specifications including design modifications and Record Drawings.

"QA Manager" – A person or firm authorized by Nevada County to be responsible for the Construction Quality Assurance (CQA). The QA manager will be a Civil Engineer, Geotechnical Engineer or Engineering Geologist registered in the State of California and will have related experience in landfill final cover construction, landfill design and construction, and soils testing. The QA Manager is responsible for observing, testing, documenting and certifying activities related to quality assurance for all aspects of construction.

"QA Monitor" – The individual(s) working under the direction of the QA Manager. Such personnel include "Technicians", "Surveyors", "Field Engineers" and "Field Geologists" representing the QA Manager. QA Monitors responsible for the earthwork shall be experienced in landfill construction monitoring, low-permeability soil construction, and compaction testing during grading operations. QA Monitors for geosynthetic materials shall be experienced in GCL and geotextile construction and testing.

"Work" – All tools, equipment, supervision, labor, and materials or supplies necessary to complete the project as specified herein and as shown on the Project Drawings.

2 QA ORGANIZATION

2.1 SCHEDULE OF WORK

Within the number of days specified in the Contract Documents after award of the Contract, the Contractor shall provide a schedule of work to the CQA Monitor. The schedule of work shall list the anticipated dates in which each bid Item will be completed. An updated schedule shall be provided within one week of request by the CQA Monitor.

2.2 PRECONSTRUCTION MEETING

The preconstruction meeting will be held prior to or during mobilization of the Contractor onto the site. The meeting will be scheduled at a time mutually acceptable to the Engineer, Owner, CQA Manager, and the Contractor. The meeting will be documented by the CQA Manager/Monitor. The Local Enforcement Agency (LEA), Cal Recycle, and CRWQCB representatives should be invited, although their participation is not mandatory. The purpose of the preconstruction meeting will be to:

- Address questions regarding interpretation of the scope of work.
- Notify the Contractor of any special conditions related to the use permits.
- Define lines of communication and authority.
- Review testing procedures.
- Establish a procedure for notifying Contractor of deficiencies, nonconformances, and correction of nonconformances.
- Inspect the work area and establish locations for materials and equipment storage.
- Address any concerns of the state or local agencies.

2.3 GEOSYNTHETICS PRE-INSTALLATION MEETING

A pre-installation meeting will be held at the site and should be attended by the Construction Manager, Contractor, Geosynthetic Installer, QA Manager and QA Monitor(s). The meeting will not be conducted until all manufacturer certifications required by the Specifications and this document are approved. Items to be addressed at this meeting include:

- Submittals and review

- Schedule
- Responsibilities, authority and lines of communication
- Work area security and safety
- Procedures for correcting and documenting construction deficiencies
- Definition of storage areas, work areas, stockpile areas, laydown areas, access roads, haul roads, and related items

2.4 DAILY MEETINGS

The CQA Monitor may meet with the Contractor daily to evaluate the progress of work. Continuous observation will not be required for this project except during GCL installation. Where appropriate, the following topics will be discussed during the periodic meetings:

- Project schedule and updates
- Daily work items
- Personnel and equipment assignments
- Nonconformances and correction procedures

The CQA Monitor will summarize the discussion in a daily report. These meetings will be informal unless a special meeting is called for an important purpose. If a special meeting is called, the minutes of the meeting will be completed by the CQA Monitor and attached to the daily report. Daily logs are submitted to the CQA Manager for review.

2.5 PERSONNEL QUALIFICATIONS

Contractor

The Contractor is required to have a current Class A contractor's license in the State of California. The Contractor will not be selected solely on bid amount, but will also be selected based on previous experience, equipment, and ability to complete the work within the time allotted.

Engineer

The Engineer will be a civil engineer or certified engineering geologist, licensed in the State of California, with experience in landfill design. The Engineer will be responsible for the following:

- Project design
- Review of submittals, if needed
- Response to requests for information from the CQA Monitor or CQA Manager regarding the intent of the construction specifications, unforeseen site conditions or potential changes

CQA Manager

The CQA Manager will be a civil engineer or engineering geologist licensed in the State of California and experienced in landfill design and CQA. The CQA Manager may also be the Project Engineer. The CQA Manager will be responsible for:

- Review of drawings and specifications
- Review of submittals, and if needed, referral of submittals to Project Engineer
- Coordination of the preconstruction meeting
- Review of daily logs, schedules and meeting minutes
- CQA oversight
- Review of pay requests
- Review of requests for information from the contractor and referral to the Project Engineer
- Coordination between Owner and Contractor

CQA Monitor

The CQA Monitor will be, at minimum, a geologist, engineer-in-training, or trained construction supervisor with experience in landfill inspection. The responsibilities of the CQA Monitor will include:

- Perform or oversee soil testing and recordation.
- Coordinate sampling and testing.
- Observe and document installations.
- Document nonconformances and corrections (for approval by the Engineer).
- Prepare daily reports and meeting minutes, assess schedule compliance and organize inspection records.
- Keep a log of site visitors.

Testing Laboratory

The testing laboratory performs specific tests at the request of the CQA Monitor, at the locations indicated by the CQA Monitor, and then reports the findings to the CQA Monitor. Testing may include geosynthetics or soil testing.

2.6 LINES OF COMMUNICATION AND AUTHORITY

The CQA Monitor will be the Owner's onsite representative and will be responsible for communication between the Contractor and the CQA Manager, and coordination with the surveyor (if required). The CQA Manager will be the liaison between the Owner, Project Engineer, and CQA Monitor.

3 RECORD KEEPING

3.1 FORMS

The following forms are attached to this plan:

Daily Report

The daily log will be used to summarize the work performed by the Contractor during that day. Information logged will include an estimate of temperature, weather conditions and rainfall within the last 24 hours. Temperature, rainfall and wind must be estimated in appropriate units (i.e., inches, degrees, and mph). The log must also contain the following information as applicable to the work being performed:

- Visitors
- Subcontractors present
- Equipment and personnel working
- Testing performed that day
- Summary of work performed that day, methods employed and equipment used
- Documentation of spoken communication with contractor such as deficiencies noted or corrected, clarification provided, questions asked by the contractor, information provided
- QA forms including laboratory test results, field test logs and nonconformance notices
- All references to earthwork must be keyed to survey or staking coordinates

Meeting Minutes Log

The CQA Monitor records minutes during the meetings. Copies are provided to the Engineer, Owner, and Contractor. The construction schedule, if revised, is attached.

Nonconformance Notice

The Nonconformance Notice will be used by the CQA Monitor to notify the Contractor in writing that the performance standards set forth in the Specifications have not been met. Correction of the inadequacy will also be noted on the same form. The location of the inadequacy must be defined by grid coordinates or other repeatable measurements. Field testing sheets and laboratory reports must be attached and spoken results cited.

Certification of Completion Form

The Certificate of Completion form will be used by the Engineer to notify the Contractor and Owner that the Contractor has completed a Bid Item or a portion of a Bid Item. The purpose of the Certificate of Completion will be to notify the Contractor that a scope of work is finished so that the Contractor can proceed with subsequent work and receive payment by the Owner.

3.2 ORGANIZATION

Binders or file will be kept by the CQA Monitor or CQA Manager for future submittal to the Owner, Project Engineer, and CRWQCB. The binders will include the following:

- Bid summary
- Addenda
- Notice to Proceed
- Requests for payment
- Written correspondence, including emails
- Conversation logs other than those on the daily logs
- Daily Logs and Meeting Minutes
- Survey data
- Soil and geosynthetics test results
- Submittals
- Other pertinent data

4 NONCONFORMANCE

Where testing indicates that the performance standards are not met, the CQA Monitor may at his discretion order additional testing from the Contractor to further define the lateral and vertical extent of the nonconformance. It is the Contractor's responsibility to meet the standards of the Technical Specifications regardless of the CQA Monitor's comments. After the nonconformance has been corrected, the CQA Monitor will order retests to document conformance with the performance standard. After testing indicates passing results, the CQA Monitor will complete the Nonconformance Form citing the method of correction and retest numbers. The Contractor is responsible for the cost of retests for failed original tests.

5 SPECIFIC CQA TASKS

Maintenance and repair of the final cover system shall be performed in accordance with the Project Drawings and Specifications and shall be continuously observed, and routinely sampled and tested by the QA Monitor(s) for the physical parameters described in this section.

The testing frequencies presented herein are minimum frequencies. Additional tests will be conducted by the QA Monitor at any time that, in his/her opinion, additional testing is required and/or a deficiency is suspected. Retests of previously failed areas will be performed at the discretion of the QA Manager or QA Monitor when, in his/her opinion, sufficient reworking of the area has been performed by the Contractor to warrant a retest.

Following a thorough re-working of a failed area, retesting will be performed by the QA Monitor to evaluate whether the re-worked area meets the requirements of the project.

5.1 GENERAL SITE PREPARATION

The CQA Monitor will verify the requirements for mobilization, excavation of topsoil and vegetative soil layers, placement and compaction of foundation layer soil, installation of new GCL layer, replacement of vegetative soil and topsoil, and installation of erosion controls. The CQA Monitor will report any changes from the tasks discussed with the Engineer during the preconstruction meeting.

5.2 TOPSOIL AND VEGETATIVE SOIL LAYER REMOVAL

The topsoil and vegetative soil layer in Repair Areas 1 and 2 will be excavated and removed as necessary to obtain new GCL subgrade elevation, to an extent of at

least 5 feet beyond the boundary of the area to receive new GCL. Care should be taken not to damage the existing GCL during excavation and removal of the vegetative soil layer.

After stripping the topsoil layer, vegetative soil may remain over the GCL where it does not conflict with the new GCL grade and where it does not have to be removed to facilitate GCL overlap.

A location will be chosen adjacent to each repair area for the temporary stockpiling of the removed topsoil and vegetative layer soil. Topsoil (upper six inches) and vegetative soil (six to 18 inches deep) should be stockpiled separately. Erosion control Best Management Practices should be implemented at each stockpile location.

All clearing, grubbing, stripping, and repair area preparation shall be accomplished to the satisfaction of the QA Monitor prior to placement of fill material.

5.3 SUBGRADE PREPARATION FOR GCL

Subgrade for the GCL in Repair Areas 1 and 2 will be performed in accordance with the project drawings and specifications and will be observed by the QA Monitor for the physical parameters described in this section.

Subgrade preparation will be performed to achieve design grades and to remove surface irregularities. The upper 6 inches of subgrade will be scarified, rocks in excess of 1 inch removed, smooth graded, compacted, and rolled with a smooth drum roller. The finished surfaces will be free of all rocks, sharp stones, or debris of any kind that may damage the GCL.

The finished surface of the foundation layer will not vary by more than 0.10 foot from a uniform plane when measured with a 10-foot straight edge. Additionally, a minimum of 2 percent slope will be maintained in at least one direction from any given point.

5.4 IMPORT MATERIAL

Select import soil shall be submitted for review by the QA Manager prior to import. Soil shall be clean and free of debris, uncontaminated and contain no rocks greater than 1 inch in any dimension. No rocks greater than 1 inch may be placed within 3 inches of the GCL.

Rocks or rock fragments greater than 3 inches in any dimension must be screened or otherwise removed from the fill during processing and prior to fill placement.

An estimated 220 cubic yards of select soil are to be imported, and approximately 50 cubic yards will be borrowed from an existing stockpile on the landfill deck.

Fill material will be uniformly moisture conditioned, thoroughly mixed to obtain a uniform condition, and compacted per the specifications.

Repair Areas 1 and 2

Based on a survey performed by KPFF Consulting Engineers in June 2015, approximately 70 cubic yards of fill material will be used for Repair Area 1, and approximately 110 cubic yards of fill material will be used for Repair Area 2, for an estimated total of 180 cubic yards supplemental soil, as measured in place.

Repair Areas 3 through 10

Select imported fill will be required to augment the topsoil layer at minor Repair Areas 3 through 10. An estimated 90 cubic yards of soil will be required for these minor repair areas.

Quality Assurance

The testing frequencies presented herein are minimum. Additional tests will be conducted by the QA Monitor at the QA Monitor's discretion. Testing is to be performed according to the following schedule:

Test Description	Test Designation	Minimum Test Frequency
Laboratory Compaction Curve (Moisture-Density Relationship)	ASTM D1557	One per repair area
In-Place Moisture/Density	ASTM D6938	Four per repair area
Visual Classification	ASTM D2488	Daily

The processed moisture content of on-site material should be within 2 percentage points of optimum. If testing indicates results do not meet the specifications, the lift or portion thereof should be retested, and if necessary, reworked until the required moisture/density has been attained. No GCL will be placed until the subgrade has been tested and meets the requirements of this section to the satisfaction of the QA Manager.

5.5 CONSTRUCTION OF NEW GCL LAYER

Construction of the new GCL layer will be performed in accordance with the project drawings and specifications and will be continuously observed by the QA Monitor for the physical parameters described in the technical specifications.

The Geosynthetic Installer is to submit manufacturer's certifications pursuant to the technical specifications, and each roll is to be labeled or tagged with a roll identification number and other information set forth in the technical specifications.

Quality Control Program

The Geosynthetic Installer is to submit a complete description of their quality control program, as applicable, for handling, installing, testing, repairing and providing a completed lining in accordance with the requirements of the technical specifications.

The Geosynthetic Installer is to submit a panel layout drawing and obtain approval of the Engineer prior to commencement of any GCL work.

Installation

The Geosynthetic Installer will visually inspect all GCL for imperfections, faulty or suspect areas and possible damage prior to and following installation. Damaged materials are to be replaced pursuant to the technical specifications.

The Geosynthetic Installer is to overlay all seams by a minimum of 6 inches, and will mark rolls with a continuous line along the edge of the roll at a distance of 6 inches for the purpose of verifying the minimum overlap.

Powdered bentonite will be applied (of the same quality used in the manufacturer of the GCL) between seams at the rate of 1/4 pound per linear foot of seam.

For final seaming inspection, seams and the surface of the GCL shall be checked for defects, holes, blisters, undispersed raw materials, or signs of contamination by foreign matter. The contractor shall distinctively mark, preferably with paint, repair areas, and indicate required type of repair.

Damaged GCL will be repaired with patches of the same product. Patches shall overlap the edge of a hole or tear a minimum of 12 inches in all directions. Nails and staples will not be allowed.

5.6 REPLACEMENT OF VEGETATIVE SOIL LAYER

Care should be taken to avoid damaging the GCL by making sharp turns or pivots with equipment. To prevent damage to the GCL, the initial lift(s) of soil cover shall not be compacted in excess of 90 percent of the maximum dry density as determined by ASTM D1557.

Any leading edge of panels left uncovered shall be protected at the end of the working day with a waterproof sheet which is adequately secured with sand bags or other ballast. The GCL shall not be deployed during precipitation, in the presence of excessive moisture, in areas of ponded water, or in the presence of excessive winds. All deployed GCL material shall be covered as soon as possible with a vegetative cover material and before the end of each working day.

Vegetative layer material within 12 inches of the GCL shall be placed with low-ground pressure equipment. The direction of travel for all placement equipment shall be parallel to the seams of the GCL. Vegetative layer material shall be compacted to 90 percent of the maximum dry density per ASTM D1557. Irreducible rock or rock fragments in excess of 1 inch in maximum dimension shall not be placed within 3 inches of the GCL.

The upper 6 inches of cover shall consist of topsoil that was previously salvaged and stockpiled during the initial excavation of the repair areas. If a sufficient amount of top soil cannot be salvaged, it will be imported from an approved source. Imported top soil shall have the same relative composition and structure, a friable sandy loam character, and be free of roots and rocks larger than 1 inch in greatest dimension, and must meet the requirements set forth in the technical specifications.

Topsoil is to be moisture conditioned and compacted to 85 percent of the maximum dry density as determined by ASTM D1557.

Once replacement of the vegetative soil and topsoil layers is complete, erosion controls (seed, mulch, fertilizer, fiber rolls) are to be installed pursuant to the technical specifications.

6 NOTICE OF FINAL COMPLETION

After the CQA Monitor finds all items completed, the CQA Manager will recommend the Owner file the Notice of Completion. The CQA Monitor will then compile the project documents, as described above, into an as-built report. The CQA Manager will prepare a cover letter stating that after reviewing the inspection

documents, to the best of his or her knowledge, the liner has been installed in accordance with the project contract.

7 REFERENCES

Bryan A Stirrat & Associates (BAS) and GeoLogic Associates (GLA), 1996A. Final Closure Plan for the McCourtney Road Landfill. December.

GeoLogic Associates (GLA), 1996. Earthwork and Geosynthetics Quality Assurance Plan for Construction of the Final Cover System. December.

Holdrege & Kull (H&K), 2014. Final Post Closure Maintenance Plan, McCourtney Road Landfill. April 30.

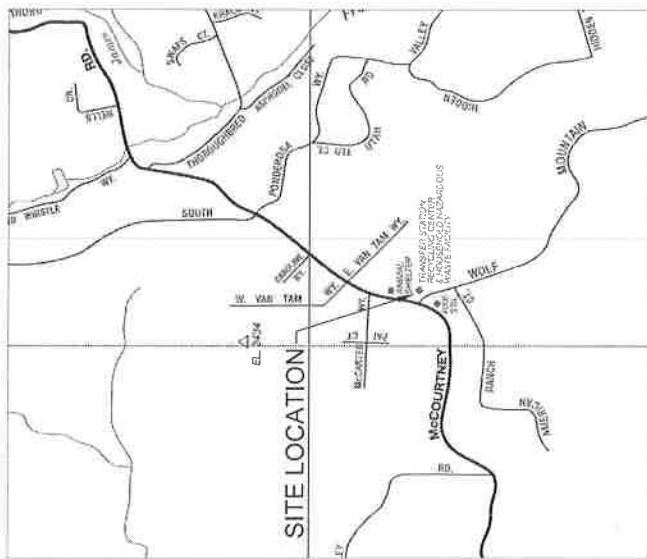
FIGURES

Figure 1 Vicinity Map and Facility Map

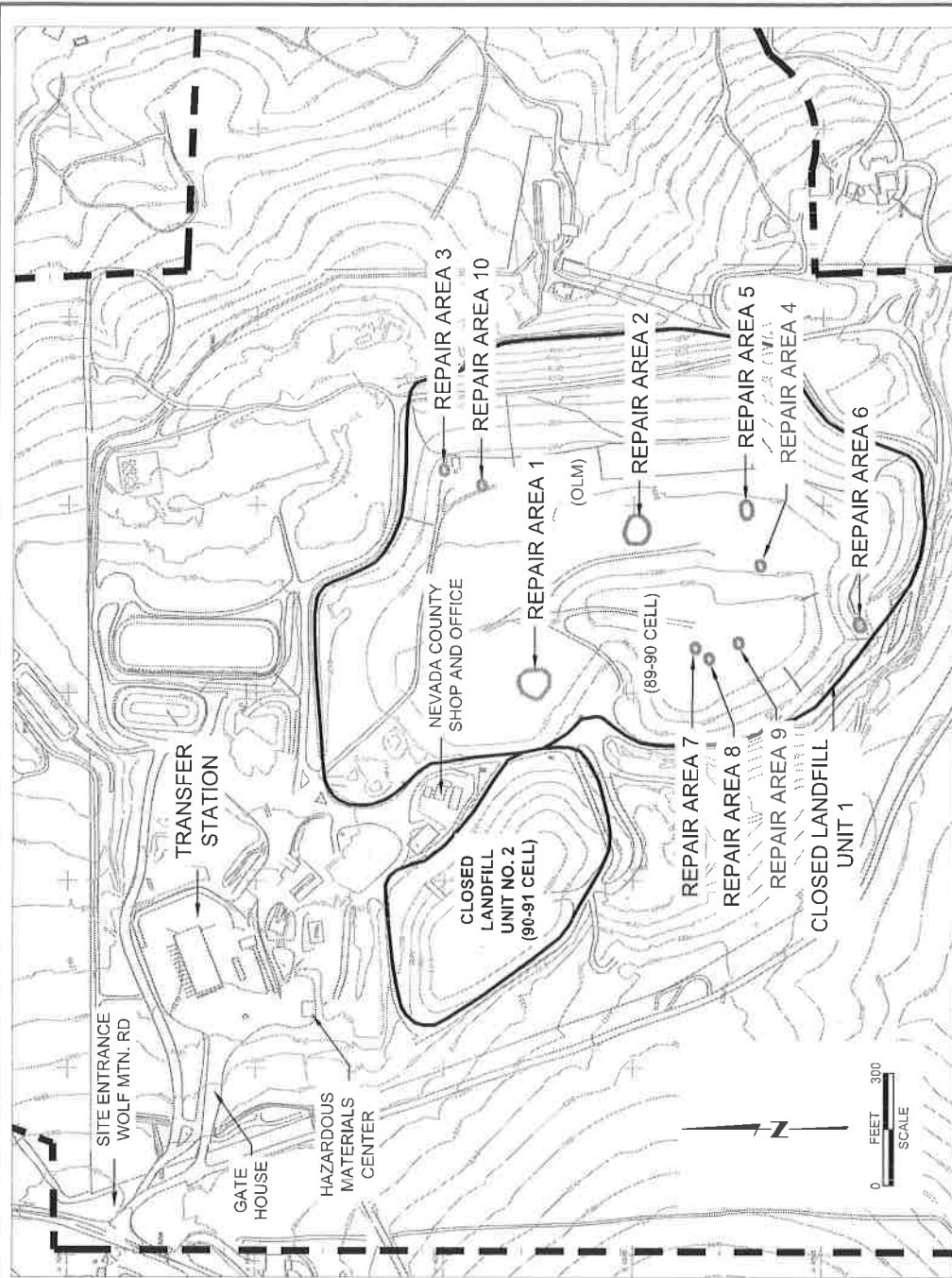
Figure 2 Typical Sections, Repair Areas 1 and 2

Figure 3 Repair Area 1

Figure 4 Repair Area 2



VICINITY MAP
NOT TO SCALE

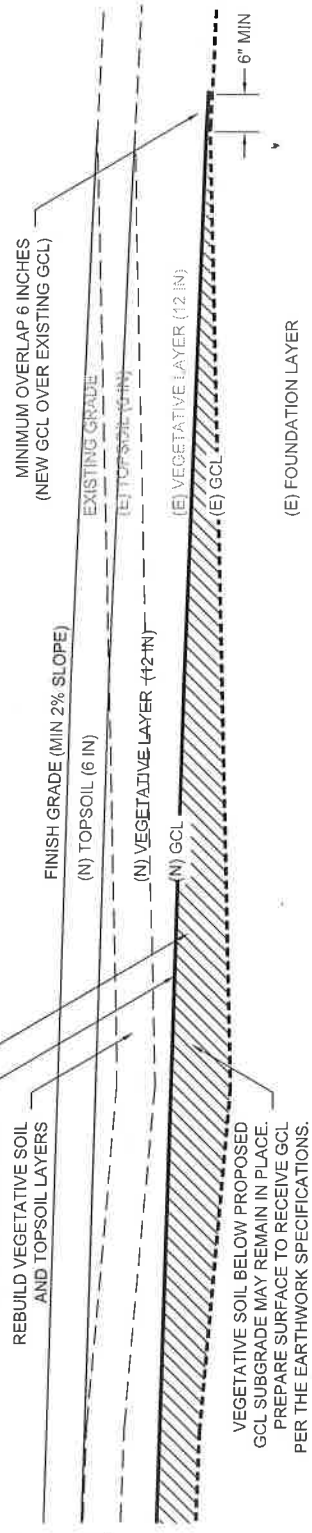


FACILITY MAP
1 INCH = 300 FEET

<p>HK HOLDREGGE & KULL CONSULTING ENGINEERS • GEOLOGISTS 322 37th AVENUE, NEVADA CITY, CALIFORNIA 95959 916-241-2200 Phone, www.hkholdreggeandkull.com, 6514 HK-NSP-16a</p>		<p>UNIT 1 FINAL COVER MAINTENANCE MCCOURTNEY ROAD LANDFILL NEVADA COUNTY, CALIFORNIA</p>		NO.	REVISIONS	DATE	ORDER NO.: R5-2014-0022
					DRAWN BY: BOTSFORD		
					CHECKED BY: MUJR		
					H&K PROJECT: 4142-01		
			DATE: FEBRUARY 2017				

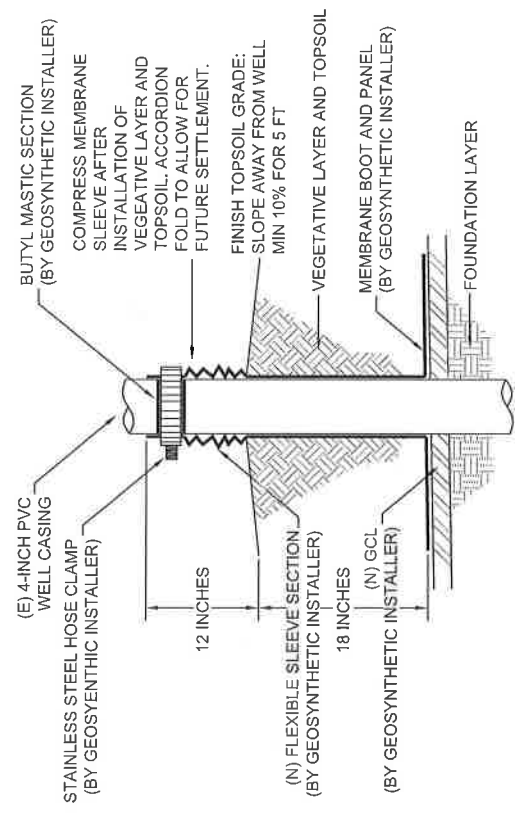
REMOVE TOPSOIL AND VEGETATIVE SOIL AND PREPARE SUBGRADE SURFACE FOR NEW GCL
 COORDINATE WITH GEOSYNTHETIC INSTALLER FOR GCL INSTALLATION
 REBUILD VEGETATIVE SOIL AND TOPSOIL LAYERS

TYPICAL REPAIR SECTION
 NOT TO SCALE



VEGETATIVE SOIL BELOW PROPOSED GCL SUBGRADE MAY REMAIN IN PLACE. PREPARE SURFACE TO RECEIVE GCL PER THE EARTHWORK SPECIFICATIONS.

TYPICAL WELL BOOT
 NOT TO SCALE
 WELL BOOT AND NEW GCL TO BE INSTALLED BY GEOSYNTHETICS INSTALLER UNDER SEPARATE CONTRACT. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH GEOSYNTHETICS INSTALLER REGARDING CONTRACTOR'S EARTHWORK SCHEDULE.

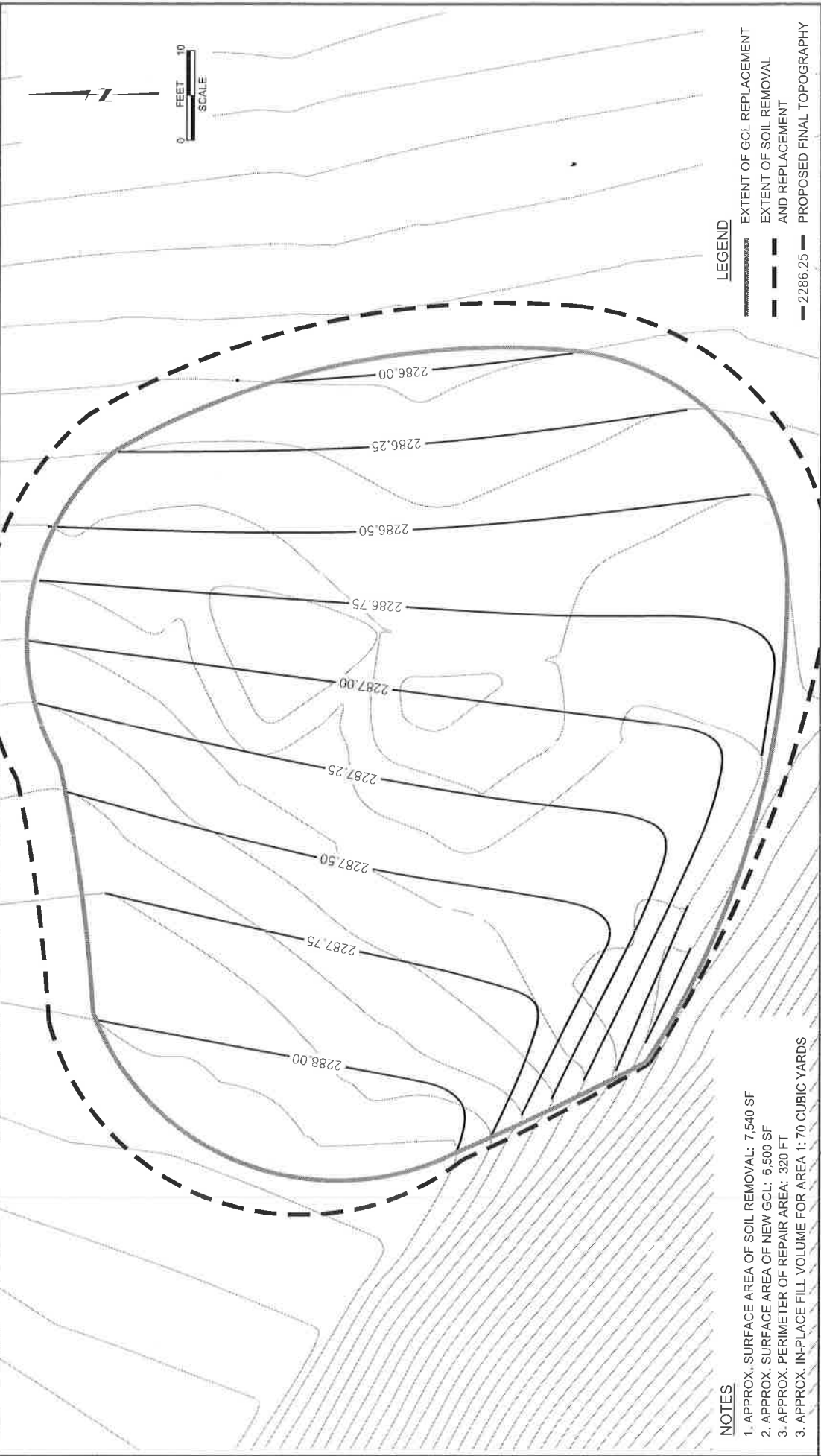


HK HOLDREGE & KULL
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 752 34th AVENUE, NEVADA 89716, CALIFORNIA 95559
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 NEVADA/CITY • TRUCKEE • ORISO • TULSA/CITY



TYPICAL SECTIONS
REPAIR AREAS 1 AND 2
 MCCOURTNEY ROAD LANDFILL
 NEVADA COUNTY, CALIFORNIA

NO.	REVISIONS	DATE	ORDER NO.:
			R5-2014-0022
			DRAWN BY: BOTSFORD
			CHECKED BY: MUIR
			H&K PROJECT: 4142-01
			DATE: FEBRUARY 2017



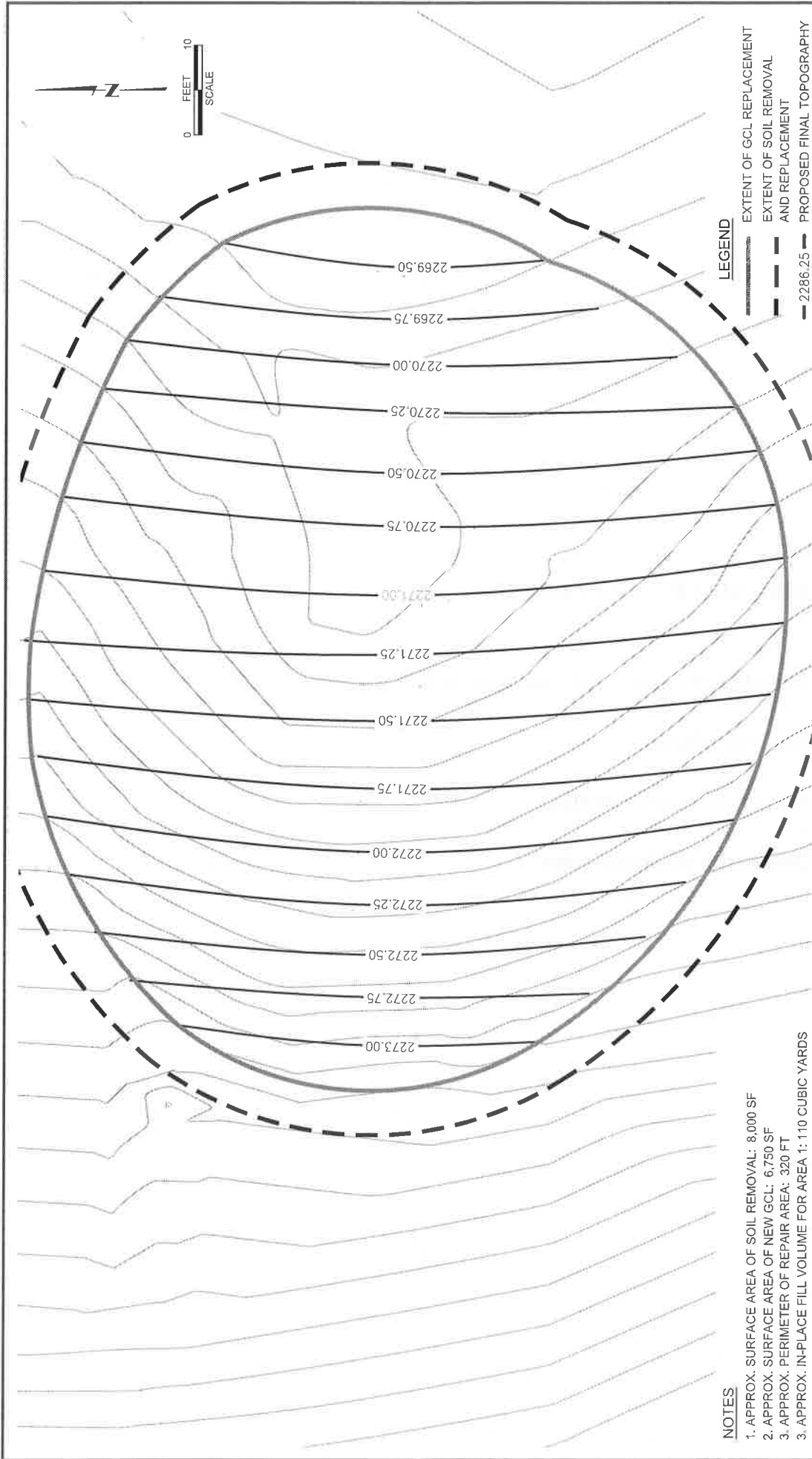
NOTES

- 1. APPROX. SURFACE AREA OF SOIL REMOVAL: 7,540 SF
- 2. APPROX. SURFACE AREA OF NEW GCL: 6,500 SF
- 3. APPROX. PERIMETER OF REPAIR AREA: 320 FT
- 3. APPROX. IN-PLACE FILL VOLUME FOR AREA 1: 70 CUBIC YARDS

LEGEND

- EXTENT OF GCL REPLACEMENT
- - - EXTENT OF SOIL REMOVAL AND REPLACEMENT
- · - · - · PROPOSED FINAL TOPOGRAPHY

<p>HK HOLDREGE & KULL CONSULTING ENGINEERS • GEOLOGISTS 702 2440 AVENUE, NEVADA CITY, CALIFORNIA 95959 (530) 434-0500 • www.hkholdregenkull.com (530) 434-0500 fax NEVADA CITY • TRUCKEE • CHICO • YUBA CITY</p>		<p>REPAIR AREA 1 MCCOURTNEY ROAD LANDFILL NEVADA COUNTY, CALIFORNIA</p>		<p>NO.</p>	<p>REVISIONS</p>	<p>DATE</p>	<p>ORDER NO.: R5-2014-0022</p>
<p>SEAL OF THE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS STATE OF CALIFORNIA</p>							<p>DRAWN BY: BOTSFORD</p>
							<p>CHECKED BY: MUIR</p>
							<p>H&K PROJECT: 4142-01</p>
							<p>DATE: FEBRUARY 2017</p>
							<p>3 OF 4</p>



NOTES

1. APPROX. SURFACE AREA OF SOIL REMOVAL: 8,000 SF
2. APPROX. SURFACE AREA OF NEW GCL: 6,750 SF
3. APPROX. PERIMETER OF REPAIR AREA: 320 FT
3. APPROX. IN-PLACE FILL VOLUME FOR AREA 1: 110 CUBIC YARDS

LEGEND

- EXTENT OF GCL REPLACEMENT
- EXTENT OF SOIL REMOVAL AND REPLACEMENT
- - - 2286.25 PROPOSED FINAL TOPOGRAPHY

HK HOLDREGG & KULL
 CONSULTING ENGINEERS • GEOLOGISTS
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 (916) 478-1200 ext. 200 www.hkholdregg.com (706) 478-0715 fax
 NEVADA CITY • TRUCKEE • CHICO • YUBA CITY



REPAIR AREA 2
 McCOURTNEY ROAD LANDFILL
 NEVADA COUNTY, CALIFORNIA

NO.	REVISIONS	DATE

ORDER NO.:	R5-2014-0022
DRAWN BY:	BOTSFORD
CHECKED BY:	MUIR
H&K PROJECT:	4142-01
DATE:	FEBRUARY 2017

APPENDIX A – CQA FORMS

Field Report and Field Test Summary

Meeting Minutes

Nonconformance Notice

Certificate of Completion



HOLDREGE & KULL

CONSULTING ENGINEERS • GEOLOGISTS

Nevada City, California (530) 478-1305 – Truckee, California ((530) 587-5156 – Chico, California (530) 894-2487– Murphys, California (530) 362-2775

Field Report

Project-Phase #:	Task#	Project Name:	Date:	DFR #:
Project Manager:	H&K Rep:	Project Location:	Day of Week:	Weather:
Client (name, address):			Client Representative (name, phone number):	
General Contractor (name, address):			General Contractors Representative (name, phone number):	
Specialty Contractor:			Specialty Contractors Representative (name, phone number):	
Plans / Specifications (name, date, by):				
Project Briefing (date, with):				
Previously Reported (report #, date, by):				

Field Memos (outstanding test):
Field Memos (general):

NOTES (Describe work completed during the day, any problems and their solutions):

Picture Caption here	Picture Caption here

I hereby certify that the noted portions of the work at the above address which required periodic and/or continuous inspection, and which I was employed to inspect, were inspected and, in my opinion, and to the best of my knowledge, comply with the provisions of the approved plans and specifications, except as noted.

Signature _____ Date _____

Holdrege & Kull

Table 1

Summary of Field Relative Compaction Test Results

Project No.: _____ **Project Name:** _____ **Location:** _____

Test Information		Relative Test Location Data					Lab Data					Location:								
		No.	Date (m/d/y)	Construction Unit Description	Relative Coordinates		Depth Below Finish Subgrade (ft)	Elev. or A.B. (ft)	Curve No.	Max. Dry Unit Wt. (pcf)		Opt. Moist. Content (%)	Lab. K Factor	Gauge Moist. Cont. (%)	corrected moistn	Wet Unit Wt	Dry Unit Wt (pcf)	Rel. Comp. (%)	Spec. Min. Relative Comp. (%)	# Falling
					LCL or Northing (ft)	RCL or Easting (ft)				Location or Station (ft)										
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**UNIT 1 COVER MAINTENANCE, MCCOURTNEY ROAD LANDFILL
MEETING MINUTES LOG**

Date:

Attendance:

Topics Discussed:

NONCONFORMANCE NOTICE / FIELD MEMO



HOLDREGE & KULL

CONSULTING ENGINEERS • GEOLOGISTS

Notice #:

--

Project Name:		Project #:	DFR#:
Field Technician:		Date:	
Submitted To:		Company:	
Description of Item:			
Plans / Specifications / Detail Reference:		Date of Plans / Specs:	
Observed By:	Signature:	Date:	
Corrective Action Observed By:	Signature:	Date:	

FIELD COPY - WHITE

CONTRACTOR'S COPY - YELLOW

CLIENT'S COPY - PINK

CERTIFICATE OF COMPLETION



HOLDREGE & KULL
CONSULTING ENGINEERS • GEOLOGISTS

Notice #:

Project Name:		Project #:	DFR#:
Field Technician:		Date:	
Submitted To:		Company:	
Description of Item:			
Plans / Specifications / Detail Reference:			Date of Plans / Specs:
Observed By:	Signature:	Date:	
Corrective Action Observed By:	Signature:	Date:	

FIELD COPY - WHITE

CONTRACTOR'S COPY - YELLOW

CLIENT'S COPY - PINK