

ORIGINAL

AGREEMENT FOR SERVICES #3955 AMENDMENT I

This Amendment I to that Agreement for Services #3955, made and entered into by and between the County of El Dorado, a political subdivision of the State of California (hereinafter referred to as "County"), and Helix Environmental Planning, Inc., a California Corporation, duly qualified to conduct business in the State of California, whose principal place of business is 1677 Eureka Road, Suite 100, Roseville, California 95661 (hereinafter referred to as "Consultant");

RECITALS

WHEREAS, Consultant has been engaged by County to provide services related to the mitigation requirements for California Environmental Quality Act (CEQA) documents, provide site assessment and analysis and finalize a concept plan for the proposed Bike Park in the unincorporated community of El Dorado, in accordance with Agreement for Services #3955, dated August 27, 2019, incorporated herein and made by reference a part hereof (hereinafter referred to as "Agreement"); and

WHEREAS, the parties hereto desire to amend the Agreement to update Consultant's fee schedule and include subconsultants' rates, adding **Exhibit A-1, Amended Schedule of Fees**; and

WHEREAS, the parties hereto desire to amend the Agreement to revise the scope of work to include additional services for construction documents, bid and construction support, record drawings, operations and maintenance manual, NPDES permit waiver, geotechnical support, and other additional services as needed, amending **ARTICLE I, Scope of Services** and adding **Exhibit B-1, Additional Scope of Work**; and

WHEREAS, the parties hereto desire to amend the Agreement to extend the term of the Agreement, amending **Article II, Term**; and

WHEREAS, the parties hereto desire to increase the not-to-exceed compensation amount of the Agreement for the additional services by \$179,175 for a total not-to-exceed amount of \$271,442, amending **ARTICLE III, Compensation for Services**, and amending "Exhibit A, Schedule of Fees" to include "Exhibit A-1, Amended Schedule of Fees;" and

NOW THEREFORE, the parties do hereby agree that Agreement for Services #3955 shall be amended a first time as follows:

I. Exhibit A is amended to include Exhibit A-1, marked "Amended Schedule of Fees" together with the appendices, attached hereto and incorporated herein by reference. Except as otherwise expressly stated, all references to Exhibit A throughout the Agreement shall read Exhibit A and Exhibit A-1.

II. Exhibit B is amended to include Exhibit B-1 marked "Additional Scope of Work," attached hereto and incorporated herein by reference. All references to Exhibit B throughout the Agreement shall read Exhibit B and Exhibit B-1.

III. **ARTICLE I, Scope of Services**, of the Agreement is amended in its entirety to read as follows:

Consultant agrees to furnish the personnel and equipment necessary to provide services related to the mitigation requirements for California Environmental Quality Act (CEQA) documents for the proposed Bike Park in the unincorporated area of El Dorado. In addition, Consultant shall provide site assessment, analysis, finalize a concept plan, construction documents, bid and construction support, record drawings, operations and maintenance manual, NPDES permit waiver, geotechnical support, and additional services on an as needed basis. Services shall be in accordance with Exhibit "B", marked "Scope of Work" and Exhibit "B-1", marked "Additional Scope of Work", both exhibits incorporated herein and made part by reference hereof.

IV. **ARTICLE II, Term**, of the Agreement is amended in its entirety to read as follows:

This Agreement shall become effective upon final execution by both parties hereto and, as amended, shall expire three (3) years from the date hereof.

V. **ARTICLE III, Compensation for Services**, of the Agreement, first, second, and third paragraphs are amended in their entirety to read as follows:

For services provided herein, including any deliverables that may be identified herein, County agrees to pay Consultant upon the satisfactory completion and County's acceptance of work, monthly in arrears based upon services rendered and any deliverables completed for each phase. Payment will be made based on the hourly rates identified in Exhibit A, marked "Schedule of Fees," and Exhibit A-1, marked "Amended Schedule of Fees," within forty-five (45) days following the County's receipt and approval of itemized invoice(s) identifying services rendered.

For the purposes of budgeting the phases and tasks in Exhibit B and Exhibit B-1, the maximum allowable billing amounts for each phase are described in Exhibit B and Exhibit B-1, based on the hourly rates identified in Exhibit A, marked "Schedule of Fees" and Exhibit A-1, marked "Amended Schedule of Fees," incorporated herein and made part by reference hereof. For the period beginning August 27, 2019 and continuing through the day before the effective date of this Amendment I to the Agreement, the billing rates shall be in accordance with Exhibit A, marked "Schedule of Fees." Beginning with the effective date of this Amendment I to the Agreement, the billing rates shall be in accordance with Exhibit A-1, marked "Amended Schedule of Fees."

The total amount of this Agreement, as amended, shall not exceed \$271,442.00, inclusive of all costs, taxes, and expenses.


Except as herein amended, all other parts and sections of Agreement #3955 shall remain unchanged and in full force and effect.

Requesting Contract Administrator Concurrence:

By: 
Vickie Sanders
Parks Manager
Chief Administrative Office, Parks Division

Dated: 8/19/2020

Requesting Department Head Concurrence:

By: 
Donald Ashton, MPA
Chief Administrative Officer
Chief Administrative Office

Dated: 8/25/2020

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IN WITNESS WHEREOF, the parties hereto have executed this first Amendment to that Agreement for Services #3955 on the dates indicated below.

-- COUNTY OF EL DORADO --

By: 

Dated: 8/25/2020

Chair
Board of Supervisors
"County"

ATTEST:
Kim Dawson
Clerk of the Board of Supervisors

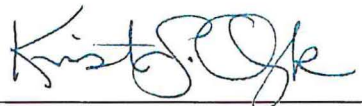
By: 

Dated: 8/25/2020

Deputy Clerk

-- CONSULTANT --

HELIX ENVIRONMENTAL PLANNING, INC.
A CALIFORNIA CORPORATION

By: 

Dated: 08/13/20

Kristin Olszak
Chief Financial Officer
"Contractor"

By: 

Dated: August 17, 2020

Michael Schwerin
Chief Executive Officer
"Contractor"

CONSULTING SERVICES

Consulting services performed by HELIX typically include, but are not necessarily limited to, office, field, meetings, hearings and travel time. Consulting services for expert witness review, deposition, and/or testimony will be provided at one and one-half times our professional rates.

DIRECT COSTS

Certain identifiable direct costs will be charged to the project at cost plus ten percent. Examples of direct costs include subconsultants, vehicle or equipment rentals, airplane and train fares, parking, per diem and lodging, mileage, communications, reproduction, and supplies. A 4-wheel drive premium will be charged at \$25 per project day. There will be additional charges for plotting, color printing, aerial photographs and GPS services.

PAYMENT

Invoices will be submitted monthly. Payment on invoices is due within thirty days of receipt. If payment is not paid when due, then such sum shall bear interest at 1 ½ % per month on the unpaid balance, not to exceed the maximum legal rate of interest.

PROFESSIONAL RATES

Current hourly rates for consulting services:

Principal	\$210-230
Principal Acoustician	\$180-200
Principal Biologist	\$190-220
Principal Landscape Architect	\$160-180
Principal Permitting Specialist	\$170-220
Principal Planner	\$195-230
Principal Regulatory Specialist	\$185-220
Senior Project Manager I-III	\$150-215
Senior Air Quality Specialist	\$155-180
Senior Environmental Specialist	\$130-170
Senior Fisheries Scientist	\$200-\$230
Noise/Air Quality Specialist	\$115-145
Environmental Specialist I-III	\$85-125
Environmental Compliance Analyst	\$70
Environmental Compliance Specialist	\$115
Project Manager I-III	\$120-150
Assistant Project Manager	\$100-120
Archaeology Field Director	\$105
Staff Archaeologist	\$75-115
Senior Archaeologist	\$120-165
Historian	\$70-125
Environmental Planner I-III	\$95-120
Environmental Analyst	\$65-75
Landscape Architect	\$110-125
Senior Landscape Architect	\$130-150
Landscape Planner I-III	\$95-115
Sr. Scientist	\$130-180
Biologist I-V	\$80-130
Assistant Biologist	\$60
Senior GIS Specialist	\$125-165
GIS Specialist I-III	\$75-120
Graphics	\$115
Technical Editor	\$70-100
Operations Manager	\$105- 115
Word Processor I-III	\$65-85
Clerical	\$65-75

Rates are subject to change on a yearly basis

EXHIBIT A-1: AMENDED SCHEDULE OF FEES
APPENDIX 1



Auburn - Oakdale - San Jose

SCHEDULE OF HOURLY RATES

Effective 01/01/2020

The following rates are applicable to hourly rate contracts, extra work items, and per-diem accounts:

<u>Classification</u>	<u>Hourly Rate</u>
Principal Engineer	\$ 150.00
Senior Engineer	125.00
Senior Land Surveyor	125.00
Associate Engineer	95.00
Engineering Technician	55.00
Senior Drafter	85.00
Drafter	75.00
Survey Technician	90.00
Field Crew / GPS Survey	205.00
Clerical	45.00
Expert Witness	350.00

Reproductions, copying, record maps, filing fees, and additional outside services will be billed at cost plus fifteen (15) percent. Field crew per diem cost is \$100 when mileage is in excess of 100 miles from office of origin. Vehicle mileage charge \$0.40/mile.

PROFESSIONAL SERVICES

PROFESSIONAL SERVICES

Principal Engineer / Geologist	\$190.00	per hour
Senior Engineer / Geologist	\$190.00	per hour
Senior Environmental Scientist	\$190.00	per hour
Project Engineer / Geologist	\$155.00	per hour
Project Environmental Scientist	\$155.00	per hour
Senior Staff Engineer / Geologist	\$145.00	per hour
Senior Staff Environmental Scientist	\$145.00	per hour
Staff Engineer / Geologist	\$140.00	per hour
Staff Environmental Scientist	\$140.00	per hour
Senior Environmental Technician	\$115.00	per hour
Senior / Supervising Technician	\$115.00	per hour
Draftsperson / GIS Technician	\$110.00	per hour
Administrative Assistant	\$85.00	per hour

FIELD INVESTIGATION TESTING

Seismic Refraction Survey	\$190.00	per hour
Thermal Resistivity Testing	\$190.00	per hour
Electrical Resistivity Survey	\$190.00	per hour
Hand Augering/Sampling - Engineer	\$170.00	per hour
Photoionization Detector	\$190.00	per hour
Rebar Location / GPR	\$310.00	per hour

LITIGATION

Data Review/Consultation	\$275.00	per hour
Depositions/Expert Witness Testimony	\$380.00	per hour

EXPENSES

Vehicle Charges <i>(Subject to periodic adjustment due to fuel cost)</i>	\$0.75	per mile
Subsistence	\$70.00	per day
Lodging	Cost	
Services by Associate Firms and other outside services	Cost	plus 20%
Equipment rental, freight, special materials	Cost	plus 20%
Extra Report Copies		
Black and white versions	\$25.00	each
Color photography versions	\$35.00	each

PREMIUM CHARGES

Overtime and Saturdays	hourly rate plus	40	percent
Sunday and Holidays, and over 8 hrs on Saturday	hourly rate plus	75	percent

SHIFT DIFFERENTIAL

A 25 percent shift differential surcharge will be added to the hourly rate of personnel involved in scheduled testing work between the hours of 6 P.M. and 5 A.M., as well as a four hour minimum.



FIELD SERVICES

CONCRETE & REINFORCING STEEL

Ball Penetration (Kelly Ball)	\$140.00 /hr.
Batch Plant Inspection	\$110.00 /hr.
CaCl Moisture Emission Test Kit	\$35.00 /kit
CaCl Moisture Emission Testing	\$105.00 /hr.
CLSM/CDF/Slurry Testing	\$105.00 /hr.
Concrete Mix Design Review	\$190.00 /hr.
Concrete Placement Obs/Cast Cylinder	\$110.00 /hr.
Concrete Rebound Number Testing	\$140.00 /hr.
Concrete Trial Batch	\$110.00 /hr.
Floor Flatness Testing	\$140.00 /hr.
High Strength Grout Sampling / Testing	\$110.00 /hr.
Rebar / Post Tension Special Inspection	\$115.00 /hr.
Rebar Location / GPR	\$310.00 /hr.
Rebar Location / Pachometer	\$140.00 /hr.
Rebar Placement Inspection	\$115.00 /hr.
Reinforcing Steel Sampling/Tagging	\$110.00 /hr.
Relative Humidity Testing	\$140.00 /hr.
Shotcrete Special Inspection	\$110.00 /hr.
Transport Cylinders / Samples to Lab	\$110.00 /hr.

CORING

Coring (Technician + equipment)	\$140.00 /hr.
Coring (Technician assistant)	\$110.00 /hr.

POST-INSTALLED ANCHORS

Concrete Anchor Installation Inspection	\$110.00 /hr.
Concrete Anchor Proof Load Testing	\$140.00 /hr.
Concrete Anchor Torque Testing	\$115.00 /hr.
Suspended Ceiling Inspection / Testing	\$140.00 /hr.

STRUCTURAL STEEL

Fireproofing Special Inspection / Testing	\$110.00 /hr.
High Strength Bolt Special Inspection	\$115.00 /hr.
Material Identification	\$115.00 /hr.
Non-Destructive Testing - UT/MT/PT	\$125.00 /hr.
Tower Certified Special Inspector	\$140.00 /hr.
Welding Special Inspection - Field	\$115.00 /hr.
Welding Special Inspection - Shop	\$115.00 /hr.

MASONRY

In-Place Masonry Flatjack Testing	\$170.00 /hr.
In-Place Masonry Shear Testing	\$140.00 /hr.
Masonry Materials Sampling / Testing	\$110.00 /hr.
Masonry Special Inspection	\$110.00 /hr.
Masonry Special Inspection DSA Cert.	\$120.00 /hr.

* Based on hourly rate of Inspection or Testing scheduled
 ** Based on Staff Classification

MINIMUM CHARGES

A two hour minimum charge will apply to field technician services with the following exceptions:
 a) Single trip pickup and delivery services, where a one hour minimum will apply.
 b) Saturday, Sunday and holidays, where a four hour minimum charge will apply.

SOILS & ASPHALT CONCRETE

Asphalt Concrete Inspection / Testing	\$115.00 /hr.
Asphalt Concrete Materials Sampling	\$115.00 /hr.
Building Pad Special Inspection / Testing	\$115.00 /hr.
Deep Foundation Inspection	\$115.00 /hr.
Flatwork AB Inspection / Testing	\$115.00 /hr.
Flatwork Subgrade Inspection / Testing	\$115.00 /hr.
Grading Inspection / Testing	\$115.00 /hr.
Hand Augering and Sampling	\$145.00 /hr.
Pavement AB Inspection / Testing	\$115.00 /hr.
Pavement Subgrade Inspection / Testing	\$115.00 /hr.
Proof Rolling Observation	\$115.00 /hr.
Shallow Foundation Inspection	\$115.00 /hr.
Slab Subgrade Soil Moisture Tests	\$115.00 /hr.
Soil / Aggregate Sampling	\$115.00 /hr.
Soil Treatment Testing / Observation	\$115.00 /hr.
Structure Backfill Inspection / Testing	\$115.00 /hr.
Subgrade Stabilization Observation	\$115.00 /hr.
Utility Trench Backfill Testing	\$115.00 /hr.
WKA Drill Rig (including operator)	\$235.00 /hr.
WKA Drill Rig (helper)	\$115.00 /hr.

SPECIALIZED SERVICES

Coefficient of Friction Testing	\$145.00 /hr.
Crack Monitoring	**
Epoxy / FRP Installation Inspection	\$110.00 /hr.
Existing Building Evaluation / Demo	\$110.00 /hr.
Existing Building Evaluation / Document	\$110.00 /hr.
Existing Building Evaluation / Repair	\$110.00 /hr.
Field Investigate Support	\$110.00 /hr.
Firestopping Inspection	\$125.00 /hr.
GFRC Inspection / Testing	\$110.00 /hr.
Glulam / Truss Fabrication Inspection	\$120.00 /hr.
Glulam / Truss Inspection Travel	\$85.00 /hr.
Meggar Ground Testing	\$140.00 /hr.
Prestress Framing Installation	\$110.00 /hr.
Proto Wall Inspection / Testing	\$110.00 /hr.
Roofing Inspection	\$110.00 /hr.
Shear Nailing Inspection	\$110.00 /hr.
Soil Elect. Resistivity Testing - Technician	\$145.00 /hr.
Thickness Testing - Coating / Steel	\$140.00 /hr.
Timber Framing / Hardware Inspection	\$110.00 /hr.
Timber-in-Structure Inspection	\$140.00 /hr.
Vapor Barrier Inspection	\$110.00 /hr.
Vibration Monitoring	**

GENERAL

Inspection / Testing Cancelled	*
Reinspection / Retesting	*
Stand-by Time	*



LABORATORY SERVICES

SOIL

Atterberg Limits (LL/PI)	ASTM D4318	\$160.00	each
CLSM/CDF/Soil Cement Compression Test	ASTM D4832	\$60.00	each
Compaction Characteristics	ASTM D698	\$260.00	each
Compaction Characteristics	ASTM D1557	\$260.00	each
Compaction Characteristics	CTM 216	\$260.00	each
Consolidation (8 loads + 1 rebound)	ASTM D2435	\$470.00	each
Consolidation (additional loads)	ASTM D2435	\$55.00	each
Expansion Index	ASTM D4829	\$195.00	each
Hydraulic Conductivity, Flexible Wall Permeability	ASTM D5084	\$420.00	each
Lime-Treated Unconfined Compression	CTM 373	\$800.00	each
Moisture Content	ASTM D2216	\$30.00	each
Organic Content	ASTM D2974	\$100.00	each
Particle-Size Distribution - Hydrometer	ASTM D7928	\$160.00	each
Particle-Size Distribution - Sieve Analysis	ASTM D6913	\$110.00	each
Resistance "R" Value - Laboratory Lime-Treated	ASTM D2844, CTM 301	\$315.00	each
Resistance "R" Value - Untreated	ASTM D2844, CTM 301	\$265.00	each
Sieve Analysis - Passing No. 200 only	ASTM D1140	\$95.00	each
Specific Gravity of Soils	ASTM D854	\$140.00	each
Thermal Resistivity	ASTM D5334	\$80.00	each
Triaxial Compression Test, 1 point - Remolded	ASTM D4767	\$335.00	each
Triaxial Compression Test, 1 point - Undisturbed	ASTM D4767	\$260.00	each
Triaxial Compression Test, 3 Pt. Staged - Remolded	ASTM D4767	\$390.00	each
Triaxial Compression Test, 3 Pt. Staged - Undisturbed	ASTM D4767	\$305.00	each
Unconfined Compression Test	ASTM D2166	\$110.00	each
Unit Weight/Moisture Content - Tube Sample	ASTM D2937/D2216	\$40.00	each

AGGREGATE

Aggregate Unit Weight	ASTM C29	\$60.00	each
Clay Lumps and Friable Particles	ASTM C142	\$160.00	per size
Cleanness Value	CTM 227	\$170.00	each
Durability Index (Coarse or Fine)	CTM 229	\$165.00	each
Flat and Elongated Particles in Coarse Aggregate	ASTM D4791	\$120.00	per size
Fractured/Crushed Particles	ASTM D5821, CTM 205	\$120.00	per size
Organic Impurities in Fine Aggregates	ASTM C40	\$65.00	each
Resistance "R" Value - Aggregate	CTM 301	\$315.00	each
Sand Equivalent, 1 point	CTM 217	\$100.00	each
Sand Equivalent, 3 points	CTM 217	\$135.00	each
Sieve Analysis - Coarse or Fine	ASTM C136, CTM 202	\$110.00	each
Sieve Analysis - Passing No. 200 only	ASTM C117	\$95.00	each
Sodium Sulfate Soundness	ASTM C88, CTM 214	\$160.00	per size
Specific Gravity and Absorption (Coarse or Fine)	ASTM C127, C128	\$130.00	each

ASPHALT CONCRETE

Asphalt Content (Ignition Oven)	ASTM D6307, CTM 382	\$260.00	each
Hveem Compacted Unit Weight, 1 point	ASTM D1560/D2726		
	CTM 304/308	\$110.00	each
Laboratory Test Maximum Density (LTMD), 5 points	CTM 375	\$360.00	each
Marshall Compacted Unit Weight, 1 point	ASTM D6926/D2726	\$110.00	each
Sieve Analysis of AC Aggregate (Coarse and Fine)	ASTM D5444, CTM 202	\$180.00	each
Stabilometer Value, 1 point	CTM 366	\$135.00	each
Theoretical Maximum Density	ASTM D2041, CTM 309	\$160.00	each
Thickness of AC Cores	ASTM D3549	\$20.00	each
Unit Weight of AC Cores	ASTM D2726, D1188, CTM 308	\$60.00	each



LABORATORY SERVICES

CONCRETE

Compression Test, Concrete Cylinder	ASTM C39	\$30.00	each
Compression Test, Concrete Cylinder - Hold	ASTM C39	\$25.00	each
Compression Test, Concrete Core	ASTM C42, C39	\$85.00	each
Compression Test, Shotcrete Core	ASTM C42, C39	\$110.00	each
Compression Test, High Strength Grout	ASTM C1107/C109	\$45.00	each
Concrete Cylinder Mold		\$7.00	each
Density / Unit Weight of Concrete	ASTM C567, C642	\$100.00	each
Flexural Strength Test, Concrete Beam	ASTM C78	\$115.00	each
Laboratory Drying Shrinkage Test, per beam	ASTM C157	\$195.00	each
Splitting Tensile Test, Concrete Cylinder	ASTM C496	\$85.00	each

MASONRY

Brick			
Compression Test	ASTM C67	\$70.00	each
Modulus of Rupture	ASTM C67	\$80.00	each
Absorption	ASTM C67	\$95.00	each
Concrete Masonry Unit			
Compression Test	ASTM C140	\$80.00	each
Absorption & Moisture Content	ASTM C140	\$80.00	each
Linear Drying Shrinkage	ASTM C426	\$220.00	each
Compression Test, Composite Masonry Prism	ASTM C1314	\$140.00	each
Compression Test, Masonry Grout	ASTM C1019	\$45.00	each
Compression Test, Mortar	ASTM C780/C109	\$40.00	each
Core Shear Test	CBC Section 2105A	\$95.00	each
Masonry Core Compression Test	CBC Section 2105A	\$80.00	each

STEEL

Anchor Bolt Tensile Test	ASTM F606	\$110.00	each
Fireproofing Density Test	ASTM E605	\$100.00	each
High Strength Bolt Assembly Laboratory Testing			
Bolt - Wedge Tension Test	ASTM F606	\$80.00	each
Bolt - Proof Load Test	ASTM F606	\$80.00	each
Bolt - Hardness Test	ASTM E18	\$40.00	each
Nut - Proof Load Test	ASTM F606	\$80.00	each
Nut - Hardness Test	ASTM E18	\$40.00	each
Washer - Hardness Test	ASTM E18	\$40.00	each
Prestressing Steel Strand Tensile Test	ASTM A416/A1061	\$150.00	each
Reinforcing Steel (Rebar) Tensile Test			
Up to No. 7	ASTM A615, A706/A370	\$90.00	each
From No. 8 through No. 14	ASTM A615, A706/A370	\$120.00	each
Reinforcing Steel (Rebar) Bend Test	ASTM A615, A706/A370	\$50.00	each
Structural Steel Tensile Test			
Up to 3/4"	ASTM A370	\$110.00	each
Sizes Larger Than 3/4"	ASTM A370	\$125.00	each
Machining of Test Specimens		cost plus 20%	
Structural Steel Hardness Test	ASTM E18	\$85.00	each
Torque Wrench Calibration Test (min. of 4 wrenches)		\$85.00	each
Weld Assembly, Guided Bend/Macroetch/T-Bend Test	AWS D1.1, ASTM E190	\$85.00	per test
Welder Qualification Test Inspection		\$95.00	per hour
Welder Qualification Test Record		\$100.00	each

TESTING SERVICES

Laboratory Technician		\$95.00	per hour
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EXHIBIT A-1: AMENDED SCHEDULE OF FEES
APPENDIX 3



Consulting Services Rates

Consulting services performed by Action sports construction typically include, but are not limited to, office, field, meetings, and travel time. The following are the hourly rates for the ASC Principal & Draft person

Principal - \$120 per hour

Draft Person - \$120 per hour

EXHIBIT B-1 ADDITIONAL SCOPE OF SERVICES

Project # CED-04

Subject: Contract Augment to Provide Additional Services for the El Dorado County Bike Park Project

Agreement #3955, between HELIX Environmental Planning, Inc. (HELIX) and the County of El Dorado (Client) is hereby augmented as follows:

SCOPE OF WORK

Task 8 – Construction Documents

The HELIX project team will develop Plans, Specifications, and Cost Estimates (PS&E) based on the approved conceptual design prepared by HELIX under Task 6 of the original contract and include the commitments as outlined in the Old Depot Bike Park grant application as awarded on February 25, 2020. HELIX staff will manage the work and prepare landscape architecture construction documents including layout, planting, and irrigation plans, as well as paving, site furnishing, and play area details. Action Sports Construction (ASC) will design and provide fine grading, layout, and construction details for bike specific features including the Dirt Track and Jumps, Pump Track and interior bowls, Toddler Pump Track, and Skills and Trials. Giuliani & Kull, Inc. will complete all civil engineering design including rough grading, fine grading for non-bike specific features, drainage, and wet utility connections for the restroom and irrigation, and erosion control. The restroom is anticipated to be a vault septic system and Giuliani & Kull will coordinate percolation testing including excavation and septic design into their plans. Edge Engineering will complete all electrical engineering including two security lights, electrical connection to the restroom, and electrical connection for the irrigation controller.

Included in the construction document development is utility agency coordination. Giuliani & Kull will coordinate with the utility department to ensure water service onsite. Edge Electrical will coordinate point of connection and electrical services and assist the owner in completing service application for their submittal. Edge Electrical will also coordinate with electrical, cable, and phone utilities to abandon services necessary to remove onsite utility poles.

The project team will develop 60% construction documents that will include a cover, layout, grading, electrical, planting, and irrigation plans; bike park enlargements and/or sections as necessary; and details. At the 60% level, the general form of the project will be conveyed in plans, design will be based on geotechnical recommendations (developed in Task 14), most details will be started, and materials and intent will be conveyed. Specifications will not be prepared at the 60% level. A cost estimate will be prepared.

Following review of the plans by County Staff, HELIX will attend a meeting or conference call with County Staff to review the plans and discuss any questions or concerns.

The project team will then integrate County comments on the 60% construction documents into the 90% construction documents. At the 90% level, the nearly final form of the project will be conveyed in the plans, most details will be completed, and materials and intent will be fully conveyed. Changes to the design are not expected at this point in the process. Specifications will be prepared using Construction Specifications Institute (CSI) specification format and the cost estimate will be updated. A memorandum will be prepared summarizing changes,

Following review of the plans by County Staff, HELIX will attend a meeting or conference call with County Staff to review the plans and discuss any questions or concerns.

The project team will integrate County comments on the 90% construction documents into the 100% construction documents. At the 100% level, the final form of the project will be conveyed in plans and details completely. Specifications and cost estimate will be finalized. A memorandum will be prepared summarizing changes.

The City will review the 100% construction documents and provide any final comments to HELIX. From the 100% to final plan levels only minor (text) changes are anticipated. Plans will be stamped and signed by the respective California-licensed professionals working on each individual plan sheet.

Task 9 - Bid and Construction Support

The project team will provide bidding and construction support services as described below:

- HELIX will provide up to 60 hours of bidding and construction support services as requested by the County. Bid support services may include responding to contractor requests for information (RFIs), plan revisions, bid review and recommendations and/or participation in a pre-bid meeting. Construction support services may include responding to contractor RFIs, submittal review, design changes, field instruction support, clarifications, and punch list preparation. This includes up to 4 meetings. Meetings may include pre-construction, irrigation field review, plant inspection, punch list site walk through, and/or others as necessary.
- Giuliani & Kull will provide up to 46 hours of bidding and construction support services. Bidding support services may include responding to contractor requests for information and development of minor addendums if necessary. Construction support services may include responding to contractor RFIs, submittal review, clarifications, and up to 4 site visits, including a pre-construction meeting and others as requested.
- Edge will provide up to 8 hours of bidding and construction support services as requested by the county. Support services shall include submittal review, responding to contractor's requests for information, and up to 3 on site meetings, which may include a pre-construction meeting, meetings with the design team, and final inspection.
- Action Sports Construction will provide up to 80 hours of bidding and construction support services. Bidding support services may include responding to contractor RFIs and reviewing

contractor bike park related experience. Construction support services may include support and inspections during key points of the construction phase, including up to 7 meetings, which are anticipated to include pre-construction meeting, rough grading inspection for cycling amenities, fine grading inspection for cycling amenities, inspection of pump track contours prior to application of asphalt, inspection of prefabricated feature installation, flow testing of completed park, final punch list walk through. During these visits and through virtual coordination, ASC will oversee correct placement and spacing of cycling amenities during the construction phase. Correct spacing between each feature is a critical step in building a safe bike park. Once the features are installed, ASC will inspect the final grading and test each obstacle in the park in a process known as “flow testing”. If necessary, ASC will provide direction for adjustment of any feature with incorrect spacing or grading.

Task 10 – Record Drawings

Following project completion, each the project team member will complete one set of record drawings based upon contractor provided red-line drawings. Record drawings will be provided in PDF and DWG format.

Task 11 – Operations and Maintenance Manual

The purpose of an operations and maintenance manual is to ensure the highest quality maintenance and management of the park and to ensure comprehensive risk management practices. Maintaining a properly groomed and compacted riding surface is essential for sustaining the bike park’s usability, safety, and reducing liability.

The project team will prepare a two-part manual consisting of a planting and irrigation maintenance manual in compliance with MWELo and a bike park maintenance manual. The manual will include a detailed plan for the best practices and most efficient techniques in maintaining the park based on current best practices and standards used by comparable bicycle parks that currently operate in the region. The maintenance document will go in depth regarding the routines and frequency for routine maintenance activities. The manual will be designed to be used as both a reference tool for ensuring best practices and as an archive tool for logging and recording operations.

Task 12 – NPDES Permit or Waiver Determination

Giuliani & Kull would assess the project and determine into which State Water Resources Control Board risk classification the project falls. If it is determined that a waiver is acceptable for the project, then a waiver application will be submitted. If a waiver is not acceptable, then Optional Task 15 would be necessary, or the Contractor would be required to develop the SWPPP as a part of their contract.

Task 13 – Geotechnical Report

Wallace-Kuhl & Associates will complete a geotechnical investigation and report. This will include site reconnaissance, test pit marking, and coordination with Underground Service Alert (USA) and its affiliates. As part of the investigation, they will perform subsurface explorations that will include the excavation and sampling of six to eight test pits to a maximum depth of 10 feet below existing grades or to practical refusal to excavation, whichever is encountered first; collect soil samples from the test pits at approximate 5-foot-intervals or at significant changes in lithology and representative bulk samples at

various depths; and perform laboratory testing of selected soil samples and engineering analyses. The results of the investigation will be summarized in a Geotechnical Engineering Report for the project that will include:

- Site Plan showing approximate exploration locations, logs of test pits, and laboratory test results;
- Findings regarding site, geology, soil, rock, and groundwater conditions;
 - Conclusions regarding the 2019 California Building Code seismic design parameters; effect of previous construction on development; expansive soil conditions; effect of groundwater on development; excavation conditions; material suitability for use in fill construction; pavement subgrade qualities; absence or presence of naturally-occurring asbestos; and preliminary soil corrosion potential.
 - Recommendations regarding site clearing; site preparation and engineered fill construction; utility trench backfill; foundation design parameters; interior slab support; retaining wall design parameters, if needed; structural backfill; site drainage; exterior flatwork; and pavement design for varying traffic conditions, if needed.

Task 14 – Additional Support

HELIX shall provide additional coordination and support as requested by County staff to support design and construction efforts. The exact nature of these efforts will be determined as the project progresses and will only be initiated after written approval from County staff. Services performed under this task may include efforts such as preparation of graphics, calculations, reports, memos, plan changes, site visits, meetings with staff and stakeholders or other services required for successful completion of the project.

Task 15 - SWPPP (Optional)

If a full storm water pollution prevention plan (SWPPP) (as opposed to a waiver application) is required and the County chooses to prepare the SWPPP as part of the design process, then Giuliani & Kull will prepare a SWPPP document consistent with the requirements of the State Water Resources Control Board (SWRCB) general permit requirements as adopted July 1, 2010. The report will include development of site-specific criteria for determination of Risk classification, erosion control, potential site pollutants, etc.; together with BMP's required for mitigation and control. The SWPPP document will include monitoring, rain event action plan and inspection requirements.

Project Team will coordinate with Client to establish a Notice of Intent (NOI) with SWRCB. The SWPPP document and Erosion Control Plan (prepared as part of the construction documents) will be uploaded to the Storm Water Multiple Application and Report Tracking System (SMARTS) system for State general permit compliance.

Task 16 – Peer Review of Contractor's Biologist for CEQA Compliance (Optional)

If requested by the County, HELIX biologists will conduct a peer review of pre-construction survey reports and biological monitoring reports prepared by the contractor's biologist for CEQA compliance with the project's biological resources mitigation measures. HELIX's biologists will review and provide