TRAIL SIGNAGE

A LOOK AT THE NWA TRAIL SIGNAGE PLAN

INTRODUCTION

- Jason Stouder – Director of Sales and Operations Progressive Trail Design, 417-850-1499 Mobile, stouder@progressivetraildesign.com
- Bachelor of Science, Communication Studies with a minor in Marketing from MSU in 2008
- Skatepark Specialist at ARC from 2008-2011
- VP at Progressive Bike Ramps 2012-2015
- Current position at PTD 2016-present

OVERVIEW

- In 2016 PTD was hired to do a major overhaul of the Bentonville and Bella Vista, AR trail signage.
- Over 70 miles of trail was updated with concise, consistent, and comprehensive trail signage.
- We focused on wayfinding through the use of trailhead maps, trail markers, and trail warning signs.
- We will discuss site lines, classifications and difficulty ratings, aesthetics, readability, safety, and Logistics
- We will discuss where we succeeded, failed, and how we look to improve on these items.

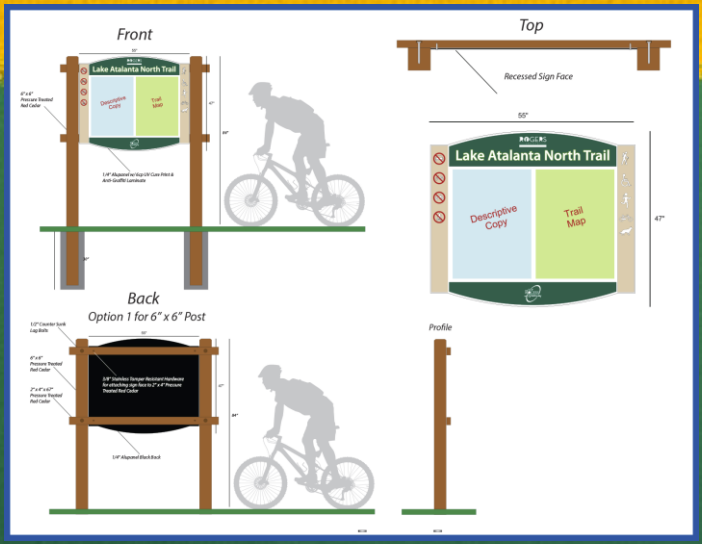
WAYFINDING

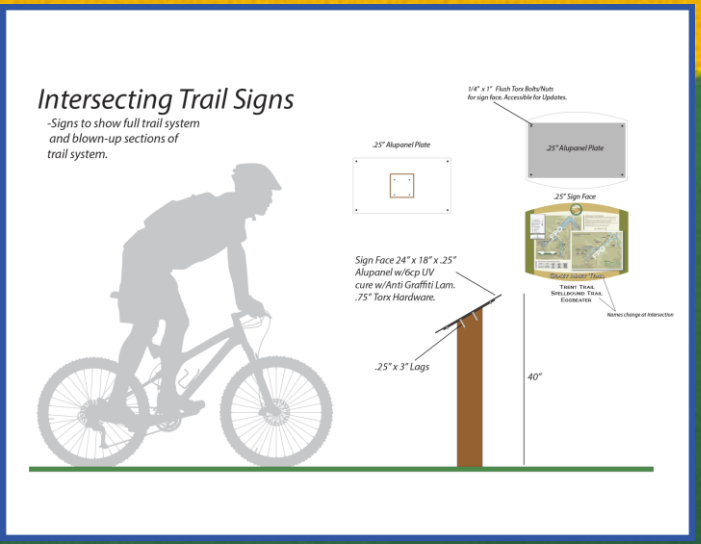
- Wayfinding - Spatial problem solving. It is knowing where you are in a building or an environment, knowing your desired location, and how to navigate to that desired location.
- Our focus for wayfinding was through the use of
  - Kiosk Maps
  - Trail Markers
  - Trail Warning Signs

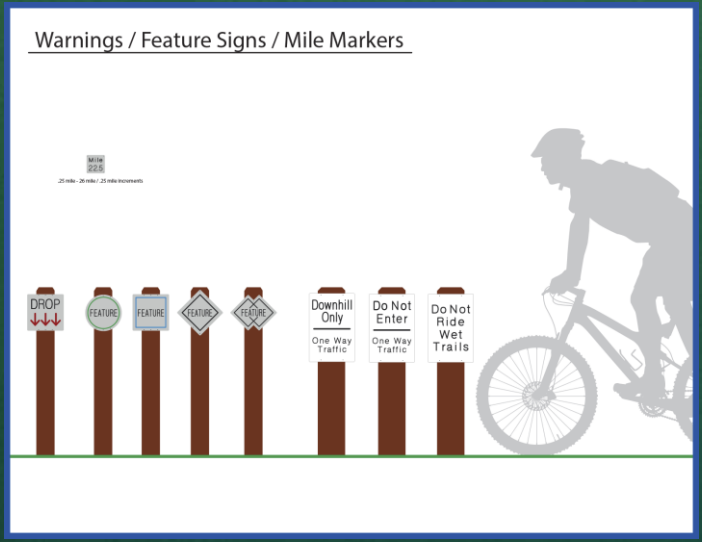
PLANNING

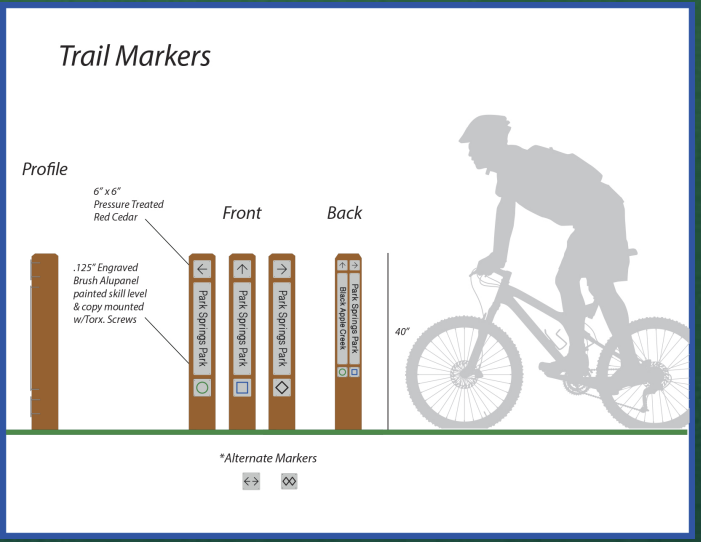
- Razorback Greenway Regional Wayfinding Plan – Prepared by Alta.
- A focus on consistency
- Ordering proper sign names and quantities which doubles as install plan
- Cost estimating
- Trail Rating and appropriate signage, Trail Naming
- Consideration of placement of signs on trail factors
  - Type of trail
  - Road crossings
  - Trail intersections
  - Speed of rider
  - Trail access points
  - Site lines
- Logistics and installation
- Mapping as built trail

CONSISTENCY

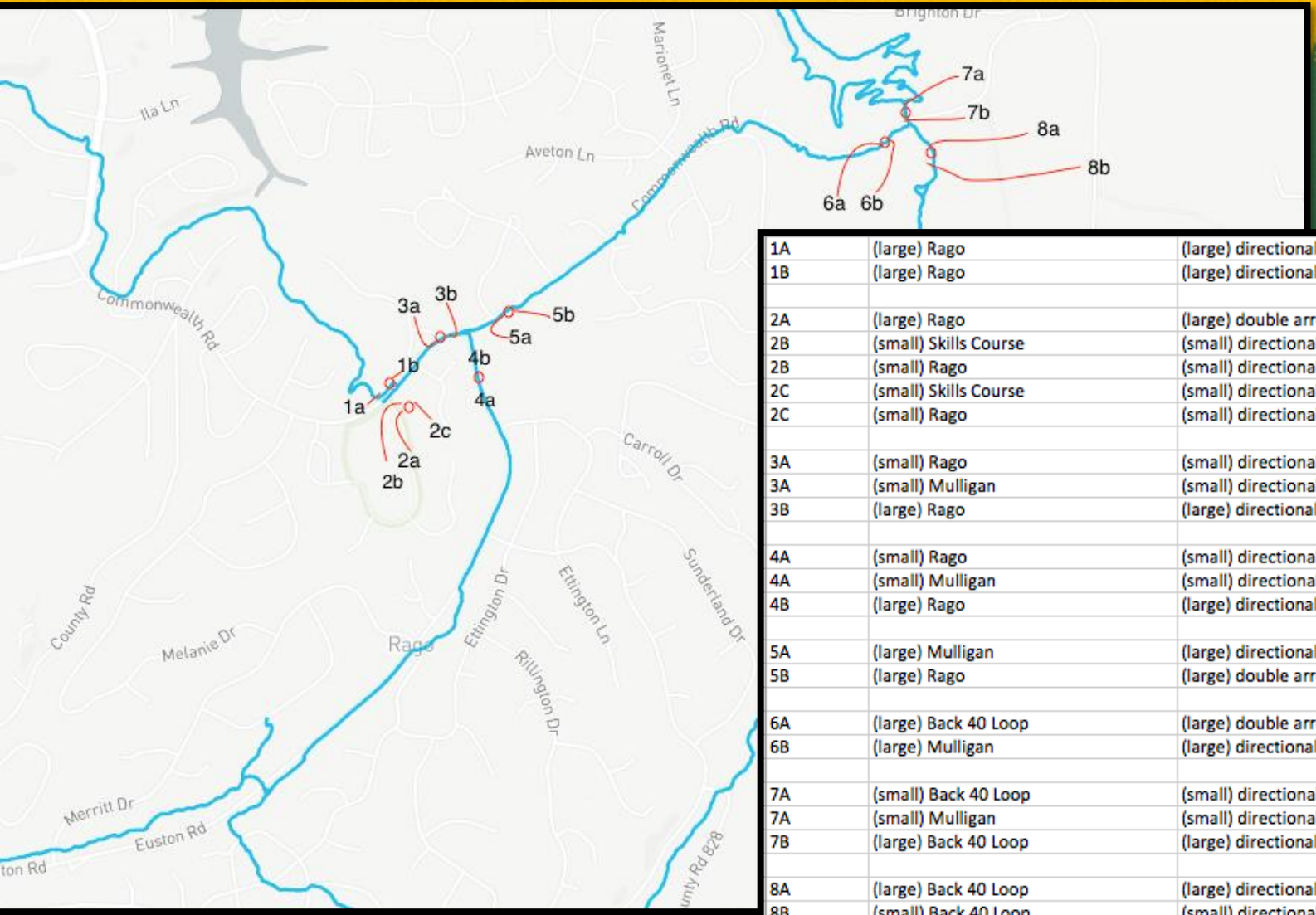








GETTING THE RIGHT SIGNS



1A	(large) Rago	(large) directional arrow	(large) blue square
1B	(large) Rago	(large) directional arrow	(large) blue square
2A	(large) Rago	(large) double arrow	(large) blue square
2B	(small) Skills Course	(small) directional arrow	(small) green circle
2B	(small) Rago	(small) directional arrow	(small) blue square
2C	(small) Skills Course	(small) directional arrow	(small) green circle
2C	(small) Rago	(small) directional arrow	(small) blue square
3A	(small) Rago	(small) directional arrow	(small) blue square
3A	(small) Mulligan	(small) directional arrow	(small) blue square
3B	(large) Rago	(large) directional arrow	(large) blue square
4A	(small) Rago	(small) directional arrow	(small) blue square
4A	(small) Mulligan	(small) directional arrow	(small) blue square
4B	(large) Rago	(large) directional arrow	(large) blue square
5A	(large) Mulligan	(large) directional arrow	(large) blue square
5B	(large) Rago	(large) double arrow	(large) blue square
6A	(large) Back 40 Loop	(large) double arrow	(large) blue square
6B	(large) Mulligan	(large) directional arrow	(large) blue square
7A	(small) Back 40 Loop	(small) directional arrow	(small) blue square
7A	(small) Mulligan	(small) directional arrow	(small) blue square
7B	(large) Back 40 Loop	(large) directional arrow	(large) blue square
8A	(large) Back 40 Loop	(large) directional arrow	(large) blue square
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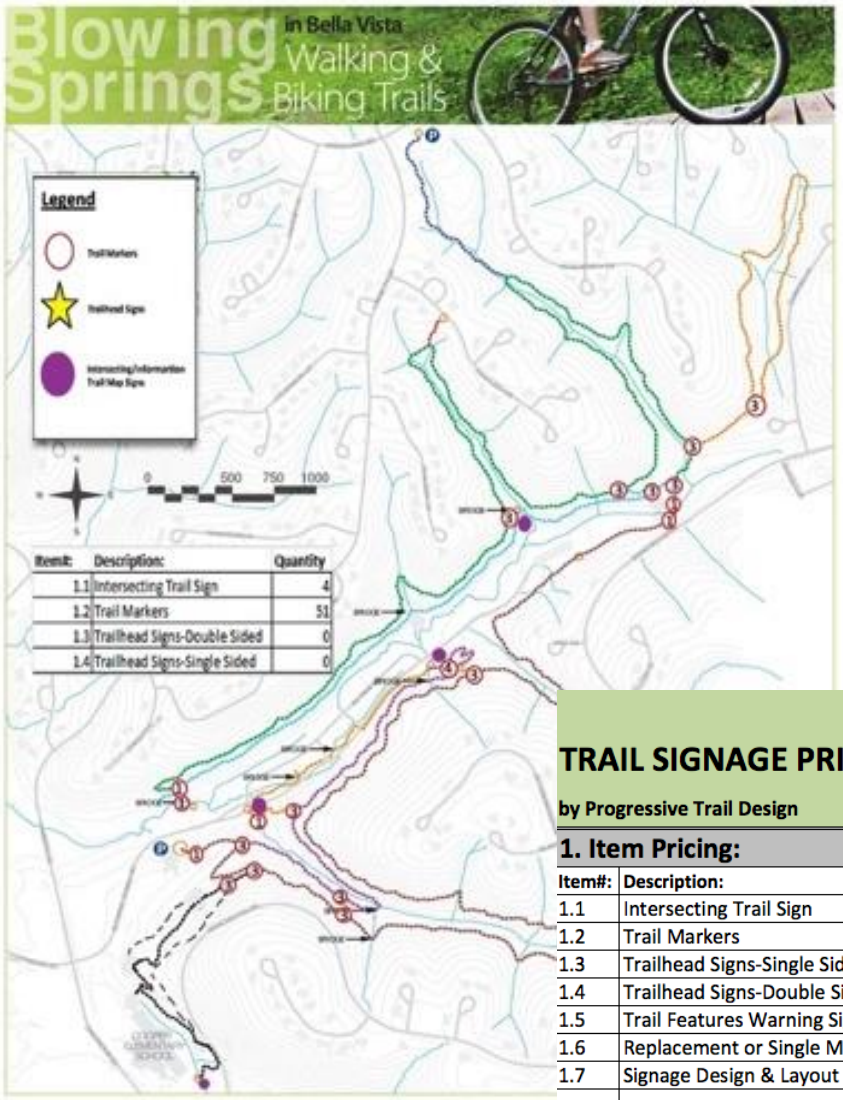

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TRAIL SIGNAGE PRICING

by Progressive Trail Design

PROGRESSIVE TRAIL DESIGN

1. Item Pricing:

Item#:	Description:	Quantity:	Unit Price:	Total:	Notes:
1.1	Intersecting Trail Sign		$0.00	$0.00	
1.2	Trail Markers		$0.00	$0.00	
1.3	Trailhead Signs-Single Sided		$0.00	$0.00	Includes Map
1.4	Trailhead Signs-Double Sided		$0.00	$0.00	Includes Map
1.5	Trail Features Warning Signs		$0.00	$0.00	
1.6	Replacement or Single Map		$0.00	$0.00	
1.7	Signage Design & Layout	variable cost due to size of project			Final graphic design and field work identifying exact locations
			1. TOTAL:	$0.00	

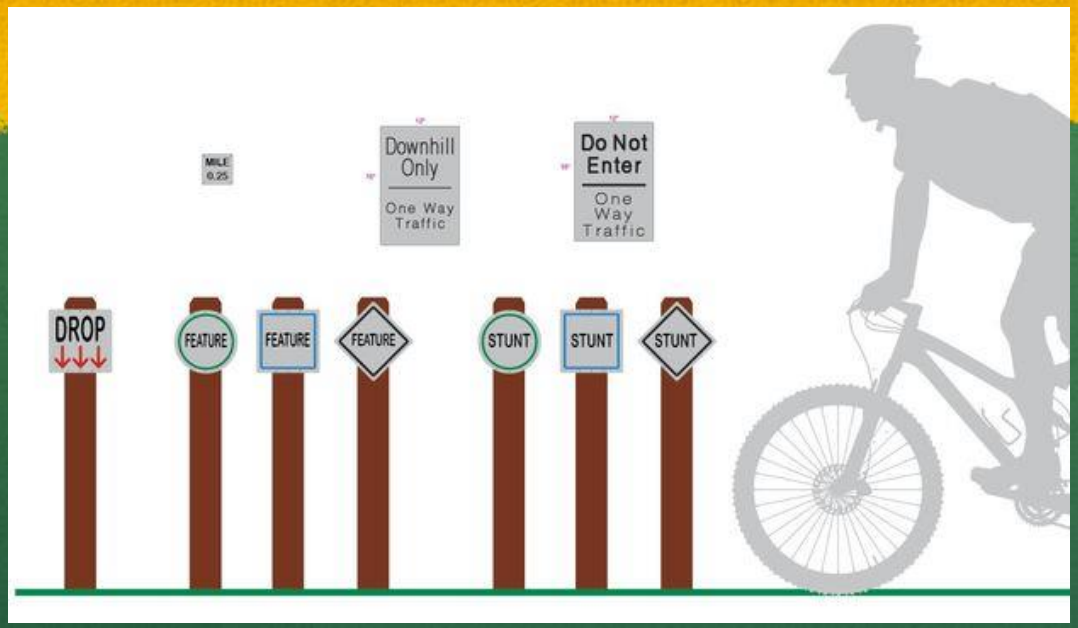
TRAIL RATINGS

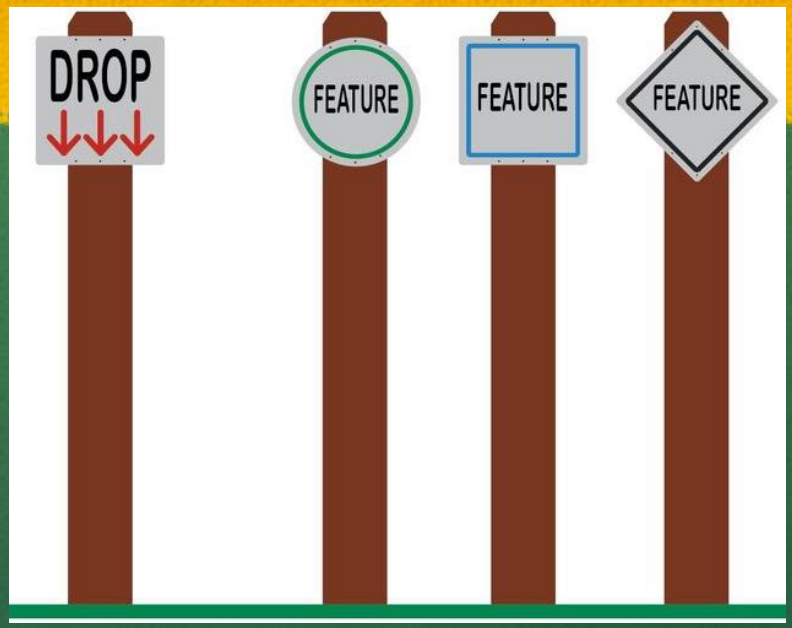
- IMBA standards
- Still subjective
- Can differ from region to region
- Customer and/or Land Manager can dictate

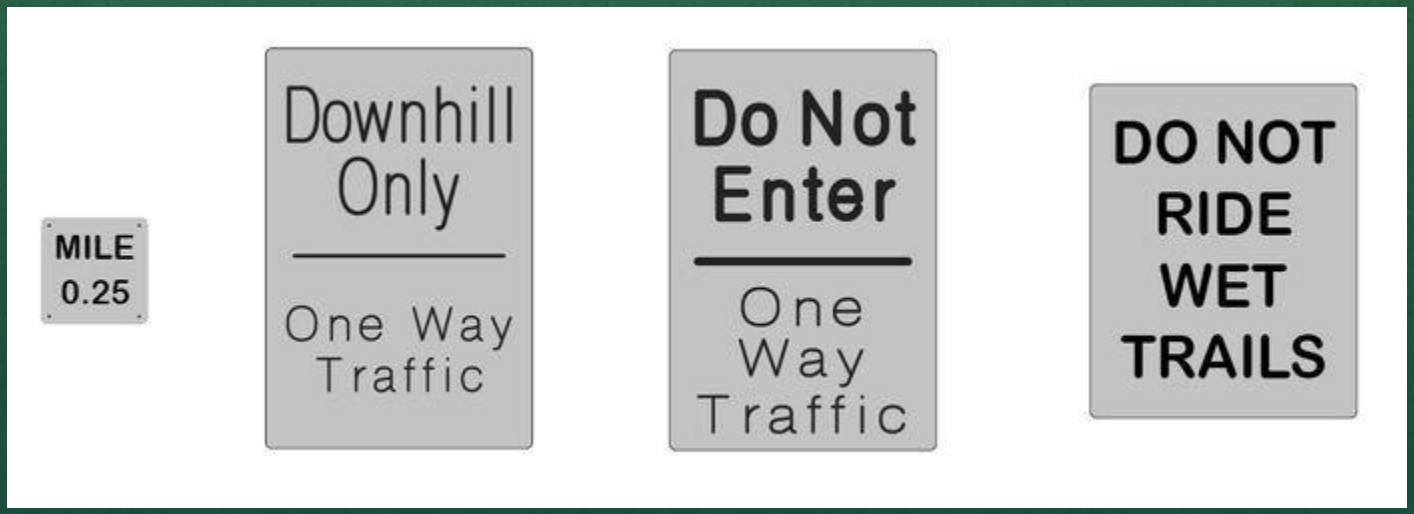
Trail Difficulty Rating System

	Easiest White Circle	Easy Green Circle	More Difficult Blue Square	Very Difficult Black Diamond	Extremely Difficult Dbl. Black Diamond
Trail Width	72" or more	36" or more	24" or more	12" or more	6" 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" tall or less Avoidable obstacles may be present Unavoidable bridges 36" or wider	Unavoidable obstacles 8" tall or less Avoidable obstacles may be present Unavoidable bridges 24" or wider TTF's 2' high or less, width of deck is greater than 1/2 the height	Unavoidable obstacles 15" tall or less Avoidable obstacles may be present May include loose rocks Unavoidable bridges 24" or wider TTF's 4' high or less, width of deck is less than 1/2 the height Short sections may exceed criteria	Unavoidable obstacles 15" tall or greater Avoidable obstacles may be present May include loose rocks Unavoidable bridges 24" or narrower TTF's 4' high or greater, width of deck is unpredictable Many sections may exceed criteria

TRAIL WARNING SIGNS







TRAIL WARNING SIGNS

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KIOSKS

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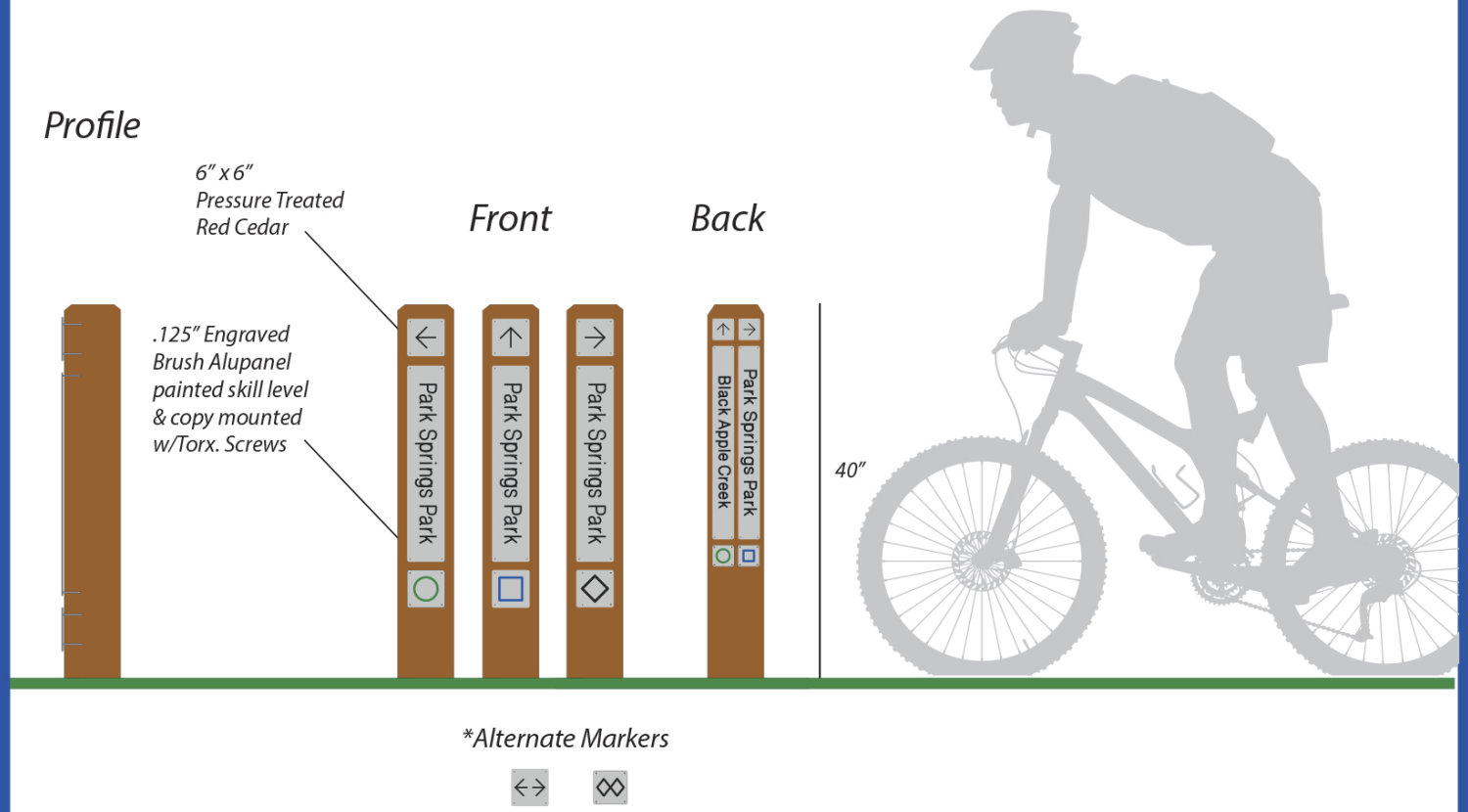
TRAIL MARKERS

Trail Markers



*Alternate Markers

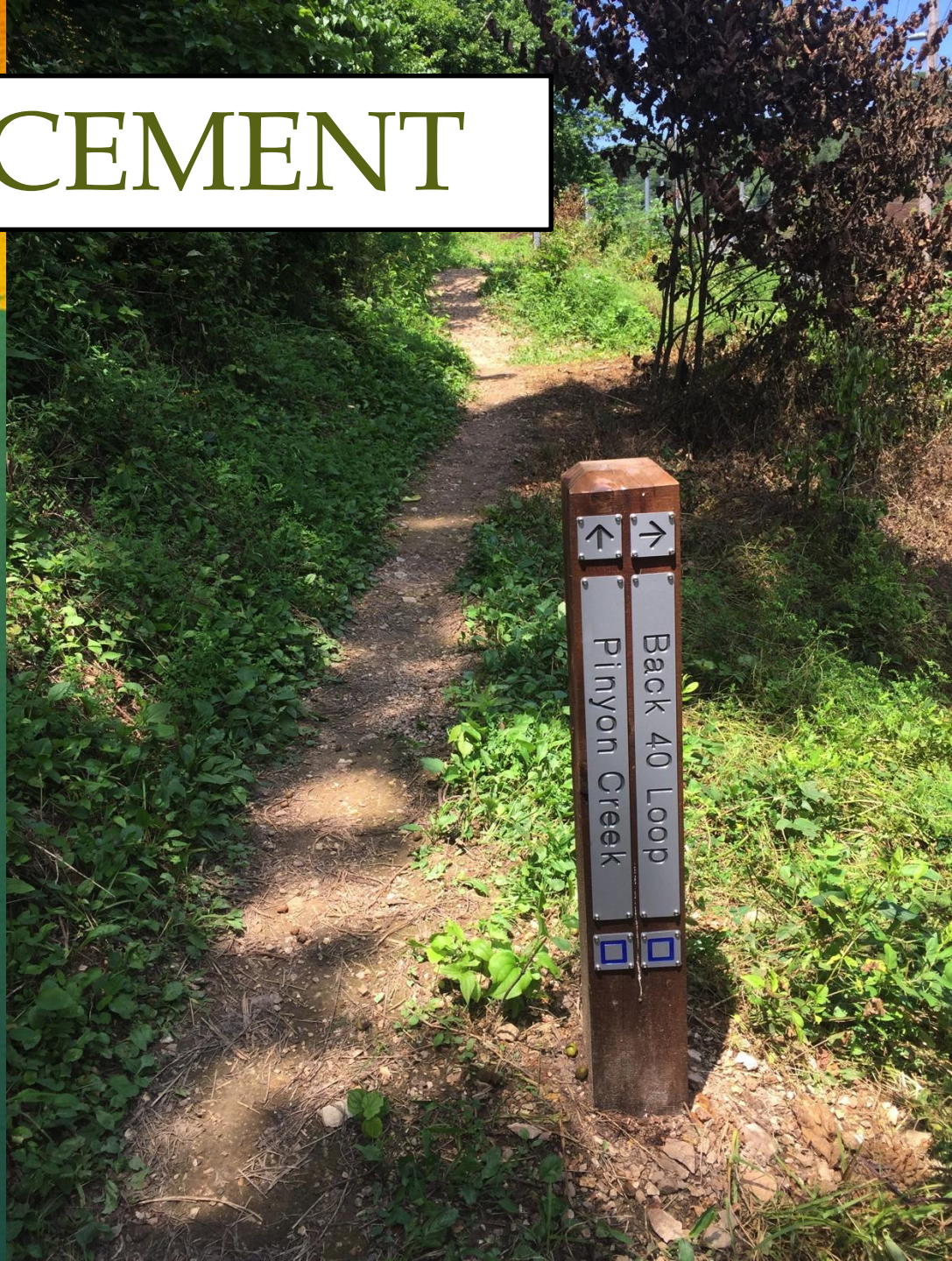
TRAIL MARKERS

- Include directional arrows
- Trail name
- Difficulty rating/confidence markers

TRAIL MARKERS

PLACEMENT

- Questions to ask when placing trail markers
  - What type of trail are the signs being placed?
  - What will the speed of the rider be as they approach?
  - Is there a clear line of site?



LOGISTICS AND INSTALLATION

- Ease or difficulty of access for product and tools
- Hand dig, jackhammer, and auger
- Secure set v concrete
- Stain
- Install of signs with templates on posts
- Mapping

TOOLS

SECURE SET

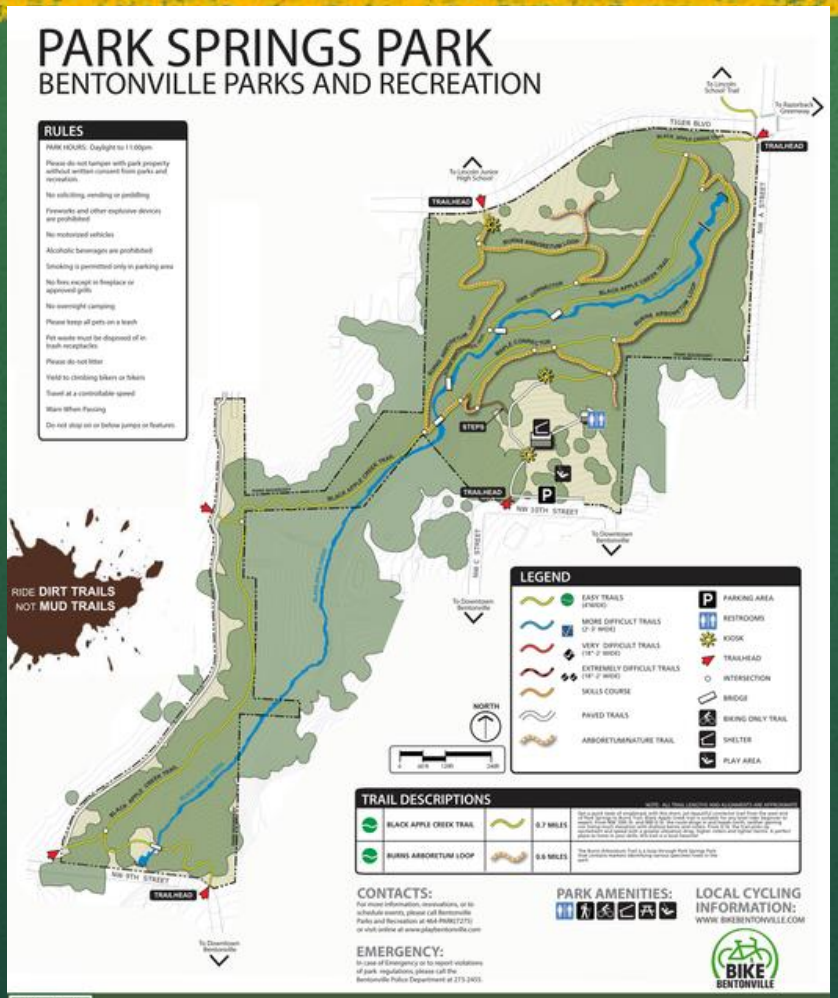
- Similar cost to concrete
- Mono-cellular
- Lighter
- No water needed
- 2 parts, mixing cup, jiffy mixer, and drill
- Fast setup time

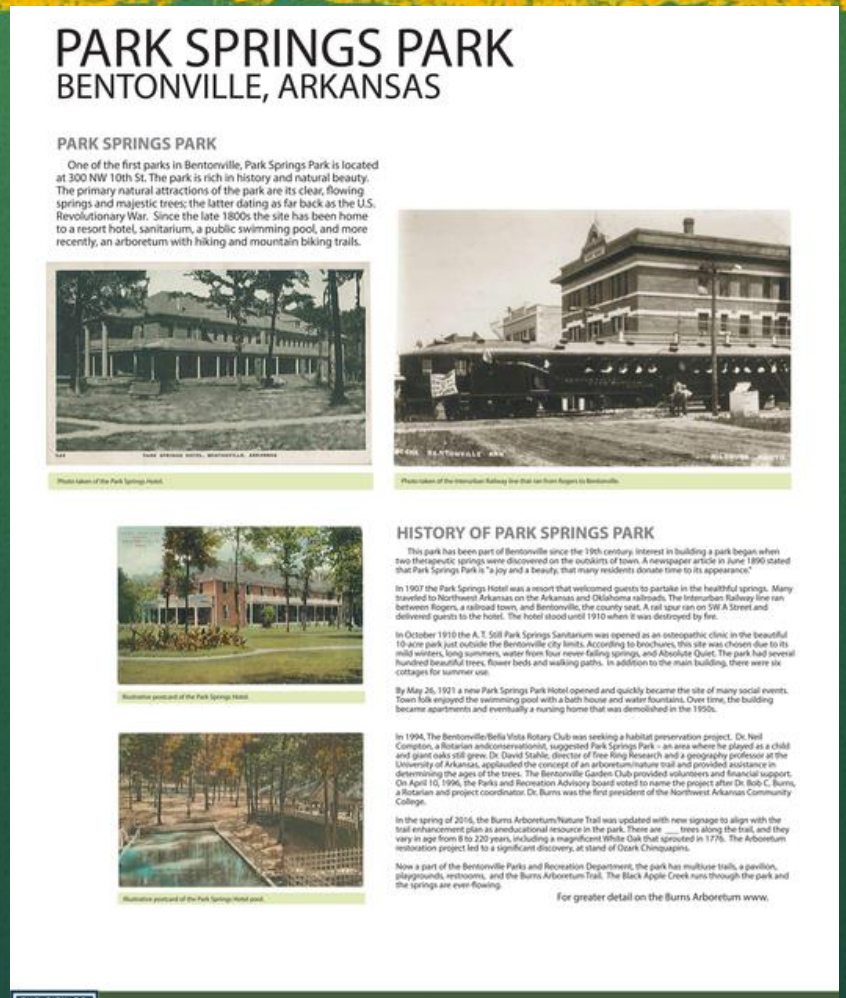
STAIN

OLYMPIC
AMERICA'S MOST TRUSTED BRAND SINCE 1938
MAXIMUM
STAIN + SEALANT IN ONE
for DECKS, FENCES & SIDING
4 YEAR PROTECTION
PREVENTS WATER DAMAGE & GRAYING FOR A MINIMUM OF 4 YEARS
• Enhanced Waterproofing Protection
• Advanced SunBlock® UV Defense
• Extends Color Life
• Exclusive Scuff Guard® Technology
• Provides Our Best Mildew Resistant Coating
GOOD HOUSEKEEPING
TONER
Matizador

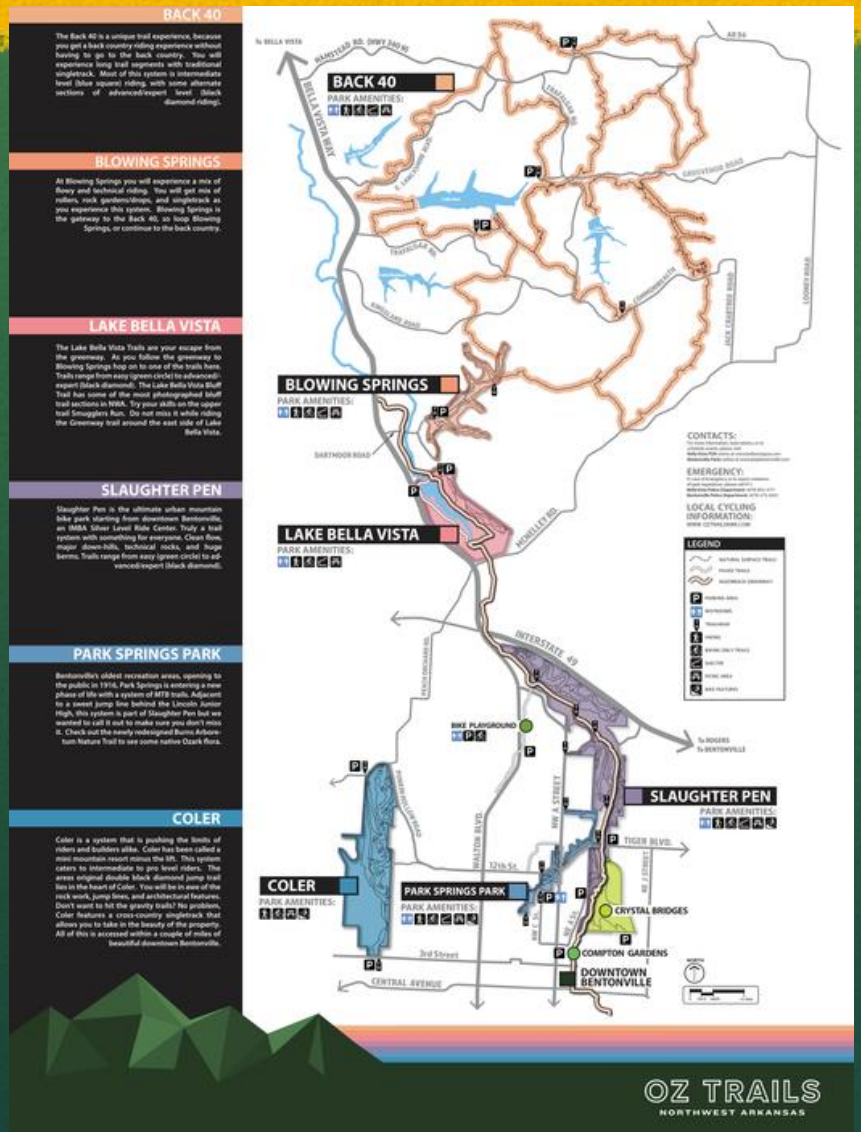
INSTALL WITH TEMPLATE

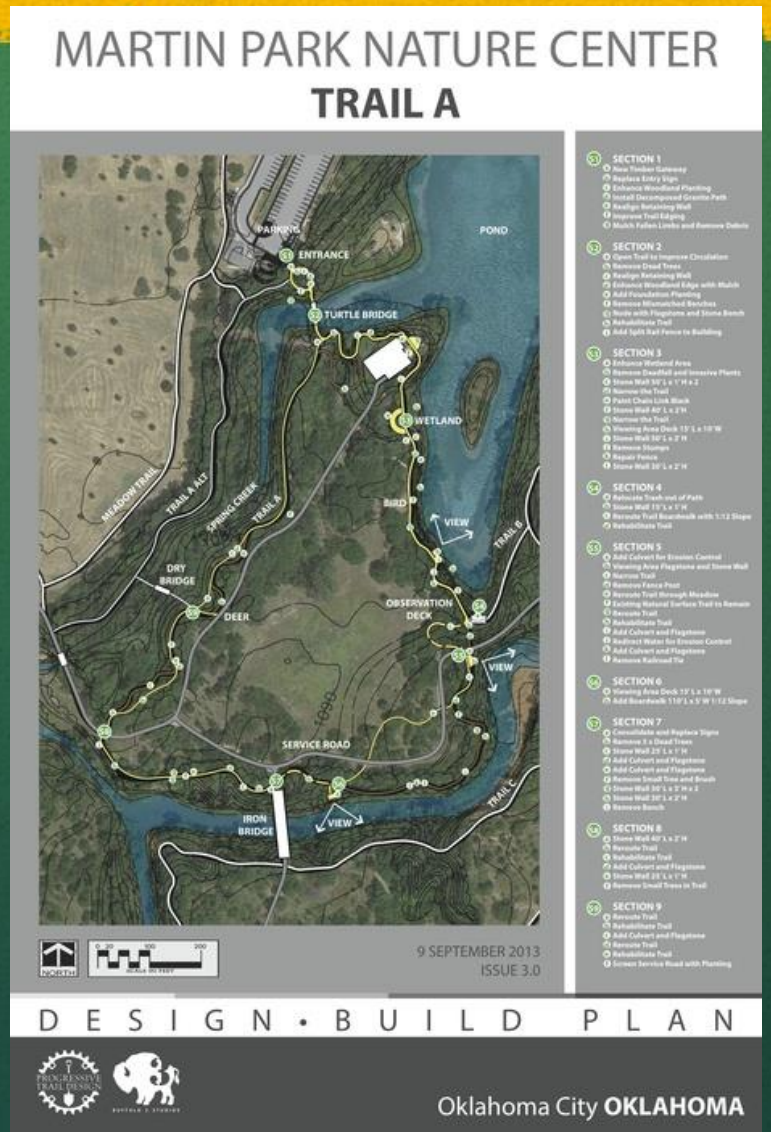
MAPS


PARK SPRINGS PARK
BENTONVILLE PARKS AND RECREATION
RULES
PARK HOURS: Daylight to 11:00pm
Please do not tamper with park property without written consent from parks and recreation.
No soliciting, vending or peddling
Fireworks and other explosive devices are prohibited
No motorized vehicles
Alcoholic beverages are prohibited
Smoking is permitted only in parking area
No fires except in fireplace or approved grills
No overnight camping
Please keep all pets on a leash
Pet waste must be disposed of in trash receptacles
Please do not litter
Yield to climbing bikers or hikers
Travel at a controllable speed
Warn When Passing
Do not stop on or below jumps or features
RIDE DIRT TRAILS
NOT MUD TRAILS
LEGEND
EASY TRAILS
MORE DIFFICULT TRAILS
VERY DIFFICULT TRAILS
EXTREMELY DIFFICULT TRAILS
SKILLS COURSE
PAVED TRAILS
ARBORETUM/NATURE TRAIL
PARKING AREA
RESTROOMS
KIOSK
TRAILHEAD
INTERSECTION
BRIDGE
BIKING ONLY TRAIL
SHELTER
PLAY AREA
NORTH
TRAIL DESCRIPTIONS
BLACK APPLE CREEK TRAIL
0.7 MILES
BURNS ARBORETUM LOOP
0.6 MILES
CONTACTS:
EMERGENCY:
PARK AMENITIES:
LOCAL CYCLING INFORMATION:
WWW.BIKEBENTONVILLE.COM
BIKE BENTONVILLE
BENTONVILLE
BLACK APPLE CREEK TRAIL
BURNS ARBORETUM LOOP


PARK SPRINGS PARK
BENTONVILLE, ARKANSAS
PARK SPRINGS PARK
One of the first parks in Bentonville, Park Springs Park is located at 300 NW 10th St. The park is rich in history and natural beauty. The primary natural attractions of the park are its clear, flowing springs and majestic trees; the latter dating as far back as the U.S. Revolutionary War. Since the late 1800s the site has been home to a resort hotel, sanitarium, a public swimming pool, and more recently, an arboretum with hiking and mountain biking trails.
HISTORY OF PARK SPRINGS PARK
This park has been part of Bentonville since the 19th century. Interest in building a park began when two therapeutic springs were discovered on the outskirts of town. A newspaper article in June 1890 stated that Park Springs Park is "a joy and a beauty, that many residents donate time to its appearance."
In 1907 the Park Springs Hotel was a resort that welcomed guests to partake in the healthful springs. Many traveled to Northwest Arkansas on the Arkansas and Oklahoma railroads. The Interurban Railway line ran between Rogers, a railroad town, and Bentonville, the county seat. A rail spur ran on SW A Street and delivered guests to the hotel. The hotel stood until 1910 when it was destroyed by fire.
In October 1910 the A. T. Still Park Springs Sanitarium was opened as an osteopathic clinic in the beautiful 10-acre park just outside the Bentonville city limits. According to brochures, this site was chosen due to its mild winters, long summers, water from four never-failing springs, and Absolute Quiet. The park had several hundred beautiful trees, flower beds and walking paths. In addition to the main building, there were six cottages for summer use.
By May 26, 1921 a new Park Springs Park Hotel opened and quickly became the site of many social events. Town folk enjoyed the swimming pool with a bath house and water fountains. Over time, the building became apartments and eventually a nursing home that was demolished in the 1950s.
In 1994, The Bentonville/Bella Vista Rotary Club was seeking a habitat preservation project. Dr. Neil Compton, a Rotarian andconservationist, suggested Park Springs Park – an area where he played as a child and giant oaks still grew. Dr. David Stahle, director of Tree Ring Research and a geography professor at the University of Arkansas, applauded the concept of an arboretum/nature trail and provided assistance in determining the ages of the trees. The Bentonville Garden Club provided volunteers and financial support. On April 10, 1996, the Parks and Recreation Advisory board voted to name the project after Dr. Bob C. Burns, a Rotarian and project coordinator. Dr. Burns was the first president of the Northwest Arkansas Community College.
In the spring of 2016, the Burns Arboretum/Nature Trail was updated with new signage to align with the trail enhancement plan as aneducational resource in the park. There are ___ trees along the trail, and they vary in age from 8 to 220 years, including a magnificent White Oak that sprouted in 1776. The Arboretum restoration project led to a significant discovery, at stand of Ozark Chinquapins.
Now a part of the Bentonville Parks and Recreation Department, the park has multiuse trails, a pavilion, playgrounds, restrooms, and the Burns Arboretum Trail. The Black Apple Creek runs through the park and the springs are ever-flowing.
For greater detail on the Burns Arboretum www.
THE CITY OF BENTONVILLE
BURNS ARBORETUM TRAIL

MAPS


BACK 40
The Back 40 is a unique trail experience, because you get a back country riding experience without having to go to the back country. You will experience long trail segments with traditional singletrack. Most of this system is intermediate level (blue square) riding, with some alternate sections of advanced/expert level (black diamond riding).
BLOWING SPRINGS
At Blowing Springs you will experience a mix of flowy and technical riding. You will get mix of rollers, rock gardens/drops, and singletrack as you experience this system. Blowing Springs is the gateway to the Back 40, or loop Blowing Springs, or continue to the back country.
LAKE BELLA VISTA
The Lake Bella Vista Trails are your escape from the greenway. As you follow the greenway to Blowing Springs hop on to one of the trails here. Trails range from easy (green circle) to advanced/expert (black diamond). The Lake Bella Vista Bluff Trail has some of the most photographed bluff trail sections in NWA. Try your skills on the upper trail Smugglers Run. Do not miss it while riding the Greenway trail around the east side of Lake Bella Vista.
SLAUGHTER PEN
Slaughter Pen is the ultimate urban mountain bike park starting from downtown Bentonville, an IMBA Silver Level Ride Center. Truly a trail system with something for everyone. Clean flow, major down-hills, technical rocks, and huge berms. Trails range from easy (green circle) to advanced/expert (black diamond).
PARK SPRINGS PARK
Bentonville's oldest recreation areas, opening to the public in 1914, Park Springs is entering a new phase of life with a system of MTB trails. Adjacent to a sweet jump line behind the Lincoln Junior High, this system is part of Slaughter Pen but we wanted to call it out to make sure you don't miss it. Check out the newly redesigned Burns Arboretum Nature Trail to see some native Ozark flora.
COLER
Coler is a system that is pushing the limits of riders and builders alike. Coler has been called a mini mountain resort minus the lift. This system caters to intermediate to pro level riders. The areas original double black diamond jump trail lies in the heart of Coler. You will be in awe of the rock work, jump lines, and architectural features. Don't want to hit the gravity trails? No problem. Coler features a cross-country singletrack that allows you to take in the beauty of the property. All of this is accessed within a couple of miles of beautiful downtown Bentonville.
BACK 40
PARK AMENITIES:
BLOWING SPRINGS
PARK AMENITIES:
LAKE BELLA VISTA
PARK AMENITIES:
SLAUGHTER PEN
PARK AMENITIES:
COLER
PARK AMENITIES:
PARK SPRINGS PARK
PARK AMENITIES:
BELLA VISTA WAY
HAMSTEAD RD. (HWY 340 N)
TRAPSHOOT RD.
GROUSEMAN ROAD
JACK FAYETTEVILLE ROAD
LOOMIS RIDGE
DARTMOOR ROAD
HENSLEY RD.
INTERSTATE 49
To ROGERS
To BENTONVILLE
BIKE PLAYGROUND
MOBERLY AVENUE
WALTON BLVD.
12th St.
NW A STREET
TIGER BLVD.
NE 2 STREET
CRYSTAL BRIDGES
COMPTON GARDENS
DOWNTOWN BENTONVILLE
3rd Street
CENTRAL AVENUE
CONTACTS:
EMERGENCY:
LOCAL CYCLING INFORMATION:
LEGEND
OZ TRAILS
NORTHWEST ARKANSAS

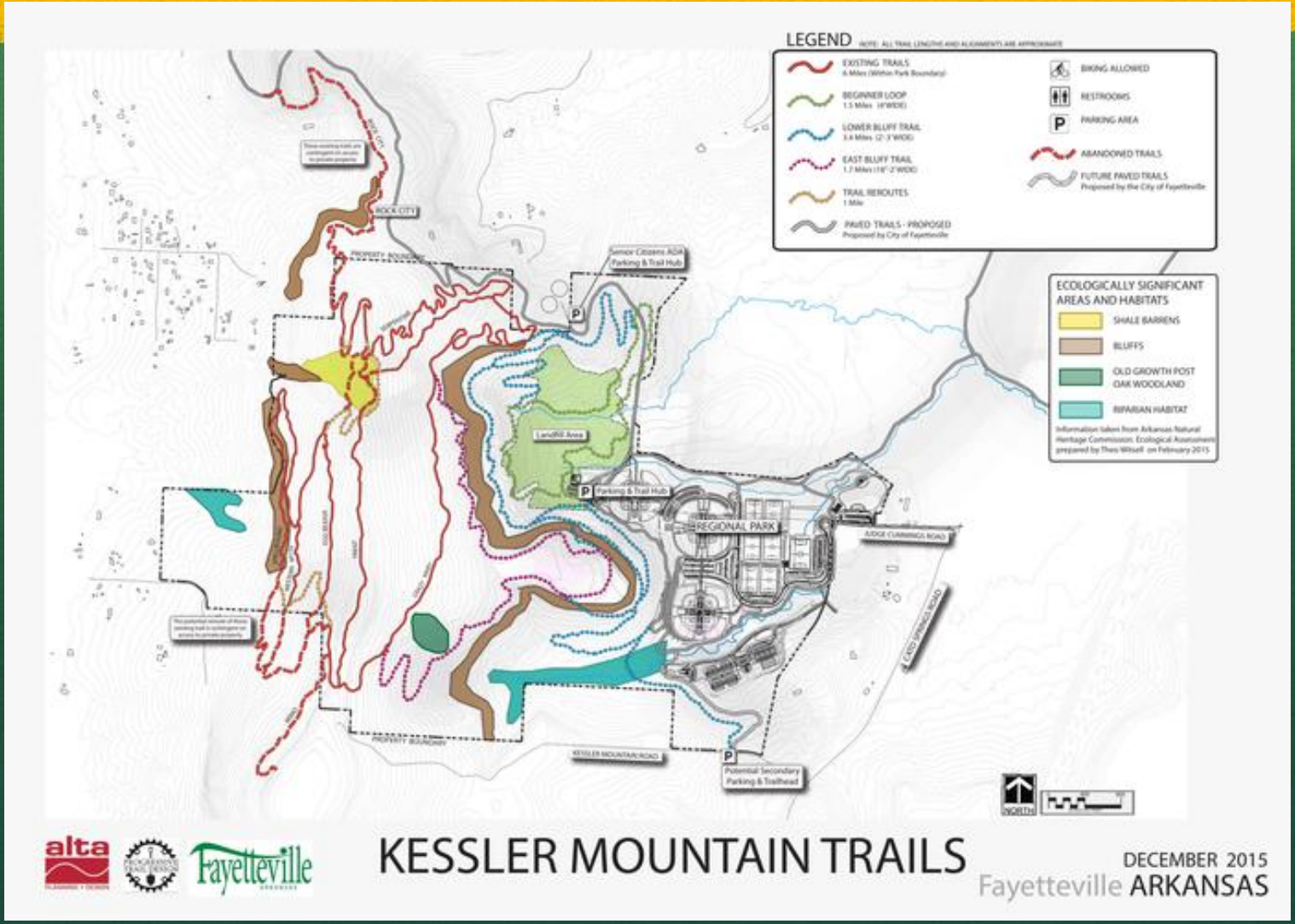

MARTIN PARK NATURE CENTER
TRAIL A
PARKING
POND
ENTRANCE
TURTLE BRIDGE
WETLAND
MEADOW TRAIL
TRAIL A ALT
SPRING CREEK
TRAIL B
BIRD
VIEW
TRAIL C
DRY BRIDGE
DEER
OBSERVATION DECK
SERVICE ROAD
IRON BRIDGE
TRAIL E
SECTION 1
SECTION 2
SECTION 3
SECTION 4
SECTION 5
SECTION 6
SECTION 7
SECTION 8
SECTION 9
NORTH
9 SEPTEMBER 2013
ISSUE 3.0
DESIGN • BUILD PLAN
Oklahoma City OKLAHOMA

MAPS

SILVER FALLS STATE PARK
LEGEND
Existing Trails
Beginner Trails
Intermediate Trails
Trail Re-routes
SHEET: PTD -1
SCALE: 1"= 100ft
SILVER FALLS STATE PARK
JULY 2015
Silverton, OREGON

TWO RIVERS
TRAILHEAD
THE ANATOMY OF A TRAIL MARKER
INTERSECTION
CURRENT TRAIL
TURN NAME
USER GROUPS
WARNINGS
EASIEST DIRECTION TO TRAILHEAD
SNAP A PICTURE AND TAKE THIS MAP WITH YOU
THE TRAILS
TH TRAILHEAD
M MERRY-GO-ROUND
W WEST LOOP
S SOUTH LOOP
SC SCOUT TRAIL
BL BLUFFLINE TRAIL
EN ENDURO TRAIL
SS1 BEGINNER SLOPESTYLE
SS2 INTERMEDIATE SLOPESTYLE
DH1 INTERMEDIATE DOWNHILL
DH2 ADVANCED DOWNHILL
DH3 JUMP CIRCUIT
DHR DOWNHILL RETURN TRAIL
CA CONNECTOR A
CB CONNECTOR B
CC CONNECTOR C
CD CONNECTOR D
THE LOOPS
WEST
SOUTH
CONNECTOR / SPECIALTY
THE RULES
CYCLISTS MUST WEAR HELMETS.
CYCLISTS CAUGHT WITHOUT HELMETS WILL BE BANNED FROM THE PROPERTY.
HOURS ARE DAWN TO DUSK
DOGS MUST BE LEASHED
NO MOTORIZED VEHICLES
ALCOHOL & SMOKING ARE PROHIBITED
NO LITTERING: PACK IN / PACK OUT / PICK UP
THIS IS PRIVATE PROPERTY; RESPECT IT
EARN YOUR DIRT - VOLUNTEER OR CONTRIBUTE
YIELD TO CLIMBING BIKES OR HIKERS
PARK ONLY IN DESIGNATED PARKING AREAS
TRAVEL AT A CONTROLLABLE SPEED
WARN WHEN PASSING
DISMOUNT FOR WET TRAIL, OBEY CLOSURES
NO DISCHARGE OF WEAPONS ON PROPERTY
DO NOT STOP ON OR BELOW JUMPS OR FEATURES
DO NOT ENTER PRIVATE HOUSE FOR ANY REASON
REPORT ANY INCIDENTS TO INFO@TRAILSPRING.ORG
IN CASE OF EMERGENCY, DIAL 9-1-1
Two Rivers Bike Park and Trails is a private facility dedicated to biking, running, and hiking and is operated by TrailSpring, a Missouri non-profit corporation. TrailSpring and the land owners are protected by the Missouri Recreational Use Statute. All users assume the inherent risk of biking and associated outdoor activities and agree to abide by all signage, warnings, closures, and safety instructions. Mountain Biking is inherently dangerous and can cause serious injury, missed days at work, even death. Stay on trails, ride safely, and contact info@trailspring.org with any safety concerns or feedback.
If you are riding these trails, think about swinging a tool and giving back. It's good karma.
INTERSECTION
LEAST DIFFICULT
MODERATE
DIFFICULT
EXPERT ONLY
SERVICE ROAD
TH TRAILHEAD KIOSK
TRAIL DIRECTION
STRUCTURE
THE LEGEND
LEAST DIFFICULT
MODERATE
DIFFICULT
EXPERT ONLY
Ratings are for technical difficulty only, NOT exertion level. All levels of difficulty will include a moderate degree of climbing and exertion. All stunts and optional lines are marked independently of trail difficulty. Two Rivers contains roughly 100ft of climbing per mile.
PAY ATTENTION TO SIGNAGE
TRAILSPRING
TRAILSPRING.ORG
TRAILSPRING.ORG/VOLUNTEER
FACEBOOK.COM/TRAILSPRING
FOR ROUTE OPTIONS & DISTANCES CHECK OUT TWO RIVERS ON
STRAVA

MAPS


LEGEND
EXISTING TRAILS
BEGINNER LOOP
LOWER BLUFF TRAIL
EAST BLUFF TRAIL
TRAIL REROUTES
PAVED TRAILS - PROPOSED
BIKING ALLOWED
RESTROOMS
PARKING AREA
ABANDONED TRAILS
FUTURE PAVED TRAILS
Proposed by the City of Fayetteville
ECOLOGICALLY SIGNIFICANT AREAS AND HABITATS
SHALE BARRENS
BLUFFS
OLD GROWTH POST OAK WOODLAND
RIPARIAN HABITAT
Information taken from Arkansas Natural Heritage Commission: Ecological Assessment prepared by Theo Witsell on February 2015
ROCK CITY
Senior Citizens Addition Parking & Trail Hub
Landfill Area
Parking & Trail Hub
REGIONAL PARK
JUDGE CUMMINGS ROAD
LAKE SPRINGS ROAD
KESSLER MOUNTAIN ROAD
Potential Secondary Parking & Trailhead
PROPERTY BOUNDARY
NORTH
alta
Fayetteville
KESSLER MOUNTAIN TRAILS
DECEMBER 2015
Fayetteville ARKANSAS

THE GOOD AND BAD

- Overall a success
- Better planning for ordering
- Dedicated truck and trailer for install team
- More cohesive install map

QUESTIONS?