

**County of Orange, OC Public Works
Sukut Construction, LLC****MA-299-22011298****CONTRACT MA-299-22011298**

Frank R. Bowerman Phase VIII- A1 Groundwater Protection

This Agreement is made and entered into the ____ day of _____, 20____, by and between the County of Orange, a political subdivision of the State of California (“County”), and **Sukut Construction, LLC** (“Contractor”).

County and Contractor agree as follows:

1. CONTRACT DOCUMENTS

Contract Documents, which together comprise the complete agreement between County and Contractor, consist of the following: the Bid; this Contract; the General Conditions; Supplementary General Conditions; the Non-collusion Declaration; Special Provisions; Addenda and Bulletins; Attachments; Appendices; Plans; Standard Plans; Standard Specifications; all Reference Specifications mentioned in any Contract Documents; and all modifications and amendments to the foregoing issued after the date of execution of the Agreement, including Amendments and Change Orders. The Contract Documents also include the Faithful Performance Bond and the Labor and Material Payment Bond unless such bonds are expressly not required for this Project by the Supplementary General Conditions or Special Provisions. The Contract Documents are complementary, and what is called for by anyone shall be as binding as if called for by all.

2. SCOPE OF WORK

Contractor shall perform all work as required by, and in strict accordance with the Contract Documents. The Project consists of clearing and grubbing, soil excavation, dewatering systems, soil stockpiling, water supply system, landfill gas collection system, groundwater protection system, drainage improvements and miscellaneous civil improvements.

3. CONTRACT PRICE AND TIME**3.1. CONTRACT PRICE**

County shall pay Contractor for all work required by the Contract Documents the Contract Price of **Fifty-Four Million, Eighty-Seven Thousand, and Thirty Dollars (\$54,087,030.00)**, as it may be adjusted pursuant to the “CHANGES” Section of the General Conditions, and in accordance with the “PAYMENTS” Section of the General Conditions.

3.2. CONTRACT TIME

Within ten (10) calendar days of the Board of Supervisors’ award of the Contract, Contractor shall submit to County for its review: acceptable bonds; proof of insurance; initial job progress schedule; and any additional documentation required prior to execution of this Contract by the Contract Documents, Supplementary General Conditions or Special Provisions. If County rejects the submitted documents, Contractor will have 5 additional calendar days to resubmit. If Contractor fails to submit documents within the required time(s), the Contract Time (as defined below) will be reduced by the number of days which exceed the time for submittal. If Contractor fails to submit acceptable documents by the second submission, County may, at its sole discretion, proceed to award the Contract to the next lowest responsive, responsible bidder or reduce the Contract Time by the number of days between County’s rejection of the second submission and County’s approval of the documents.

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Upon County's approval of the bonds, insurance, initial job progress schedule, and any other required submitted documents, County will deliver to Contractor a signed copy of the Agreement and a Notice to Proceed with the work. Contractor shall not commence construction until County issues the Notice to Proceed. Contractor shall complete all work required by the Contract Documents within **650** calendar days of the effective date of the Notice to Proceed ("Contract Time"). The Contract Time includes 40 calendar days of anticipated weather days necessitating stoppage of work, and a time extension due to rain or other adverse weather conditions will only be granted in accordance with the "DELAYS DUE TO WEATHER AND FORCE MAJEURE" Section of the General Conditions.

4. BONDS

Within ten (10) calendar days after award of the Contract, the successful Contractor shall furnish a Faithful Performance Bond and a Labor and Material Payment Bond, each in an amount equal to 100% of the Contract Price and issued by a surety in accordance with the requirements of the General Conditions of the Contract. The bonds shall be in the form of the models included in the Invitation for Bid Documents and must be approved by County's Risk Manager and County Counsel. The successfully Contractor shall submit the bonds with original signatures. The signature of the surety representative must be notarized.

5. LIQUIDATED DAMAGES

In accordance with Government Code Section 53069.85, Contractor agrees to forfeit and pay to County the sum of **\$15,000** per day ("Liquidated Damages") for each calendar day that completion of all the work required by the Contract Documents is delayed beyond the Contract Time, as may be adjusted by Change Order. For work involving the East Soil Fill as shown on design sheets C-217 and C-218 ("East Soil Fill Work"), the Contractor shall complete all portions of this work within 120 calendar days of the effective date of the Notice to Proceed ("East Soil Fill Milestone"). Contractor agrees to forfeit and pay to County the additional sum of **\$10,000** per day for each additional calendar day that completion of all of the East Soil Fill Work is delayed beyond the East Soil Fill Milestone time, as may be adjusted by Change Order. For work involving the Phase VIII-A1 Grading as is delineated on design sheets C-202, C-203 and Phase 1 Liner as is delineated on design sheets C-209 and extended onto sheets C-201 and C-207 (collectively "Phase 1 Liner Work"), the Contractor shall complete all portions of this work within 300 calendar days of the effective date of the Notice to Proceed ("Phase 1 Liner Milestone"). Contractor agrees to forfeit and pay to County the additional sum of \$35,000 per day for each additional calendar day that completion of all of the Phase 1 Liner Work is delayed beyond the Phase 1 Liner Milestone time, as may be adjusted by Change Order. The sum Contractor-forfeits and pays to County for each day that completion of all of the work and completion for the Phase 1 Liner Work is delayed (collectively "Liquidated Damages") is cumulative. That is Liquidated Damages imposed for delay of East Soil Fill Work and Phase 1 Liner Work beyond the ~~and~~ East Soil Fill Work Phase 1 Liner Milestone time will not offset or be deducted from Liquidated Damages forfeited and paid to County for delay of all of the work required by the Contract Documents beyond the Contract Time. County may deduct such sum from any payments due or to become due to Contractor. If the Liquidated Damages exceed the unpaid balance of the Contract Price otherwise owed to Contractor, then Contractor shall immediately pay County the difference.

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Contractor shall be capable of performing, and shall perform with its own organization, work amounting to at least **51 percent** of the Base Bid Amount. However, any Bid Item designated as a Specialty Bid Item will be excluded from the Base Bid Amount for purposes of this Section only.

7. ESCROWED DOCUMENTS**7.1. STORAGE OF BID DOCUMENTS**

Within 3 working days after County opens the Bids, the apparent low Bidder shall submit to County in a sealed container all documents created, reviewed, or maintained by Bidder during the course of preparing its Bid for the Contract (“Escrowed Documents”). All Escrowed Documents shall be stamped “CONFIDENTIAL” and indicate the Project name. County shall maintain the Escrowed Documents in a separate double-locked storage cabinet. County and Bidder each shall have a separate key, requiring both to be present to access the Escrowed Documents.

7.2. SCOPE OF THE ESCROWED DOCUMENTS

The Escrowed Documents shall include, but not be limited to: a detailed breakdown of the Bid with a clear itemization of Bidder’s estimated costs of performing the work in sufficient detail to allow County to analyze all costs included within Bidder’s estimate for the work; the names of all persons who prepared or reviewed Bidder’s estimate prior to submission of the Bid; all documents created, reviewed, or maintained by all subcontractors listed in Bidder’s list of subcontractors submitted with its Bid; back-up calculations for each lump sum or unit cost Bid Item listed on the Bid Schedule; suppliers’ quotes; quantity takeoffs; rate schedules for the direct costs and the time and non-time-related indirect costs for labor, by craft; plant and equipment ownership or rental and operation costs; cost of permanent and expendable materials; cost of small tools and other miscellaneous consumable items; cost of insurance and subcontracted work; estimated construction schedule, including sequence and duration of work and production rates; quotations from suppliers and subcontractors; estimates of field and home office overhead; contingency and margin for each item listed on the Bid Schedule; and other reports, calculations, and information used by Bidder to arrive at its Bid. The Escrowed Documents shall also include a declaration signed by an individual authorized by Bidder to execute the Bid Form stating that the Escrowed Documents are a true and complete representation of how the Bid was calculated.

7.3. VERIFICATION OF COMPLETE BID DOCUMENT SUBMISSION

Within 7 days after submitting its Escrowed Documents, Bidder shall meet separately with County to examine and catalog Bidder’s Escrowed Documents to verify that Bidder has complied with the requirements of this Section. The verification will not include review, nor constitute approval, of proposed construction methods, estimating assumptions, or interpretations of the Contract Documents. If County determines that Bidder’s Escrowed Documents are incomplete, illegible, or unreliable, Bidder shall submit the missing documents within 2 working days of County’s request. Bidder’s failure to submit Escrowed Documents for itself and its listed subcontractors in accordance with this Section shall constitute an improper withdrawal of Bidder’s Bid and shall be grounds for Bidder forfeiting its bid security.

7.4. SUBCONTRACTORS’ ESCROWED DOCUMENTS

If the apparent successful Bid is based on subcontracting any part of the work, each subcontractor whose total subcontract price exceeds five percent of the total Contract Price proposed by Bidder shall provide separate Escrowed Documents to be included with those of Bidder. The requirements and verification of subcontractors’ documents will be the same as those for Bidder. If Contractor subcontracts any portion of the work after award, County retains the right to require Contractor to submit Escrowed Documents before such subcontract is approved.

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If the Contract is not awarded to the apparent successful Bidder, the Escrowed Documents will be returned to that Bidder and the next Bidder to be considered for award shall submit Escrowed Documents as provided by this Section.

7.6. USE OF ESCROWED DOCUMENTS

County and Contractor may use Contractor's Escrowed Documents during negotiations regarding Change Orders, claims, or disputes, or in connection with litigation arising out of the Project. Nothing in the Escrowed Documents shall be construed to change or modify the terms or conditions of the Contract. Contractor shall be solely responsible for all errors made by Contractor during the preparation of its Bid. County will not use the Escrowed Documents to conduct a pre-award evaluation of any Bidder's methods of construction, qualifications, estimating assumptions, or interpretations of the Contract Documents. County reserves all rights to contest the reasonableness of Contractor's assumptions made during the preparation of its Bid.

7.7. ACCESS TO ESCROWED DOCUMENTS

At any time deemed necessary by County or Contractor, the Escrowed Documents may be reviewed by either of the Parties. Unless otherwise mutually agreed, the Party requesting to review the Escrowed Documents shall provide at least 3 days advance notice to the other Party regarding its intent to review the Escrowed Documents. A representative of both Parties shall be present during the other Party's review of the Bid Document. County shall notify Contractor of any request for disclosure of the Escrowed Documents in accordance with the "PUBLIC RECORDS ACT" Section of these General Conditions. Unless Contractor obtains a protective order issued by a court restricting disclosure of the Escrowed Documents, County may disclose the Escrowed Documents if County determines that the Public Records Act requires disclosure.

7.8. RETURN OF CONTRACTOR'S ESCROWED DOCUMENTS

County shall return to Contractor the Escrowed Documents held in secure storage after Contractor has completed all work required by the Contract Documents, County has recorded a Notice of Completion for the Project, and all disputes, claims, or lawsuits between County and Contractor arising out of the Project have been resolved, released, or otherwise waived.

8. EMPLOYEE ELIGIBILITY VERIFICATION

Contractor hereby certifies that it complies with all applicable laws and regulations regarding the eligibility of its employees to work in the United States, and that all of its employees performing work under this Contract meet all citizenship or immigration status requirements to do so. Contractor shall obtain all documentation necessary to verify the employment eligibility status of covered employees as described by U.S. Citizenship and Immigration Services Form I-9. Contractor shall retain such documentation for the period prescribed by law. Contractor shall indemnify, defend with counsel approved in writing by County, and hold harmless the County, its agents, officers, and employees from any sanctions or liability that may be assessed in connection with any alleged violation of federal or State laws or regulations pertaining to the eligibility for employment of any persons performing work under this Contract.

9. SECURING WORKERS' COMPENSATION INSURANCE CERTIFICATION

Contractor, by executing this Agreement, hereby certifies:

"I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' 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."

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10.1.1. OC Public Works. The Project is under the general direction of County's Board of Supervisors. The Board of Supervisors authorizes OC Public Works to be County's representative in connection with the Project.

10.1.2. County's Project Manager: Before starting work, County shall designate in writing a Project Manager who shall act as County's representative during construction of the Project. County may also designate an alternate representative with complete authority to act for it. Unless otherwise expressly stated in the Contract Documents, the Project Manager will issue and receive all written communications on behalf of County for the Project. The Project Manager shall also coordinate any communications to or from County's Architect-Engineer ("A-E") in connection with the Project. The Project Manager shall manage the routine responsibilities of County, but is not authorized to make decisions for County that materially affect this Contract or create additional legal liabilities for County.

10.2. COUNTY'S AUTHORITY

County has the final authority in all matters affecting the work. County has the authority to enforce Contractor's compliance with the Contract Documents. County's decision is final and binding on all questions relating to: quantities; acceptability of material, equipment, or work; execution, progress, or sequence of work; and interpretation of the Contract Documents. All labor, materials, tools, equipment furnished by Contractor and all work performed by Contractor shall be subject to County's approval.

10.3. CONTRACTOR'S REPRESENTATIVES

10.3.1. Representative and Alternate: Before starting work, Contractor shall designate in writing a representative who shall have complete authority to act for it. Contractor may also designate an alternate representative with complete authority to act for it. County may rely on such representative or alternate as having the authority to execute Change Orders in any amount unless Contractor identifies to County in writing the officer(s) or employee(s) with such authority. The representative or alternate shall be present at the work site whenever work is in progress or whenever weather conditions necessitate its presence to take measures necessary to protect the work, persons, or property. Any order or communication given to this representative shall be deemed delivered to Contractor. A joint venture shall designate only one representative and alternate. In the absence of Contractor's representative, instructions or directions may be given by County to the superintendent or person in charge of the specific work to which the order applies. Such order shall be complied with promptly and referred to Contractor or its representative. Contractor's representative and alternate must be able to read, write, and speak English fluently.

10.3.2. Superintendent: Before starting work, Contractor shall submit to County for its review and approval the name of the superintendent who will be employed full-time by Contractor and be present on site at all times while work is being performed. Contractor's superintendent must be well-qualified, and at County's request Contractor shall provide documents or information to establish the superintendent's qualifications. Contractor's superintendent shall represent Contractor in the absence of Contractor's designated representative or alternate, and all directions given to the superintendent shall be binding as if given to Contractor. Contractor's representative or alternate designated in accordance with the preceding paragraph also may serve as Contractor's superintendent, provided that County approves the selection of the superintendent. The superintendent must read, write, and speak English fluently. County may require Contractor to replace a superintendent whose conduct or performance is unsatisfactory. Contractor shall not change its superintendent without County's consent unless the superintendent is unsatisfactory to Contractor or ceases to be in Contractor's employ. If Contractor's superintendent leaves the Project, Contractor shall replace him or her within 24 hours with a new, well-qualified superintendent acceptable to County.

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10.3.3. Alternate Supervision Plan: For Projects on which the original Contract Price is \$50,000 or less, Contractor may propose for County's consideration a plan for providing supervision on the site that does not involve the presence of a full-time superintendent, representative, or alternate, as required by the preceding paragraphs. Any such plan must ensure that Contractor's supervision of the work is adequate and effective for purposes of completing the work timely and in compliance with the Contract Documents. County may approve or reject Contractor's proposed plan in its sole and absolute discretion.

10.3.4. Emergency Contacts: Contractor shall provide County with a list of names and telephone numbers at which Contractor's representative, alternate, superintendent, and other key personnel can be reached during non-working hours in the case of an emergency.

11. SIGNATURE REQUIREMENTS

The Agreement must be signed by officer(s) authorized to bind Contractor. If documentation demonstrating express authority is not provided, then the Agreement must be signed by those officers with apparent authority to bind Contractor. If Contractor is a corporation, such signatures must comply with Corporations Code Section 313, as follows:

- 1) One signature by the chairman of the board, the president, or any vice president; and
- 2) One signature by the secretary, any assistant secretary, the chief financial officer, or any assistant treasurer.

12. ENTIRE CONTRACT

The Contract Documents represent the entire and integrated agreement between County and Contractor and supersede all prior representations, statements, or agreements concerning the subject matter of this Contract, whether verbal or written.

13. BID SCHEDULE

(See next page)

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Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
1 GENERAL CONDITIONS						
	1.1	Bonds & Insurance	1	LS	\$ 315,000.00	\$ 315,000.00
	1.2	Mobilization	1	LS	\$ 4,535,000.00	\$ 4,535,000.00
	1.3	Construction Support Tasks - SWPPP Compliance with CGP and IGP Construction Activities Stormwater Management Plan (CASMP) - Interim Erosion Control and BMPs	1	LS	\$ 225,000.00	\$ 225,000.00
SPECIAL PROVISIONS						
2 CLEARING AND GRUBBING						
2	2.1	Clear and Grub	218	AC	\$ 200.00	\$ 43,600.00
3 REMOVALS AND DEMOLITION						
3	3.1	Remove and Salvage	1	LS	\$ 75,000.00	\$ 75,000.00
4	3.2	Demolish and Remove	1	LS	\$ 150,000.00	\$ 150,000.00
11	3.3	Remove Existing Liner	80,000	SF	\$ 0.55	\$ 44,000.00
12	3.4	Remove Existing LCRS Sump and Tie-In per 3/C-709	1	LS	\$ 18,000.00	\$ 18,000.00
41	3.5	Remove LFG Header per Sheets C-400 to C-402	3,000	LF	\$ 7.80	\$ 23,400.00
149	3.6	Abandon Waterline Per Specifications	1	LS	\$ 4,000.00	\$ 4,000.00
180	3.7	Remove and Salvage Dual 60" CMP per Specifications	615	LF	\$ 70.00	\$ 43,050.00
4 EARTHWORK						
32	4.1	Excavate Phase VIII-A1 to Stockpile A (Sheets C-200, C-201, C-202, and C-203) [Deletable]	380,000	CY	\$ 2.00	\$ 760,000.00
32	4.2	Excavate Phase VIII-A1 to Stockpile B (Sheets C-200, C-201, C-202, and C-203) [Deletable]	1,246,000	CY	\$ 2.90	\$ 3,613,400.00
32	4.3	Excavate Phase VIII-A1 to Unclassified Fill in Phase VIII-A1 (Sheets C-200, C-201, C-202, and C-203)	26,000	CY	\$ 2.90	\$ 75,400.00
5	4.4	Excavation from Phase VIII-A1 to Working Face (Sheet C-001)	102,000	CY	\$ 4.20	\$ 428,400.00
5	4.5	Excavation from NLC to Working Face (Sheet C-001)	332,000	CY	\$ 3.10	\$ 1,029,200.00
6	4.6	Over-Excavate Landslide Fissures and Backfill per 6/C-705 (Sheets C-102, C-103, and C-104)	105,600	CY	\$ 3.00	\$ 316,800.00

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Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
7	4.7	NLC Headscarp Over-Excavation to Stockpile B (Sheets C-100, C-102, C-103, and C-104)	1,780,000	CY	\$ 2.25	\$ 4,005,000.00
7	4.8	NLC Buttress Over-Excavation to Stockpile B (Sheets C-105, C-106, and C-107)	540,000	CY	\$ 3.15	\$ 1,701,000.00
5, 7	4.9	NLC Buttress Excavation and Slot Fill (Sheets C-105, C-106, C-107, and C-112)	830,000	CY	\$ 3.20	\$ 2,656,000.00
5	4.10	Unclassified NLC Fill from Stockpile B (Sheets C-200, C-202, C-203, C-204, and C-205)	2,050,000	CY	\$ 2.10	\$ 4,305,000.00
8	4.11	Relocation Refuse per Specifications (Sheet C-201, and as needed)	30,000	CY	\$ 7.55	\$ 226,500.00
10	4.12	Over-Excavate and Place Remedial Fill (Sheet C-206)	50,000	CY	\$ 9.80	\$ 490,000.00
10	4.13	Over-Excavate, Place Compacted Soil, and Place Geogrid - GW Tank Pads (Sheets C-303 and C-604)	500	CY	\$ 25.50	\$ 12,750.00
	4.14	Excavate, Process, and Stockpile PCS (Sheet C-001)	23,000	CY	\$ 3.65	\$ 83,950.00
5	4.15	Excavate and Place Miscellaneous Fill in Pad A (Sheet C-301)	31,000	CY	\$ 5.35	\$ 165,850.00
5	4.16	Excavation from Pad A to Working Face (Sheets C-200 and C-301)	7,400	CY	\$ 6.00	\$ 44,400.00
5	4.17	Excavation from Pad B to Working Face (Sheets C-200 and C-302)	2,400	CY	\$ 9.00	\$ 21,600.00
32	4.18	Excavate Phase VIII-A1 to East Soil Fill (Sheets C-200, C-201, C-202, C-203, C-217, C-218) [Deletable]	454,300	CY	\$ 4.70	\$ 2,135,210.00
	4.19A	Excavate, Transport, and Place Oversized Rocks into Rock Blankets [Deletable]	10,000	CY	\$ 4.50	\$ 45,000.00
	4.19B	Excavate, Transport, and Stockpile Oversized Rocks [Deletable]	10,000	CY	\$ 4.50	\$ 45,000.00
5 FINAL COVER (RESERVED)						
6 LINER INSTALLATION						
14	6.1	24" Thick Protective Cover Soil (Base) per 1/C-701	565,000	SF	\$ 0.70	\$ 395,500.00
14	6.2	8 oz/sy Non-Woven Geotextile (Base) per 1/C-701	565,000	SF	\$ 0.55	\$ 310,750.00
14	6.3	16 oz/sy Non-Woven Geotextile (Base) per 1/C-701	565,000	SF	\$ 0.77	\$ 435,050.00

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Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
14	6.4	60-mil HDPE Geomembrane Double-Sided Textured (Base) per 1/C-701	1,130,000	SF	\$ 0.80	\$ 904,000.00
14	6.5	Geosynthetic Clay Liner (Base) per 1/C-701	562,000	SF	\$ 1.15	\$ 646,300.00
14	6.6	12" Low Permeability Soil (Base) per 1/C-701	562,000	SF	\$ 0.75	\$ 421,500.00
15	6.7	16 oz/sy Non-Woven Geotextile (Slope) per 2/C-701	313,000	SF	\$ 0.77	\$ 241,010.00
15	6.8	60-mil HDPE Geomembrane Textured Side Down (Slope) per 2/C-701	313,000	SF	\$ 0.90	\$ 281,700.00
15	6.9	Geosynthetic Clay Liner (Slope) per 2/C-701	313,000	SF	\$ 1.14	\$ 356,820.00
15	6.10	40-mil HDPE Geomembrane Double-Sided Textured (Slope) per 2/C-701	313,000	SF	\$ 0.82	\$ 256,660.00
15	6.11	4" Thick Veneer Soil (Slope) per 2/C-701	313,000	SF	\$ 0.50	\$ 156,500.00
16	6.12	Ballast Geotextile (Slope) per 2/C-701	168,000	SF	\$ 1.29	\$ 216,720.00
17	6.13	Temporary Top of Slope Liner Termination per 2/C-703	1,050	LF	\$ 43.00	\$ 45,150.00
18	6.14	Temporary Base Liner Termination Type A per 1/C-703	810	LF	\$ 43.00	\$ 34,830.00
19	6.15	Temporary Base Liner Termination Type B per 6/C-702	320	LF	\$ 38.50	\$ 12,320.00
22	6.16	Temporary Side Slope Liner Termination per 4/C-702	815	LF	\$ 52.00	\$ 42,380.00
23	6.17	Slope Liner Join to Existing Phase III-A per 3/C-706	150	LF	\$ 20.50	\$ 3,075.00
24	6.18	Base Liner Join to Existing Phase VII-A per 4/C-706	55	LF	\$ 117.00	\$ 6,435.00
25	6.19	Earthen Berm per 5/C-702	1,200	LF	\$ 7.00	\$ 8,400.00
26	6.20	Base Liner Join to Existing Phase VIII-B2 per 2/C-704	1,765	LF	\$ 60.00	\$ 105,900.00
28	6.21	Slope Liner Join per 4/C-701	940	LF	\$ 34.00	\$ 31,960.00
29	6.22	Bench Liner Join to Existing Slope Liner per 3/C-701	500	LF	\$ 34.00	\$ 17,000.00
42	6.23	Temporary Bench Liner Termination per 2/C-706	1,000	LF	\$ 52.00	\$ 52,000.00
64	6.24	Base Liner to Slope Liner Transition per 4/C-704	225	LF	\$ 42.00	\$ 9,450.00
106	6.25	Bench Liner Protective Cover Soil per 8/C-701	24,450	SF	\$ 1.60	\$ 39,120.00

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114	6.26	24" Thick Protective Cover Soil on Slope per 2/C-701	161,000	SF	\$ 1.50	\$ 241,500.00
171	6.27	Groundwater Pond Liner per 9/C-702	67,000	SF	\$ 1.20	\$ 80,400.00
172	6.28	Anchor Trench per 9/C-702	950	LF	\$ 16.50	\$ 15,675.00
188	6.29	Top of Slope Liner Transition per 2/C-712	240	LF	\$ 37.00	\$ 8,880.00
212	6.30	Temporary Base Liner Termination with Gas Collector per 3/C-719	4	EA	\$ 370.00	\$ 1,480.00
	6.31	Leak Location Survey	1	LS	\$ 70,000.00	\$ 70,000.00
7 LEACHATE COLLECTION AND REMOVAL SYSTEM/SUBDRAIN SYSTEM						
14	7.1	9" LCRS Gravel (Base) per 1/C-701	565,000	SF	\$ 1.90	\$ 1,073,500.00
30	7.2	6" Slotted HDPE LCRS Pipe and LCRS Bench Collector per 5/C-703	240	LF	\$ 47.00	\$ 11,280.00
33	7.3	8" Slotted HDPE LCRS Pipe and LCRS Swale per 1/C-707	1,500	LF	\$ 44.00	\$ 66,000.00
48	7.4	4" Solid HDPE Subdrain per 1/C-707	670	LF	\$ 21.00	\$ 14,070.00
49	7.5	Reconstruct Horizontal Drain and Above Groundwater Carrier Pipe per 4/C-713	9	EA	\$ 4,000.00	\$ 36,000.00
51	7.6	Slope Subdrain per 2/C-711	950	LF	\$ 41.00	\$ 38,950.00
53	7.7	Locate Existing LCRS/Subdrain Piping and Join Proposed to Existing	1	LS	\$ 2,500.00	\$ 2,500.00
55	7.8	8" Solid HDPE LCRS Riser and Pipe Support on Slope per 7/C-701	40	LF	\$ 150.00	\$ 6,000.00
56	7.9	6" Solid HDPE LCRS Pipe and LCRS Bench Crossing per 5/C-704	95	LF	\$ 41.00	\$ 3,895.00
57	7.10	8" Slotted HDPE LCRS Pipe and LCRS Trench at Toe of Slope per 2/C-707	300	LF	\$ 51.00	\$ 15,300.00
59	7.11	6" Slotted HDPE LCRS Pipe and LCRS Swale per 1/C-707	685	LF	\$ 53.00	\$ 36,305.00
60	7.12	8" Solid HDPE LCRS Pipe and LCRS Swale per 1/C-707	190	LF	\$ 40.00	\$ 7,600.00
61	7.13	6" Solid HDPE LCRS Riser and Pipe Support on Slope per 7/C-701	600	LF	\$ 30.00	\$ 18,000.00
63	7.14	6" Slotted HDPE LCRS Pipe and LCRS Trench at Toe of Slope per 2/C-707	2,100	LF	\$ 37.00	\$ 77,700.00
72	7.15	6" Solid HDPE Subdrain per 1/C-707	825	LF	\$ 34.00	\$ 28,050.00

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Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
74	7.16	4" Slotted HDPE Subdrain per 9/C-706	2,350	LF	\$ 42.00	\$ 98,700.00
75	7.17	HDPE Pipe Penetration per 1/C-709	1	EA	\$ 3,500.00	\$ 3,500.00
76	7.18	6" Slotted HDPE Subdrain per 8/C-706	2,770	LF	\$ 72.00	\$ 199,440.00
94	7.19	4" Solid HDPE Subdrain per 3/C-704	700	LF	\$ 40.00	\$ 28,000.00
98	7.20	LCRS Riser Storm Drain Connection per 4/C-712	1	EA	\$ 10,000.00	\$ 10,000.00
102	7.21	Abandon Existing Inclinometer and Piezometer - Table 2, 3, & 4 Sheet C-111 & Specs	2,300	LF	\$ 15.00	\$ 34,500.00
103	7.22	Horizontal Drain per 1/C-716 and Table 1 and Notes on Sheet C-111	18,000	LF	\$ 45.00	\$ 810,000.00
104	7.23	Piezometer per 3/C-716 and Table 2 and Notes on Sheet C-111	1,000	LF	\$ 100.00	\$ 100,000.00
105	7.24	Inclinometer per 4/C-716 and Table 3 and Notes on Sheet C-111	1,125	LF	\$ 90.00	\$ 101,250.00
110	7.25	Modify to Finish Grade per 1/C-717	2	EA	\$ 3,400.00	\$ 6,800.00
115	7.26	Extend Casing per Table 2 or 3 on Sheet C-111 and per 2/C-717	3	EA	\$ 3,000.00	\$ 9,000.00
127	7.27	6" Slotted HDPE LCRS Pipe and LCRS Bench Collector per 8/C-701	730	LF	\$ 35.00	\$ 25,550.00
154	7.28	6" Solid HDPE Subdrain and LCRS/Subdrain Bench Crossing per 5/C-704	30	LF	\$ 134.00	\$ 4,020.00
155	7.29	6" Solid HDPE Subdrain Riser on Slope per 7/C-701	100	LF	\$ 49.00	\$ 4,900.00
156	7.30	Temporary LCRS Pipe Riser Termination and Pipe Support per 1/C-702	2	EA	\$ 6,000.00	\$ 12,000.00
157	7.31	6" Slotted HDPE Subdrain per 1/C-707	900	LF	\$ 73.00	\$ 65,700.00
159	7.32	Temporary Subdrain Riser Termination per 1/C-702	1	EA	\$ 3,600.00	\$ 3,600.00
162	7.33	6" Solid HDPE Subdrain at Toe of Slope per 2/C-707	305	LF	\$ 52.00	\$ 15,860.00
181	7.34	Horizontal Drain per 2/C-716 and Table 1 and Notes on Sheet C-111	10,500	LF	\$ 45.00	\$ 472,500.00
185	7.35	Directional Drill 4" Solid HDPE Subdrain	355	LF	\$ 46.00	\$ 16,330.00

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Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
189	7.36	Pressure Grout Existing 8" Solid LCRS Pipe in 12" Dual Wall HDPE Pipe per 5/C-712	600	LF	\$ 66.00	\$ 39,600.00
190	7.37	Pressure Grout Existing 6" Solid Subdrain per 5/C-712	600	LF	\$ 66.00	\$ 39,600.00
191	7.38	Directional Drill Dual Contained 8" Solid HDPE LCRS Pipe in 12" Dual Wall HDPE Pipe per 5/C-712	260	LF	\$ 150.00	\$ 39,000.00
192	7.39	Directional Drill 6" Solid HDPE Subdrain per 5/C-712	260	LF	\$ 62.00	\$ 16,120.00
8 LANDFILL GAS						
31	8.1	24-Inch Valve (Per 7/C-706)	3	EA	\$ 24,000.00	\$ 72,000.00
35	8.2	24-Inch HDPE Below Grade Piping (Per 5/C-706)	7,908	LF	\$ 135.00	\$ 1,067,580.00
36	8.3	24-Inch x 12-Inch HDPE Tee (Per 6/C-706)	15	EA	\$ 3,500.00	\$ 52,500.00
37	8.4	12-Inch HDPE Flange Adapter and Back Up Ring	10	EA	\$ 2,800.00	\$ 28,000.00
37	8.5	12-Inch HDPE Flange Adapter and Back Up Ring (Deletable per Sheet C-403)	3	EA	\$ 1,000.00	\$ 3,000.00
38	8.6	12-Inch PVC Blind Flange and Bolt Kit	8	EA	\$ 2,500.00	\$ 20,000.00
38	8.7	12-Inch PVC Blind Flange and Bolt Kit (Deletable per Sheet C-403)	1	EA	\$ 920.00	\$ 920.00
39	8.8	24-Inch HDPE Flange Adapter Back Up Ring (Per 7/C-706)	9	EA	\$ 3,300.00	\$ 29,700.00
224	8.9	24-Inch x 6-Inch HDPE Gusset Tee	3	EA	\$ 3,500.00	\$ 10,500.00
40	8.10	24-Inch Bolt Kit (FLxFL) (Per 7/C-706)	1	EA	\$ 1,400.00	\$ 1,400.00
229	8.11	24-Inch HDPE Tee	2	EA	\$ 4,200.00	\$ 8,400.00
52	8.12	6-Inch HDPE Below Grade Piping	5,900	LF	\$ 45.00	\$ 265,500.00
52	8.13	6-Inch HDPE Below Grade Piping (Deletable per Sheet C-403)	3,605	LF	\$ 38.00	\$ 136,990.00
152	8.14	6-Inch Tee (Deletable per Sheet C-403)	3	EA	\$ 288.00	\$ 864.00
153	8.15	8-Inch x 6-Inch HDPE Reducer (Deletable per Sheet C-403)	1	EA	\$ 302.00	\$ 302.00
163	8.16	Horizontal Collector (8-Inch HDPE Perforated Pipe) (Per 4/C-708) (Deletable per Sheet C-403)	4,240	LF	\$ 51.00	\$ 216,240.00
164	8.17	6-Inch Solid Pipe for Vertical LFG Wells (Per 7/C-708) (Deletable per Sheet C-403)	322	LF	\$ 145.00	\$ 46,690.00

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Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
164	8.18	6-Inch Perforated Pipe for Vertical LFG Wells (Per 7/C-708) (Deletable per Sheet C-403)	560	LF	\$ 145.00	\$ 81,200.00
164	8.19	Wellbore Seal (Per 8/C-708) (Deletable per Sheet C-403)	14	EA	\$ 785.00	\$ 10,990.00
164	8.20	Vertical LFG Wellhead (Per 2/C-720) (Deletable per Sheet C-403)	14	EA	\$ 3,818.00	\$ 53,452.00
165	8.21	12-Inch HDPE Below Grade Piping	208	LF	\$ 82.00	\$ 17,056.00
165	8.22	12-Inch HDPE Below Grade Piping (Deletable per Sheet C-403)	2,930	LF	\$ 59.60	\$ 174,628.00
166	8.23	6-Inch HDPE Above Grade Piping	400	LF	\$ 21.00	\$ 8,400.00
166	8.24	6-Inch HDPE Above Grade Piping (Deletable per Sheet C-403)	2,630	LF	\$ 13.50	\$ 35,505.00
167	8.25	12-Inch x 6-Inch HDPE Tee (Deletable per Sheet C-403)	10	EA	\$ 1,010.00	\$ 10,100.00
168	8.26	8-Inch HDPE Above Grade Piping (Deletable per Sheet C-403)	1,765	LF	\$ 20.60	\$ 36,359.00
173	8.27	Road Crossings (Per 3/C-708)	6	EA	\$ 12,700.00	\$ 76,200.00
173	8.28	Road Crossings (Per 3/C-708) (Deletable per Sheet C-403)	16	EA	\$ 3,500.00	\$ 56,000.00
177	8.29	Horizontal Wellhead (Per 2/C-708) (Deletable per Sheet C-403)	22	EA	\$ 2,200.00	\$ 48,400.00
179	8.30	12-Inch Isolation Valve (Per 7/C-706) (Deletable per Sheet C-403)	1	EA	\$ 4,500.00	\$ 4,500.00
193	8.31	12-Inch x 8-Inch HDPE Tee (Deletable per Sheet C-403)	3	EA	\$ 1,200.00	\$ 3,600.00
209	8.32	8-Inch HDPE Below Grade Piping (Deletable per Sheet C-403)	150	LF	\$ 39.00	\$ 5,850.00
210	8.33	8-Inch x 6-Inch HDPE Tee (Deletable per Sheet C-403)	17	EA	\$ 755.00	\$ 12,835.00
211	8.34	18-Inch x 8-Inch HDPE Saddle (Deletable per Sheet C-403)	5	EA	\$ 3,822.00	\$ 19,110.00
208	8.35	6-Inch Perforated Pipe (Gas Collector in LCRS Layer)	2,545	LF	\$ 14.00	\$ 35,630.00
212	8.36	Temporary Base Liner Termination with Gas Collector (Blind Flange) (Per 3/C-719)	4	EA	\$ 645.00	\$ 2,580.00
213	8.37	Wellhead Manifold (Per 1/C-720)	4	EA	\$ 12,900.00	\$ 51,600.00
214	8.38	8-Inch SDR 11 HDPE Tee	1	EA	\$ 955.00	\$ 955.00
214	8.39	8-Inch x 6-Inch HDPE Reducer	1	EA	\$ 350.00	\$ 350.00
215	8.40	8-Inch HDPE Cap	1	EA	\$ 475.00	\$ 475.00
217	8.41	24-Inch x 18-Inch HDPE Tee	1	EA	\$ 8,900.00	\$ 8,900.00

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Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
219	8.42	6-Inch SDR 11 Above Grade Piping on Slope (Strap to Liner) (Per 3/C-720)	3	EA	\$ 1,500.00	\$ 4,500.00
220	8.43	Connect LFG Lateral/Wellhead to Header (Per 4/C-720)	7	EA	\$ 10,200.00	\$ 71,400.00
221	8.44	Connect LFG Lateral/Wellhead to Header (Per 5/C-720)	4	EA	\$ 4,000.00	\$ 16,000.00
222	8.45	Cut and Cap Existing Lateral (Abandon Unused Piping)	10	EA	\$ 337.00	\$ 3,370.00
223	8.46	Bench Crossing (Per 5/C-704)	3	EA	\$ 3,200.00	\$ 9,600.00
225	8.47	18-Inch HDPE Tee (Join Existing) with 24-Inch x 18-Inch Reducer	1	EA	\$ 8,000.00	\$ 8,000.00
227	8.48	24-Inch HDPE Above Grade Piping	405	LF	\$ 141.00	\$ 57,105.00
228	8.49	24-Inch HDPE Elbow	3	EA	\$ 3,200.00	\$ 9,600.00
231	8.50	24-Inch HDPE Electro-Fusion Coupling	1	EA	\$ 5,400.00	\$ 5,400.00
230	8.51	12-Inch HDPE Tee	1	EA	\$ 2,400.00	\$ 2,400.00
230	8.52	12-Inch HDPE Tee (Deletable per Sheet C-403)	2	EA	\$ 1,200.00	\$ 2,400.00
226	8.53	Join Existing LCRS/LFG Pipe (4" or 6" HDPE Pipe)	12	EA	\$ 1,400.00	\$ 16,800.00
226	8.54	Join Existing LCRS/LFG Pipe (4" or 6" HDPE Pipe) (Deletable per Sheet C-403)	2	EA	\$ 1,500.00	\$ 3,000.00
9 FACILITY IMPROVEMENTS						
88	9.1	Guard Rail per Caltrans 2018 Std Plan A77L3	660	LF	\$ 72.00	\$ 47,520.00
89	9.2	Covered Work Area per Sheet S-104	500	SF	\$ 180.00	\$ 90,000.00
90	9.3	Hazardous Materials Storage Area per Sheet S-101	1	LS	\$ 80,000.00	\$ 80,000.00
96	9.4	Gasoline Tank Containment Area per 4/C-710	1	LS	\$ 46,000.00	\$ 46,000.00
97	9.5	Vacuum/Air Compressor Pad per 3/C-710	1	LS	\$ 17,000.00	\$ 17,000.00
99	9.6	Bollard per 3/C-707	17	EA	\$ 1,900.00	\$ 32,300.00
100	9.7	Moby Dick Wheel Wash Unit per 1/C-714	1	LS	\$ 220,000.00	\$ 220,000.00
116-148	9.8	Ground Water Storage Tanks and Components	1	LS	\$ 420,000.00	\$ 420,000.00
174	9.9	12" Solid HDPE Pipe	3,800	LF	\$ 98.95	\$ 376,010.00
175	9.10	12" Solid HDPE Pipe	1,100	LF	\$ 63.00	\$ 69,300.00
194	9.11	Pump Station (P1) per 1/C-718	1	LS	\$ 85,000.00	\$ 85,000.00

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Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
178	9.12	Pump Station (P2) per 2/C-718	1	LS	\$ 85,000.00	\$ 85,000.00
182	9.13	6" Solid Groundwater Carrier Pipe per 6/C-716	5,000	LF	\$ 32.00	\$ 160,000.00
183	9.14	4" Solid Groundwater Carrier Pipe per 6/C-716	335	LF	\$ 23.00	\$ 7,705.00
184	9.15	Refueling Truck Parking Area per 4/C-717	1	LS	\$ 700.00	\$ 700.00
68	9.16	Install Salvaged Bridge Crossing	1	EA	\$ 500.00	\$ 500.00
20	9.17	Fire Hydrant per 2/C-702	1	EA	\$ 20,500.00	\$ 20,500.00
78	9.20	6" Non-Rising Stem Gate Valve and Valve Cover per 8/C-707	1	EA	\$ 3,000.00	\$ 3,000.00
84	9.21	8" Schedule 80 PVC Pipe per 2/C-710	15	LF	\$ 177.40	\$ 2,661.00
113	9.22	1" PVC Pipe	70	LF	\$ 17.00	\$ 1,190.00
120	9.23	Water Supply Connection per 2/C-710	1	LS	\$ 20,700.00	\$ 20,700.00
144	9.24	2" PVC Pipe	85	LF	\$ 49.00	\$ 4,165.00
195	9.25	6' High Chain Link Fence per SPPWC STD Plan 600-3 with Knox Box	250	LF	\$ 83.00	\$ 20,750.00
196	9.26	Drive Gate per SPPWC STD Plan 600-3 with Knox Box	1	EA	\$ 5,300.00	\$ 5,300.00
197	9.27	Fire Lane Entrance Sign per 4/C-709	1	EA	\$ 146.00	\$ 146.00
198	9.28	Fire Lane - No Parking Sign per 6/C-709	2	EA	\$ 146.00	\$ 292.00
199	9.29	FDC per 4/C-705	1	EA	\$ 5,700.00	\$ 5,700.00
200	9.30	8" HDPE Pipe per 6/C-710	1,440	LF	\$ 69.00	\$ 99,360.00
201	9.31	6" HDPE Pipe per 6/C-710	20	LF	\$ 101.00	\$ 2,020.00
123	9.32	New 10,000 Gallon Red Dyed Diesel Tank Per Sheet C-715, C-301	2	EA	\$ 350,000.00	\$ 700,000.00
3, 96	9.33	Install Salvaged Tanks per Sheets C-201, C-301, C-302, C-710, C-715	1	LS	\$ 45,500.00	\$ 45,500.00
3	9.34	Gasoline Fill Accessories Per Sheet C-201, C-302	1	LS	\$ 6,500.00	\$ 6,500.00
E-Sheets	9.35	480/277V, 200A, NEMA 3R Meter Pedestal (Pad A)	1	EA	\$ 12,500.00	\$ 12,500.00
E-Sheets	9.36	45KVA Mini Power Center (Pad A)	2	EA	\$ 18,000.00	\$ 36,000.00
E-Sheets	9.37	480/277V, 200A, NEMA 3R Meter Pedestal (Pad B)	1	EA	\$ 13,500.00	\$ 13,500.00
E-Sheets	9.38	45KVA Mini Power Center (Pad B)	1	EA	\$ 17,500.00	\$ 17,500.00

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Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
E-Sheets	9.39	480/277V, 400A, NEMA 3R Switchboard (Pump Station P-1)	1	EA	\$ 69,500.00	\$ 69,500.00
E-Sheets	9.40	45KVA Mini Power Center (Pump Station P-1)	1	EA	\$ 17,500.00	\$ 17,500.00
E-Sheets	9.41	480/277V, 400A, NEMA 3R Switchboard (Pump Station P-2)	1	EA	\$ 79,000.00	\$ 79,000.00
E-Sheets	9.42	45KVA Mini Power Center (Pump Station P-2)	1	EA	\$ 17,500.00	\$ 17,500.00
E-Sheets	9.43	Panels (Pump Station P-2)	2	EA	\$ 13,500.00	\$ 27,000.00
E-Sheets	9.44	480/277V, 600A, NEMA 3R Switchboard (Misting System and CASP)	1	EA	\$ 76,500.00	\$ 76,500.00
E-Sheets	9.45	480/277V NEMA 3R Motor Control Center (Misting System and CASP)	1	EA	\$ 25,000.00	\$ 25,000.00
E-Sheets	9.46	Automatic Transfer Switch "ATS" 208V, 200A, NEMA 3R (Misting System and CASP)	1	EA	\$ 7,600.00	\$ 7,600.00
E-Sheets	9.47	Conduit and Wire	1	LS	\$ 696,000.00	\$ 696,000.00
E-Sheets	9.48	Vaults and Concrete Pads	3	EA	\$ 3,100.00	\$ 9,300.00
E-Sheets	9.49	Misc. Conduit Fittings, Elbows, Condulets, Etc.	1	LS	\$ 55,000.00	\$ 55,000.00
10 DRAINAGE CONTROL SYSTEM						
27	10.1	Bench Crossing per 6/C-703	4	EA	\$ 7,800.00	\$ 31,200.00
46	10.2	60" Smooth Cor CMP Pipe per 3/C-704	1,100	LF	\$ 623.00	\$ 685,300.00
50	10.3	Channel Crossing per 1/C-708	1	EA	\$ 8,200.00	\$ 8,200.00
62	10.4	36" Smooth Cor CMP Pipe per 3/C-704	400	LF	\$ 371.00	\$ 148,400.00
65	10.5	V-Ditch (D=1') per 4/C-707	670	LF	\$ 28.00	\$ 18,760.00
65	10.6	V-Ditch (D=1.5') per 4/C-707	7,000	LF	\$ 35.00	\$ 245,000.00
65	10.7	V-Ditch (D=2') per 4/C-707	2,350	LF	\$ 40.00	\$ 94,000.00
66	10.8	Trapezoidal Channel (D=1.5', B=2') per 5/C-707	560	LF	\$ 53.00	\$ 29,680.00
66	10.9	Trapezoidal Channel (D=2', B=1.5') per 5/C-707	1,060	LF	\$ 55.00	\$ 58,300.00
66	10.10	Trapezoidal Channel (D=2', B=2') per 5/C-707	2,800	LF	\$ 60.00	\$ 168,000.00
66	10.11	Trapezoidal Channel (D=2', B=2.5') per 5/C-707	770	LF	\$ 65.00	\$ 50,050.00
66	10.12	Trapezoidal Channel (D=2.5', B=2.5') per 5/C-707	550	LF	\$ 75.00	\$ 41,250.00

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66	10.13	Trapezoidal Channel (D=2.5', B=3') per 5/C-707	280	LF	\$ 80.00	\$ 22,400.00
66	10.14	Trapezoidal Channel (D=2.5', B=3.5') per 5/C-707	640	LF	\$ 77.00	\$ 49,280.00
66	10.15	Trapezoidal Channel (D=3', B=3') per 5/C-707	1,200	LF	\$ 92.00	\$ 110,400.00
66	10.16	Trapezoidal Channel (D=3', B=5') per 5/C-707	1,300	LF	\$ 113.00	\$ 146,900.00
66	10.17	Trapezoidal Channel (D=2.5', B=4') per 5/C-707	50	LF	\$ 110.00	\$ 5,500.00
67	10.18	Splash Wall per 6/C-707	685	LF	\$ 28.00	\$ 19,180.00
69	10.19	Cutoff Wall per 7/C-707	75	LF	\$ 59.00	\$ 4,425.00
73	10.20	Strip Drain per 10/C-707	3,300	LF	\$ 6.60	\$ 21,780.00
77	10.21	Modified Inlet per 6/C-711	1	EA	\$ 65,000.00	\$ 65,000.00
79	10.22	Earthen Bench per 3/C-711	13,000	LF	\$ 4.00	\$ 52,000.00
80	10.23	4" Thick PCC with 4"x4" W1.4/1.4 WWM	1,200	SF	\$ 10.00	\$ 12,000.00
81	10.24	Channel to Pipe Transition Structure per 2/C-713	4	EA	\$ 7,400.00	\$ 29,600.00
86	10.25	Channel Transition per 2/S-103	4	EA	\$ 4,200.00	\$ 16,800.00
87	10.26	15"T x 36"W RCB Per 3/S-103	110	LF	\$ 510.00	\$ 56,100.00
91	10.27	Terrace Channel per 1/C-710	180	LF	\$ 60.00	\$ 10,800.00
93	10.28	Concrete Ribbon Gutter per 9/C-707	520	LF	\$ 51.00	\$ 26,520.00
101	10.29	Concrete Collar (Type A) per 3/C-713	10	EA	\$ 1,700.00	\$ 17,000.00
101	10.30	Concrete Collar (Type B) per 3/C-713	12	EA	\$ 2,200.00	\$ 26,400.00
101	10.31	Seep Collar (Type A) per 3/C-713	60	EA	\$ 1,350.00	\$ 81,000.00
128	10.32	Pipe to Channel Transition Structure per 3/C-712	1	EA	\$ 12,000.00	\$ 12,000.00
150	10.33	Culvert Outlet Structure per 1/C-713	1	EA	\$ 13,000.00	\$ 13,000.00
151	10.34	Warped Channel Transition (L=10')	5	EA	\$ 8,000.00	\$ 40,000.00
151	10.35	Warped Channel Transition (L=15')	2	EA	\$ 12,000.00	\$ 24,000.00
158	10.36	Top Deck McCarthy Inlet per 2/C-721	95	LF	\$ 185.00	\$ 17,575.00
187	10.37	Gravel Bag Chevrons per 1/C-712	18	EA	\$ 84.00	\$ 1,512.00
169	10.38	18" Smooth Cor CMP Pipe per 3/C-704	50	LF	\$ 153.00	\$ 7,650.00

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121	10.39	48" Smooth Cor CMP Pipe per 3/C-704	750	LF	\$ 312.00	\$ 234,000.00
202	10.40	Spillway per 1/C-719	1	EA	\$ 26,000.00	\$ 26,000.00
203	10.41	Channel Transition per 3/C-719	1	EA	\$ 8,600.00	\$ 8,600.00
206	10.44	Channel to Pipe Transition Structure per Caltrans STD Plan D86B	1	EA	\$ 10,500.00	\$ 10,500.00
207	10.45	Earthen Swale	450	LF	\$ 3.00	\$ 1,350.00
202	10.46	Thickened Edge per 5/C-719	61	LF	\$ 7.00	\$ 427.00
11 PAVING						
85	11.1	AC Pavement per 7/C-705	63,000	SF	\$ 6.30	\$ 396,900.00
95	11.2	12" Thick CMB over Prepared Subgrade	4,300	SF	\$ 1.85	\$ 7,955.00
109	11.3	Sawcut Existing AC Pavement	410	LF	\$ 21.00	\$ 8,610.00
204	11.4	AC Drainage Bench Channel per 1/C-218	67,000	SF	\$ 5.10	\$ 341,700.00
205	11.5	8" AC Curb per SPPWC Std Plan 120-2 Type D1-8	2,800	LF	\$ 7.50	\$ 21,000.00
12 HABITAT MITIGATION (RESERVED)						
13 IRRIGATION AND LANDSCAPING						
	13.1	Irrigation POC (Saddle Tee, Excavation, Backfill)	2	EA	\$ 1,575.00	\$ 3,150.00
	13.2	Irrigation Controller	3	EA	\$ 263.00	\$ 789.00
	13.3	Control Wire in Conduit	40	LF	\$ 15.75	\$ 630.00
	13.4	2" Schedule 40 PVC Mainline, Trenching, Backfill	900	LF	\$ 15.00	\$ 13,500.00
	13.6	1" Lateral Line - PVC	885	LF	\$ 10.00	\$ 8,850.00
	13.7	1-1/4" Lateral Line - PVC	690	LF	\$ 10.50	\$ 7,245.00
	13.8	1-1/2" Lateral Line - PVC	30	LF	\$ 13.00	\$ 390.00
	13.10	Swing Check Valve	4	EA	\$ 63.00	\$ 252.00
	13.12	Remote Control Valves (RCV), Valve Box, and Fittings	6	EA	\$ 525.00	\$ 3,150.00
	13.14	Hunter Shrub Sprinklers and Fittings	102	EA	\$ 60.00	\$ 6,120.00
	13.15	5-Gal Shrub	72	EA	\$ 36.00	\$ 2,592.00
	13.16	1-Gal Shrub	452	EA	\$ 23.00	\$ 10,396.00
	13.17	Hydroseed	1.4	AC	\$ 4,000.00	\$ 5,600.00
233	13.18	Mainline Isolation Valve per 3/L-701	2	EA	\$ 1,680.00	\$ 3,360.00
	13.19	Jute Netting	17,500	SF	\$ 1.37	\$ 23,975.00
	13.20	Soil Testing	6	EA	\$ 262.00	\$ 1,572.00

**County of Orange, OC Public Works
Sukut Construction, LLC**

MA-299-22011298

Construction Note(s)	Item No.	Description	Qty	Unit	Unit Cost	Total
	13.21	90-Day Irrigation Maintenance	1	LS	\$ 17,325.00	\$ 17,325.00
14 STORM-WATER PROTECTION/EROSION CONTROL						
43	14.1	Hydroseed	45	AC	\$ 4,000.00	\$ 180,000.00
44	14.2	Fiber Roll per 3/C-703	117,000	LF	\$ 2.15	\$ 251,550.00
45	14.3	Silt Fence per 4/C-703	16,100	LF	\$ 3.10	\$ 49,910.00
47	14.4	Rip-Rap Pad per 7/C-702	2,500	SF	\$ 9.65	\$ 24,125.00
15 CONSTRUCTION SURVEY						
111	15.1	Temporary Surface Survey Monument per 5/C-713	21	EA	\$ 775.00	\$ 16,275.00
16 CONSTRUCTION/QA/QC (RESERVED)						
17 WATER TANKS						
70	17.1	Concrete Pad per 3/C-717	1,880	SF	\$ 55.00	\$ 103,400.00
71	17.2	8" Ball Valve per 6/C-718	3	EA	\$ 8,600.00	\$ 25,800.00
82	17.3	8" Water Line per 3/C-704	130	LF	\$ 152.00	\$ 19,760.00
160	17.4	Salvaged Storage Tank per 3/C-717 and 5/C-718	3	EA	\$ 3,120.00	\$ 9,360.00
161	17.5	6" Thick CMB over Compacted Native	4,000	SF	\$ 1.95	\$ 7,800.00
18 DEWATERING						
	18.1	Review existing documentation, data gap analysis and perform supplementary testing and analysis	1	LS	\$ 306,000.00	\$ 306,000.00
	18.2	Dewatering system design, plans, and specifications	1	LS	\$ 75,000.00	\$ 75,000.00
19 SUPPLEMENTAL ITEMS						
Del	19.1	Supplemental Work (Deletable Bid Item)	1	LS	\$ 1,500,000.00	\$ 1,500,000.00
Del	19.2	Diesel Price Adjustment	1	LS	\$ 300,000.00	\$ 300,000.00
Del	19.3	Allocation for Heavy Ripping	1	T&M	\$ 150,000.00	\$ 150,000.00
Del	19.4	Landslide Remediation Budget	1	T&M	\$ 2,000,000.00	\$ 2,000,000.00
	19.5	Dewatering System Installation	1	LS	\$ 1,500,000.00	\$ 1,500,000.00
	19.6	Operation, Monitoring, Maintenance, and Decommissioning of the Dewatering System	6	MOS	\$ 83,333.33	\$ 500,000.00
CLOSEOUT						

**County of Orange, OC Public Works
Sukut Construction, LLC**

MA-299-22011298

BASE BID AMOUNT	\$ 54,087,030.00
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Notes:

- (ADD) Additive Bid Item
- (DED) Deductive Bid Item
- (DEL) Deletable Bid Item
- (NA) Non-Adjustable Bid Item
- (S) Specialty Bid Item

Abbreviations:

- | | |
|------------------|------------------------|
| CF = Cubic Foot | LS = Lump Sum |
| CY = Cubic Yard | MO = Month |
| EA = Each | TON = Ton (2,000 lbs) |
| GAL = Gallon | SF = Square Foot |
| LB = Pound | SY = Square Yard |
| LF = Linear Foot | T&M = Time & Materials |

SIGNATURE PAGE FOLLOWS

**County of Orange, OC Public Works
Sukut Construction, LLC**

MA-299-22011298

IN WITNESS WHEREOF, the parties hereto have executed this Contract on the dates opposite their respective signatures:

SUKUT CONSTRUCTION, LLC
a California Limited Liability Company

Date: 8/5/2022

By: Eddie Juarez

Eddie Juarez Vice President, Operations
Print Name & Title

(If a corporation, the document must be signed by two corporate officers. The 1st must be either Chairman of the Board, President or any Vice President.)

Date: 8/5/2022

By: Oren Post

Oren Post C.F.O.
Print Name & Title

(If a corporation, the document must be signed by two corporate officers. The 2nd must be either an Assistant Secretary, Secretary, Assistant Treasurer or Chief Financial Officer.)

COUNTY OF ORANGE,
a political subdivision of the State of California

Date: _____

By: _____

Print
Name: _____

Title: _____

Date: _____

APPROVED AS TO FORM
Office of the County Counsel
Orange County, California

By: Paul Albarian Paul Albarian