

John Day Bike Park Concept Plan Report

February 2017



John Day Bike Park – Concept Plan Report
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Prepared For: Grant County Economic Council

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Funded By: John Day Chamber of Commerce

Overview

Bike parks are growing in popularity throughout the U.S. and are becoming an integral part of community parks both large and small. Providing a compact and stimulating cycling experience, these facilities appeal to children and adults alike.

With the addition of singletrack trails, the proposed John Day Bike Park at Canyon City Park will provide outdoor recreation opportunities for local residents who wish to hike, mountain bike, or trail run. With a collection of singletrack trails and a skills area, the site is designed to accommodate a range of skill levels and particularly help cyclists improve their expertise in a fun, risk-managed environment.

The site consists of two vacant parcels at the north end of the park, just north of the pathway. With a total area of approximately seven acres the site has gently sloping terrain with southern exposure and low, open vegetation.

This document provides additional details to support the attached John Day Bike Park – Concept Plan.

Singletrack Trails

There are several trails proposed for the bike park. These will vary in width from approximately 24" – 36". Alignment and construction should adhere to guidelines established by the International Mountain Bicycling Association (IMBA).

Easy Loop

Appx. length = 4,865 LF/0.92 mi.

Difficulty rating = green circle



Trad Traverse

Appx. length = 2,158 LF/0.41 mi.

Difficulty rating = blue square



Flow Descent – East

Appx. length = 996 LF/0.19 mi.

Difficulty rating = blue square

Flow Descent – West

Appx. length = 1,296 LF/0.25 mi.

Difficulty rating = blue square



Techy Traverse

Appx. length = 1,600 LF/0.30 mi.

Difficulty rating = black diamond



Skills Area

The skills area will contain several features to appeal to range of rider skill levels and especially children.

Novice Pump Track (dirt)



Beginner/Intermediate Pump Track (concrete)



Log Ride



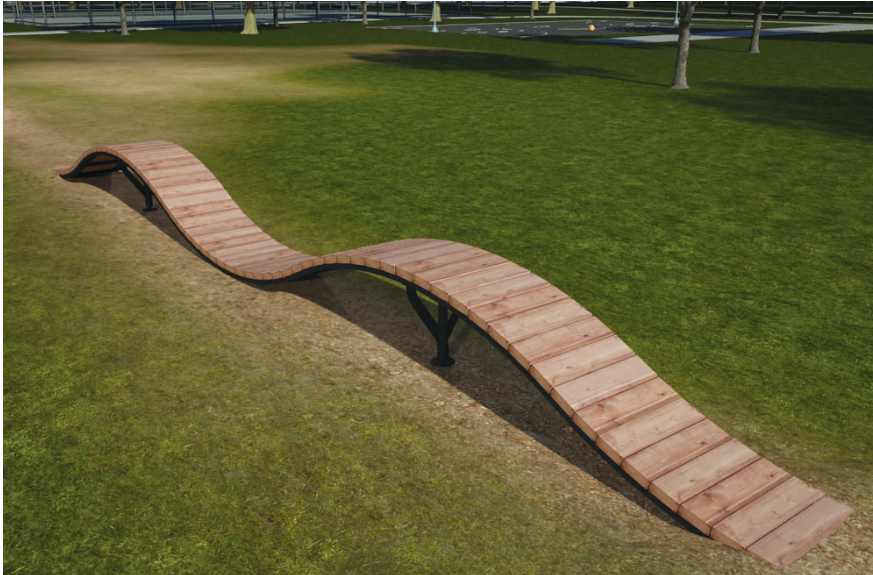
Log Over



Armoring



Double Roller



The Y



Snake Ladder



Zig Zag 90 Degree Turn



Trailhead Signs



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Cost Estimate and Phasing

The following costs are estimates based on current information for similar projects. Actual costs will likely vary depending on contractor availability, construction season, and availability of materials and equipment.

John Day Bike Park Development Costs									
February 2017									
Item	Quantity	Unit	Cost	Sum	Total	Match	Phase	Notes	
Trails					\$ 55,550	\$ -			
Construction staking	5.0	%	\$ 52,904	\$ 2,645			1		
Easy Loop	4,865	LF	\$ 4.00	\$ 19,459			1		
Flow Descent - West	1,296	LF	\$ 5.00	\$ 6,480			1		
Trad Traverse	2,158	LF	\$ 5.00	\$ 10,788			1		
Flow Descent - East	996	LF	\$ 5.00	\$ 4,980			1		
Techy Traverse	1,600	LF	\$ 7.00	\$ 11,197			2		
Skills Area					\$ 95,721	\$ 14,800			
Site preparation	1.0	LS	\$ 10,000	\$ 10,000		\$ 10,000	1	Grading and surfacing	
Double roller	1.0	EA	\$ 4,270	\$ 4,270			1	Shipping, materials, installation	
The Y	1.0	EA	\$ 5,370	\$ 5,370			1	Shipping, materials, installation	
Snake Ladder	1.0	EA	\$ 4,270	\$ 4,270			1	Shipping, materials, installation	
Zig Zag 90 Degree Turn	1.0	EA	\$ 4,821	\$ 4,821			1	Shipping, materials, installation	
Log Ride	1.0	EA	\$ 2,000	\$ 2,000		\$ 2,000	1		
Log Over	1.0	EA	\$ 2,000	\$ 2,000		\$ 2,000	1		
Log feature installation	1.0	LS	\$ 780	\$ 780			1		
Armoring	16.0	LF	\$ 30.00	\$ 480			1		
Novice Pump Track	1.0	EA	\$ 5,480	\$ 5,480		\$ 800	1	Match is donated soil	
Beg/Inter Pump Track	1.0	EA	\$ 56,250	\$ 56,250			2	Shipping, materials, installation	
Signs, Trailhead Amenities					\$ 12,500	\$ 2,500			
Shelter and picnic bench	1.0	LS	\$ 5,000	\$ 5,000		\$ 5,000	1	Materials plus installation	
Kiosk signs	2.0	EA	\$ 3,500	\$ 7,000		\$ 5,000	1	Materials plus installation	
Bike rack	1.0	LS	\$ 500	\$ 500		\$ 500	1	Materials plus installation	
Subtotal					\$ 163,771				
Match (donated mat'ls and labor)					\$ 17,300				
Total					\$ 146,471				

Phase 1 subtotal					\$ 96,323				
Phase 1 match					\$ 17,300				
Phase 1 total					\$ 79,023				
Phase 1 subtotal					\$ 67,447				
Phase 1 match					\$ -				
Phase 1 total					\$ 67,447				

Difficulty Rating System

IMBA Trail Difficulty Rating System					
	 EASIEST WHITE CIRCLE	 EASY GREEN CIRCLE	 MORE DIFFICULT BLUE SQUARE	 VERY DIFFICULT BLACK DIAMOND	 EXTREMELY DIFFICULT DBL. BLACK DIAMOND
TRAIL WIDTH	72" (1,800 mm) or more	36" (900 mm) or more	24" (600 mm) or more	12" (300 mm) or more	6" (150 mm) or more
TREAD SURFACE	Hardened or surfaced	Firm and stable	Mostly stable with some variability	Widely variable	Widely variable and unpredictable
AVERAGE TRAIL GRADE	Less than 5%	5% or less	10% or less	15% or less	20% or more
MAXIMUM TRAIL GRADE	Max 10%	Max 15%	Max 15% or greater	Max 15% or greater	Max 15% or greater
NATURAL OBSTACLES AND TECHNICAL TRAIL FEATURES (TTF)	None	Unavoidable obstacles 2" (50 mm) tall or less Avoidable obstacles may be present Unavoidable bridges 36" (900 mm) or wider	Unavoidable obstacles 8" (200 mm) tall or less Avoidable obstacles may be present Unavoidable bridges 24" (600 mm) or wider TTF's 24" (600 mm) high or less, width of deck is greater than 1/2 the height	Unavoidable obstacles 15" (380 mm) tall or less Avoidable obstacles may be present May include loose rocks Unavoidable bridges 24" (600 mm) or wider TTF's 48" (1,200 mm) high or less, width of deck is less than 1/2 the height Short sections may exceed criteria	Unavoidable obstacles 15" (380 mm) tall or less Avoidable obstacles may be present May include loose rocks Unavoidable bridges 24" (600 mm) or narrower TTF's 48" (1,200 mm) high or greater, width of deck is unpredictable Many sections may exceed criteria

Concept Plan

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