



3030 S. 7TH STREET, PHOENIX, AZ 85040
 PHONE: 602.323.2800 | WWW.SUNLANDASPHALT.COM

To:	Mesa Unified School District #4	Contact:	Todd Poer
Address:	143 South Alma School Road Mesa, AZ 85210	Phone:	(928) 978-4059
Project Name:	Las Sendas ES	Fax:	
Project Location:	3120 N Red Mountain, Mesa, AZ	Bid Number:	PH014519
		Bid Date:	6/23/2022

Item Description	Total Price
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Adjacent Ways

Pulverize / Grade / Pave - (Adjacent Ways)

\$121,295.88

Provide Project Management Including Travel Time, Meetings, Paperwork, And Billings.

Provide The Following Limited Construction Permits:

- Dust Control Permit, Water Meter Permit And Water Buy

Provide Traffic Control And Barricades During Our Scope Of Work.

Provide A Private Locator To Locate Underground Obstacles.

GPS & Pre-lower Utilities Prior To Pulverizing.

Make Necessary Saw Cuts.

Pulverize Existing Asphalt 34,844 Square Feet And Base To A Depth Of 3 Inches. Pulverizing Depth Is Based On A Maximum 3 Inch Asphalt Thickness . Gather Excess Material From Site And Haul Off As Needed.

Fine Grade Existing Base, Add Moisture, And Compact To Grade.

Pave With 1/2 Inch MAG Asphalt Surface Course To An Average Finished Depth Of 3 Inches After Compaction With A Steel Wheeled Vibratory Roller.

Raise 6 Water Valves Flush With New Asphalt Elevation Including Concrete Collar.

This Proposal Is Based On Performing The Work In 1 Phase/Mobilization.

Cement Stabilization - (Adjacent Ways)

\$58,957.48

Add 3 Percent Lime / Cement To Approx. 34,844 Square Feet. Blend To A Depth Of 12 Inches. Add Moisture And Compact To Grade.

This Proposal Is Based On Performing The Work In Conjunction With Base Bid

Pavement Markings - (Adjacent Ways)

\$2,903.96

Stripe To Existing Pattern:

Stripe 3500 LF Of Cross Hash Markings

Curb Painting 1500 Linear Feet

Stripe Arrows 16 Each

Stripe 12" Stencils 100 Each

Payment & Performance Bond - (Adjacent Ways)

\$2,381.05

Subtotal for above Adjacent Ways Items: \$185,538.37

COUNTY OF MARICOPA AND CITY OF MESA TAX 5.395%: \$10,009.80

Total Price for above Adjacent Ways Items: \$195,548.17

Standard Funding

Pulverize / Grade / Pave - (Standard Funding)

\$59,044.55

Make Necessary Saw Cuts.

Pulverize Existing Asphalt 18,090 Square Feet And Base To A Depth Of 3 Inches. Pulverizing Depth Is Based On A Maximum 3 Inch Asphalt Thickness . Gather Excess Material From Site And Haul Off As Needed.

Fine Grade Existing Base, Add Moisture, And Compact To Grade.

Pave With 1/2 Inch MAG Asphalt Surface Course To An Average Finished Depth Of 3 Inches After Compaction With A Steel Wheeled Vibratory Roller.

This Proposal Is Based On Performing The Work In Conjunction With Base Bid.

Cement Stabilization - (Standard Funding)

\$29,178.64

Add 3 Percent Cement To Approx. 18,090 Square Feet. Blend To A Depth Of 12 Inches. Add Moisture And Compact To Grade.

This Proposal Is Based On Performing The Work In Conjunction With Base Bid

Item Description	Total Price
<u>Pavement Markings</u>	\$3,298.03
Stripe To Existing Pattern:	
Stripe 4 Standard ADA Handicap Stall(s)	
Stripe 83 Standard Parking Stall(s)	
Stripe 500 LF Of Cross Hash Markings	
Stripe 12" Stencil 350 Each	
Remove Existing Signs & Posts 4 Each	
Install New Handicapped Signs & Posts 4 Each	
Remove And Haul Off Existing Wheel Stops 4 Each	
Remove And Re-pin Wheel Stops 4 Each	
<u>Traffic Control</u>	\$442.33
<u>Payment & Performance Bond - (Standard Funding)</u>	\$1,195.52
Subtotal for above Standard Funding Items:	\$93,159.07
COUNTY OF MARICOPA AND CITY OF MESA TAX 5.395%:	\$5,025.93
Total Price for above Standard Funding Items:	\$98,185.00
Bid Price Subtotal:	\$278,697.44
Total COUNTY OF MARICOPA AND CITY OF MESA TAX 5.395%:	\$15,035.73
Total Bid Price:	\$293,733.17

Notes:

• **MOHAVE EDUCATIONAL SERVICE CO-OP BID**

CONTRACT NUMBER: 19P-ACE-0318

SPECIAL NOTE:

The terms and conditions of Mohave Educational Services Co-Op Bid, Contract Number 19P-ACE-0318 will prevail over any and all terms and conditions stated in the proposal.

Prices are valid until September 30th, 2022.

- **Estimated material taxes are included in total price. In order to hold pricing, this proposal must be signed and returned within 15 days from the bid date specified above. Due to the pricing volatility of our industry at the moment, Sunland reserves the right to update pricing at any time prior to start of work.**
- **Material pricing is good through 07-30-2022.**
- Pricing excludes night/weekend work, permits, fees, bonds, notifications, QC testing, utility adjustment hardware, gate loops, painting bumper blocks, permanent signage, herbicide, water source, or survey/staking in price unless noted above. Any pre-existing ADA compliance issues are excluded from contract unless specifically stated in proposal.
- Additional (downtime/mobilization) charges may result from delays beyond the control of Sunland Asphalt (or its subcontractors) which prohibit the above mentioned work from being completed as scheduled. (i.e., unmoved vehicles, disregard for Sunland traffic control, sanitation/delivery services, sprinkler runoff, etc.)
- The depth of the existing asphalt is only an estimate. Additional depth may require additional charges. The removal of the asphalt has been bid for that function alone and does not include excavation of the base or subbase. If at the time of the removal, it is determined that contamination of water has weakened either the base or the subbase, additional charges would be negotiated to correct the unforeseen problem. If upon the removal of the asphalt, it is found that structures exist below such as concrete footings, abandoned pipes, metal supports, etc., an additional charge would be negotiated to remove these obstructions if they would impede or prohibit grade consistencies. Sunland Asphalt will not be held liable for any underground cables, electrical lines, water lines or any other underground obstruction not locatable or not buried to a depth less than 18" below the existing finished grade.

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Sunland Asphalt & Construction, LLC.

Authorized Signature: _____

Project Consultant: Eric Albright

• **Sunland Asphalt Addendum Terms and Conditions:**

Contractor and Owner hereby accept the terms of the attached Proposal subject to = the terms and conditions set forth in this Addendum. The Proposal and Addendum shall be collectively referred to as the "Contract." This Addendum is attached hereto and incorporated herein by reference. If any of the terms of the Proposal are inconsistent with the terms of this Addendum, then this Addendum shall be controlling and the parties shall be bound by the terms and conditions of this Addendum.

• 1. WORK

Contractor will furnish all necessary labor, materials, and equipment to complete the work specified in the Contract (the "Work"). All surfaces to which material is to be applied shall be in a condition similar to the condition at the time the project was bid. Owner shall specify one representative to represent the Owner who has authority to accept the Work and authorize changes to the Work. Owner shall provide reasonable access to a water supply source. Owner grants Contractor permission to utilize photos and videos of the Work and the project site in the promotion of Contractor's business services.

• 2. PAYMENT

Contractor shall be paid a monthly progress payment within 15 days after receipt of the payment by the Owner for the value of work performed. Final payment, including all retention, shall be due 15 days after the work described in the Proposal is substantially completed. No provision of this agreement shall serve to void the Contractor's entitlement to payment for properly performed work.

• 3. INTEREST AND EXPENSES

All sums not paid when due shall bear an interest rate of 1 1/2% per month or the maximum legal rate permitted by law, whichever is less, and all costs of collection, including a reasonable attorneys' fee, shall be paid by Owner.

• 4. ATTORNEYS' FEES

In the event of litigation regarding the Contract or collection efforts by Contractor, the prevailing party shall be awarded its reasonable attorneys' fees and costs, which shall include all costs that would normally be passed through to the client, specifically but not limited to research charges, travel costs, expert witness costs, copying costs, mailing costs, facsimile costs, had-delivery costs, Federal Express or Express Mail costs, taxable costs and disbursements.

• 5. CONTINUED PERFORMANCE

Nothing in this Contract shall require the Contractor to continue performance if timely payments are not made to Contractor for suitably performed work.

• 6. BACK CHARGES

No back charges or claim of the Owner for services shall be valid except by an agreement in writing by the Contractor before the work is executed, except in the case of the Contractor's failure to meet any requirement of the Contract. In such event, the Owner shall notify the Contractor of such default, in writing, and allow the Contractor reasonable time to correct any deficiency before incurring any cost chargeable to the Contractor.

• 7. WORK AREAS

Owner is to prepare all work areas so as to be acceptable for Contractor to perform its work under the Contract. Owner shall notify Contractor in advance when the site will be ready for Contractor to perform its work and shall provide Contractor with free and unobstructed access so that the work can be commenced promptly and completed without delay. Contractor will not be called upon to start work until sufficient areas are ready to insure continued work.

• 8. TIME FOR PERFORMANCE

Contractor shall be given a reasonable time in which to commence and complete the performance of the Contract. Contractor provides no assurances as to a complete date since the Work is subject to weather conditions, prior commitments, mechanical failures, and other cause beyond Contractor's control. Contractor shall not be responsible for delays or default where occasioned by any causes of any kind and extent beyond its control, including but not limited to: delay caused by Owner, architect and/or engineers, delays in transportation, shortages of raw materials, civil disorders, labor difficulties, vendor allocations, fires, floods, accident hazardous waste or controlled substances and acts of God. Contractor shall be entitled to equitable adjustment in the contract price for additional costs due to unanticipated project delays or accelerations. Contractor shall not be obligated to provide any labor or materials outside the scope of work unless Owner shall first agree in writing to equitably adjust the contract price to be paid Contractor.

• 9. WORKMANSHIP

All workmanship and materials are guaranteed against defects for a period of one (1) year from the date of substantial completion of installation. This warranty is in lieu of all other warranties, express or implied, including any warranties of merchantability or fitness for a particular purpose. The exclusive remedy shall be that Contractor will replace or repair any part of its work which is found to be defective. Contractor shall not be responsible for special, incidental or consequential damages. Contractor shall not be responsible for damage to its work by other parties or for improper use of equipment by other industry standard practices and will override strict compliance and strict performance. Contractor makes no warranty regarding drainage where the slope provided or allowable is less than two percent (2%). Contractor's warranty does not extend to or cover settlement or cracking of asphalt or pavement due to expansive soils, improperly compacted utility trenches, or for failures caused by the inadequate compaction of the subgrade. Contractor shall not be liable for damage to underground utilities which were improperly installed and/or backfilled.

• 10. WORK HOURS

Work called for herein is to be performed during Contractor's regular working hours as agreed to by the Owner and the Contractor.

• 11. NOTICE

Any notice or written claim required by the Contract to be submitted to the Owner, on account of charges, extras, delays, acceleration, or otherwise, shall be furnished within a time period, and in a manner to permit the Owner to satisfy the requirements of the Contract, notwithstanding any shorter time period otherwise provided.

• 12. LIEN RIGHTS

Nothing in this Contract shall serve to void Contractor's right to file a lien or claim on its behalf in the event that any payment to Contractor is not timely made.

• 13. LABOR

Contractor shall not be bound by any of Owner's labor agreements (in whole or in part).

• 14. LIQUIDATED DAMAGES

The Owner shall make no demand for liquidated damages for delays in any sum in excess of such amounts as may be specifically named in this Contract and no liquidated damages may be assessed against Contractor for more than the amount paid by the Owner for unexcused delays to the event actually caused by the Contractor.

- 15. **SCHEDULE**
Contractor shall submit a schedule to Owner, Owner will review and notify Contractor of any schedule conflict. If Contractor finds it necessary to change his schedule, Owner will give his best effort to meet this change in schedule. Contractor shall not be penalized for non-performance and will be paid for work performed.
- 16. **INSURANCE RESTRICTION**
Notwithstanding any provision to the contrary, Contractor shall maintain the types and limitations on insurance as shown on the attached certificate of insurance. Contractor is not required to waive any claims or rights of subrogation against the Owner or any others for losses and claims covered or paid by Owner's workers compensation or general liability insurance. Acceptance of the Certificate of Insurance constitutes acceptance of the insurance of Contractor, including any additional insured requirements. In addition, Contractor shall not provide completed operations under an additional insured requirement.
- 17. **INDEMNITY, HOLD HARMLESS**
To the fullest extent permitted by law, Contractor agrees to protect, defend, indemnify, and hold harmless Owner from and against all liability, loss, claims, demands, damages, suits, costs, fees, fines, penalties, expenses, and causes of action to the extent caused by Contractor or any of Contractor's employees, agents, representatives, subcontractors, or suppliers. Any indemnification or hold harmless obligation of the Contractor shall extend only to claims resulting to bodily injury and property damage and then only to that part or proportion of any claim damage, loss or defect that results from the negligence or intentional act of Contractor or someone for whom it is responsible. Nothing in this agreement shall require the Contractor to indemnify any other party from any damages including expenses and attorneys' fees to persons or property for any amount exceeding the degree Contractor directly caused such damages. Contractor shall not be responsible for fines or assessments made against Owner and Contractor. Contractor retains all rights of subrogation. Contractor will not indemnify anybody for any actions except for Contractor's own negligence and only in the proportional amount of its negligence.
- 18. **RIGHT TO RELY**
Contractor shall rely on plans, drawings, specifications and other information provided by Owner, Owner, Architect or representatives of each. Contractor assumes no risk for unknown or unforeseen conditions not evident from the plans, drawings, specifications or other information provided to Contractor.
- 19. **HAZARDOUS WASTE**
Contractor shall have no obligation to handle (that is, to remove, treat or transport) any substance which is considered hazardous waste or substance under state or federal law ("hazardous waste"). Handling hazardous waste shall be outside the scope of work of this Contract. Title to all hazardous waste shall remain with others and shall not be property of Contractor.
- 20. **SOILS**
Contractor shall have no liability to Owner or any third-party relating to underlying soil conditions. Contractor will not sacrifice the quality or integrity by placing asphalt pavement on base course or subgrade that is unstable or subgrade containing frost, including top lifts or overlays when temperatures do not meet material specifications. Contractor's warranty shall be waived and have no effect should Owner direct or authorize Contractor to pave on unstable subgrade or subgrade containing frost and Owner shall be responsible for any and all resulting damage or required repairs. If Owner requests that the top lift of asphalt be placed at a later date, the cost for all clean up and remobilization is the Owner's responsibility.
- 21. **ENGINEERING SERVICES**
If Contractor provides subcontracted construction stakes and/or subcontracted engineering services, Owner agrees to indemnify and defend Contractor from and against any and all claims, demands, damages, costs or expenses, including attorneys' fees, resulting from or related to these services, including drainage of water as to direction and amount, both during and after performance of the Work. If a soil sterilizer or herbicide is applied by Contractor, it is applied at the request of Owner in an effort to retard weed growth and Contractor makes no representation or guarantee that its use will have the intended effect. Owner shall indemnify, hold harmless, and defend Contractor from and against any and all damages, claims, costs or expenses, including attorneys' fees and costs, resulting from these services. Owner is advised to retain an independent licensed soils engineer for a study of the existing soils in order to recommend a specific pavement design. Contractor may modify the Proposal to include such recommendations.
- 22. **AMERICANS WITH DISABILITIES ACT**
Owner is solely responsible for maintaining the subject property in full compliance with the ADA and agrees to indemnify and hold Contractor harmless from and against any and all liability, claims, damages or expenses, including attorneys' fees, relating in any way to ADA requirements or issues. Contractor recommends that Owner obtain the services of a certified ADA consultant for site evaluations and recommendations as required by Federal and State law. If directed by the Owner to obtain compliance, Owner may make recommendations for such work and additional charges may apply.
- 23. **DISPUTE RESOLUTION**
Final determination of contract compliance and all dispute resolutions shall be handled in the jurisdiction and venue of Maricopa County, Arizona, and be governed by the laws of Arizona.

PROPERTY OF SUNLAND ASPHALT AND CONSTRUCTION, LLC

Sunland Asphalt & Construction, LLC 19P-ACE-0318 Mohave Contract Pricing									
DATE: 6/23/2022 ACCOUNT NAME: Mesa Unified School District SITE NAME: Las Sendas PROPOSAL #:				NOTICE: THIS PROPOSAL CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION OF SUNLAND ASPHALT & CONSTRUCTION, LLC AND SHALL NOT BE USED, DISCLOSED OR REPRODUCED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS PROPOSAL, WITHOUT THE PRIOR WRITTEN CONSENT OF AN OFFICER OF SUNLAND ASPHALT & CONSTRUCTION, LLC TITLE IN AND TO THIS DOCUMENT (OR FILE, IF ELECTRONICALLY SUBMITTED) AND ALL INFORMATION CONTAINED HEREIN REMAINS AT ALL TIMES IN SUNLAND ASPHALT & CONSTRUCTION, LLC					
Pricing Zone 1A ☒ Verified		Apply P&P Bond? Yes ☒ Verified							
SERVICE CATEGORY	WORK ITEM	NOTES	UNITS	QTY	PRICE	MOHAVE ZONE COEFFICIENT	EXTENDED PRICE	VERIFIED?	
Adjacent Ways	Mobilization Charge	All Lots	PER	1	\$ 65.203	1.000	\$ 65.20	Yes	
ASPHALT_SAWCUTTING	Charge per linear foot times thickness in inches		PER	900	\$ 0.389	1.000	\$ 349.79	Yes	
ASPHALT_PULVERIZING	Mobilization Charge		PER	1	\$ 1,543.161	1.000	\$ 1,543.16	Yes	
ASPHALT_PULVERIZING	Charge per square foot 0 - 50,000 square feet + mobilization charge		PER	34844	\$ 0.070	1.000	\$ 2,444.09	Yes	
DEMO_HAUL ASPHALT_DIRT_ETC	Mobilization Charge		PER	1	\$ 358.885	1.000	\$ 358.88	Yes	
DEMO_HAUL ASPHALT_DIRT_ETC	Charge per cubic yard of material (over 250 cubic yards)		PER	323	\$ 40.890	1.000	\$ 13,207.33	Yes	
CONSTRUCTION_SURVEY	Non-Registered Surveyor (2 men and equipment), per hour rate		PER	12	\$ 266.200	1.000	\$ 3,194.40	Yes	
FINE_GRADE_AREA	Mobilization Charge		PER	1	\$ 1,076.654	1.000	\$ 1,076.65	Yes	
FINE_GRADE_AREA	Charge per square yard		PER	3872	\$ 2.142	1.000	\$ 8,294.55	Yes	
ASPHALT_CONCRETE_OVERLAY	Mobilization Charge		PER	1	\$ 1,772.326	1.000	\$ 1,772.33	Yes	
ASPHALT_CONCRETE_OVERLAY	Charge per square foot 3 inch depth		PER	34844	\$ 2.399	1.000	\$ 83,588.87	Yes	
WATER_AND_SEWER_COVER_ADJUSTMENTS	Mobilization Charge		PER	1	\$ 350.274	1.000	\$ 350.27	Yes	
WATER_AND_SEWER_COVER_ADJUSTMENTS	Charge per each unit	Lower	PER	6	\$ 420.862	1.000	\$ 2,525.17	Yes	
WATER_AND_SEWER_COVER_ADJUSTMENTS	Charge per each unit	Raise	PER	6	\$ 420.862	1.000	\$ 2,525.17	Yes	\$ 121,295.88
STRIPING	Mobilization Charge		PER	1	\$ 210.431	1.000	\$ 210.43	Yes	
STRIPING	4" Misc. Hash - Out Striping (new layout)		PER	3500	\$ 0.398	1.000	\$ 1,394.46	Yes	
STRIPING	Arrows, charge per each		PER	16	\$ 13.381	1.000	\$ 214.09	Yes	
STRIPING	10 inch numbers/letters, charge per each		PER	100	\$ 1.654	1.000	\$ 165.40	Yes	
STRIPING	Curb (top and face), charge per linear foot		PER	1500	\$ 0.613	1.000	\$ 919.58	Yes	\$ 2,903.96
Adjacent Ways Contingency	Mobilization Charge		PER	1	\$ 3,857.904	1.000	\$ 3,857.90	Yes	
LIME_SOIL_STABILIZATION	Cement- Charge per square foot per 12 inch depth		PER	34844	\$ 0.686	1.000	\$ 23,897.74	Yes	
LIME_SOIL_STABILIZATION	Charge per cubic yard of material		PER	430	\$ 53.273	1.000	\$ 22,907.28	Yes	
DEMO_HAUL ASPHALT_DIRT_ETC	Charge per square yard		PER	3872	\$ 2.142	1.000	\$ 8,294.55	Yes	\$ 58,957.48
Standard Funding	Charge per linear foot times thickness in inches		PER	150	\$ 0.389	1.000	\$ 58.30	Yes	
ASPHALT_SAWCUTTING	Charge per square foot 0 - 50,000 square feet + mobilization charge		PER	18090	\$ 0.070	1.000	\$ 1,268.90	Yes	
ASPHALT_PULVERIZING	Charge per cubic yard of material		PER	168	\$ 53.273	1.000	\$ 8,949.82	Yes	
DEMO_HAUL ASPHALT_DIRT_ETC	Non-Registered Surveyor (2 men and equipment), per hour rate		PER	4	\$ 266.200	1.000	\$ 1,064.80	Yes	
CONSTRUCTION_SURVEY	Charge per square yard		PER	2010	\$ 2.142	1.000	\$ 4,305.80	Yes	
FINE_GRADE_AREA	Charge per square foot 3 inch depth		PER	18090	\$ 2.399	1.000	\$ 43,396.93	Yes	\$ 59,044.55
ASPHALT_CONCRETE_OVERLAY	4" line, charge per linear foot (new layout)		PER	1500	\$ 0.237	1.000	\$ 355.63	Yes	
STRIPING	Handicap stencils, charge per each		PER	4	\$ 42.688	1.000	\$ 170.75	Yes	
STRIPING	4" Misc. Hash - Out Striping (new layout)		PER	500	\$ 0.398	1.000	\$ 199.21	Yes	
STRIPING	10 inch numbers/letters, charge per each		PER	350	\$ 1.654	1.000	\$ 578.90	Yes	
STRIPING	Remove Existing Sign & Post	Adjust Signage to ADA Compliance	PER	4	\$ 173.144	1.000	\$ 692.58	Yes	
STRIPING	Handicapped Sign & Post - Single Sided		PER	4	\$ 325.242	1.000	\$ 1,300.97	Yes	\$ 3,298.03
Standard Funding Contingency	Cement- Charge per square foot per 12 inch depth		PER	18090	\$ 0.686	1.000	\$ 12,407.02	Yes	
LIME_SOIL_STABILIZATION	Charge per cubic yard of material		PER	234	\$ 53.273	1.000	\$ 12,465.82	Yes	
DEMO_HAUL ASPHALT_DIRT_ETC	Charge per square yard		PER	2010	\$ 2.142	1.000	\$ 4,305.80	Yes	\$ 29,178.64
FINE_GRADE_AREA	Barricade Mobilization Charge		PER	1	\$ 88.065	1.000	\$ 88.07	Yes	
ROADWAY_TRAFFIC_CONTROL_AND_BARRICADES	Type 1 & 2 Barricades		PER	1000	\$ 0.266	1.000	\$ 266.20	Yes	
ROADWAY_TRAFFIC_CONTROL_AND_BARRICADES	Barricade De-Mobilization Charge		PER	1	\$ 88.065	1.000	\$ 88.07	Yes	\$ 442.33
☒ Verified SUBTOTAL							\$ 275,120.87		
☒ Verified Payment & Performance Bond 1.3%							\$ 3,576.57		
☒ Verified TOTAL DUE							\$ 278,697.44		
☒ Verified Mohave Administration Fee (Included in Total - Paid by Sunland Asphalt) 0.99%							\$ 2,723.70		

Las Sendas ES

3120 N Red Mountain Mesa, AZ 85207

adjacent ways R&R @ 3"

non adjacent R&R @ 3"

Las Sendas Elementary School

3120 N Red Mountain



Sizes and locations of items indicated on map are approximate and are for informational purposes only. Please refer to the Project Proposal for exact sizes and locations.