SWTDESIGN

In collaboration with
International Mountain Bike Association
Civil & Survey
CMT

DOVER OUTDOOR RECREATION AREA

Bike Park City Council Update

Date 08.19.2024

Agenda

- Grant Items / Project Scope Review
- Schedule
- Permitting Progress
- Public Process
- Plan & Major Program Elements
- Next Steps & Milestones

Grant Items & Project Scope

REQUIRED GRANT PROGRAMMING:

- Bicycle Single Track Trails - up to 10 miles
- BMX Pump Track
- Children's Bicycle Playground
- 3 All-Weather Flow Lines (paved downhill trails)
- Skills Features
- Bridge - across Turkey Creek
- New Restroom (Pre-Fabricated)
- 2 New Shelters
- 2 New Parking Lots (at Zora, + at south site)
- Lighting/Security at Pump Track / Bicycle Playground
- Public Art and Signage
- Site Amenities – bike racks, fix-it station...
- Landscape Enhancements



Project Schedule



ABBREVIATIONS/LEGEND
MO: MONTH
GEO: GEOTECHNICAL BORINGS AND REPORTS
404/401: USACE 404/401 NATIONWIDE AND INDIVIDUAL PERMITS
T+ES: THREATENED & ENDANGERED SPECIES
CITY COUNCIL MEETING

Permitting & Engineering Update

MAJOR ENGINEERING / INVESTIGATION

- [x] Phase 1 and 2 Cultural Resource Assessment
- [x] Wetlands Delineation / Waters of the US
- [x] Threatened & Endangered Species Report
- [x] Onsite Material Piles Testing
- [x] Bridge Design Hydraulic Modeling
- [ ] Geotechnical Investigation

PERMITTING

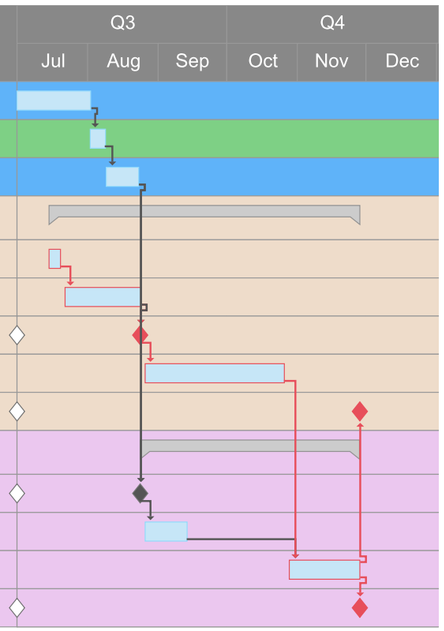
State Historic Preservation Office Determination
>submitted 7/23, 30 days typical

MDNR 401 Individual Water Quality Permit
>Pre-Filing meeting 7/25, MDNR waived 30-day wait
>About to submit, issued concurrent to 404 Permit

EPA/US Army Corps 404 "No-Rise" Permit
>About to submit, target late Nov. issuance

City Development Requirements
>Pre-development meeting 8/2

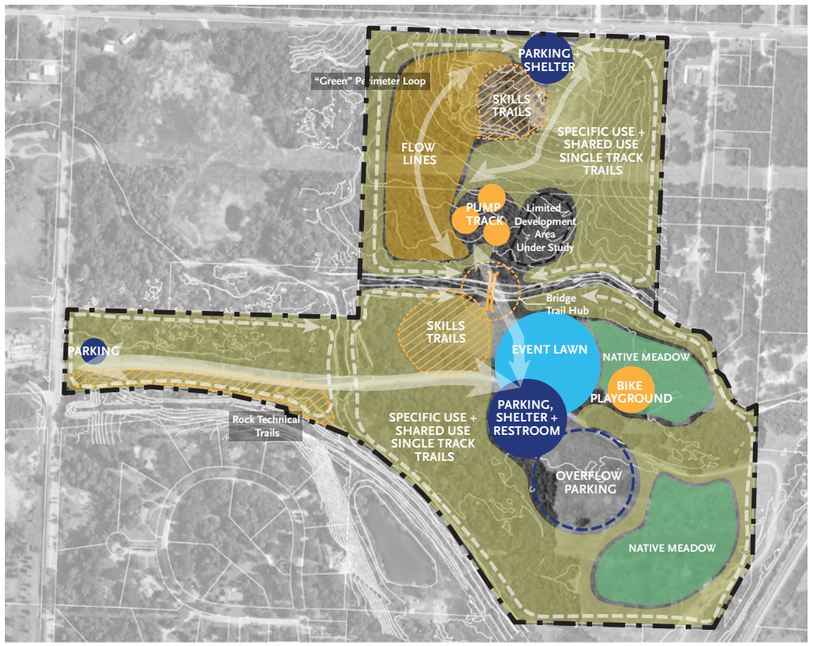
	Task Name	Duration	Start	Finish
59	Bridge Alternative Analysis & Floodplain Engineering	29d	06/24/24	08/01/24
60	City Review/Approval of Bridge Configuration	5d	08/02/24	08/08/24
61	Prepare 401 & 404 Permit Applications	10d	08/09/24	08/22/24
62	**Individual 401 Water Quality Certification (MDNR)**	98d	07/15/24	11/27/24
63	Prepare & Submit Pre-filing Meeting Request	5d	07/15/24	07/19/24
64	DNR 30 Calendar Day Notice Period	25d	07/22/24	08/23/24
65	Submit 401 Water Quality Certification Request	0	08/23/24	08/23/24
66	DNR 60 Calendar Day Review Period	45d	08/26/24	10/25/24
67	401 Certification Issued	0	11/27/24	11/27/24
68	**Nationwide 404 Permit Verification (USACE)**	68d	08/23/24	11/27/24
69	Submit 404 Permit Application	0	08/23/24	08/23/24
70	USACE Initial Processing	14d	08/26/24	09/12/24
71	USACE Final Processing (30 calendar days)	23d	10/28/24	11/27/24
72	404 Permit Verification Issued	0	11/27/24	11/27/24



PUBLIC PROCESS

April - Stakeholder Meetings

Concept A



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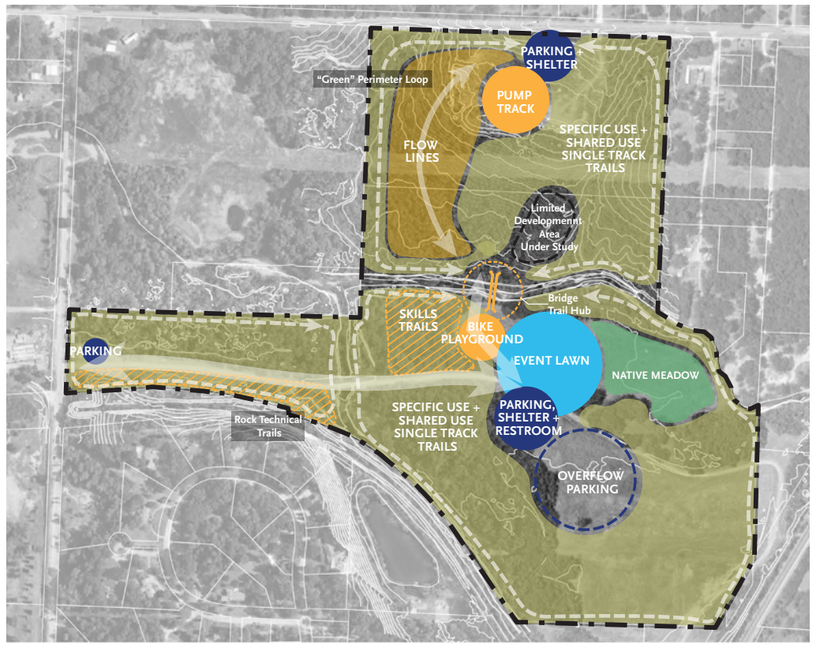
Concept B



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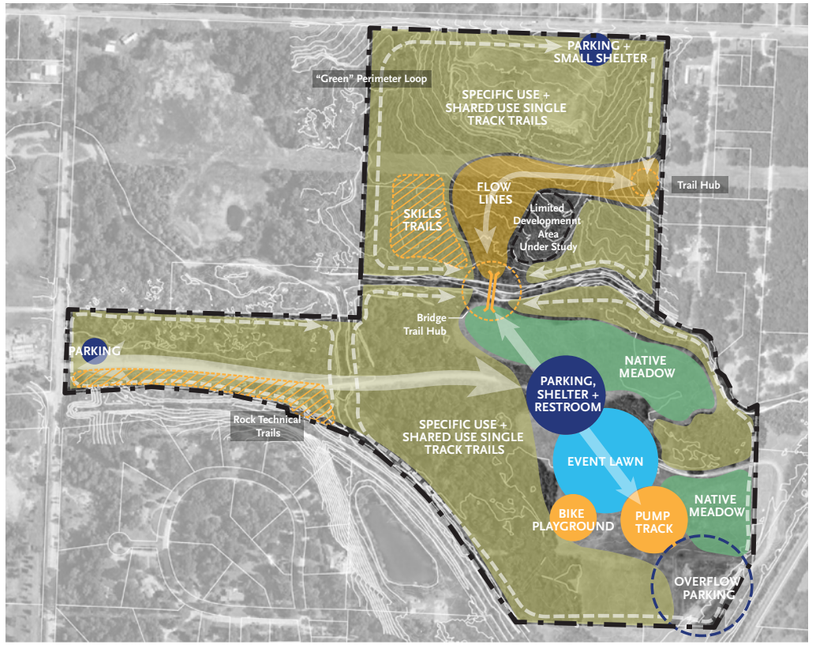
Concept C



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- (2) virtual meetings with bike community stakeholders suggested by City staff
- Stakeholders were interested in Concepts A and C, and provided feedback on: program locations, family needs, events in the park.
- Design team moved forward with Option C based on their input + limitations of the Cultural Areas

June - Community Open House

W Zora St

20 Parking Spots

Flow Line Hub + Small Pavilion

Flow Lines

Joplin Creek

Turkey Creek

New Bridge

Gravel Entry Parking

N Lone Elm Rd

Rock Technical Trails

Existing Bridge

Joplin Creek

80 Parking Spots

Restroom

Main Pavilion

Bike Playground

Beginner Skills Trails

Pump Track

Event Lawn

Skills / Progressive Jumps

Native Meadow

Turkey Creek

Railroad

Route 43

SEGMENT	SKILL	LENGTH (mi)	TRAIL STYLE
100	Beginner	0.68	Traditional
101	Beginner	0.72	Traditional
102	Beginner	0.78	Traditional
103	Beginner Descent	0.36	Mountain Bike Optimized
104	Beginner Hardened	0.52	Paved Chip Seal Flow Line
105	Beginner	0.24	Traditional
106	Beginner	0.26	Traditional
107	Beginner	0.40	Traditional
108	Beginner	0.59	Traditional
109	Beginner	1.28	Traditional
110	Beginner	0.90	Traditional
111	Beginner	0.45	Traditional
112	Beginner	0.06	Traditional
113	Access Trail	0.30	Traditional
200	Intermediate	0.24	Traditional
201	Intermediate Descent	0.21	Mountain Bike Optimized
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203	Intermediate Technical	0.22	Technical with Skills Features
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205	Intermediate	0.14	Traditional
300	Advanced Technical	0.44	Technical with Skills Features
301	Advanced Hardened	0.25	Paved Chip Seal Flow Line
302	Advanced Technical	0.39	Technical with Skills Features
400	Access Trail	0.27	Paved Chip Seal Flow Line
401	Hiker	0.19	Hiker
402	Hiker	0.13	Hiker
403	Hiker	0.17	Hiker
TOTAL		10.71	

LEGEND

- Property Line
- Sensitive Cultural Site (limited development)
- Meadow
- Floodway
- Major Trail Hub
- Minor Trail Hub
- Beginner Traditional Trail - 6.36 mi
- Beginner Descent Trail - 0.36 mi
- Beginner Chip Seal Trail (Flow Line) - 0.52 mi
- Intermediate Traditional Trail - 0.38 mi
- Intermediate Descent Trail - 0.21 mi
- Intermediate Chip Seal Trail (Flow Line) - 0.38 mi
- Intermediate Technical Trail - 0.36 mi
- Advanced Chip Seal Trail (Flow Line) - 0.25 mi
- Advanced Technical Trail - 0.83 mi
- Access Trail - 0.57 mi
- Hiker Trail - 0.49 mi

Total Trail Miles - 10.71 mi

Graphic Scale: 1" = 60'

JOPLIN MISSOURI

CMT Civil & Survey TRAIL SOLUTIONS IMBA SWTDESIGN

June - Community Open House

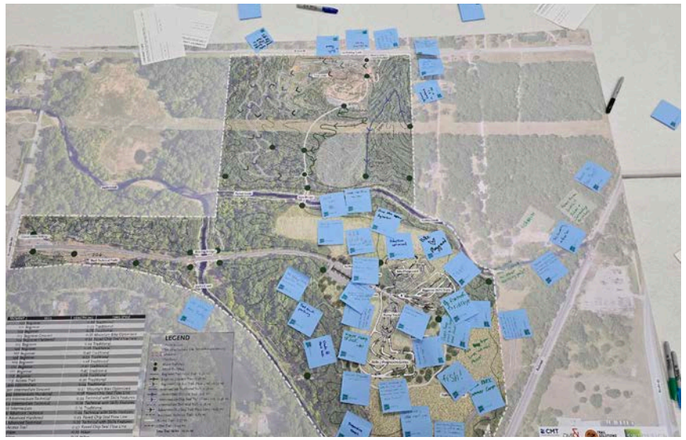
- **June 6 Community Open House at Joplin History & Mineral Museum with project site plan, supporting graphic boards, comment cards + online survey.**
  Meeting Attendance: 40-50
  Survey Responses: 117, including digital, in-person, and plan comments
  Comments included:

- **A great deal of excitement that a bike park would be built in town**

- **Very strong desire for bike/ped connectivity to neighborhoods and other parks (bike lanes, road improvements, new trails outside of project site)**
  Project team and City team both agree this is important to accomplish, but cannot accommodate on Day 1 without expanding the project scope into other public property and funding. The City is looking for future opportunities and funding sources.

- **Questions about ped/bike safety and separation on trails**
  The Projct team is reviewing biker/hiker separation currently as part of technical design, including signage and wayfinding, with priority given to bike users and planning for more separation and bike-only routes.

- **Interest in less total trail mileage, to spread investment across the various bike programs**
  City team understands there is a high mileage of trails for this acreage of site, but this is a feature of the ARPA grant that is important to maintain.







PROGRAM ELEMENTS

Schematic Plan

W Zora St

20 Parking Spots

Flow Line Hub + Small Pavilion

Flow Lines

Joplin Creek

Turkey Creek

New Bridge

Gravel Entry Parking

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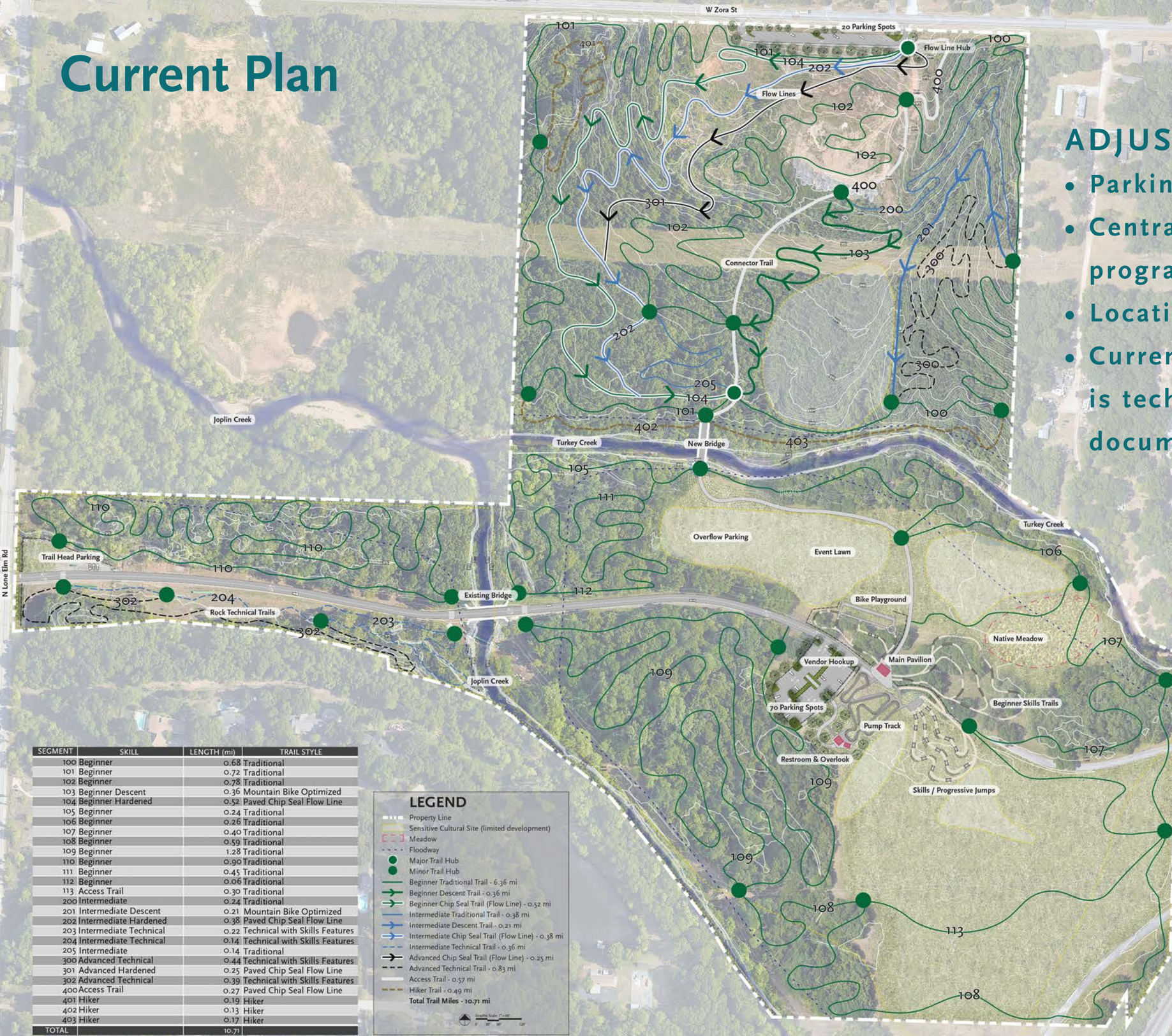
JOPLIN MISSOURI

CMT Civil & Survey TRAIL SOLUTIONS IMBA SWTDESIGN

Current Plan



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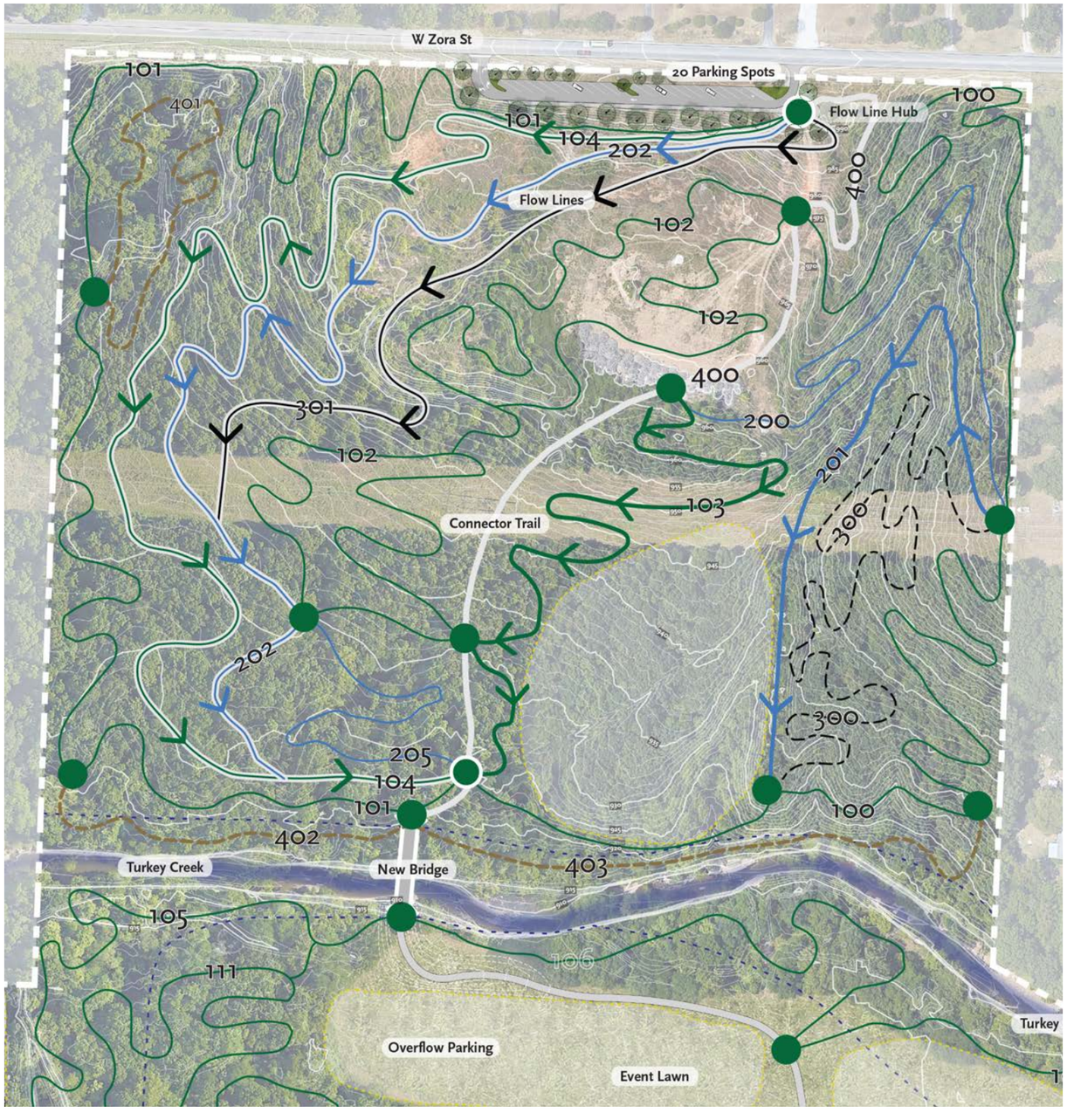
ADJUSTMENTS

- Parking Layouts
- Centralize / compact core programs + refine sizing
- Location of structures
- Current focus of the project is technical refinement and documentation

Trail Design



ADJUSTMENTS

- Minimal change to Schematic trail alignments
- Design team is looking at hike / bike conflicts, with cyclists given priority
- If SHPO agrees with Missouri State University's Cultural Assessment, north side cultural site acreage could be opened up to trails
- Continue to maximize trails based on topography

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Trail Design

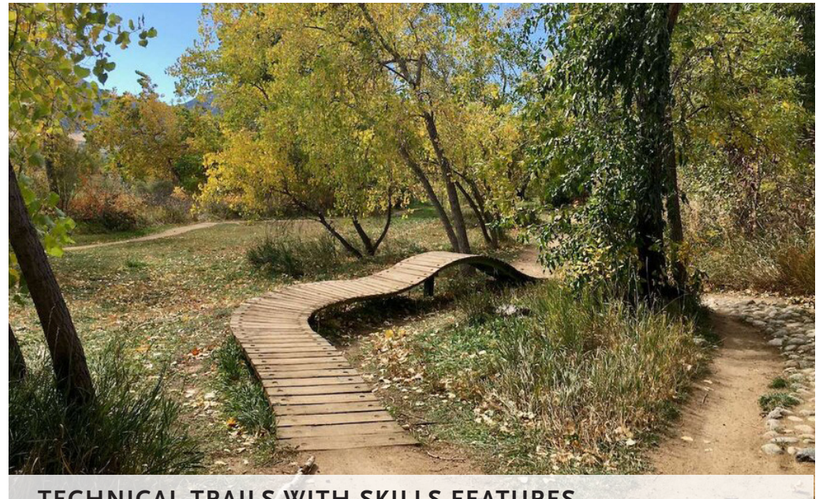
PRIMARY TRAIL TYPES:



ALL-WEATHER CHIP SEAL PAVED FLOW LINE



BIKE-OPTIMIZED NATURAL SURFACE TRAILS

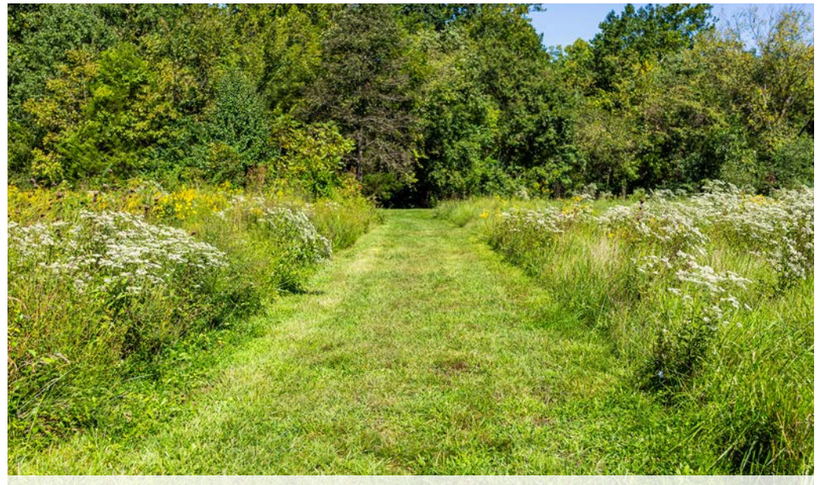


TECHNICAL TRAILS WITH SKILLS FEATURES

SECONDARY TRAIL TYPES:



TECNICAL TRAILS WITH ROCK FEATURES



MOWED MEADOW TRADITIONAL TRAILS

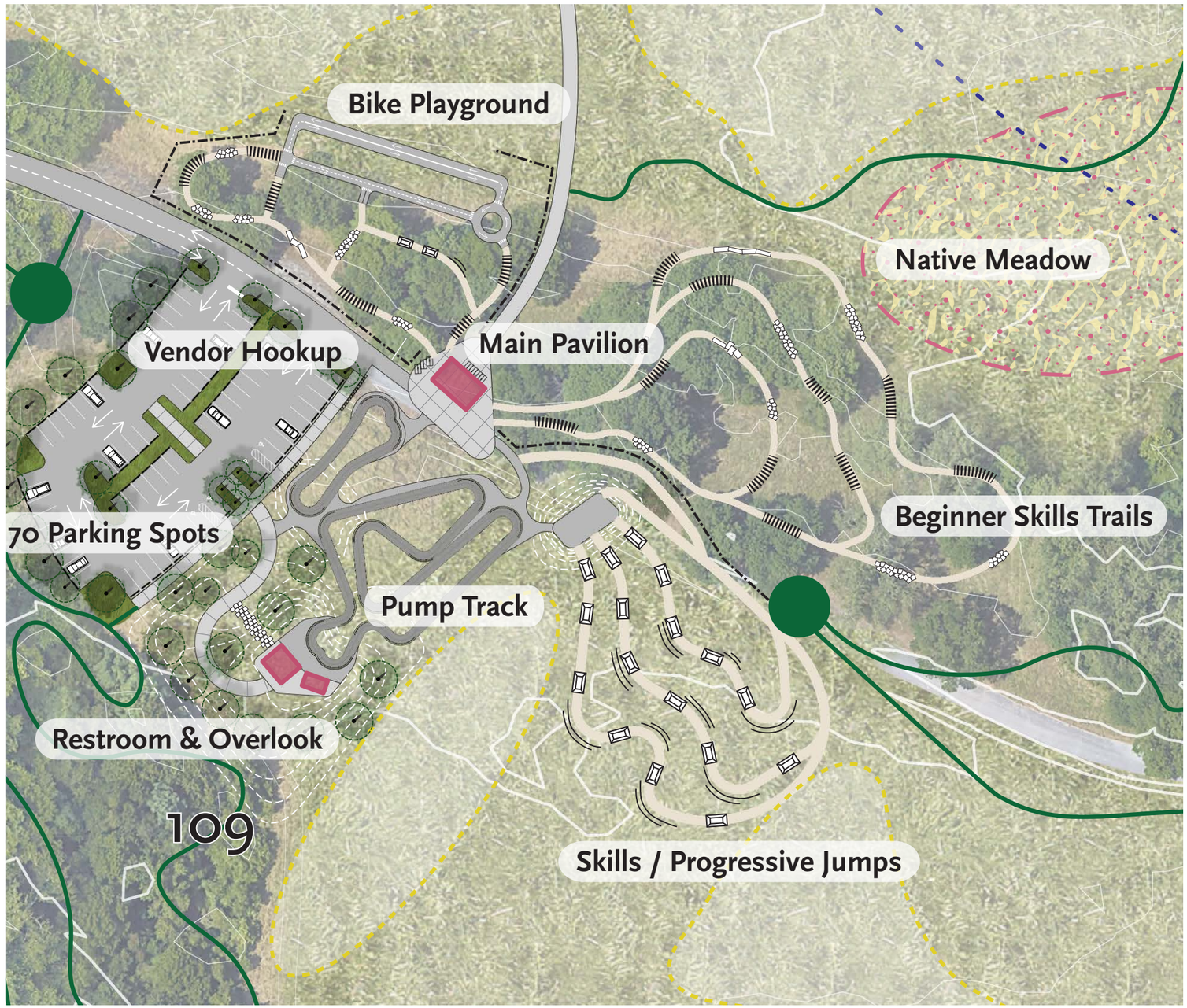


HIKER TRADITIONAL TRAILS

South Program Hub







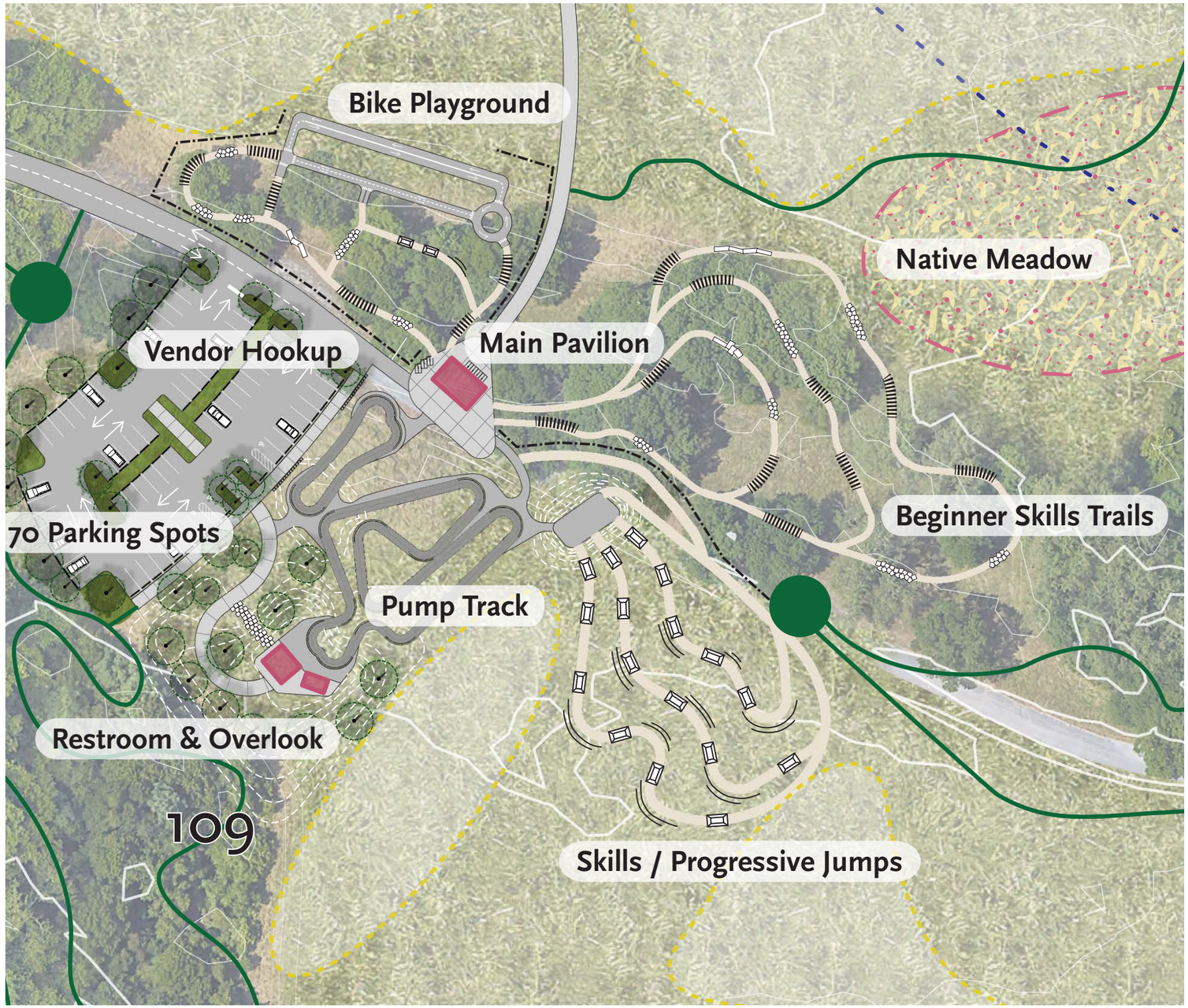
- Centralized design closer to parking and Main Pavilion
- Created a shaded overlook with seating at Pump Track
- Weave Bike Play & Beginner Bike Skills areas into existing open shade



South Program Hub



Final Colors and Finishes to be Selected in Construction Documents Phase



- Restroom is elevated above BFE, and winterized for year-round use.
- Paved access north to the Bridge/Turkey Creek
- Progressive Jump Lines an additional set of skill building for medium/ advanced riders.



Final Colors and Finishes to be Selected in Construction Documents Phase



Next Steps / Milestones

- Cost Opinion & Reconciliation (current/ongoing)
- Technical Documentation (current/ongoing)
- Construction Bid Set submitted to City: 9/20
- Project Released to Bidders: 10/7
- Bids Opened: 11/1
- City Council Session to Approve Contract: 12/2