

Parks & Recreation Commission Meeting

February 21, 2008

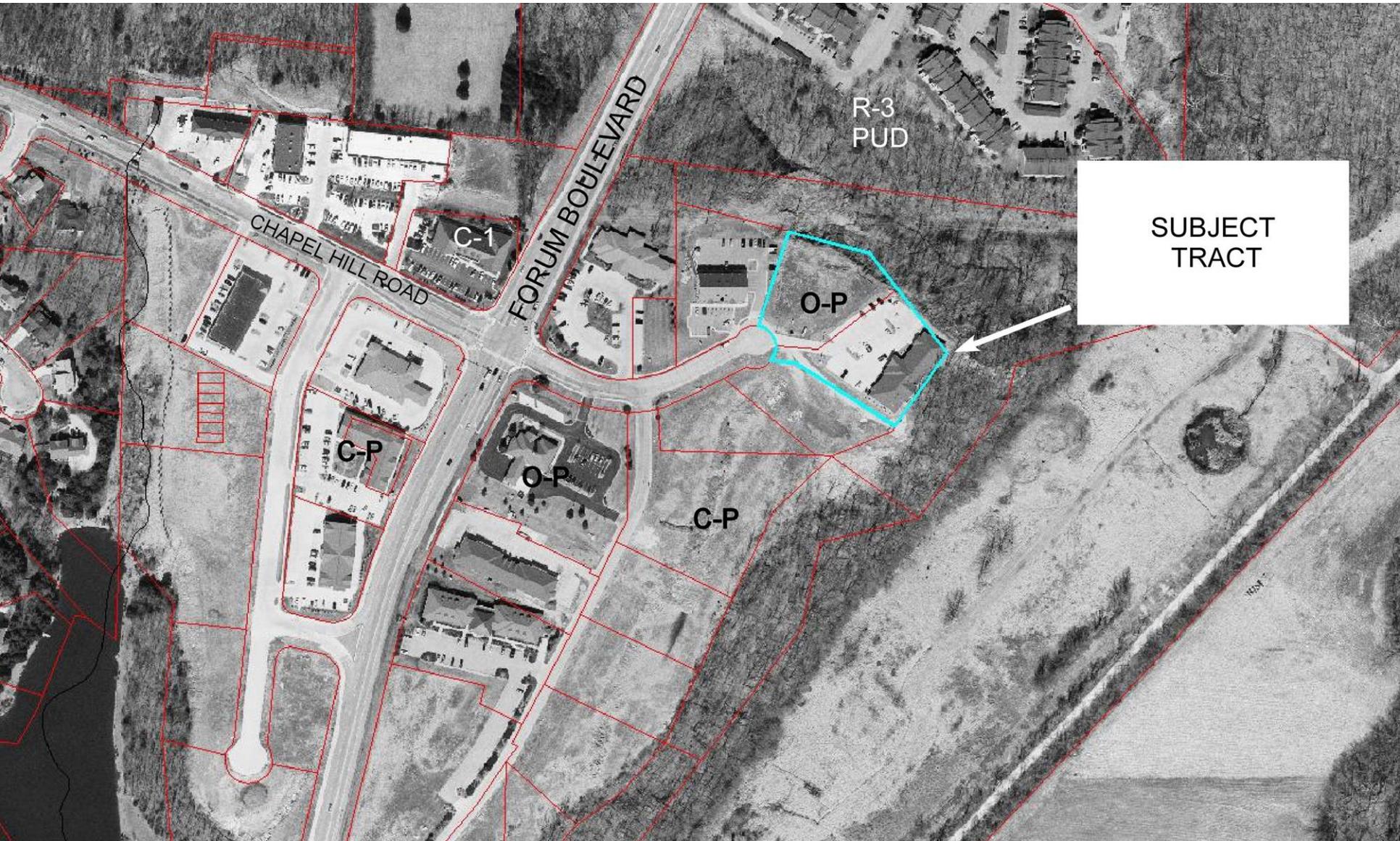




Agenda – February 21, 2008

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|---|--------|
| 1. Approval of Agenda | Action |
| 2. Approval of Minutes from January | Action |
| 3. Approval of January Monthly Report | Action |
| 4. Rezoning – Chapel Hill | Action |
| 5. Rezoning – ABC Labs | Action |
| 6. Get About Columbia Trail Design Guidelines Draft | |
| 7. Council Items | |
| 8. Capital Project Update | |
| 9. Commission Comments | |
| 10. Staff Comments | |
| 11. Public Comments | |

4. PRIMA Chapel Hill Rezoning

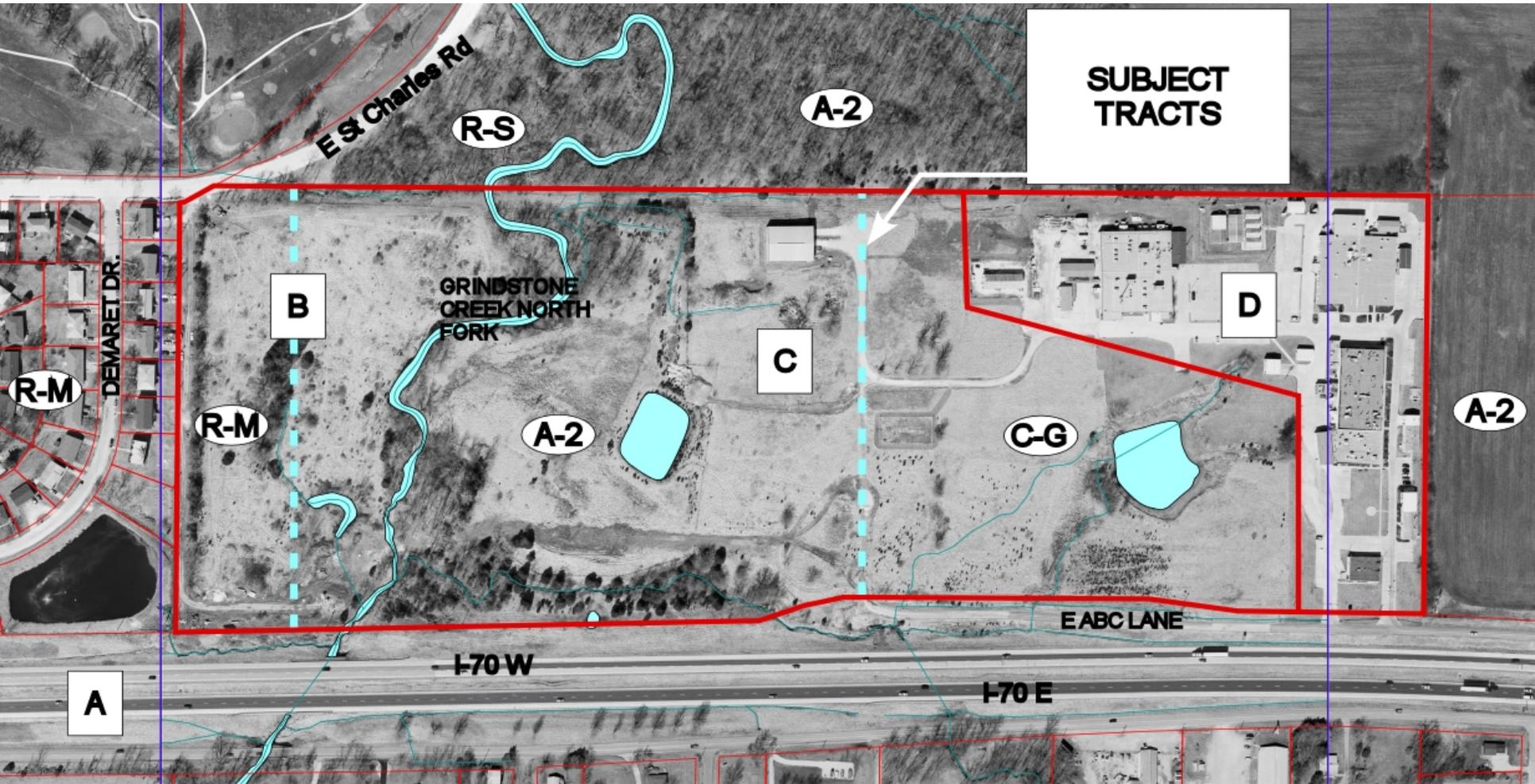




4. PRIMA Chapel Hill Rezoning

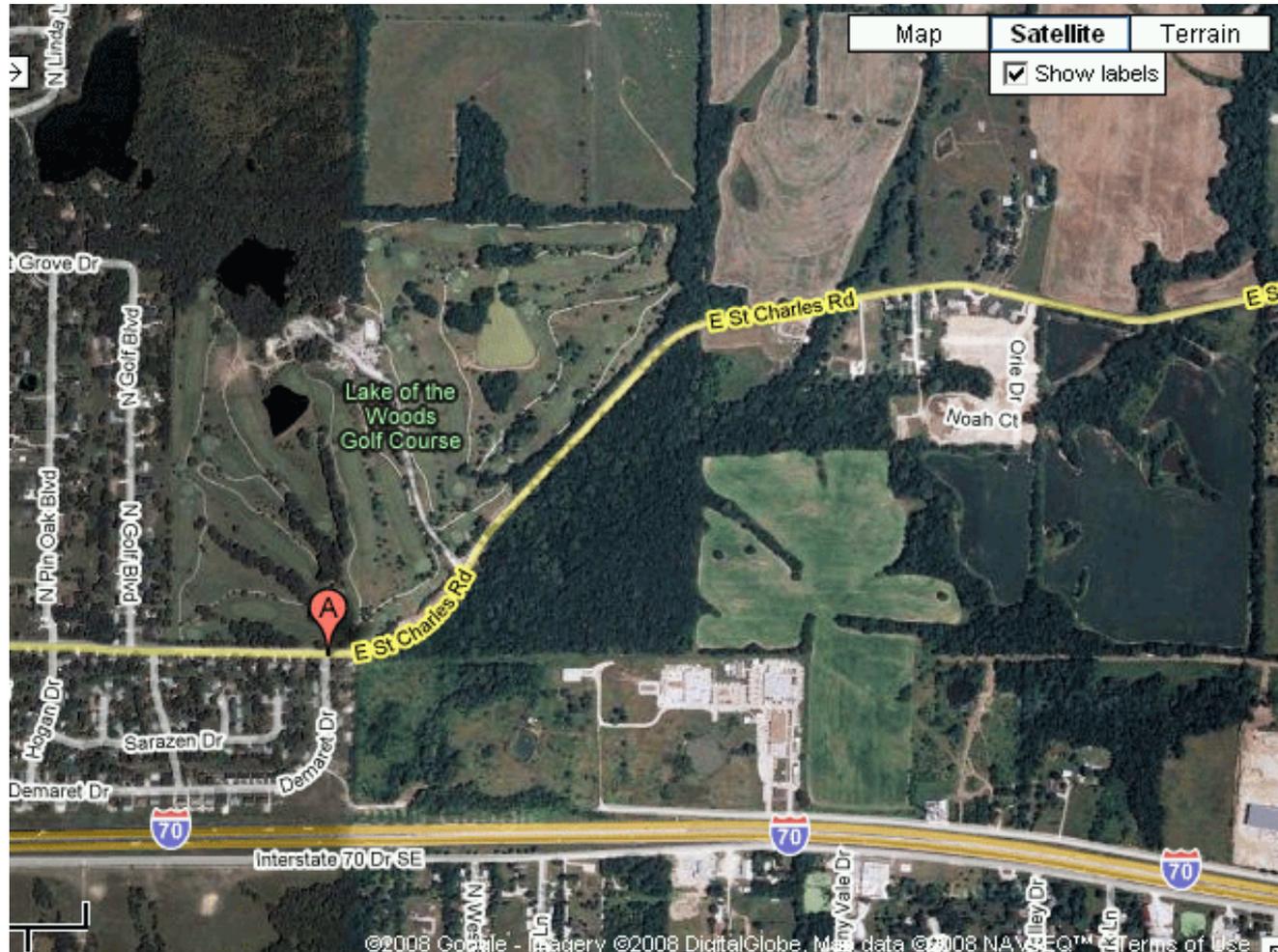
- Rezone 2 lots from O-P to C-P.
- Within half-mile boundary of the MKT Trail.
- Both properties are developed and used as offices. Room for an additional parking lot.
- Rezoning is to allow for more marketing opportunities and to better fit with surrounding C-P zoning.
- Recommendation: Staff does not foresee any adverse impacts to the park.

5. ABC Labs Rezoning

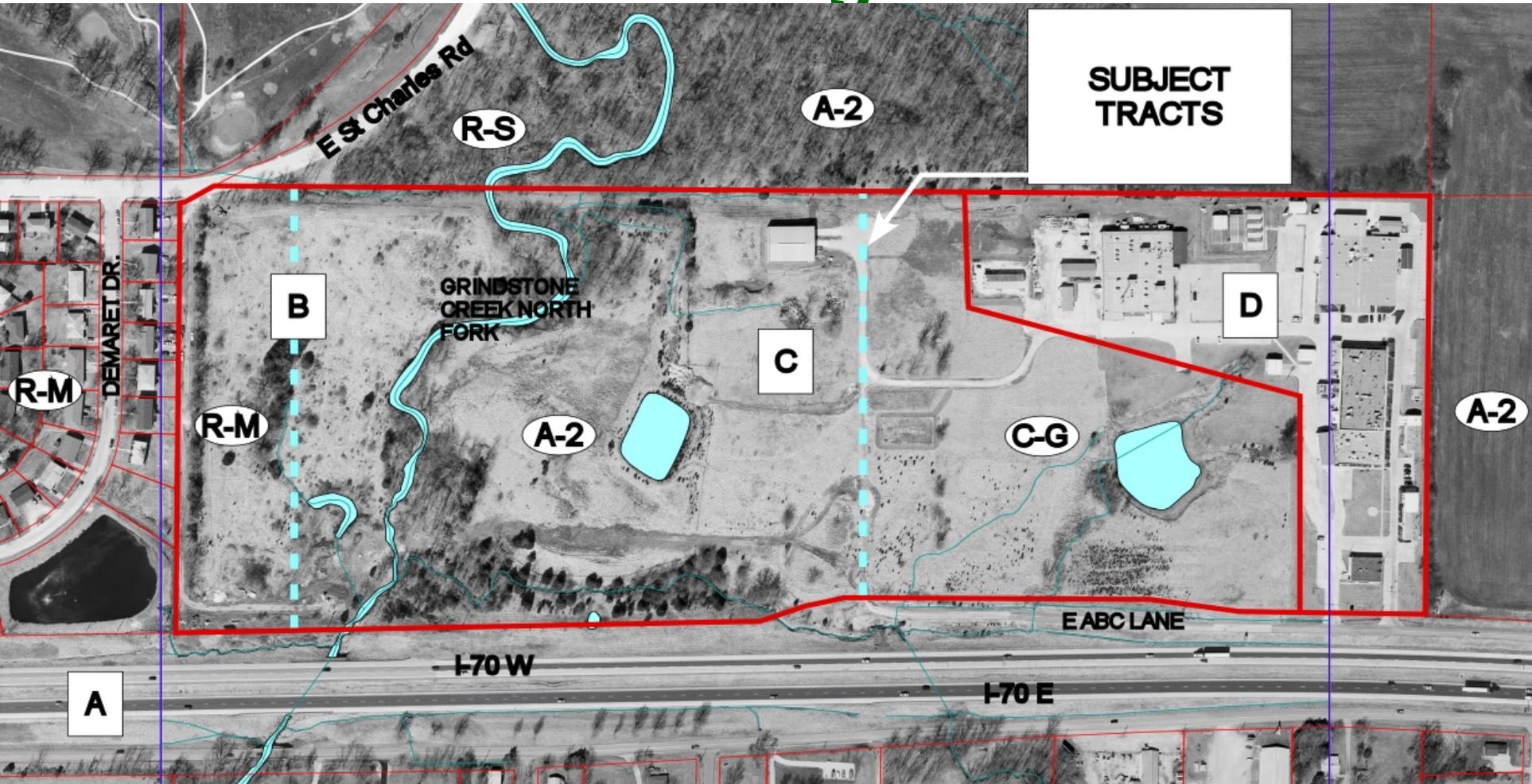


5. ABC Labs Rezoning

- Property consists of 56.41 acres.
- Within half-mile boundary of the LOW Golf Course.
- Request due to voluntary annexation.

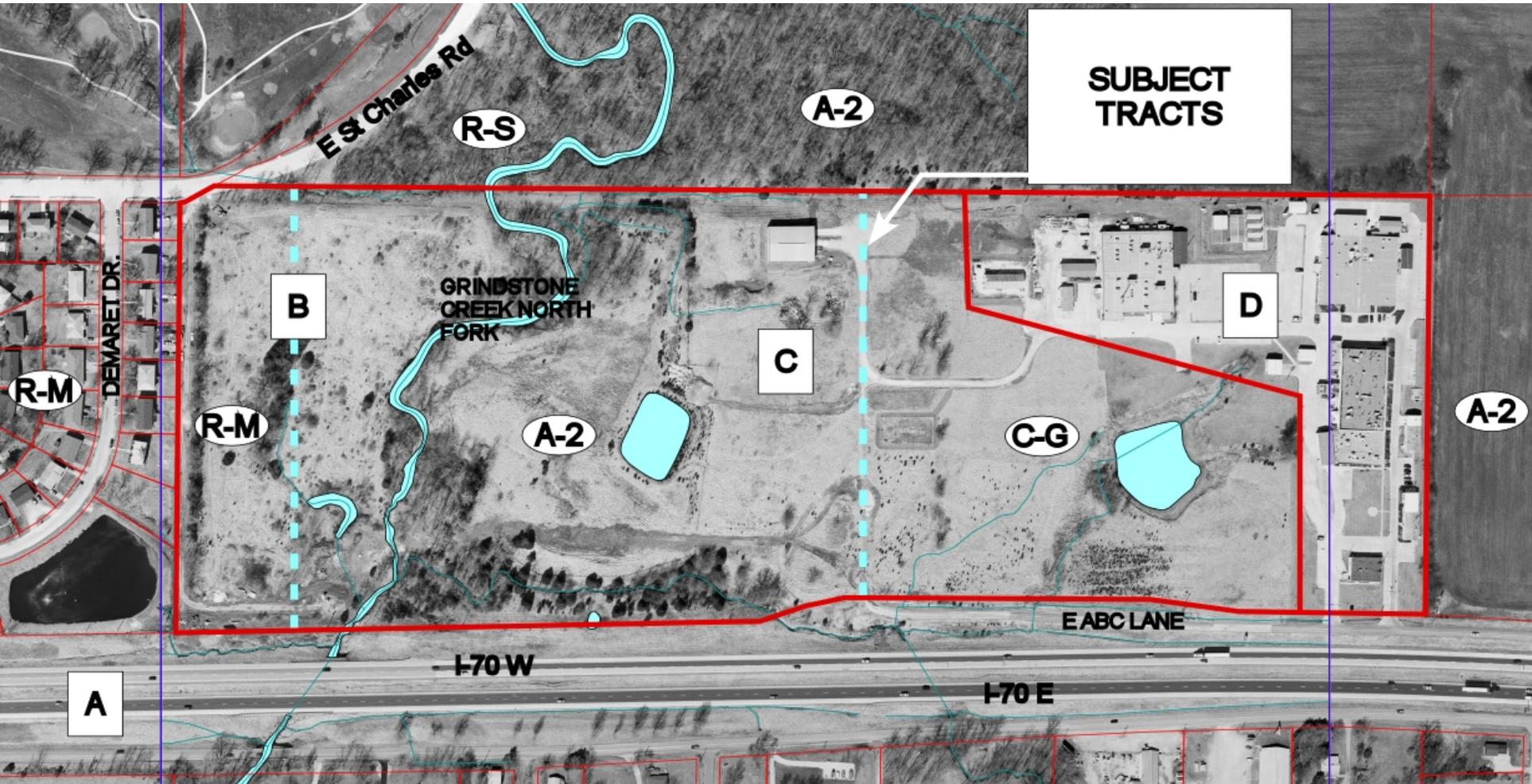


5. ABC Labs Rezoning



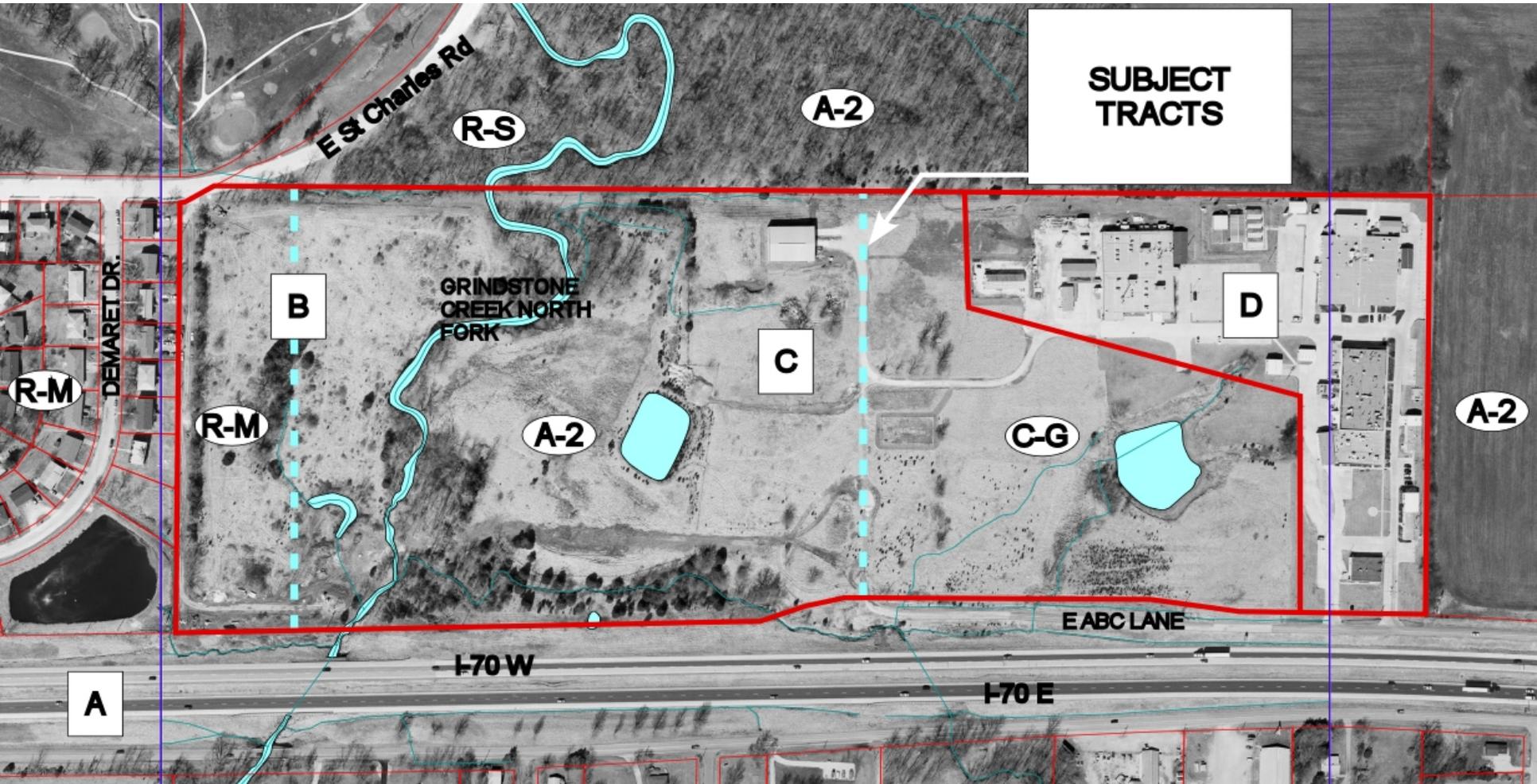
- Presently has county zoning of:
 - R-M: Moderate Density Residential (West line to dashed line)
 - R-S: Single Family Residential (Dashed line to creek)
 - A-2: Agriculture (West of creek to dashed line)
 - C-G: General Commercial (East of dashed line to east edge)

5. ABC Labs Rezoning



- Requested Zoning
 - Tract B: O-P (Planned Office) --- West of Grindstone Creek
 - Tract C: M-P (Planned Industrial) --- East of Creek/West of D
 - Tract D: M-C (Controlled Industrial) --- Buildings

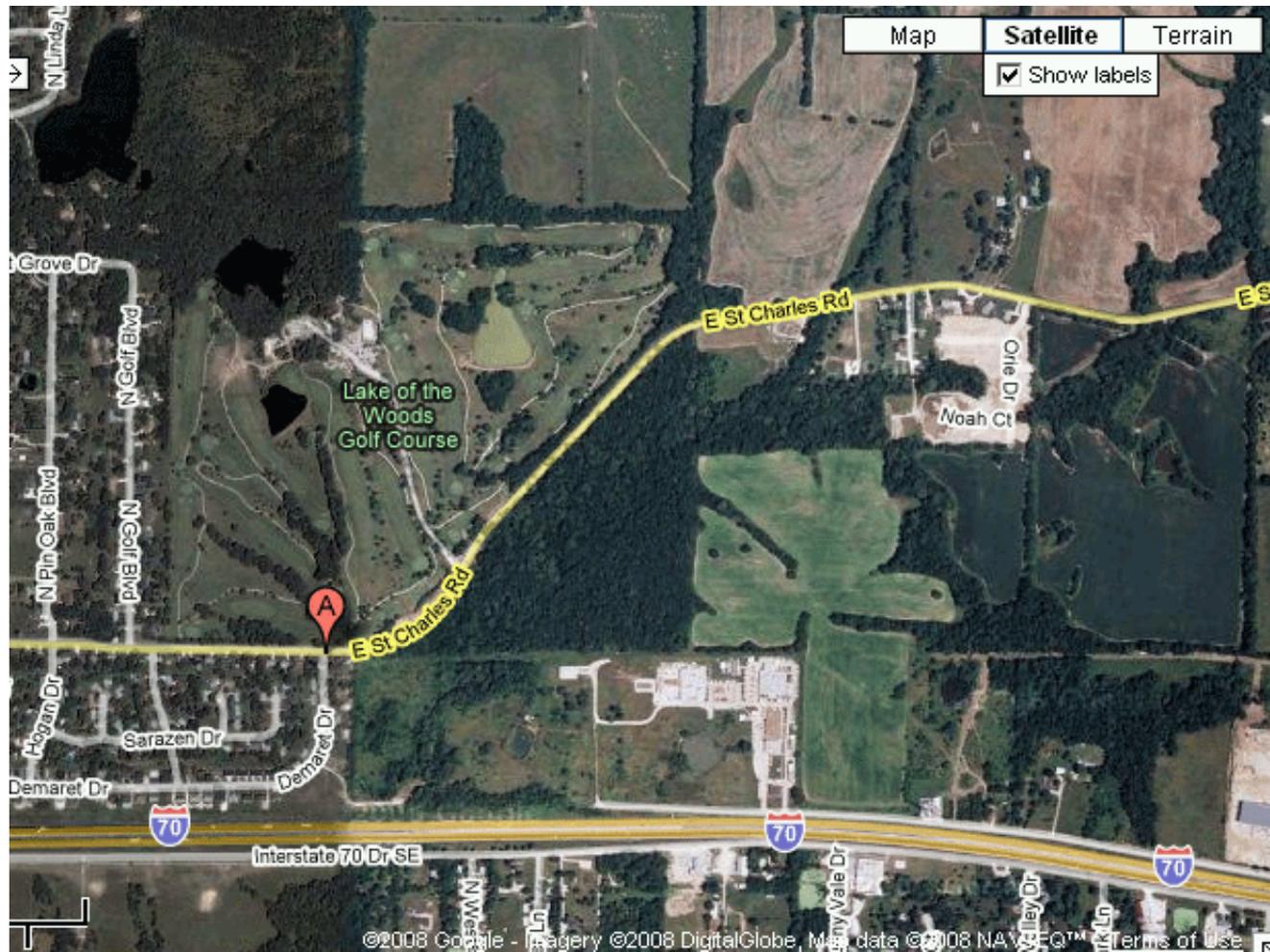
5. ABC Labs Rezoning—second issue



- North Fork of the Grindstone Creek
 - Drains away from LOW
 - Possible future trail corridor

5. ABC Labs Rezoning

- Recommendation: Staff does not foresee any adverse impacts to the park.
- May want to consider: Request a trail easement as part of the North Fork of the Grindstone Creek trail buffer zone.





**Trail Design Guidelines for Recreational and
Non-Motorized Transportation on Multi-Use Paths**

**February 8, 2008
DRAFT**

Prepared by:
Get About Columbia/City of Columbia staff

Reviewed by:
*GetAbout Columbia Citizens Advisory Committee
City of Columbia Bicycle and Pedestrian Commission
City of Columbia Disabilities Commission
City of Columbia Park and Recreation Commission*

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Summary and Background:

The City of Columbia is receiving approximately \$22 million in federal funds over a four-year period for the Non-Motorized Transportation Pilot Program now called the *GetAbout Columbia*. The goal of this pilot project, as mandated by federal legislation (119-59 Sec 1807), is to:

... develop a network of... transportation facilities, including sidewalks, bicycle lanes, and pedestrian and bicycle trails...

with the purpose of demonstrating how much walking and bicycling can replace car trips. Non-motorized trips can be accomplished using sidewalks, bike paths and dedicated recreational/non-motorized trails.

Since the inception of the pilot program, there has occurred an ongoing public discussion about whether new and existing trails should be paved or surfaced with gravel. If federal transportation funding is used new multi-use paths should be paved. Benefits of hard-surface trails include greater durability than gravel resulting in lower maintenance costs. Paved trails also allow for four-season usefulness and meet ADA requirements. Where possible, new paved paths will be 12 feet wide to reduce conflicts between bicyclists and walkers. Ten feet wide is the minimum recommended by federal AASHTO design guidelines and should be the minimum for multi-purpose trails in Columbia. Note: this does not include pedways which are classified as wide sidewalks.

Separate accommodations for walkers and runners will be considered either using a wide gravel shoulder or a separate gravel side path. This will reduce pedestrian/bicycle conflicts and result in more capacity for bicycle traffic. All paving materials shall conform to the City of Columbia's Street and Storm Sewer Specifications and Standards (Revised January 2001).

These guidelines shall apply primarily to those new trail projects using federal funding with the intent of increasing non-motorized transportation. Design of trail projects after the pilot project is completed may still refer to these guidelines. This guideline is not intended for single path trails intended solely for recreation.

1. Specifications for Major Trails

Major Trails Definition: Connectors from one portion of the City to another, typically over ½ mile long.

New major trails constructed by the City of Columbia shall consider the following standard specifications and be compliant with the Americans with Disabilities Act:

- **Surface material:** Paved with concrete.
- **Hard surface width:** 12 feet.
- **Concrete Color:** Light brown.
- **Centerline:** None proposed at this time.
- **Design standards:** 4 inch minimum thick concrete reinforced with #4 rebar placed 24 inch on center.
- **Base:** Subsoil shall be graded and compacted with additional ¾ inch rollstone used where needed to level and firm trail a compacted base.
- **Shoulder:** Where feasible, new trail construction shall use 2 ft minimum backfill with ¾ inch rollstone. For runners and walkers, a 5 ft wide side path constructed of ¾ inch rollstone is preferred on one side or both. Alternate: In lieu of a 5 ft paved shoulder, a separate 6 ft wide gravel trail with a 6 inch gravel base using 3 inch surface rock topped with 3 inches of ¾ inch surface rock can be provided.
- **Grade:** New city trails shall avoid construction at locations where the sustained grade is greater than 10% over a 1,000 ft span.
- **Overhead clearance:** For new multi-use trails, overhead clearance shall be maintained by the City or its contractors to a height of at least 8 feet.
- **Buffer zones:** To avoid erosion problems near lakes, streams and other portions of the drainage network, new City of Columbia trails shall avoid being placed directly adjacent to any body of water's edge if possible. In areas where water may tend to wash over planned trail segments, trail shoulders shall be hard surface or have rip-rap composition. Stream crossings are to be avoided if possible. When it is not possible to avoid stream crossings, the City shall work to develop a stream crossing that minimizes environmental impacts and be in stable sections of a stream.
- **Motorized Roadway Crossings:** Roadway crossings create additional conflict zones and detract from the natural trail experience. For this reason in planning new City of Columbia trails and neighborhood connections all reasonable options shall be considered that avoid motorized roadway crossings. Where these crossings are unavoidable, City of Columbia staff shall work with the *GetAbout Columbia* office to develop solutions that increase driver awareness of upcoming conflict zone while enhancing bicyclist and pedestrian safety.
- **Soil study:** Different soil types have varying drainage abilities and erosion potential. When considering new locations for planned trails and trail connections, the City of Columbia shall review existing soil studies to determine if soils underlying the proposed route feature a composition that is well-drained and minimizes erodability.
- **Concrete cuts:** Expansion saw cuts shall be made perpendicular to all trails detailed here with cuts made at a length no longer than the width of the trail. Therefore, a 12 foot wide paved trail shall be cut every twelve feet as insurance against cracking.

Appendix 1 to these standards provides a cross section view of these specifications.



Major Trails: Recommended Design

Paved path with gravel shoulder for runners and walkers (shown above).

Major Trails: Alternate Design 1

Paved path features striped and paved shoulder for runners and walkers.
Used where erosion of gravel is a problem (shown below).





Major Trails: Alternate Design 2

A Dual Use Path (otherwise known as Heels and Wheels) is shown above. Here, an eight-foot paved path for bicyclists runs parallel to – and occasionally beside – a gravel path for runners and walkers.

Wayfinding

All new major trails in the City of Columbia will feature wayfinding signage (An example is seen at right). Wayfinding shall include mile markers at least every half mile. Street and neighborhood connections should be identified. Information kiosks, neighborhood entrance signs and destination signs shall be installed on all trail entrances as part of the pending *GetAbout Columbia* wayfinding plan.



2. Specifications for Neighborhood Connections

Neighborhood connections tie existing or new residential developments to new and existing City of Columbia recreational and non-motorized trails. These connections are generally less than ½ mile long. These connections are anticipated to have low to medium volume and shall be paved at sidewalk width (5 feet) or Pedway width (8 feet) depending on location. These options are detailed below:

A. Pedway Connector

Definition: A Pedway connector links one neighborhood or subdivision with another, is under ½ mile long, and placed where there is expected to be medium to heavy use. At some locations grade changes may require maneuvering on a bicycle. See photo on next page.

Suggested design specifications:

- Hard surface width: 8 feet (may be larger on turns)
- Concrete Color: natural
- Centerline: none proposed
- Design standard: 4 inch minimum thick continuous reinforcing, #4 rebar placed 24 inch on center.
- Base: Subsoil shall be graded and compacted with an additional ¾ inch rollstone used where needed to level and firm trail base
- Shoulder: none proposed
- Alternate parallel path: none proposed

B. Sidewalk Connector

Definition: A sidewalk connector links one neighborhood or subdivision with another. These pathways are generally under ½ mile long with expected moderate to light use and no significant grade changes.

Suggested design specifications:

- Hard surface width: 5 feet
- Concrete Color: natural
- Centerline: none proposed
- Design standard: 4 inch minimum thickness conforming to City sidewalk standards (Street Standards, section 234)
- Base: per standards
- Shoulder: none proposed
- Alternate parallel path: none proposed



Pedway Connector: 8 foot wide hard surface neighborhood connector

3. Standards for wayfinding markers

Information kiosks and neighborhood entrance and destination signs will be installed on trail entrances as part of the *GetAbout Columbia* wayfinding task. Kiosks will have maps of the system as well as “you are here” information.

Neighborhood entrance signs will identify the neighborhood or development and will have a small map showing what streets can be accessed from that connector.

The design standards for proposed Wayfinding Markers are being developed in 2008 as part of the *GetAbout Columbia* Promotion/Education subcontract.

4. Standards for landscaping

During final engineering design phase for every new trail, City staff and design consultants will perform an assessment of opportunities for low-impact landscaping enhancements. Possible low-impact landscape enhancements to consider at each site include, but are not limited to:

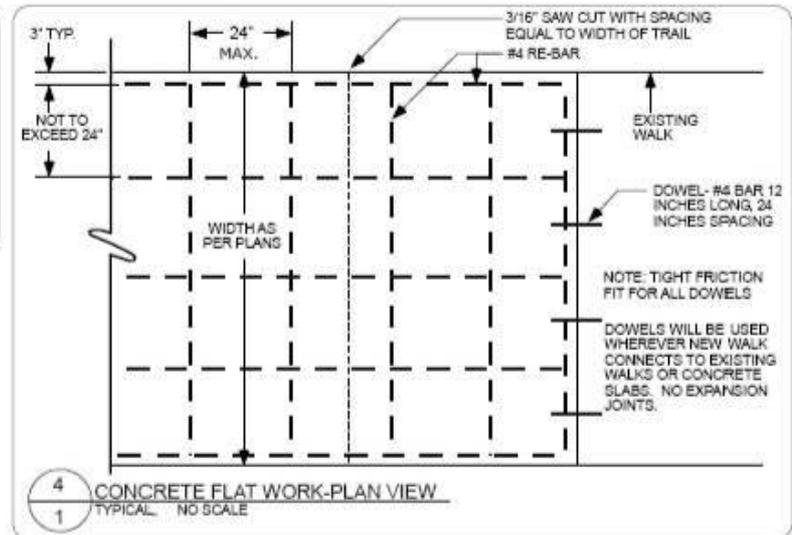
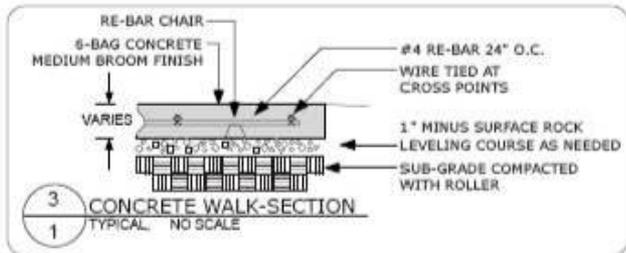
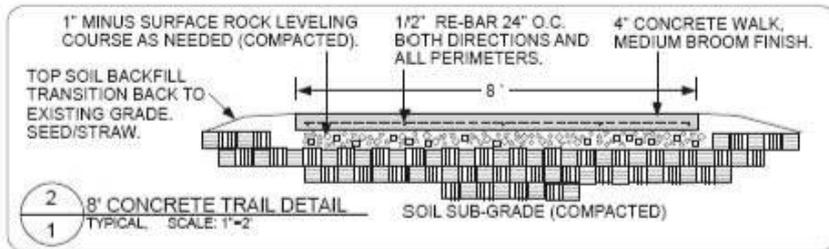
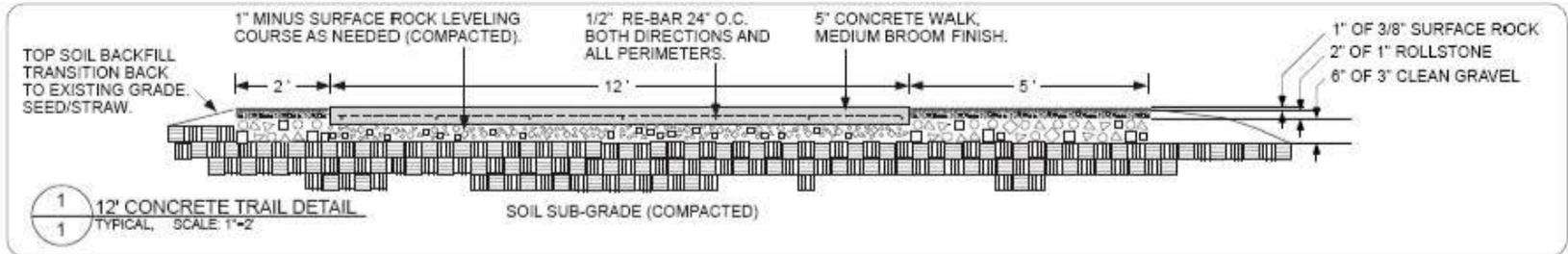
- Habitat plantings
- Tree plantings
- Rain gardens
- Stormwater detention
- Turf installation

5. Standards for amenities

During final engineering design phase for every new trail, City staff and design consultants will also perform an assessment of opportunities for site-specific amenities. These site-specific amenities include, but are not limited to:

- Automobile and bicycle parking
- Benches
- Interpretation and wayfinding signage
- Restrooms
- water mist spray stations for cooling
- Water fountains

Appendix 1: Columbia Trail Guidelines, Cross-Section View



GENERAL NOTES:

- ALL PROJECTS TO BE LAID OUT IN THE FIELD WITH OWNER.
- TYPICAL RUN SLOPES NOT TO EXCEED 5% 1/4" OF FALL PER 1' OF RUN CROSS SLOPE.
- 1" MINUS SURFACE ROCK AS LEVELING COURSE (AS NEEDED).
- NEW CONCRETE DOWELED INTO EXISTING CONCRETE WHEREVER WALK IS ADJACENT TO EXISTING CONCRETE. NO EXPANSION JOINTS REQUIRED.
- CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES.
- 6 BAG CONCRETE (UNIFORM), MEDIUM BROOM FINISH.
- ALL CURVES REQUIRE FLEXIBLE FORMS.
- CONCRETE WALKS TO BE SAW CUT (3/16" SAW CUTS) WITH SPACING EQUAL TO WIDTH OF TRAIL. WHERE SAW CUTS MEET OUTER EDGE AT AN ANGLE LESS THAN 45 DEGREES, STOP 6" SHORT AND CUT AT A 90 DEGREE ANGLE TO THE EDGE.
- BACKFILL, TOPSOIL, SEED AND STRAW BY CONTRACTOR.

CONCRETE TRAIL DETAILS
DRAWN BY: MSS 1-18-08
CITY OF COLUMBIA, MO PARKS AND RECREATION

Polar Bear Plunge 2008



Stephens Lake
Park

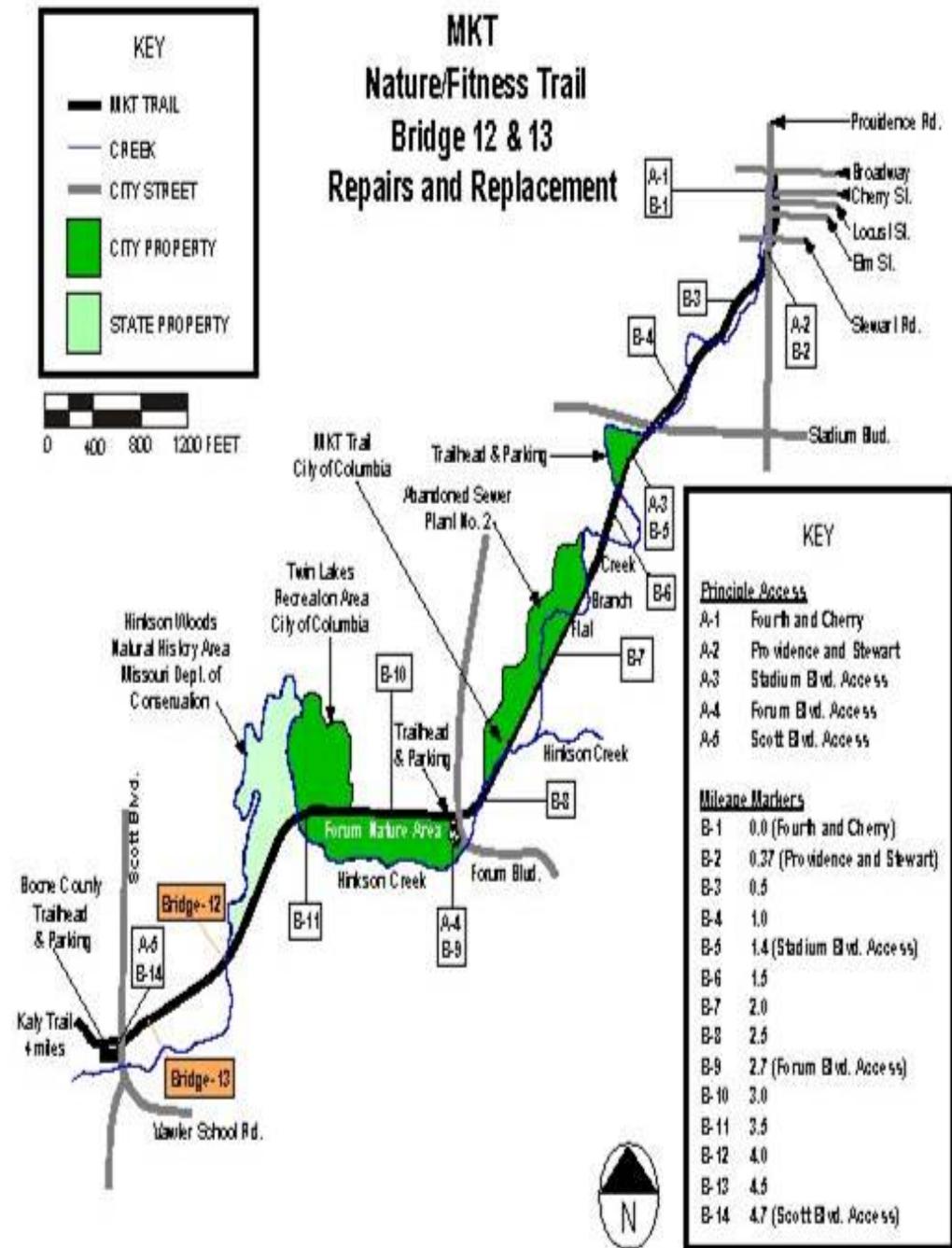


8. Council Items

- MKT Trail Bridges #12 and #13
- Garth Nature Area Parking Expansion
- Oakland Family Aquatic Center Slide
- ARC Parking Lot Lighting
- Cosmo-Bethel Tennis Courts



MKT Trail Bridges





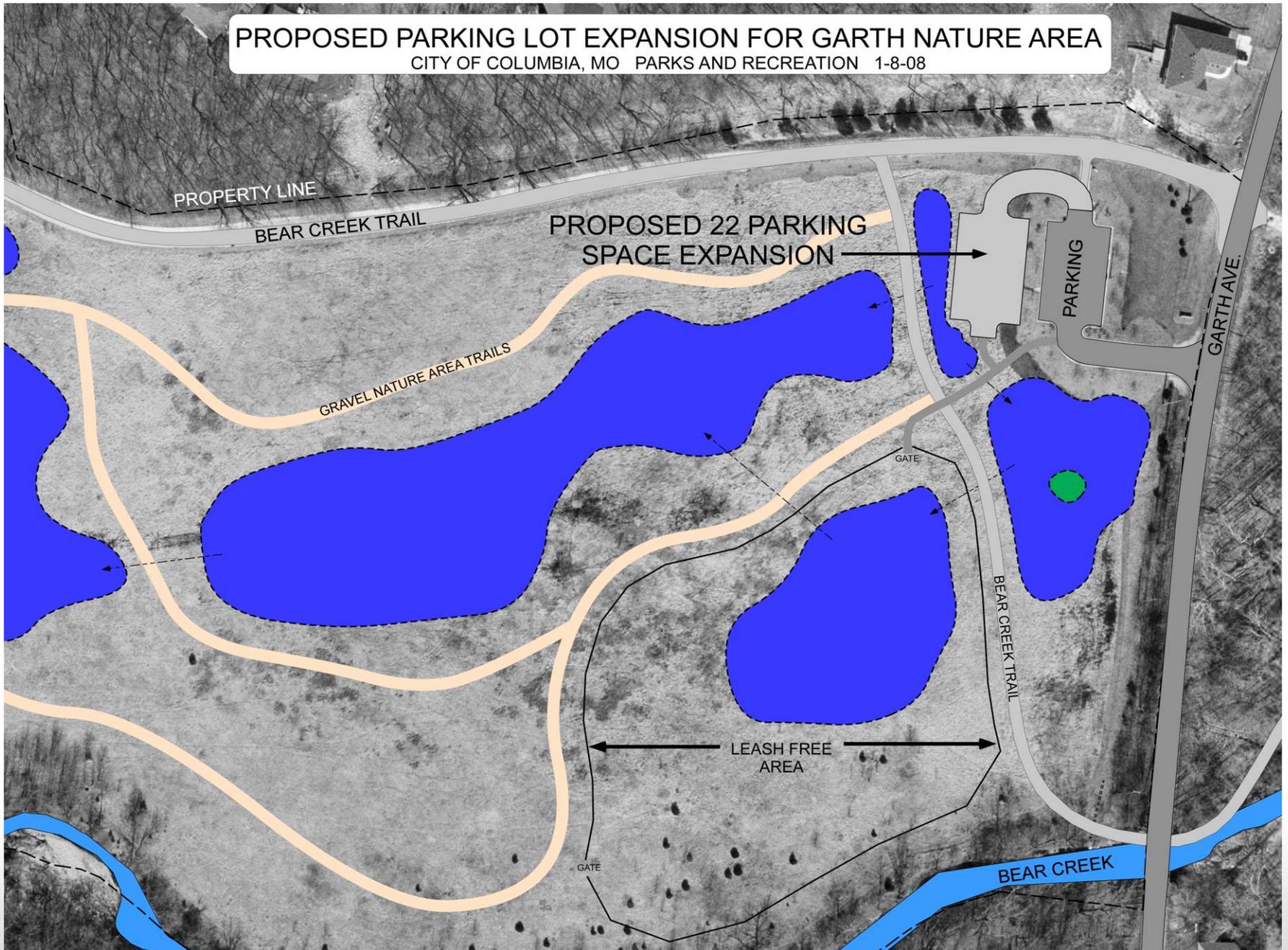
**MKT Nature/Fitness Trail
Existing Photos
Bridge No 12
2007**



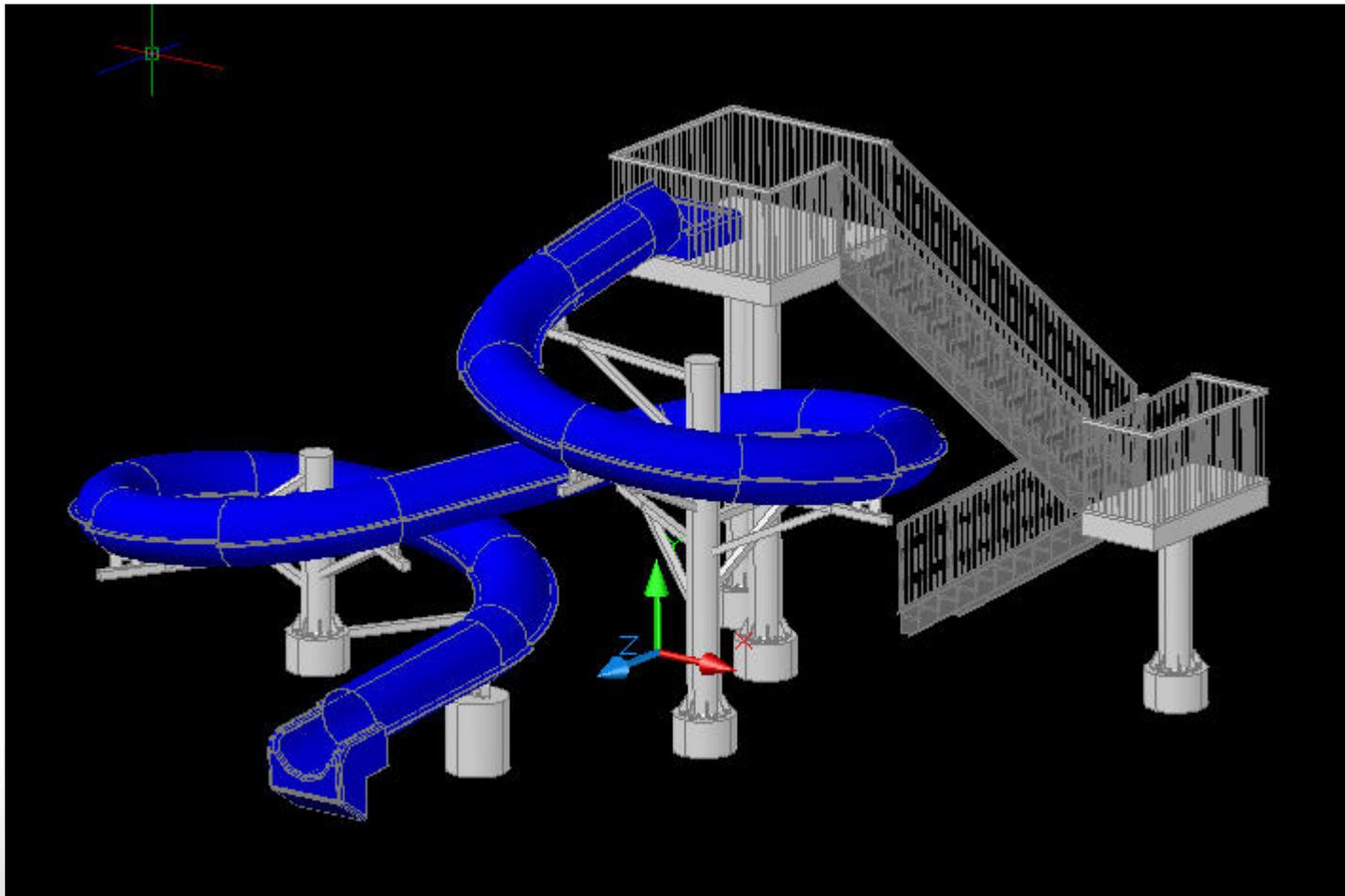
**MKT Nature/Fitness Trail
Existing Photos
Bridge No 13
2007**

PROPOSED PARKING LOT EXPANSION FOR GARTH NATURE AREA

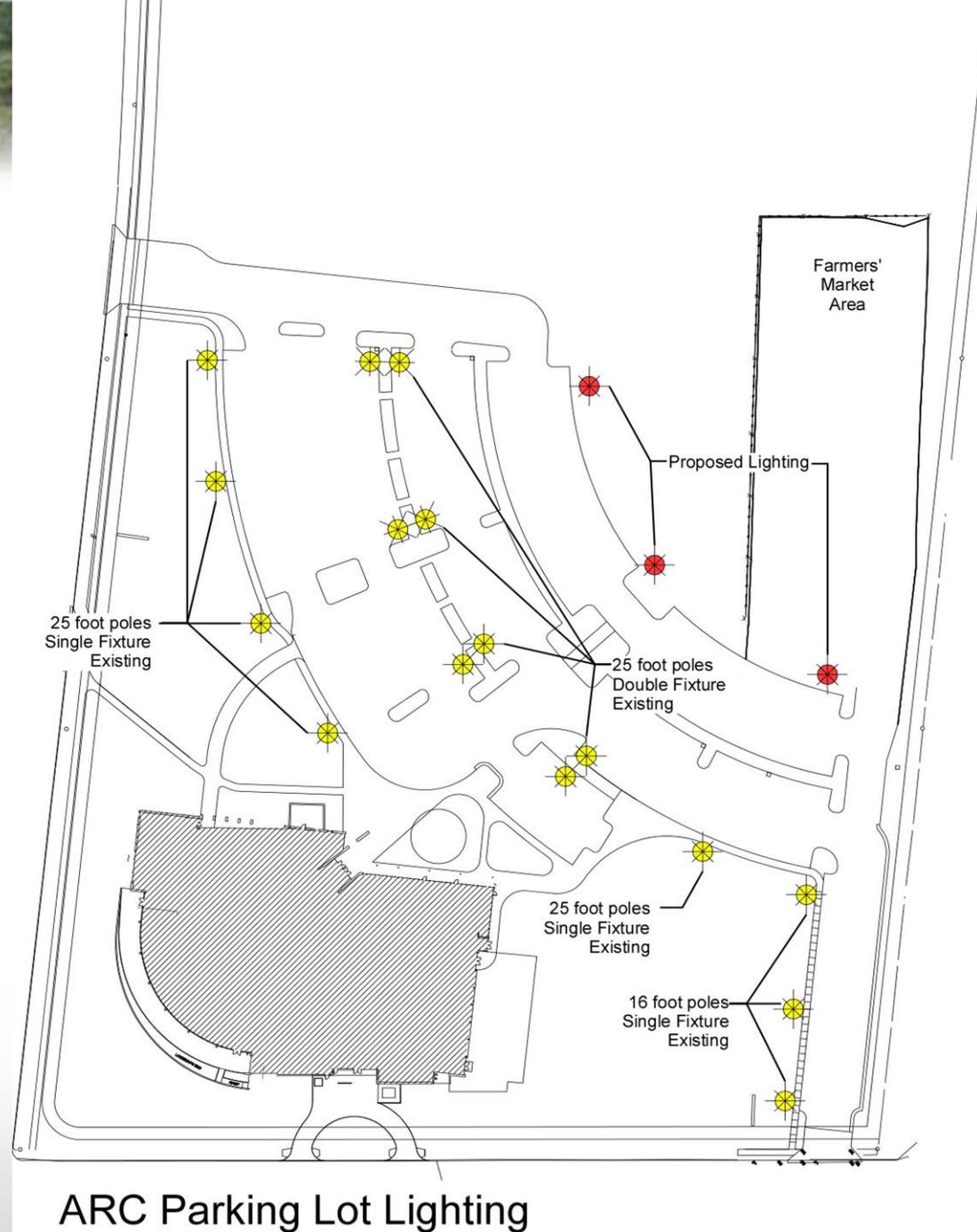
CITY OF COLUMBIA, MO PARKS AND RECREATION 1-8-08



Oakland Water Slide



ARC Lighting

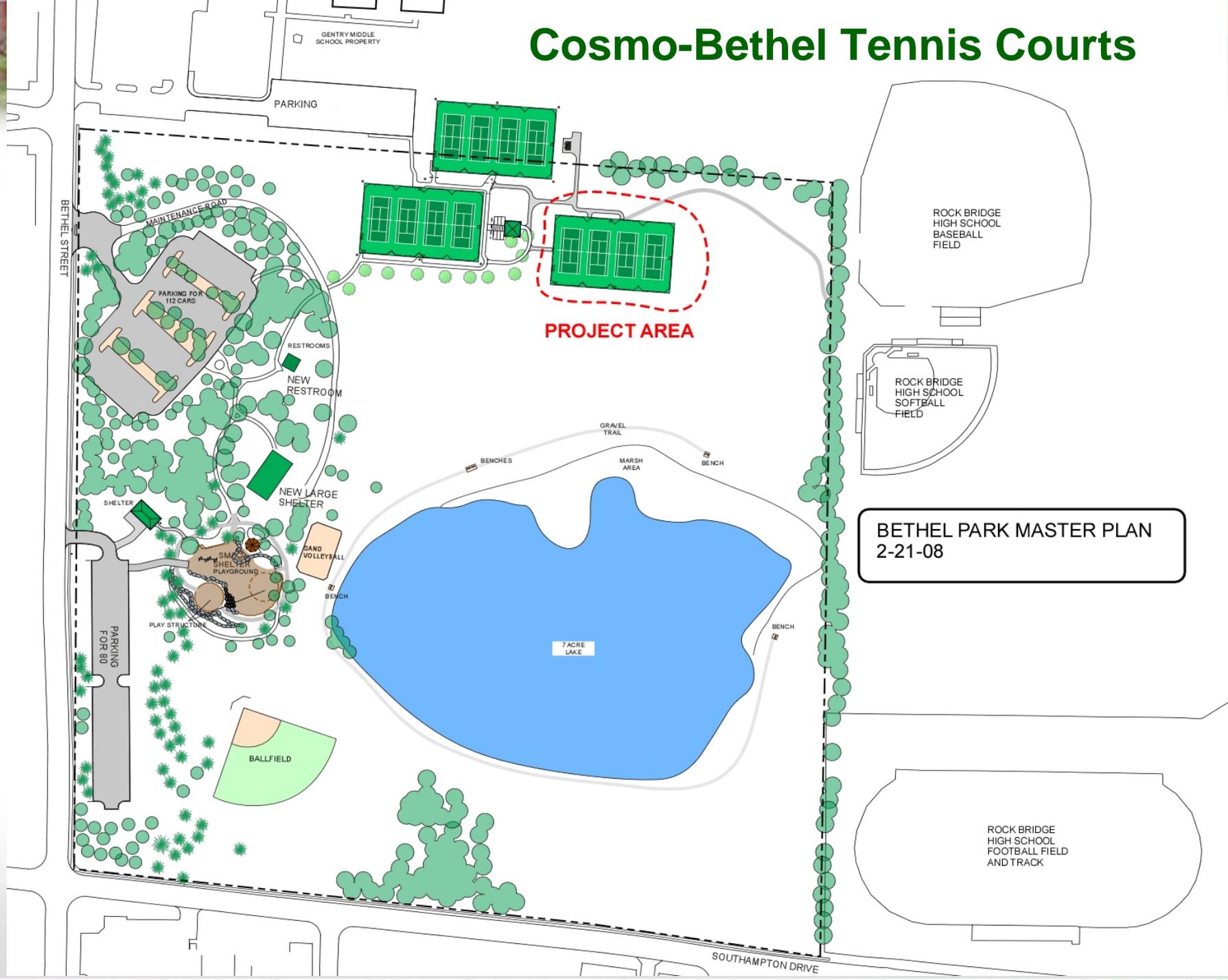


ARC Parking Lot Lighting

ARC Proposed Lighting

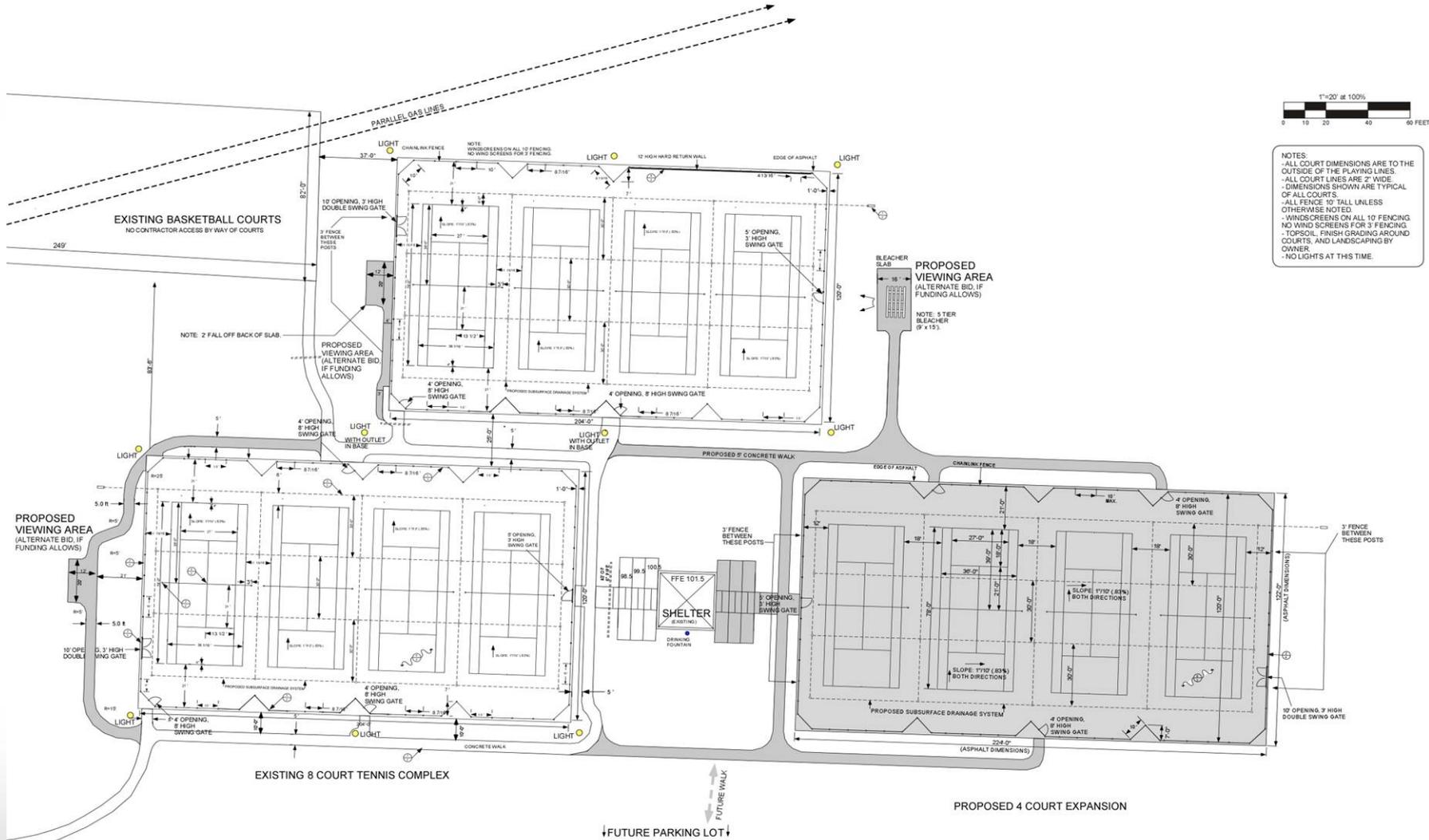


Cosmo-Bethel Tennis Courts



BETHEL PARK MASTER PLAN
2-21-08





NOTES:
 - ALL COURT DIMENSIONS ARE TO THE OUTSIDE OF THE PLAYING LINES.
 - ALL COURT LINES ARE 2" WIDE.
 - DIMENSIONS SHOWN ARE TYPICAL OF ALL COURTS.
 - ALL FENCE 10' TALL UNLESS OTHERWISE NOTED.
 - WINDSCREENS ON ALL 10 FENCING.
 - NO WIND SCREENS FOR 3' FENCING.
 - TOPSOIL FINISH GRADING AROUND COURTS, AND LANDSCAPING BY OWNER.
 - NO LIGHTS AT THIS TIME.



CITY OF COLUMBIA, MO
 PARKS AND RECREATION

DATE	REVISIONS:

DRAWN BY: MIKE SWYDER
 DATE: 2-5-08
 SCALE AS NOTED

NOTES:

TITLE: BETHEL PARK AND GENTRY MIDDLE SCHOOL TENNIS COMPLEX 4 COURT EXPANSION SITE PLAN

9. Capital Project Update



Cosmo-Bethel Shelter Demo



Again Street Park Stream Bank Stabilization



10 trees added

CCRA Harris Shelter

8 new trees along parking lot





MKT Trail Stewart/Providence

Limestone edging to retain rock mulch

PMC Office Addition

Breaking through interior wall



PMC Office Addition – Final Stages





PMC Office Addition

New ADA Restroom



Stephens Lake Activity Center



Cabinet installation at SLAC





10. Commission Comments

11. Staff Comments

12. Public Comments

Adjourned

A scenic view of a park with a pond, trees, and a gazebo. The trees are in autumn colors, and the gazebo is visible in the background. The pond is in the foreground, reflecting the trees and sky.

The Department of Parks & Recreation is committed to improving our community's health, stability, beauty, and quality of life by providing outstanding parks, trails, recreational facilities, and leisure opportunities for all Columbia citizens.