



BIG MINE PARK

Town of Crested Butte, CO



MUNDUS BISHOP



MARTIN / MARTIN
CONSULTING ENGINEERS

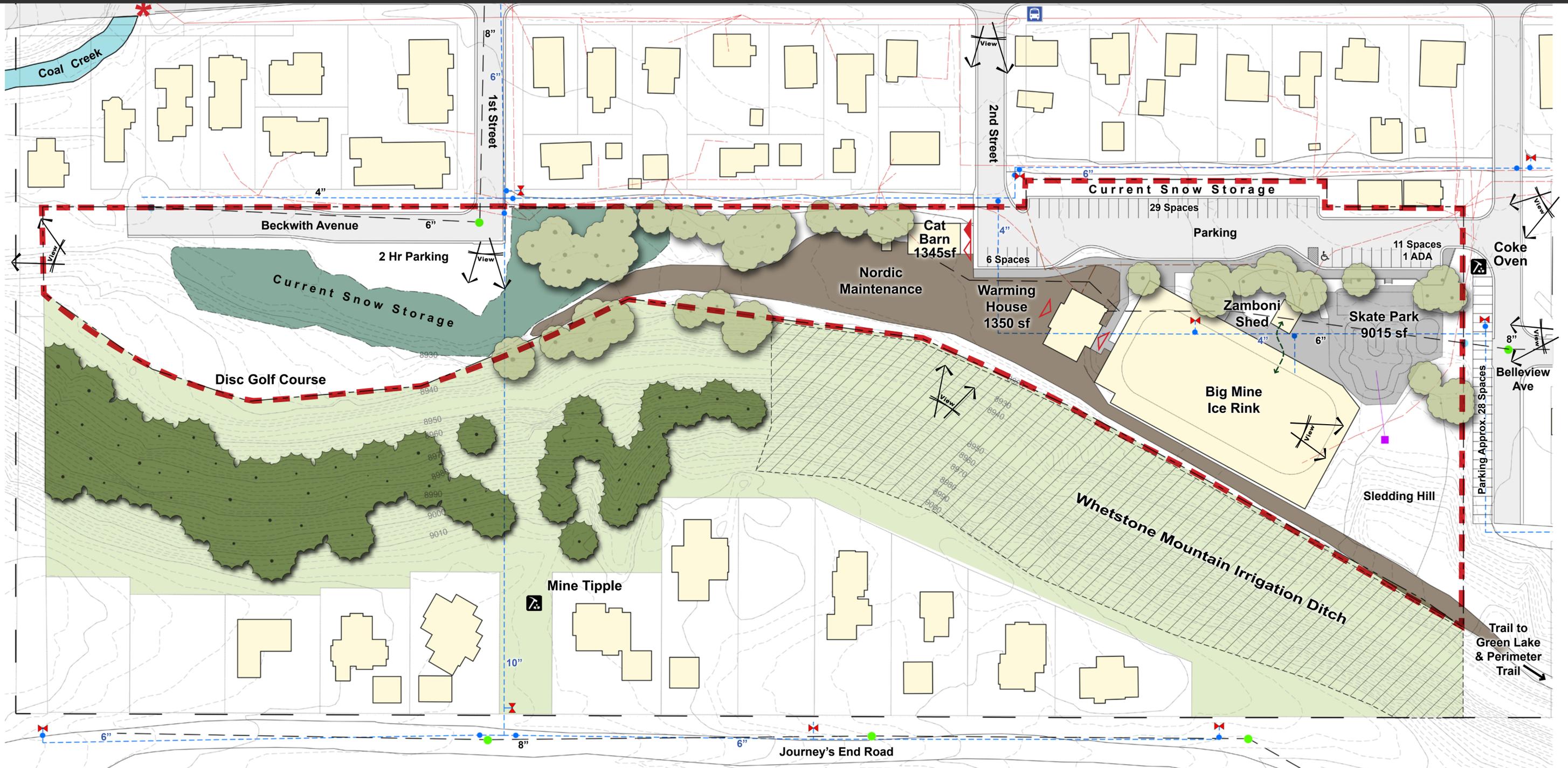
TEAM PAIN
SKATE PARKS

March 2015

BIG MINE PARK

Town of Crested Butte, CO

March 2015



Legend

- | | | | | | | |
|---------------------|-------------------------------|-------------------------|-------------------------------------|-----------------------------------|--------------------------|---------------------------------------|
| ● Water Valves | - - - Gas Line | ■ Buildings | ■ Open Space | ● Existing Evergreen Vegetation | ■ Historic Mine Remnants | ✱ High Speed Traffic Issue Identified |
| ✱ Hydrants | - - - Electrical Service Line | - - - Parcel Boundaries | ■ Gravel Surface Trail | ● Existing Deciduous Vegetation | ■ Bus Stop | → Zamboni Route |
| ● Manhole | - - - Water Lines | - - - Big Mine Park | ■ Concrete Walks/Drives | → Mt Express Bus Route | → Views | |
| ● Cleanout | - - - Sanitary Sewer Lines | - - - Town Boundary | ■ Wetland/Riparian Area | ▲ Door Entry | | |
| ■ Storm Sewer Drain | - - - Storm Sewer Line | - - - Topography | ■ Excessive Slope/ Avalanche Issues | ▲ Garage Entry | | |
| | | | | ■ 100 Year Coal Creek Flood Plain | | |



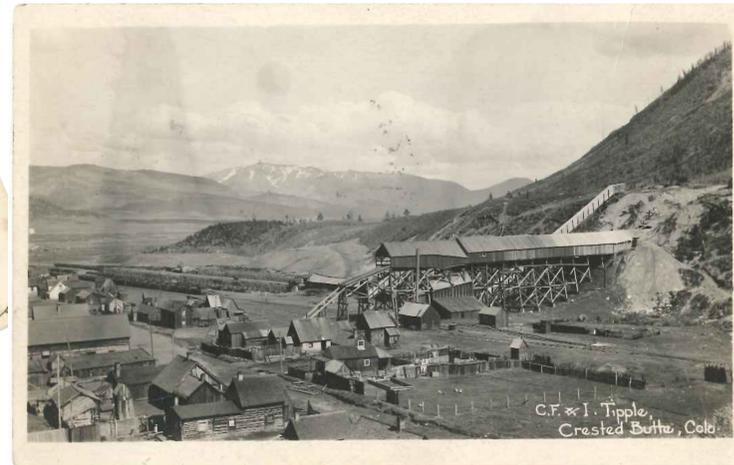
Existing Condition



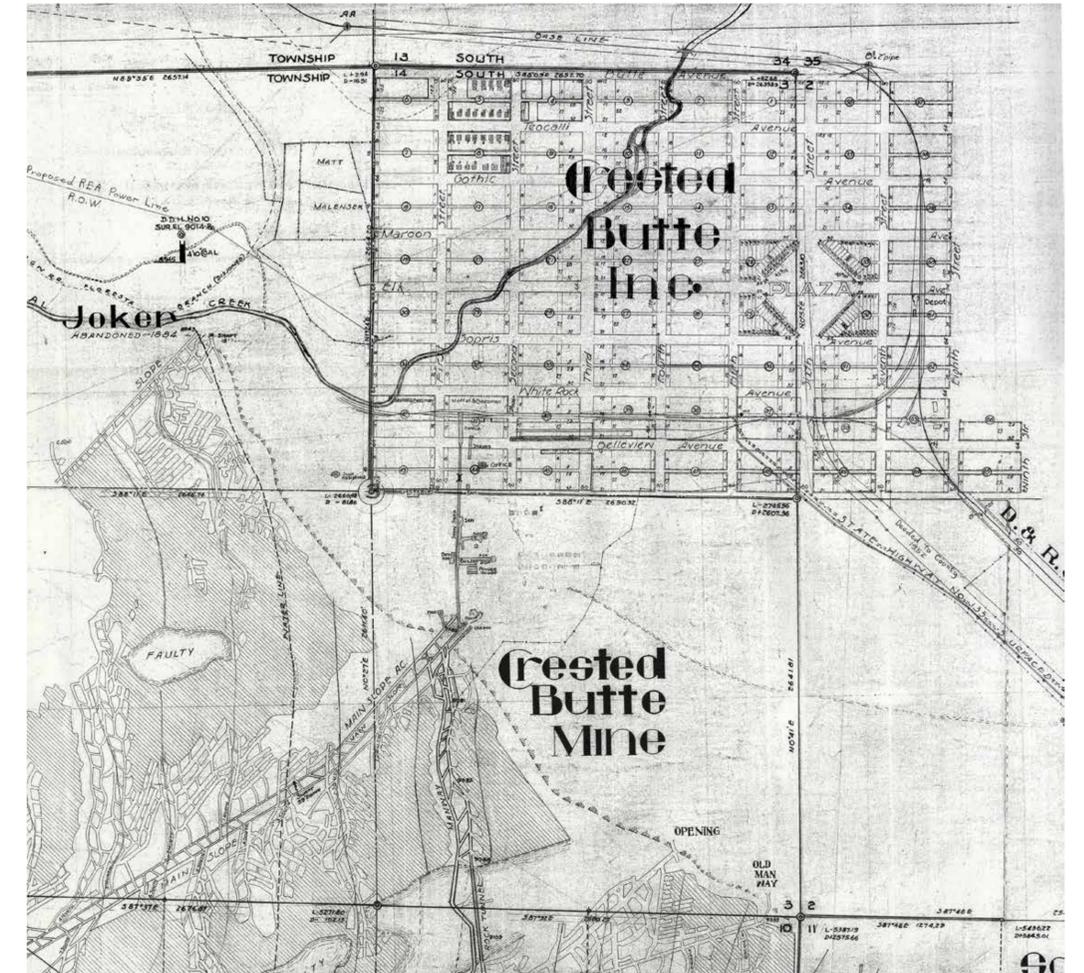
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Post card of Big Mine, circa 1910



Portion of C.F. & I. map of Crested Butte Mine - Upper Seam, circa 1952



Photo of coal tipple looking east

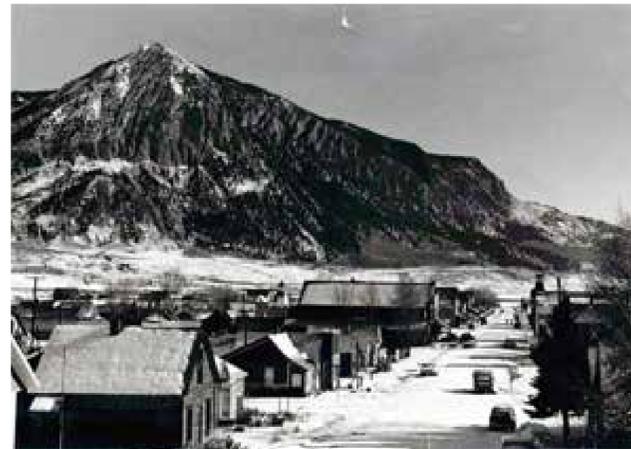


Photo looking east towards Mt. Crested Butte



Photo of mine looking southeast



Photo of coke oven looking east

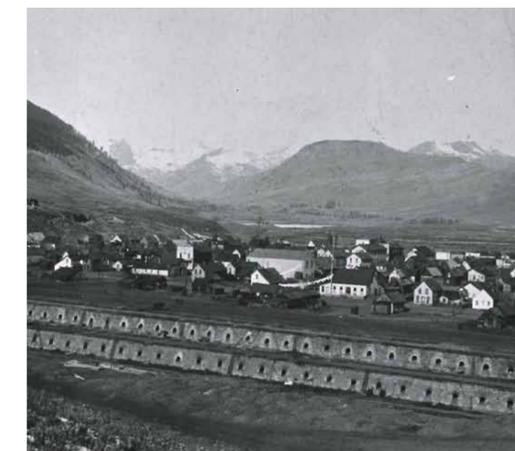


Photo of coke ovens looking west

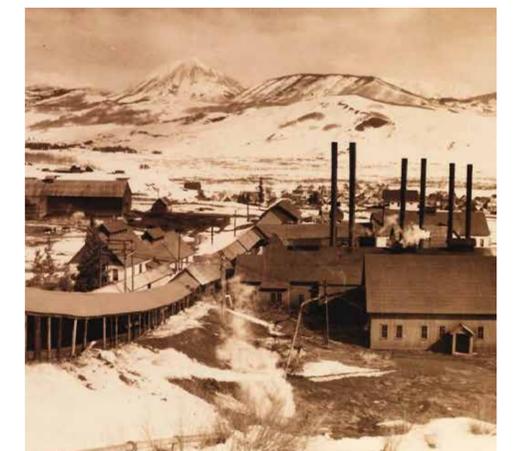


Photo of boilers, powerhouse, and tipple looking north



Mining Site History

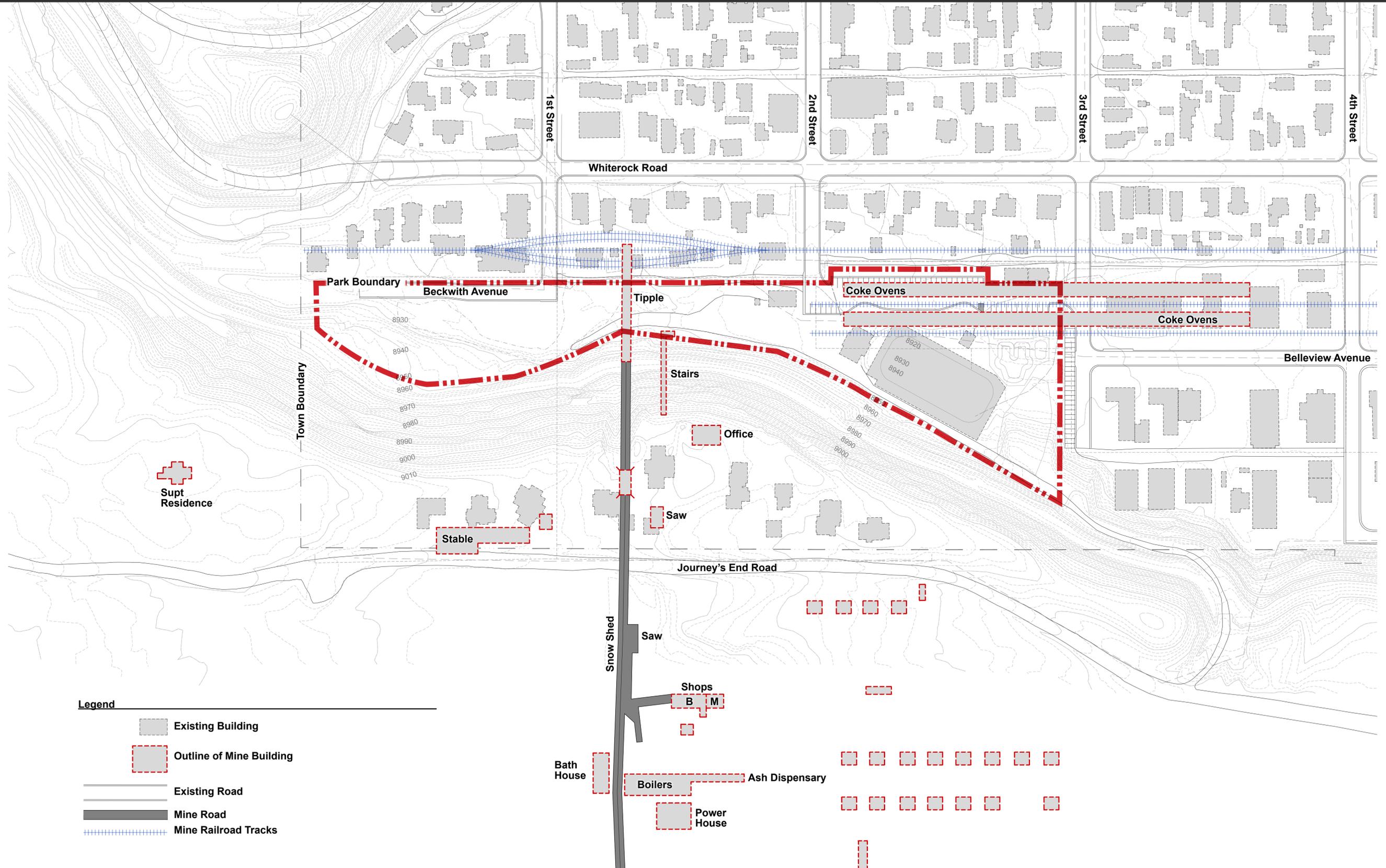
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Town of Crested Butte, CO

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Legend

-  Existing Building
-  Outline of Mine Building
-  Existing Road
-  Mine Road
-  Mine Railroad Tracks

Mining Site History



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Ice Rink			
Rink, Loop, Entrance, Maintenance. Refrig, Storage	19,329	SF	
Spectator Seating	200 to 250	seats	
Site	2,064	SF	
Hockey			
Changing, restrooms, entrance / gathering, concessions / food, meeting / office, ref room / utilities room	3,602	SF	
Site	144	SF	
Nordic			
Entrance, lounge, retail, ski rental / storage / wax room, changing, restrooms, multi-use, offices, meeting room, utility, maintenance / CAT	5,821	SF	
Site - Teaching area / outdoor gathering, 1K loop	59,278	SF	
Public Restrooms			
M / W	396	SF	
Sled Hill			
Staging Area, sled hill, walkway / stairs, run-out, warming house	14,200	SF	
Trailhead - Perimeter Trail and Green Lake Trail			
Trailhead, Perimeter & Green Lake Trails, bicycle parking	30,504	SF	
Park Space			
lawn - informal play / gathering	20,000	SF	
walkways / connections	23,400	SF	
wetlands	29,000	SF	
Skatepark			
vertical bowl - CB replica, skate plaza, street skating, loop, components	10,000	SF	
Disc Golf - 18-hole course			
holes range from 125/150' to 200/250', tee pads, targets	108,540	LF	
Climbing Wall / Ice Wall			
	1	EA	
Court Sports - if displaced from elsewhere			
volleyball, basketball, bocce or pickleball	7,128	SF	



Program Summary

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BIG MINE PARK

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Ice Rink

Ice Rink	Qty	Size		Unit	Total	Adjacency	Notes
Building / Structure				SF	19,329		
Rink	1	16,267		SF	16,267		rink interior
Loop	1	522		LF / SF	522		around the rink
Entrance	1	8'x10'	80	SF	80		
Spectator Seating (2 separate with heat)	2	16'X27'	432	SF	864	hockey	accommodate 250 seated; separate Home (+/- 180) from Visitors (+/- 70)
Team Benches (2 separate)	2	8'x30'	240	SF	480	hockey	
Maintenance Shed / Zamboni Shed	1	20'x25'	500	SF	500		
Refrig / Compressor / Utilities (elec)	1	20'x20'	400	SF	400		also requires outdoor space for the chiller (+/- 8'x8')
Storage	1	8'x12'	96	SF	96		
Mechanical	1	10'x12'	120	SF	120		for rink only
Sun Shade / Wind Screen	1	10'x105'	1050	SF	1050		northwest side - 10' heght
Site				SF	2064		
Entrance	1	12'x12'	144	SF	144		exterior at building entrance
Walkway	1	6'x320'	1920	SF	1920		around 1/2 of rink on exterior



Program Detail - Ice Rink

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BIG MINE PARK

Town of Crested Butte, CO

March 2015

Hockey

Hockey	QTY	Size	Unit	Total	Adjacency	Notes
Building			SF	3602		
Changing Rooms	6	10'x16'	SF	960	ice rink	4 team, 1 girls and 1 ref; benches, hooks, shelves, no lockers
Showers	4	6'x8'	SF	192	changing rooms	1 shower room per 2 team rooms, girls need their own shower, refs need their own shower
Restrooms	4	9'x15'	SF	540	changing rooms	1 per 2 changing rms if easily accessible; 2 wc, 1 lav, 1 filling
Public Restrooms	2	9'x24'	SF	432	stands / entrance	for year-round public use
Entrance Foyer	1		SF	400		
Concession Area	1	9'x10'	SF	90	entry / high traffic	snacks, soup, coffee, hot chocolate, tape
Multi-Purpose / Media	1	20'x25'	SF	500		common offices, team meetings, films, coaches' training, parties
Equipment Room	1	12'x12'	SF	144		
Referree Room	1	8'x12'	SF	96	ice rink	away from public; benches; separate; no restroom
Skate Rentals	1	8'x10'	SF	80	ice rink	include skate sharpening
Janitor Closet	1	6'x8'	SF	48	restrooms	mop sink & cleaning supplies
Mechanical / Equipment Room	1	10'x12'	SF	120	changing rooms	for building heating equipment; space configuration may require 2 - another is associated with ice rink
Site			SF	144		
Entrance	1	12'x12'	SF	144		exterior at building entrance



Program Detail - Hockey

MUNDUS BISHOP



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Nordic Center

Nordic	QTY	Size	Unit	Total	Adjacency	Notes
Building			SF	5,821		
Entrance	1		SF	450		
Lounge / Gathering (fireplace)	1	25'x25'	SF	625	Entrance	fireplace and comfortable seating
Retail - sales, food, beverages	1	10'x14'	SF	140	Rentals	
Ski Rental / Storage / Wax Room	1	30'x20'	SF	600	Entrance	includes 8'x8' wax room w exhaust/make-up air system
Concession Area	1	10'x10'	SF	100	Lounge	soup, baked goods, hot chocolate
Changing Rooms	2	12'x16'	SF	384	Entrance	M & W; accommodate 8-10/ea; lockers and benches
Restrooms	2	9'x22'	SF	396	Changing	W=3 wc, 2 lavs; M=1 wc, 2 urinals, 1-2 lavs
Multi-Use Space	1	25'x30'	SF	750	Lounge	training, work out, team gathering
Office Space (4 full-time staff)	6	8'x10'	SF	480		4 year-round; 2 coaches/mgr
Meeting Space (with doors) - could be used by community	1	12'x22'	SF	264	offices	seats 12-14; could be accessed separately from rest of the bldg.
Storage	1	10'x12'	SF	120	multi-use space	workout equipment and program storage
Elec / Mech Room	1	10'x12'	SF	120	Changing	for building heating equipment
Janitor Closet	1	6'x8'	SF	48	Restrooms	mop sink & cleaning supplies
Maintenance / Cat Storage	1	28'x48'	SF	1,344	trails	current size - grooming / maintenance / equipment storage
Site			SF	59,278		
Entrance	1	12'x12'	SF	144		exterior at building entrance
Teaching Area / Outdoor Gathering	1	60'x220'	SF	13,200		
1K loop	1	14'x3281	SF	45,934		6 foot wide x 1K (3281 LF or .62 miles)



Program Detail - Nordic Center

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Parks and Trails

Public Restrooms		QTY	Size		Unit	Total	Adjacency	Notes
Total					SF	396		
	Restrooms	2	9'x22'	198	SF	396		W=3 wc, 2 lavs; M=1 wc, 2 urinals, 1-2 lavs

Trailhead - Perimeter Trail and Green Lake Trail								
Total					SF	30,504		
	Gathering / Info at trailhead	1	12'x12'	144	SF	144		
	Perimeter Trail within park	1	20' x 1500'	30,000	SF	30,000		length of park
	Bicycle Parking	20	3'x6'	18	SF	360		72" long by 30" between bikes, 48" wide aisle, 24" clear from other uses

Park Space								
Total					SF	72,400		
	lawn - informal play / gathering			18,000	SF	20,000		level area at west & center court
	walkways / connections		1300' x 3 x 6'	23,400	SF	23,400		length of park x 3 x 6' width
	wetlands		na	29,000	SF	29,000		existing designated area

Disc Golf - 18-hole course								
Total					SF	108,540		
	holes range from 125/150' to 200/250'	1	3600x30'	3600	LF	108,000		PDGA disc golf course design guidelines: 3600 to 4300 LF ideal no water obstacles over 18" w/o path around
	tee pads (concrete or asphalt) - 5' X 12'	9	5'X12'	60	SF	540		for each level - gold, blue, white, red
	targets	6			EA	6		baskets or poles, PDGA approved
	Rules Sign		1		EA	1		
	Out of boundaries sign	4		4	EA	4		

Climbing Wall / Ice Wall								
			1		EA			
	wall		1		SF / HT			

Court Sports - if displaced from elsewhere								
Total					SF	7,128		
	volleyball	1	30'x60'	1800	SF	1,800		
	basketball court	1	42'x84'	3528	SF	3,528		high school size
	bocce or pickleball court	1	30'x60'	1800	SF	1,800		



Program Detail - Parks and Trails

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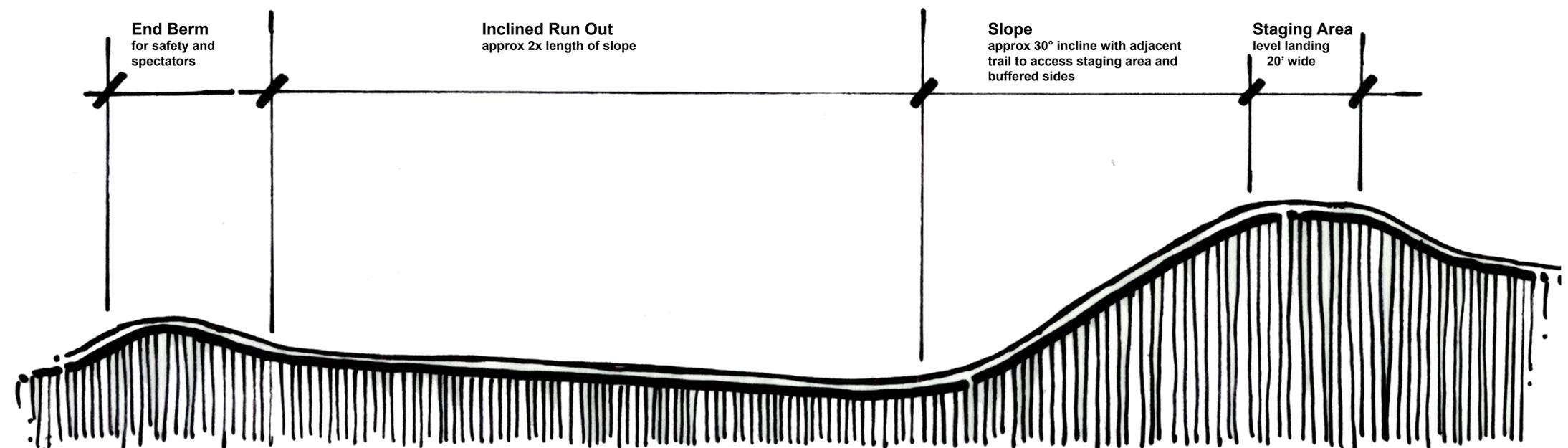
Town of Crested Butte, CO

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Sledding Hill

Sled Hill	QTY	Size	Unit	Total	Adjacency	Notes
Total			SF	14,200		hill design, supervision, preseason setup, inspection and signage
Staging Area (at top)	1	20x100	2,000	SF	2,000	Illinois Parks & Recreation guidelines
Sled Hill (max 30 degree angle);	1	90x60	5,400	SF	5,400	oriented north, channel sledders; source: CPSC playground guidelines for slides; no trees, fences rocks or other obstructions
Walkway / Stairs - to return to top, separate from hill	1		140/1,100	LF/SF	140/1,100	Illinois Parks & Recreation guidelines
Run-out - flat with slight incline		80x80	6,400	SF	6,400	Illinois Parks & Recreation guidelines
warming house	1	20'x20'	400	SF	400	
sled hill signs	4	12"x18"		ea	4	if unsupervised; post hours, danger - use at your own risk, users assume full responsibility for determining if conditions are safe for use; parents are responsible for children - no supervision is provided; sledding is a hazard and substantial risk; makeshift ramps or jumps prohibited

- STAGING AREA
- SLOPE
- RUN OUT
- BERM
- STAIRS
- SIGNAGE



Program Detail - Sledding Hill

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Skate Park 10,000 Square Foot Skate Experience

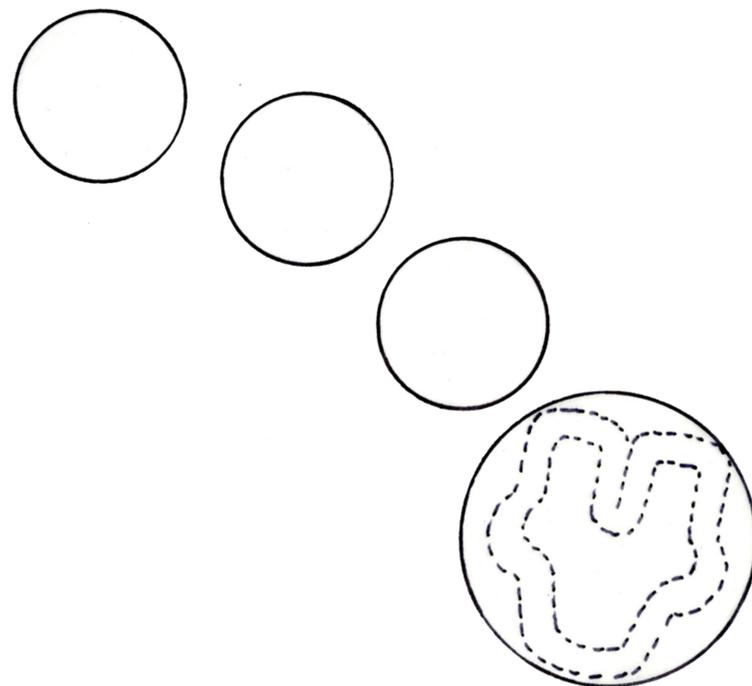
Skatepark							
	Total			SF	10,000		
vertical bowl - CB replica	1		5000	SF	5,000		
skate plaza / street skating	1		2500	SF	2,500		
loop	1			SF			
other components			2500	SF	2,500		

- Original Bowl
- Vert

- Street
- Age / Experience

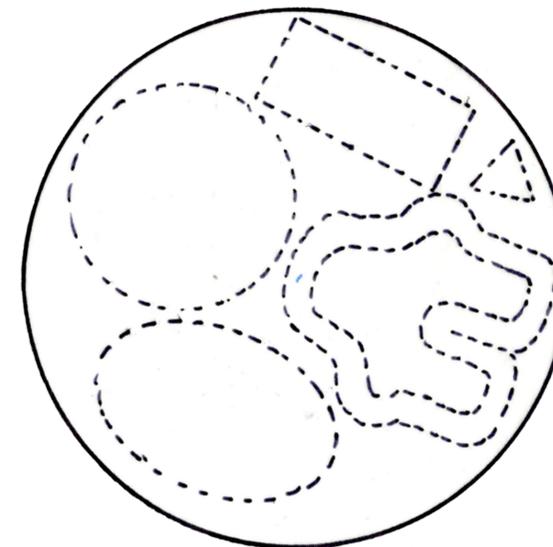
1. Multiple Skate Spots

- 1,500 to 3,000 SF each throughout town



2. Neighborhood Skate Park

- 10,000 SF skate experience



Program Detail - Skate Park

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Parking and Utilities

Parking	# Users	Per car	Turnover	Spaces
Peak (2 adult hockey teams - game)	60	2	2 hours	30
Peak - Hockey (5 pm with hockey practice)	60	2	2 hours	30
Peak (nordic weekends)		2		
Weekend (winter)		2	4 hour	
Daily (winter)		2	4 hour	
Weekend (summer)		2	4 hour	
Daily (summer)		2	4 hour	

Utilities	Qty	Unit	
Upgrade water line	650	LF	
New sanitary sewer for existing / new uses	650	LF	
New electrical for new uses	650	LF	
New mechanical and refrigeration for rink	200	LF	
New irrigation source and pump to connect to raw water	500	LF	
New irrigation system to irrigate park land	50,000	SF	(+/- 20% site)

Snow Storage			
along north alley	8300	SF	
along 3rd street at east edge	225	LF	(3,300 sf)
within west park space	9000	SF	



VISION:

Big Mine Park will be a premier regional park destination, offering year-round recreational facilities with activities and programming for all seasons. This engaging park destination will evoke the historic mining character of the Big Mine site, and meet the passive and active recreational needs of our growing, dynamic community. Big Mine Park is important to the community due to its historical significance, its location in an area not well represented with park space, and its unique mix of regional recreational amenities. The park design will merge the natural and historical qualities of the site with new and improved recreational experiences to enhance quality of life, improve economic vitality, and engage all.



GOALS:

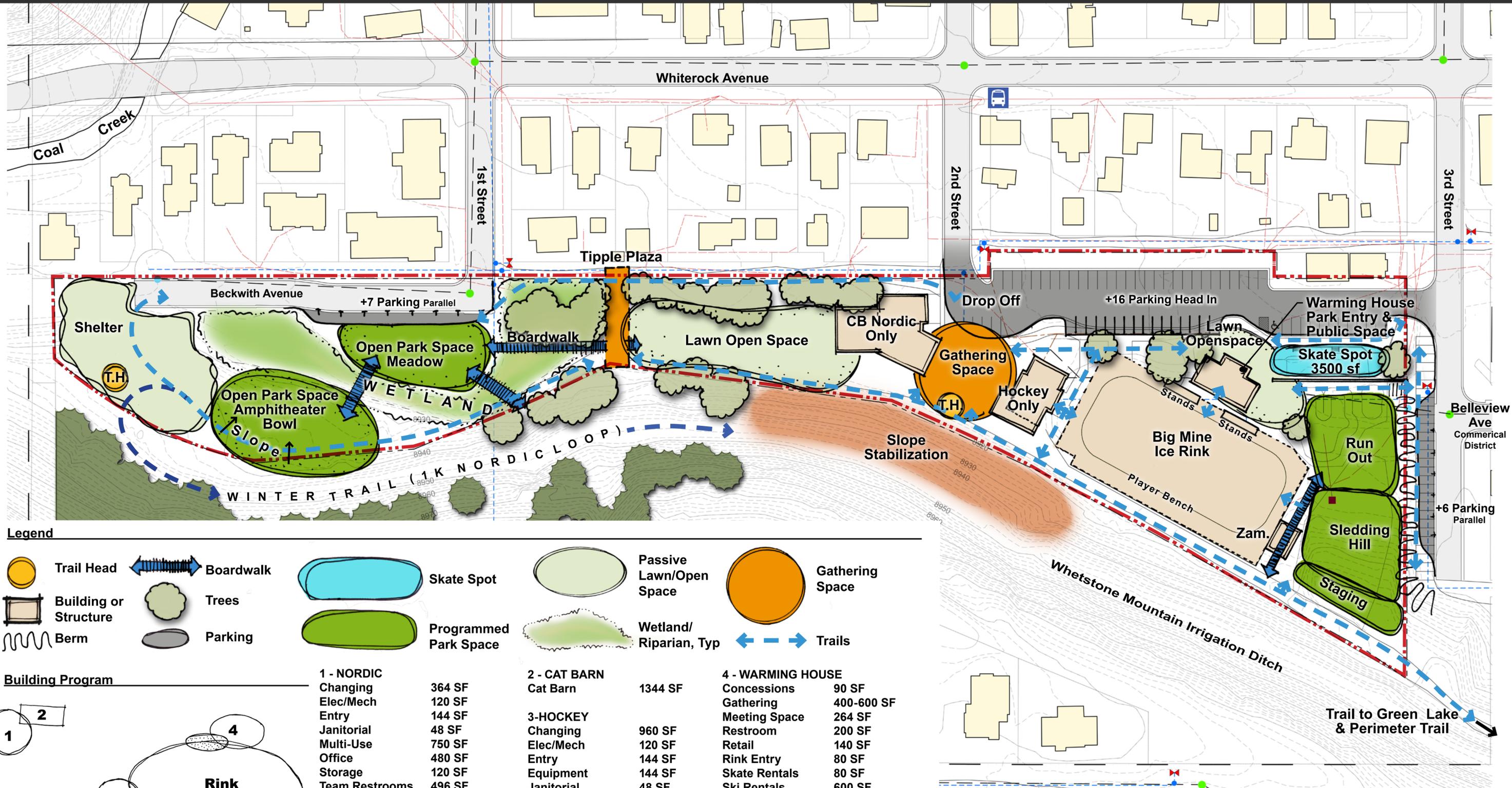
- 1. Create a year-round regional park that reflects the character, and active nature of the community. Create a park hub destination that offers a variety of passive and active recreational activities for all seasons to promote healthy lifestyles, and to accommodate youth, adults, families, and users of all abilities and ages.**
- 2. Educate the community and visitors on the coal mining history of the Town and the site by revealing in-situ historic resources and patterns, and interpreting non-extant historic features and connections to other historic mining sites.**
- 3. Connect Big Mine Park to the Town of Crested Butte, and the larger community with safe and engaging routes for pedestrians, hikers, bicyclists, families, Nordic skiers, bus riders, and vehicles.**
- 4. Engage park users in a safe environment that meets the recreational needs of youth, adults and the entire community, in facilities that meet or exceed risk management standards set forth by the parks and recreation industry, pertinent sports leagues, and known best practices.**
- 5. Upgrade and improve the site's infrastructure, and utilities to meet Big Mine Park's recreational and facility needs and demands. Create new additions and modifications to be compatible with the Town's historical mass and scale, and to build upon its rich historical character.**
- 6. Implement proposed improvements with on-going community input at key stages, in respect to fiscal realities, and in accordance with the prioritized implementation strategy of projects and phasing developed with public input.**
- 7. Engage partners and create new partnerships to sustain and implement the master plan vision.**
- 8. Ensure that all existing recreational amenities are accommodated either on-site, or within a complementary park or open space within the Town.**



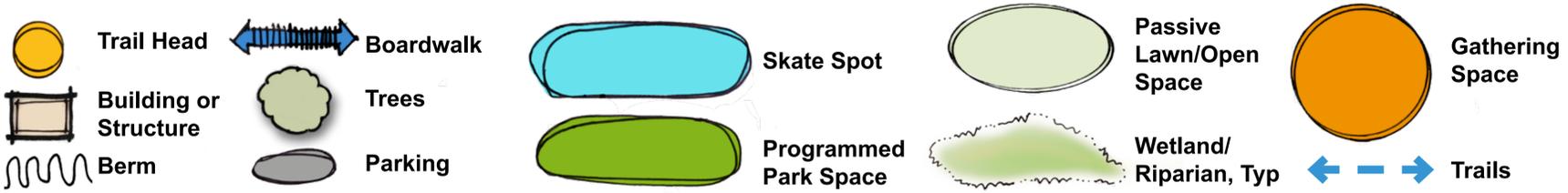
BIG MINE PARK

Town of Crested Butte, CO

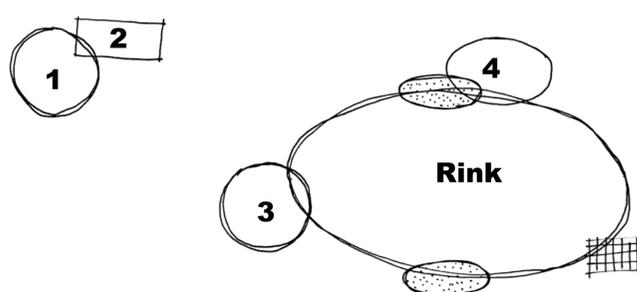
March 2015



Legend



Building Program



1 - NORDIC	2 - CAT BARN	3 - HOCKEY	4 - WARMING HOUSE
Changing	Cat Barn	Changing	Concessions
364 SF	1344 SF	960 SF	90 SF
Elec/Mech		Elec/Mech	Gathering
120 SF		120 SF	400-600 SF
Entry		Entry	Meeting Space
144 SF		144 SF	264 SF
Janitorial		Equipment	Restroom
48 SF		144 SF	200 SF
Multi-Use		Janitorial	Retail
750 SF		48 SF	140 SF
Office		Media/Multi-Use	Rink Entry
480 SF		500 SF	80 SF
Storage		Referee Room	Skate Rentals
120 SF		96 SF	80 SF
Team Restrooms		Team Restrooms	Ski Rentals
496 SF		540 SF	600 SF
Could Add Lounge		2550 +/- SF	2050 +/- SF
3000 +/- SF			



Concept A1

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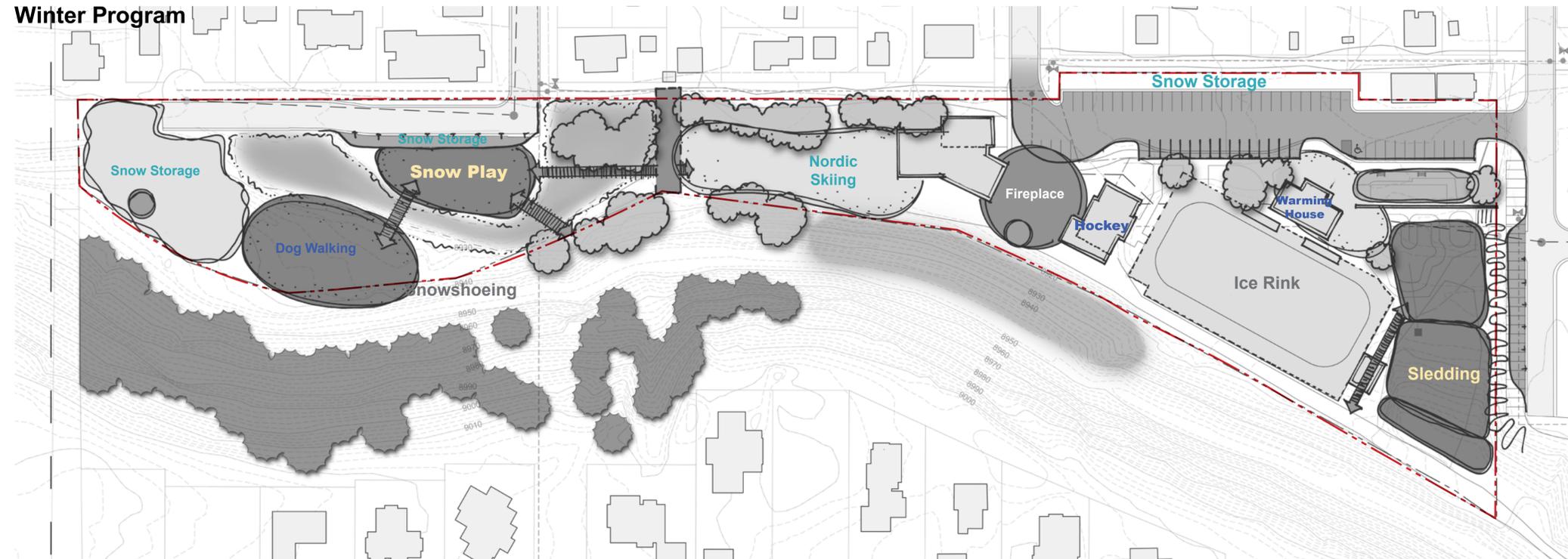


BIG MINE PARK

Town of Crested Butte, CO

March 2015

Winter Program



Pros and Cons

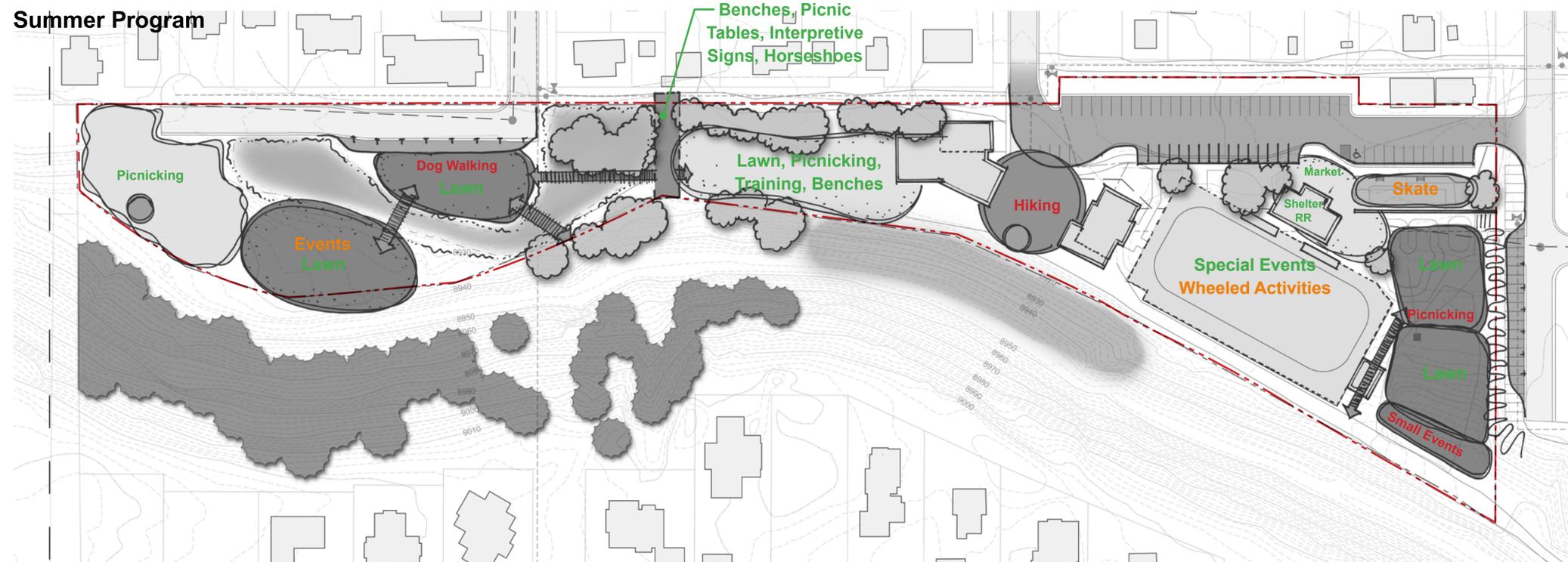
Pros:

- Great park entrance and greeting from 2nd Street
- Broad mix of seasonal uses
- Great relationship between buildings and adjacent structures
- Welcoming & accessible park space at west side
- Connectivity between east and west sides of the park
- Tipple Plaza provides gathering space and activates the park core
- Enhanced rink visitor experience

Cons:

- Sledding hill and skate park are somewhat limited in their potential

Summer Program



Program

Off Site Program:

- Approximately 6,500 sqft of skate park
- Disc golf course

Parking:

- Existing parking spaces: 47 (1 ADA);
- Proposed parking spaces: 70 (2 ADA);
- Net gain: 23 spaces (1 ADA)
- Existing bus parking: 2 spaces;
- Proposed bus parking: 0 spaces - Loss of on site bus parking
- Improved drop-off area



Concept A1 - Seasonal Overlay

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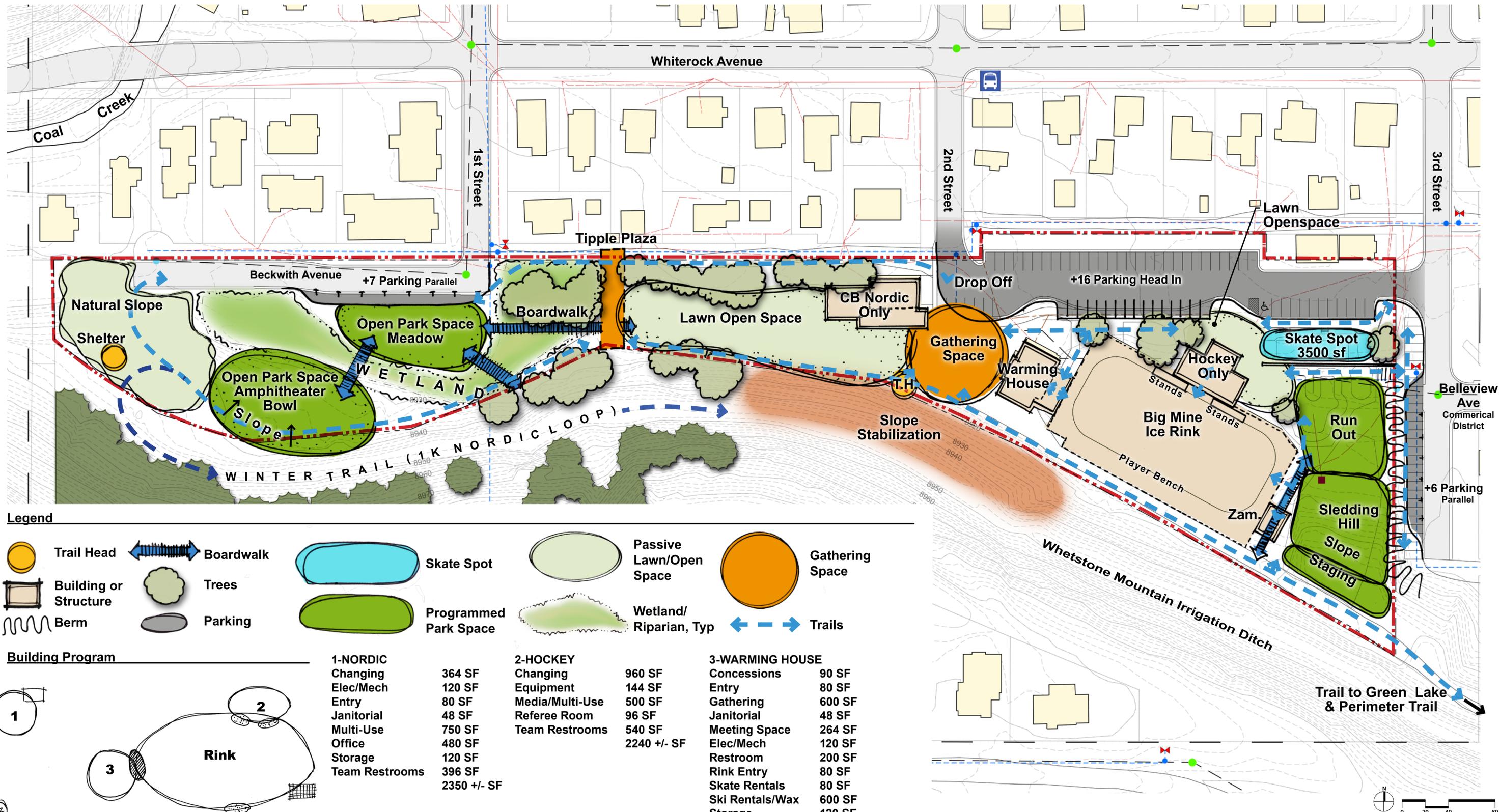
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TEAM PAJN
SKATE PARKS

BIG MINE PARK

Town of Crested Butte, CO

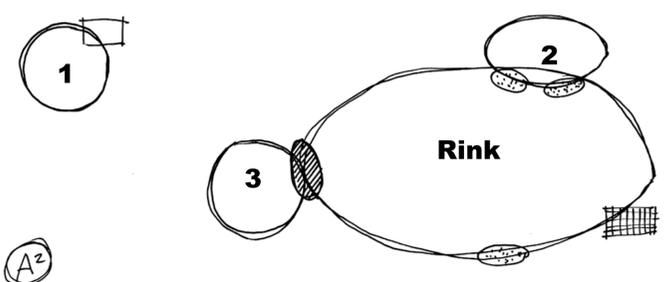
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Legend

- Trail Head
- Boardwalk
- Skate Spot
- Passive Lawn/Open Space
- Gathering Space
- Building or Structure
- Trees
- Programmed Park Space
- Wetland/ Riparian, Typ
- Trails
- Berm
- Parking

Building Program



1-NORDIC	2-HOCKEY	3-WARMING HOUSE
Changing	Changing	Concessions
364 SF	960 SF	90 SF
Elec/Mech	Equipment	Entry
120 SF	144 SF	80 SF
Entry	Media/Multi-Use	Gathering
80 SF	500 SF	600 SF
Janitorial	Referee Room	Janitorial
48 SF	96 SF	48 SF
Multi-Use	Team Restrooms	Meeting Space
750 SF	540 SF	264 SF
Office		Elec/Mech
480 SF		120 SF
Storage		Restroom
120 SF		200 SF
Team Restrooms		Rink Entry
396 SF		80 SF
2350 +/- SF		Skate Rentals
		80 SF
		Ski Rentals/Wax
		600 SF
		Storage
		120 SF
		2280 +/- SF



Concept A2

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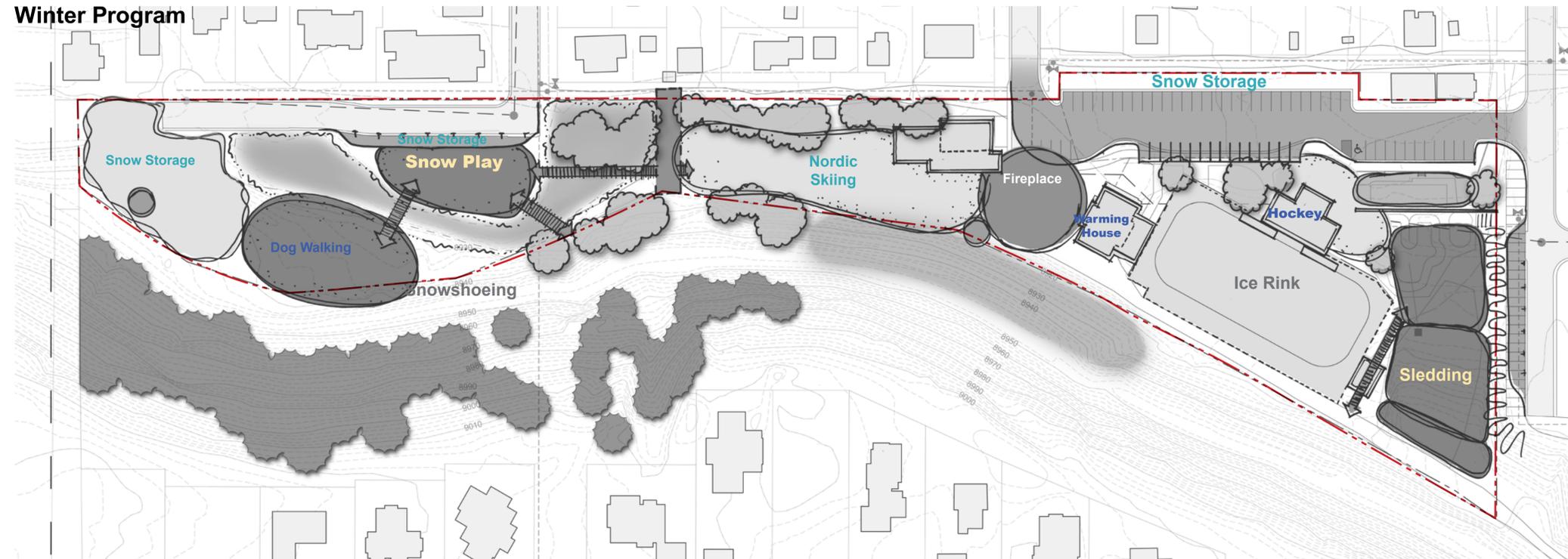


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Winter Program



Pros and Cons

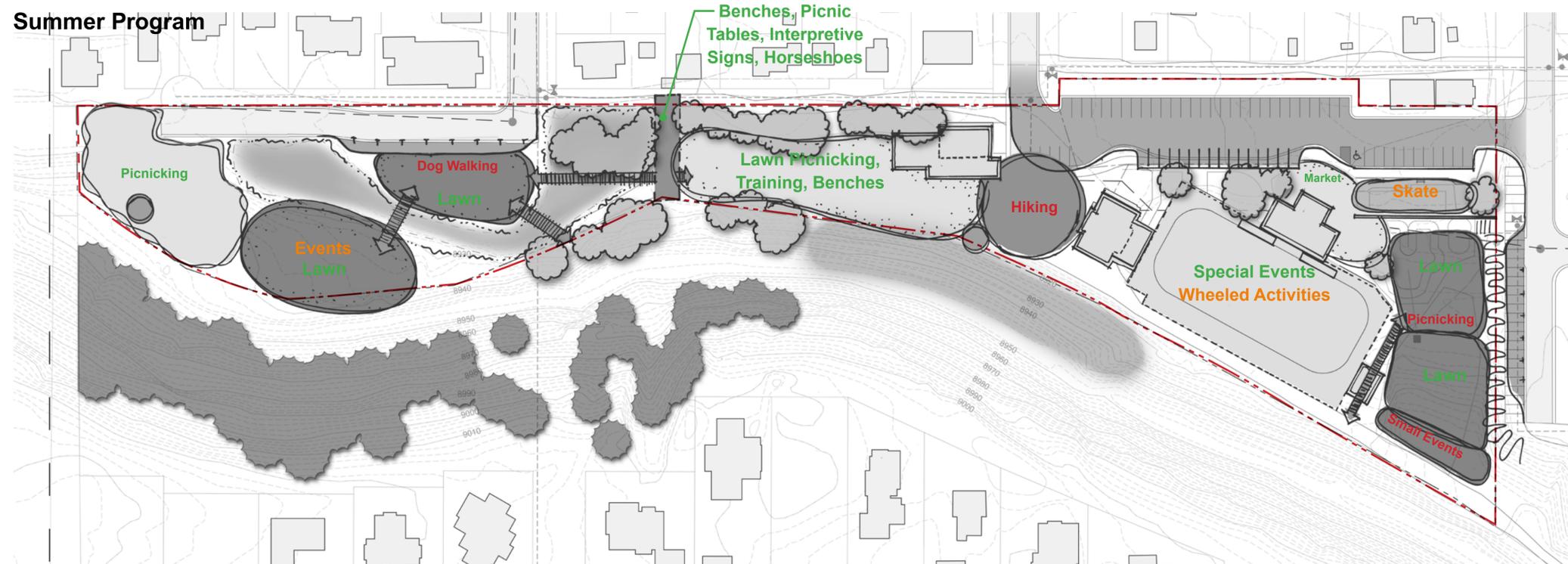
Pros:

- Great park entrance and greeting from 2nd Street
- Broad mix of seasonal uses
- Great relationship between buildings and adjacent structures
- Welcoming & accessible park space at west side
- Connectivity between east and west sides of the park
- Tipple Plaza provides gathering space and activates the park core
- Enhanced rink visitor experience
- Open connection to center lawn from 2nd st. gathering space.

Cons:

- Sledding hill and skate park are somewhat limited in their potential

Summer Program



Program

Off Site Program:

- Approximately 6,500 sqft of skate park
- Disc golf course

Parking:

- Existing parking spaces: 47 (1 ADA);
- Proposed parking spaces: 70 (2 ADA);
- Net gain: 23 spaces (1 ADA)
- Existing bus parking: 2 spaces;
- Proposed bus parking: 0 spaces - Loss of on site bus parking
- Improved drop-off area



Concept A2 - Seasonal Overlay

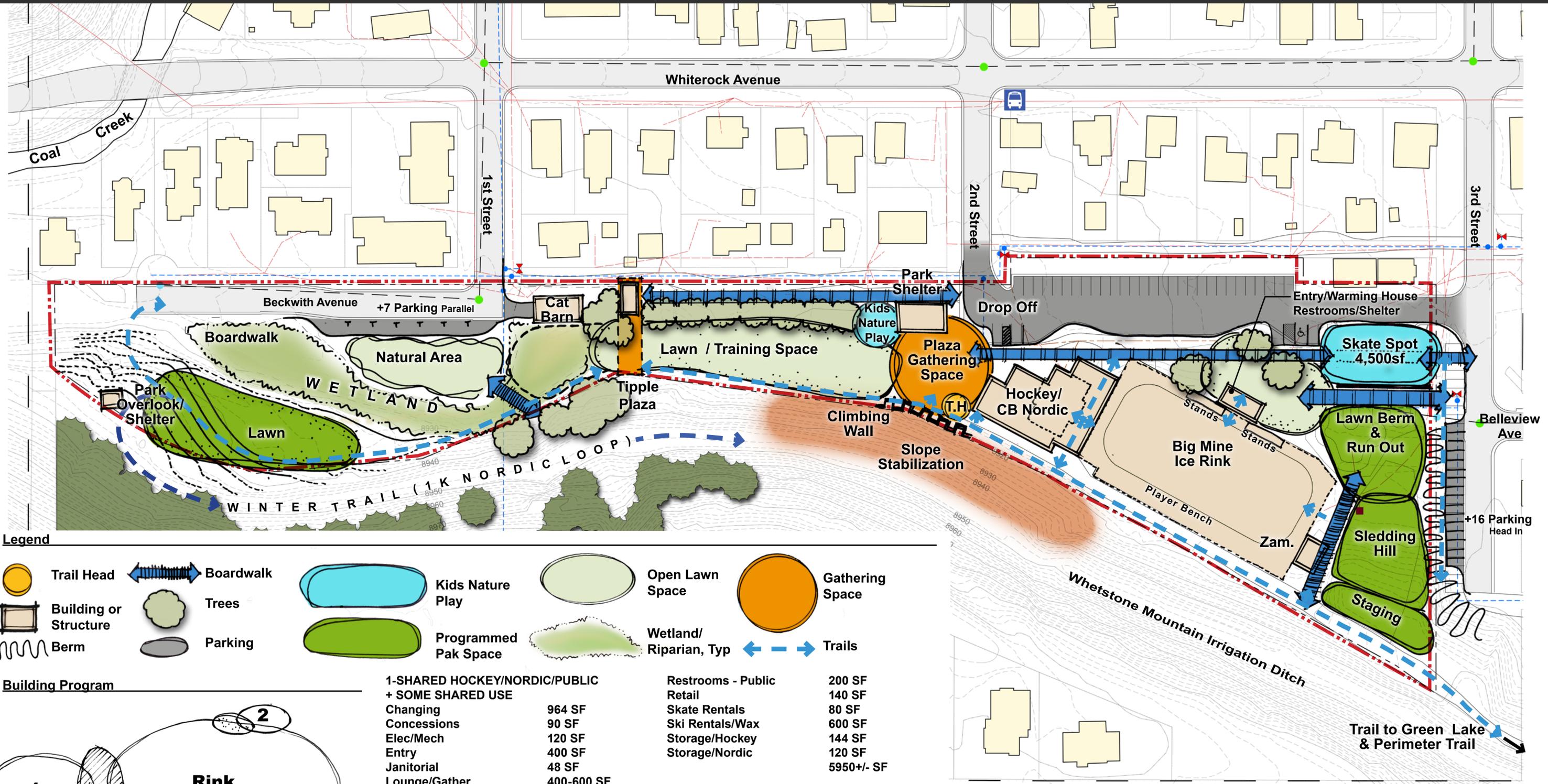
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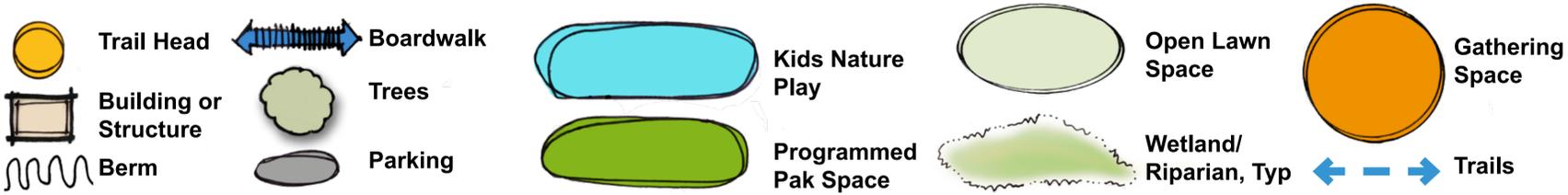
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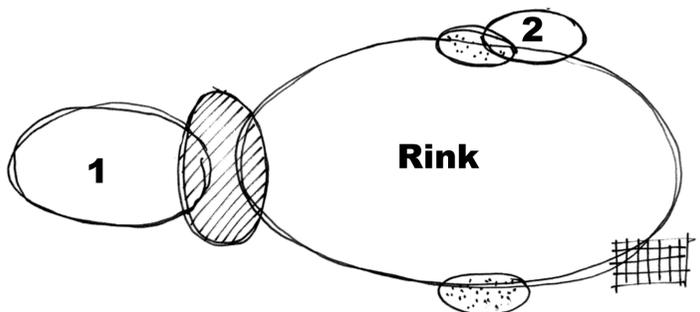
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Legend



Building Program



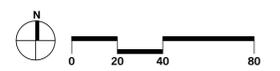
1-SHARED HOCKEY/NORDIC/PUBLIC + SOME SHARED USE

Changing	964 SF
Concessions	90 SF
Elec/Mech	120 SF
Entry	400 SF
Janitorial	48 SF
Lounge/Gather	400-600 SF
Media/Multi-Use	500 SF
Meeting Space	264 SF
Multi-Use/Nordic	750 SF
Office/Nordic	480 SF
Referee Room	96 SF
Restrooms - No Public Use	540 SF

Restrooms - Public	200 SF
Retail	140 SF
Skate Rentals	80 SF
Ski Rentals/Wax	600 SF
Storage/Hockey	144 SF
Storage/Nordic	120 SF
Total	5950+/- SF

2-RINK ENTRY/PARK SHELTER

Restrooms - Public	200 SF
Entry	80 SF
Shelter	500 SF
Total	780 +/- SF



Concept B

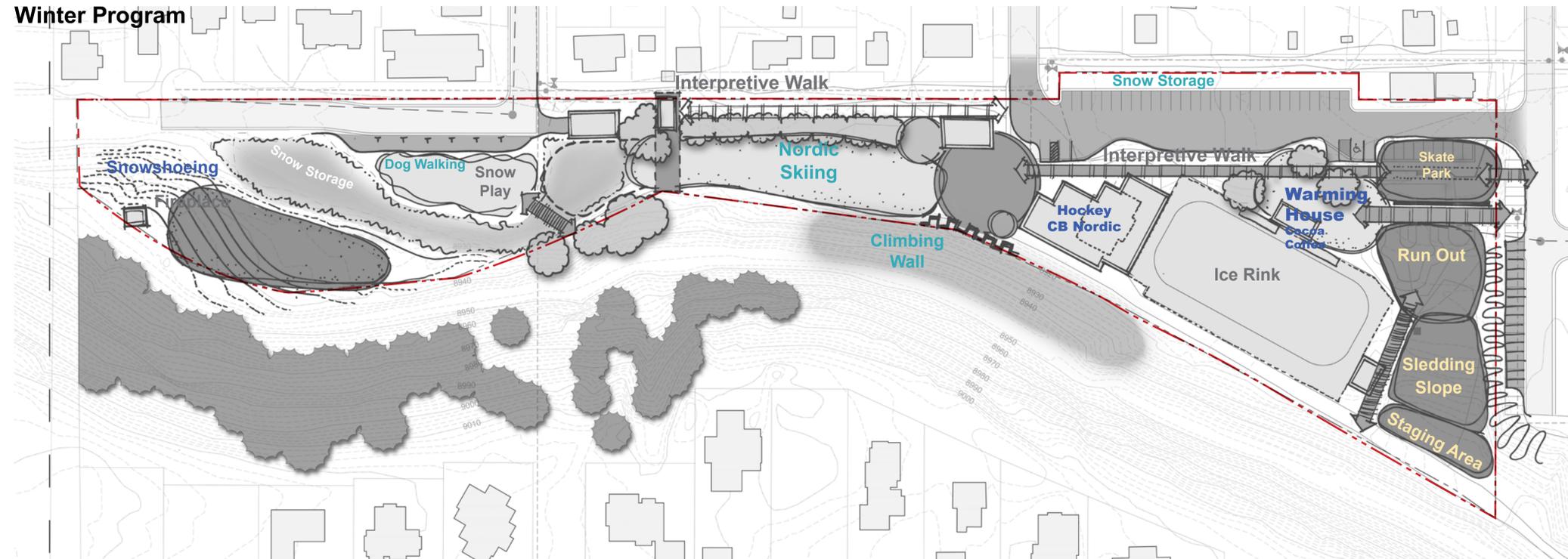


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Winter Program



Pros and Cons

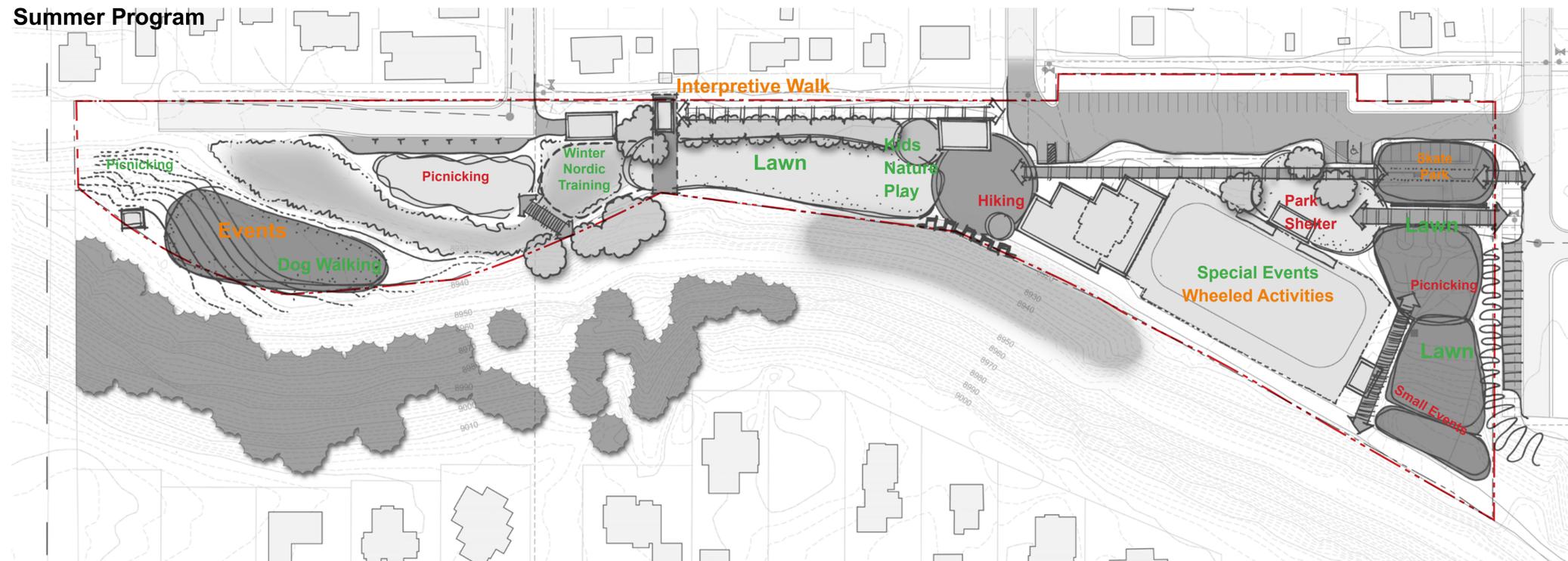
Pros:

- Building focal point provides park entrance and greeting from 2nd street
- Converted cat barn functions as premier, multi-season, park shelter
- Premier maintained and natural green space
- Opportunity for small adjacent program use such as a kids nature play environment
- Functional natural open space and opportunity for exploration and views at west side
- Maximized potential for historical / interpretative walk and memorial which provides primary connectivity through park
- Warming house oriented to entice sledders of all ages and welcome users to the park from Belleview and 3rd street
- Sloped area at east end provides a wonderful grass bowl for gathering and small events
- Maximized parking for park use with head in parking along 3rd street
- Enhanced rink visitor experience

Cons:

- Building mass & scale are consolidated
- Skate park and sledding hill are limited
- Limited bus drop off

Summer Program



Program

Off Site Program:

- Approximately 5,500 sqft of Skate park
- Disc golf course

Parking:

- Existing parking spaces: 47 (1 ADA);
- Proposed parking spaces: 50 (2 ADA);
- Net gain: 3 spaces (2 ADA)
- Existing bus parking: 2 spaces;
- Proposed bus parking: 2 spaces - no change
- Improved drop-off area



Concept B - Seasonal Overlay

MUNDUS BISHOP



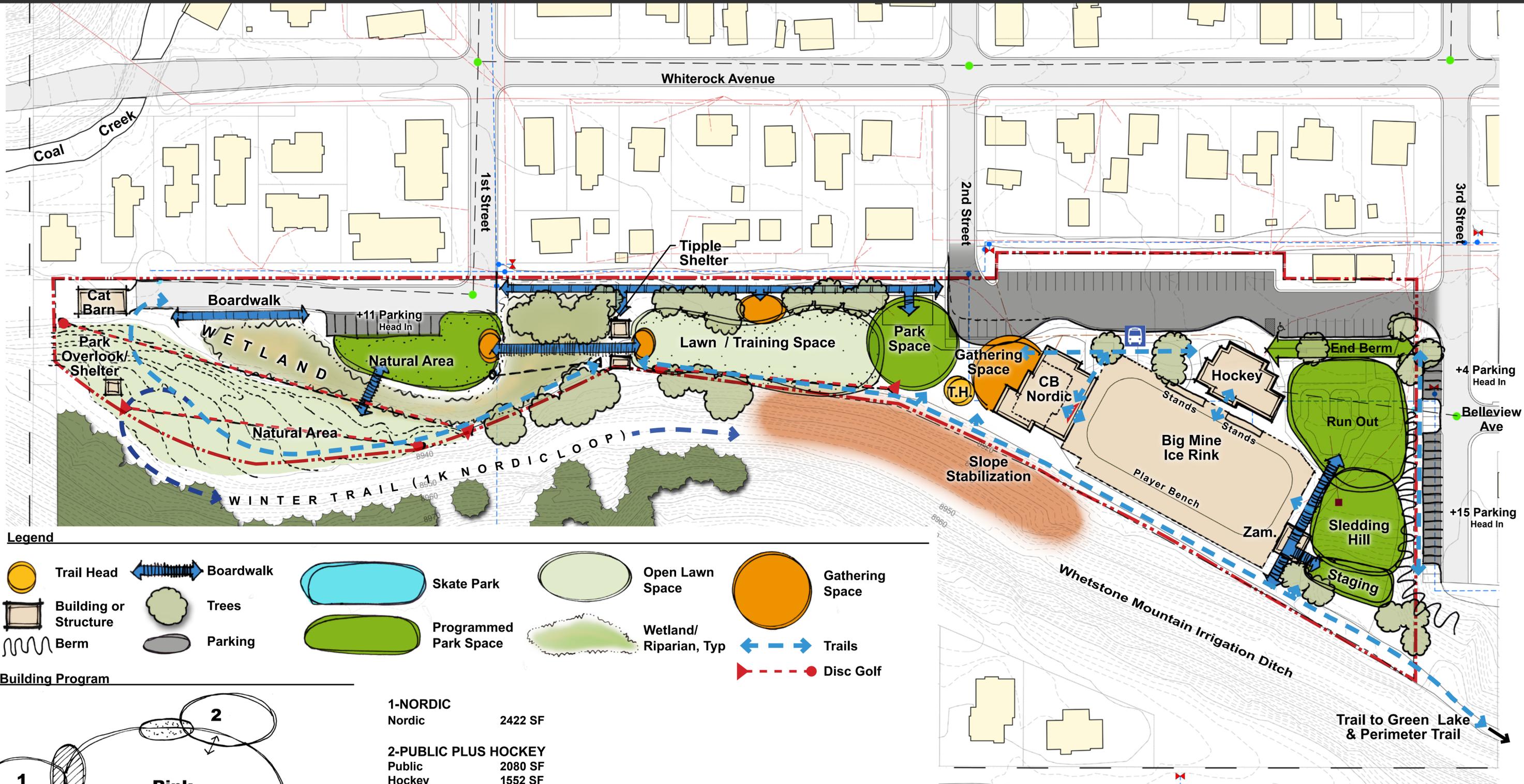
MARTIN / MARTIN
CONSULTING ENGINEERS

TEAM PAJN
SKATE PARKS

BIG MINE PARK

Town of Crested Butte, CO

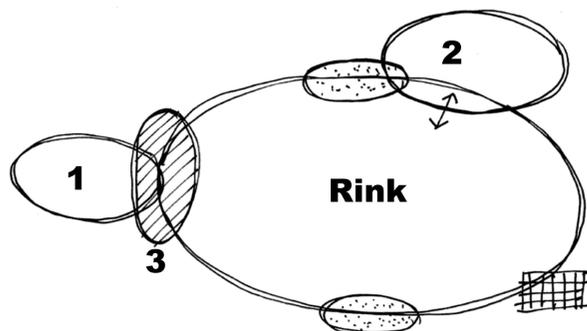
March 2015



Legend

- Trail Head
- Boardwalk
- Skate Park
- Open Lawn Space
- Gathering Space
- Building or Structure
- Trees
- Programmed Park Space
- Wetland/Riparian, Typ
- Trails
- Disc Golf
- Berm
- Parking

Building Program



1-NORDIC
Nordic 2422 SF

2-PUBLIC PLUS HOCKEY
Public 2080 SF
Hockey 1552 SF
3632 SF

3-LOCKER ROOMS/RESTROOMS
Locker Rooms/Restrooms 1500 SF



Concept C

MUNDUS BISHOP

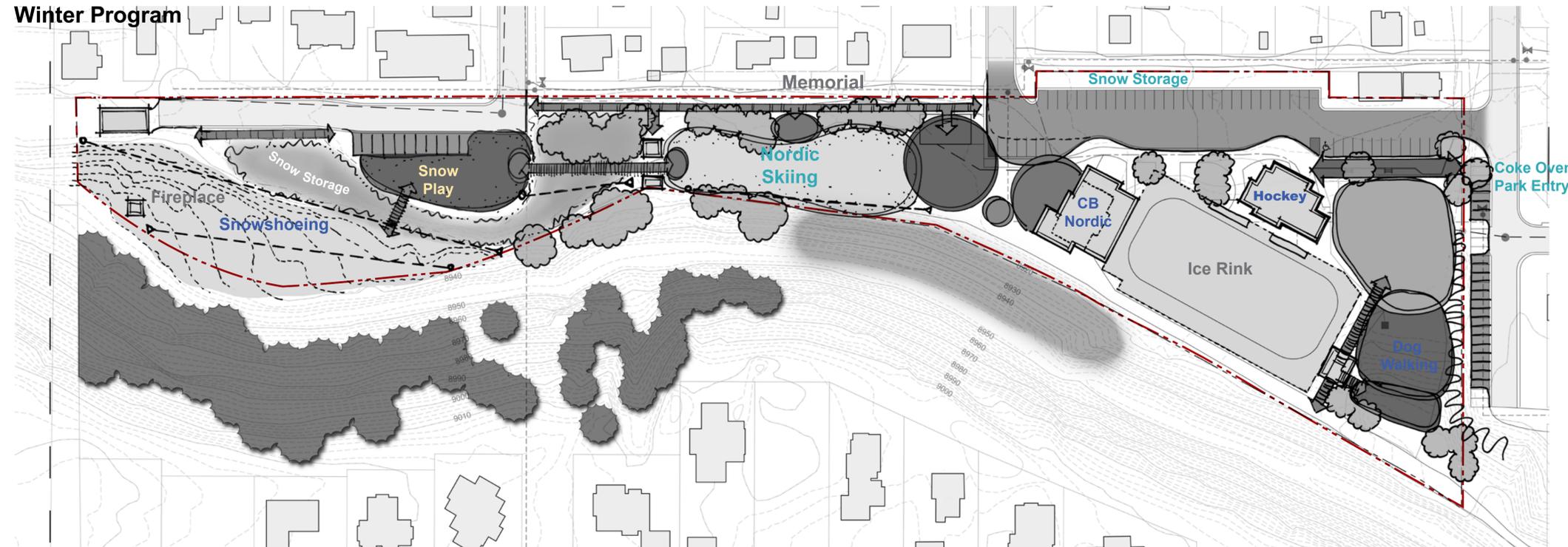


BIG MINE PARK

Town of Crested Butte, CO

March 2015

Winter Program



Pros and Cons

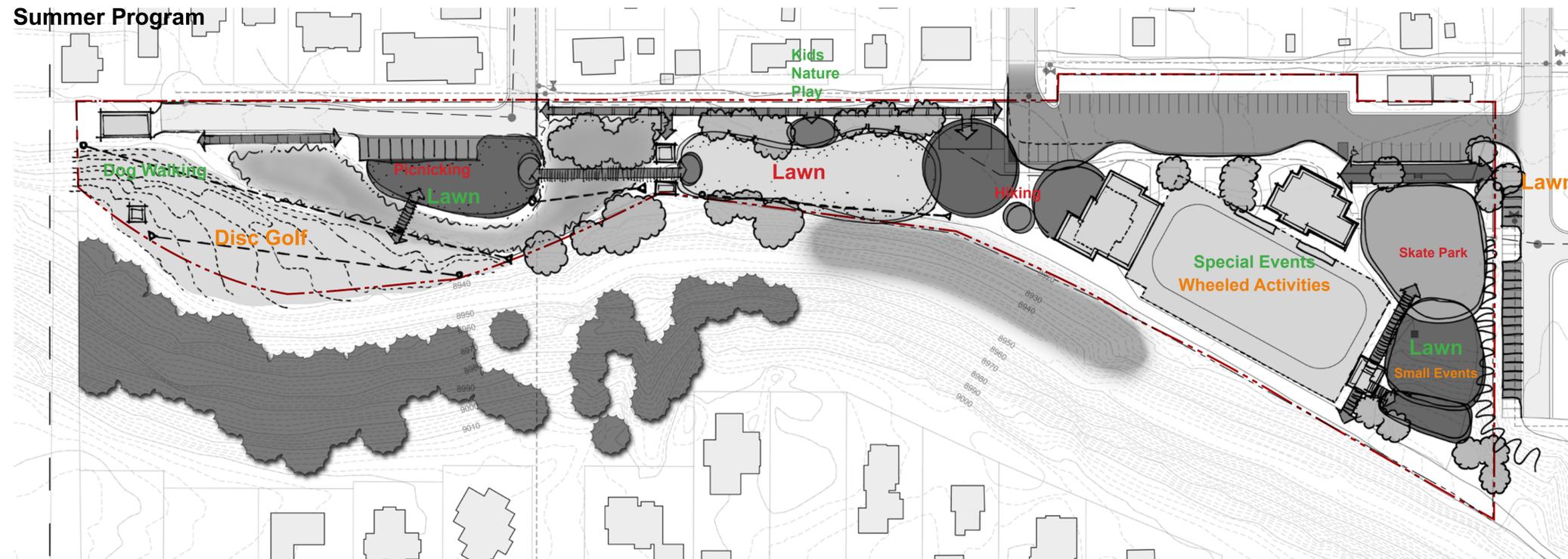
Pros:

- Focal alignment from 2nd street provides park entrance into gathering space, trailhead, enhanced park space
- Great creation of active and passive spaces and park "moments"
- Opportunity for additional program use such as a kids nature play environment or memorial at park core.
- Great sledding hill destination
- Pristine natural open space and overlook shelter at west side
- Maximized use of east end to contain the entire enhanced sledding program
- Great potential for historical / interpretative walk and memorial which provides primary connectivity through park
- Park users are met with a welcoming green space and entrance at 3rd street corner
- Hockey facilities are centrally related to the rink and provide at grade entrance to rink activities.
- 4 hole disc golf course can activate west side in summers

Cons:

- Relationship between parking, hockey and rink is rather congested and leaves little area for park green space
- Skate park is moved off site

Summer Program



Program

Off Site Program:

- Full 10,000sf Skate Park program
- Full 18 hole disc golf course (or connection to dispersed Town course)

Parking:

- Existing parking spaces: 47 (1 ADA);
- Proposed parking spaces: 71 (2 ADA);
- Net gain: 24 spaces (1 ADA)
- Existing bus parking: 2 spaces;
- Proposed bus parking: 2 spaces – no change



Concept C - Seasonal Overlay

MUNDUS BISHOP

