

Cost Estimate
Buzzy's Ranch Wetland Enhancement Project

<i>Item #</i>	<i>Item</i>	<i>Estimated Cost</i>
Acquisition		Estimate
1	Water Rights Acquisition (694.36 AFA)	\$ 1,735,875.00
2	Water Rights Appraisal	\$ 15,000.00
3	Water Rights Application Processing Fees	\$5,000.00
SUB-TOTAL		\$ 1,755,875.00
Planning, Design		Estimate
4	Section 106 - Cultural Survey	\$ 15,000.00
SUB-TOTAL		\$ 15,000.00
Irrigation Repair		Estimate
5	Culvert #1 - 24", 40 ft and headwall installation	\$ 10,575.00
6	Culvert #2 - 24", 20 ft	\$ 2,500.00
7	Drainage Ditch - Dredging - 1,600 ft	\$ 24,801.00
8	10% Construction Contingency	\$ 3,787.00
SUB-TOTAL		\$ 41,663.00
Site Improvements		Estimate
9	Interpretive Signs (4)	\$ 4,000.00
10	Revegetation	\$ 10,000.00
11	Weed Abatement	\$ 5,000.00
SUB-TOTAL		\$ 19,000.00
GRAND TOTAL		\$ 1,831,538.00

Notes:

- 1-3 Estimate based on information from Vidler Water Company
- 4 Estimate based on recent project costs
- 5-8 Estimate provided by consultant
- 9-11 Estimate based on recent project costs

LATE MATERIAL

Cost Estimate

Carson River Trails System Phase III - Prison Hill West

<i>Item #</i>	<i>Item</i>	<i>Estimated Cost</i>
1	Section 106 - Cultural Survey	\$8,000
2	Planning, Engineering, Design, Construction Management	\$381,900
3	Public Works - Project Management	\$30,000
4	Construction	\$1,983,350
5	10% Construction Contingency	\$198,335
	TOTAL	\$2,601,585

Notes:

- 1 Estimate based on recent project costs
- 2 Estimate based on current Phase II costs
- 3 Estimate based on current Phase II charge
- 4 Engineer's Estimate (detail attached)

LATE MATERIAL

**CARSON CITY PARKS, RECREATION & OPEN SPACE
PRISON HILL TRAIL EXTENSION
PRELIMINARY ENGINEER'S COST ESTIMATE (Lumos & Associates)**

JN: 9751
DATE: 8/26/2020
BY: CLM

Koontz Lane Trailhead to OHV Entrance (13,200 LF)

Item No.	Item Description	Units	Estimated		Amount
			Quantity	Unit Price	
1	Mobilization	LS	1	\$ 180,000	\$ 180,000
2	Traffic Control	LS	1	\$ 5,000	\$ 5,000
3	Trail Type A (0-20% cross slope)	LF	11,900	\$ 75	\$ 892,500
4	Trail Type B (21-40% cross slope)	LF	1,300	\$ 200	\$ 260,000
5	Trailhead Parking and Access Road Grading	LS	1	\$ 10,000	\$ 10,000
6	6-inch Thick Type 2, Class B Aggregate Base ⁽¹⁾	SF	170,000	1.5	\$ 255,000
7	Rock Slope Protection (1 ft. thick) ⁽²⁾	SF	5,100	\$ 3.50	\$ 17,850
8	Rock Lined Ditch ⁽³⁾	LF	1,300	\$ 16	\$ 20,800
9	18-inch CMP Pipe ⁽⁴⁾	LF	360	\$ 70	\$ 25,200
10	18-inch CMP Flared End Section	EA	18	\$ 400	\$ 7,200
11	24-inch CMP Pipe ⁽⁴⁾	LF	200	\$ 100	\$ 20,000
12	24-inch CMP Flared End Section	EA	10	\$ 500	\$ 5,000
13	36-inch CMP Pipe ⁽⁴⁾	LF	120	\$ 180	\$ 21,600
14	36-inch CMP Flared End Section	EA	6	\$ 800	\$ 4,800
15	Road Sign ⁽⁵⁾	EA	4	\$ 600	\$ 2,400
16	Trail Sign ⁽⁶⁾	EA	4	\$ 500	\$ 2,000
17	Interpretive Sign	EA	4	\$ 1,000	\$ 4,000
18	Three Rail Split Rail Fence ⁽⁷⁾	LF	4,000	\$ 40	\$ 160,000
19	Rectangular Rapid Flashing Beacon and Crosswalk ⁽⁸⁾	LS	1	\$ 16,000	\$ 16,000
20	AC pavement for ADA parking spaces	LS	1	\$ 7,000	\$ 7,000
21	PCC sidewalk (ADA access to toilet and shade)	LS	1	\$ 10,000	\$ 10,000
22	CXT Single Vault Toilet and excavation	EA	1	\$ 30,000	\$ 30,000
23	Picnic Table and Shelter	EA	1	\$ 25,000	\$ 25,000
24	Animal Resistant Trash Container	EA	1	\$ 1,000	\$ 1,000
25	Pet Waste Bag Dispenser	EA	2	\$ 500	\$ 1,000
TOTAL					\$ 1,983,350

NOTES:

- 1 In trailhead parking areas and to improve a portion of gravel access road.
- 2 Includes culvert inlets and outlets but not trail slopes. RSP for trail slopes is included in trail unit cost.
Assumes an average of 150 SF at inlets and outlets.
- 3 To channel miscellaneous offsite drainage. Does not include RLD along trail. That is included in trail unit cost.
- 4 Assumes 40 LF of pipe per crossing.
- 5 Advance warning signs for RRFB and trail crossing at OHV access.
- 6 ADA parking and stop signs at road crossings.
- 7 At trailhead parking and to control vehicle access.
- 8 On Edmonds Drive at Koontz Lane.

SNPLMA Carson River Trail System Phase III -- Prison Hill West

LATE MATERIAL

Legend

- Existing trail
- Phase II (under const.)
- Phase III
- Future phase

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Freeway multi-use pathway, 2021

Begin Phase III trail and make improvements to Koontz Lane trailhead and access road.

Koontz Parcel

Location of crosswalk/RRFB

Prison Hill Recreation Area

Non-Motorized Use Area

Clearview Dr. trailhead

Silver Saddle Ranch

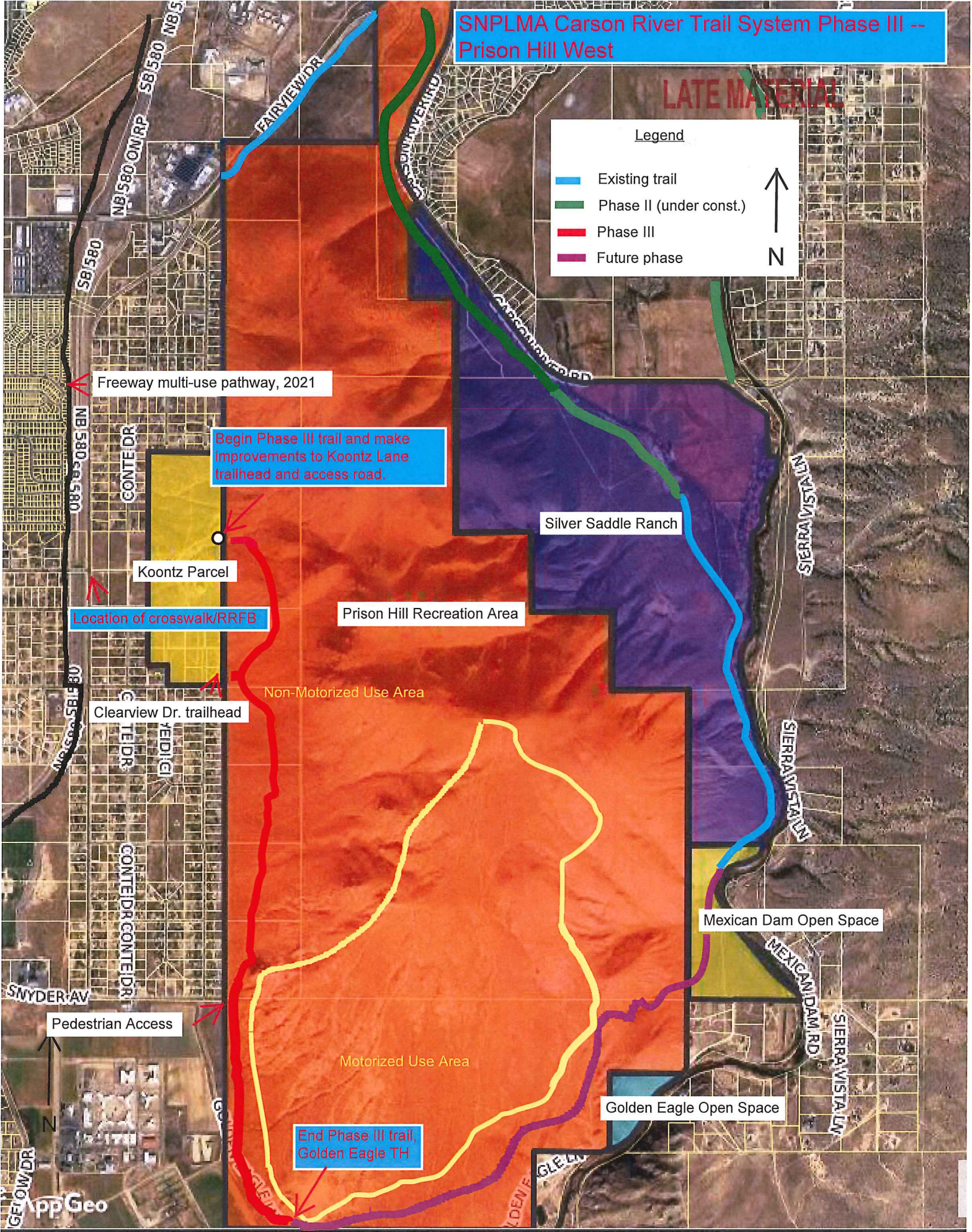
Mexican Dam Open Space

Pedestrian Access

Motorized Use Area

Golden Eagle Open Space

End Phase III trail, Golden Eagle TH



Koontz Lane Trailhead Detail Carson River Trail System Phase III - Prison Hill West

Koontz Lane Trailhead
Improvements will include:

- Enlarge parking area and apply road base,
- 20-30 vehicles, 2-3 horse trailers,
- Fix drainage,
- ADA parking,
- Vault toilet,
- Picnic table with shelter,
- Fencing.

New Multi-Use Trail
Continues south for 2.5 miles; will be a segment of planned Prison Hill Loop Trail.

Freeway Multi-Use Pathway planned for 2021 (Not a SNPLMA project).

Improve access road and fix drainage problems.

Crosswalk and RRFB to be installed here. Facilitates safe pedestrian/bicycle/equestrian connections with adjacent neighborhoods and the Freeway Multi-Use Pathway which will make connections to downtown Carson City.

1" = 517 ft

