



LEWISVILLE

Deep Roots. Broad Wings. Bright Future.

Trails Master Plan & Parks, Recreation & Open Space Vision Plan

Blue Ribbon Bond Committee



Trails and Parks Vision Plan

Long Range Plan to be implemented over a number of years as funding allows

- Trails Master Plan
 - Plan Costs *\$75,692,000
- Parks, Recreation & Open Space Vision Plan
 - Plan Costs *\$130,838,909

**Note: Based on 2011 Dollars and the Projected Population of 111,168*

Trail Master Plan Benchmarks

- Lewisville's Current (Level of Service) LOS
 - 1 mile per 6,600 people
Ex. miles of trail = 14.96
- Lewisville's Target LOS
 - 1 mile per 2,500 people
- 2030 need for 44.5 miles of trails
 - Deficit of 29.54 miles

* Based on pop. 111,168

New Projections: 56,123
167,291

- 2030 need for 66.9 miles of trails
- Deficit of 52.9 miles
(deficit after funding of currently funded trails - 13.5 reduces to 16.04 miles)

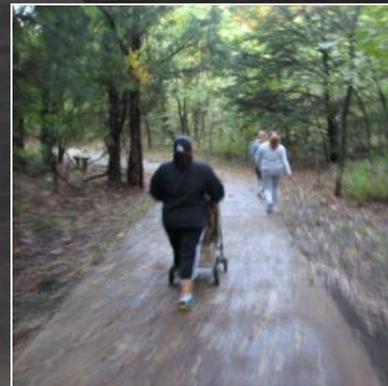
Table 3.1
Benchmark City Comparison

	Existing Miles of Trails	2009 Population (est.)	Population per Mile (LOS)
Carrollton	6	120,950	20,150
Coppell	6	39,550	6,600
Grapevine	22	47,950	2,200
Flower Mound	32	62,800	2,000
The Colony	5	40,100	8,000
Plano	56	263,800	4,700
Richardson	40	99,700	2,500
Average	--	--	6,600
Average (minus Carrollton)	--	--	4,300

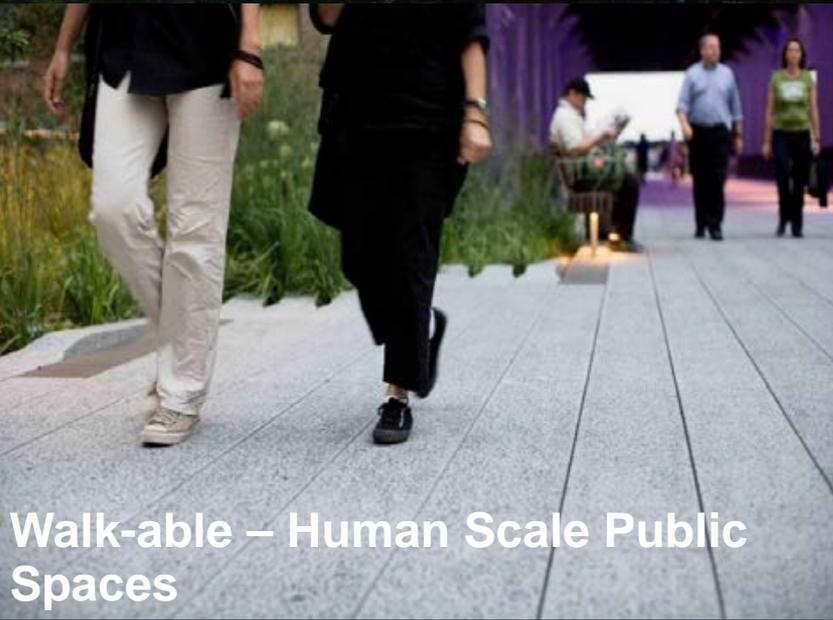
Source: North Central Texas Council of Governments 2009 Population Estimates; Various City Trail Maps and Master Plans

Facility Types & Networks

- In order to meet the needs of multiple users groups, multiple facility types are included:
 - Off-Street Trails & Shared-Use Paths
 - Sidewalks
 - Enhanced Sidewalks (wider sidewalks connecting trails)
 - Bike Routes & Facilities
 - Trail Heads & Access Points



Development Trends - Complete Streets



Walk-able – Human Scale Public Spaces



Bike Lanes



Seating

Development Trends – Shared Use Paths

Shared-use Path (the +’s)

- Multimodal Facility (bikes and pedestrians) for ALL users.
- Easily connects with other off-street facilities.

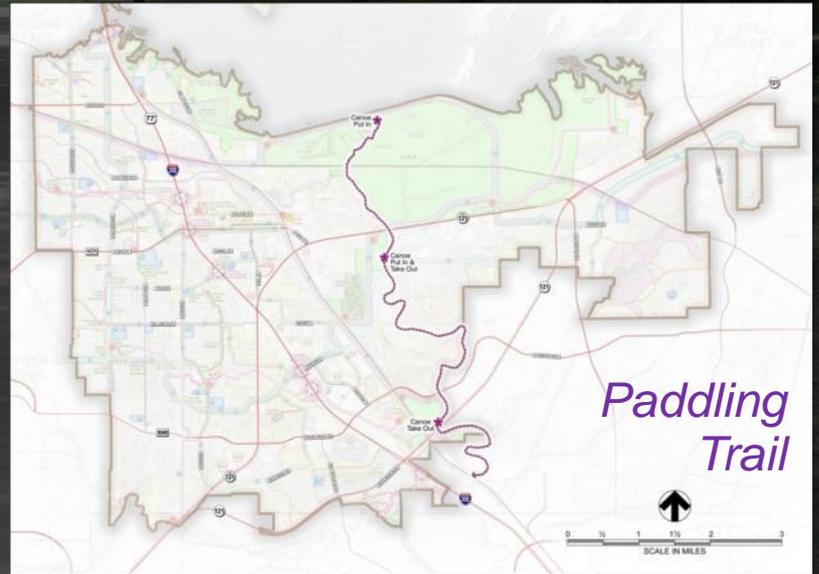
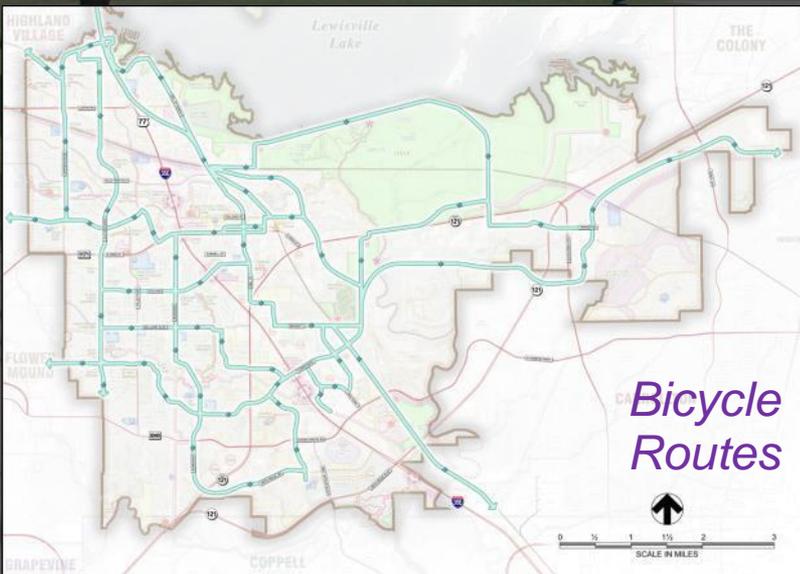
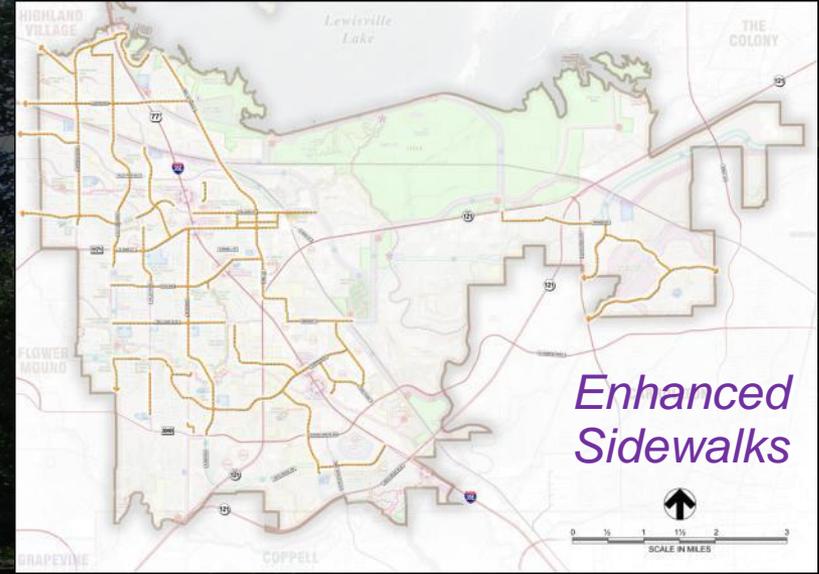
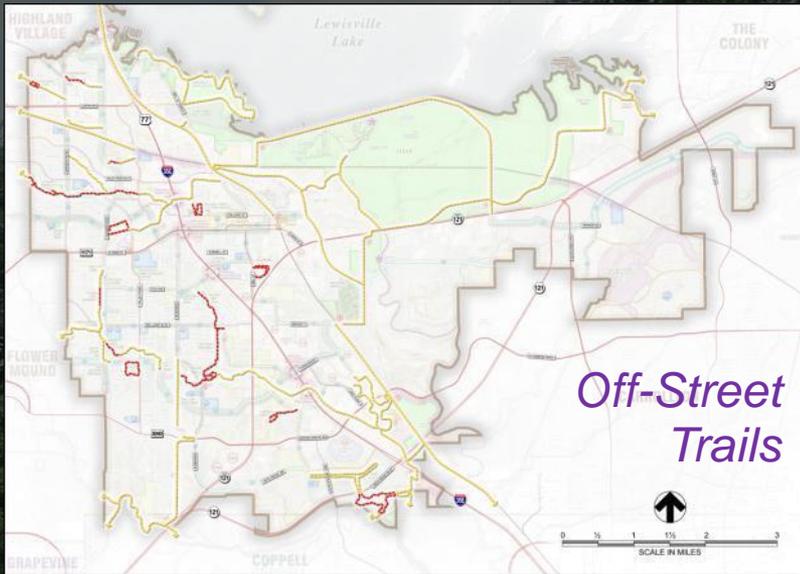


Shared-use Path (the -’s)

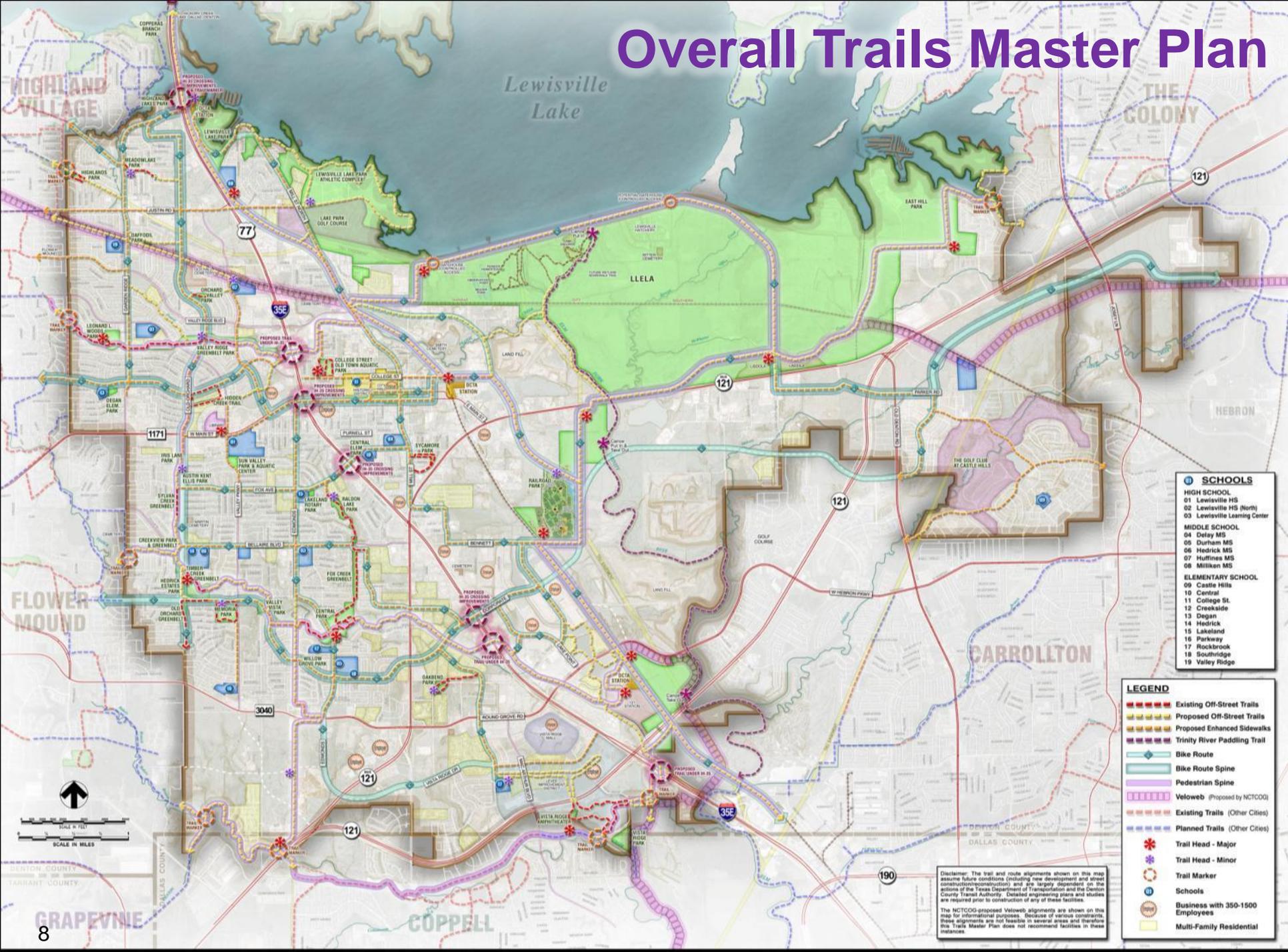
- Requires Additional R.O.W.
- Bi-Directional travel adjacent to roadway presents some challenges
- More experienced riders may choose to ride in the road/take the lane



Facility Types & Networks (continued)



Overall Trails Master Plan



- SCHOOLS**
- 01 Lewisville HS
 - 02 Lewisville HS (North)
 - 03 Lewisville Learning Center
 - MIDDLE SCHOOL
 - 04 Delay MS
 - 05 Durham MS
 - 06 Hedrick MS
 - 07 Huffines MS
 - 08 Milliken MS
 - ELEMENTARY SCHOOL
 - 09 Castle Hills
 - 10 Central
 - 11 College St.
 - 12 Creekside
 - 13 Degan
 - 14 Hedrick
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 - 16 Parkway
 - 17 Rockbrook
 - 18 Southridge
 - 19 Valley Ridge

- LEGEND**
- Existing Off-Street Trails
 - Proposed Off-Street Trails
 - Proposed Enhanced Sidewalks
 - Trinity River Paddling Trail
 - Bike Route
 - Bike Route Spine
 - Pedestrian Spine
 - Veloweb (Proposed by NCTCOG)
 - Existing Trails (Other Cities)
 - Planned Trails (Other Cities)
 - Trail Head - Major
 - Trail Head - Minor
 - Trail Marker
 - Schools
 - Business with 350-1500 Employees
 - Multi-Family Residential

Disclaimer: The trail and route alignments shown on this map assume future conditions (including new development and street construction/reconstruction) and are largely dependent on the actions of the Texas Department of Transportation and the Denton County Transit Authority. Detailed engineering plans and studies will be required prior to construction of any of these facilities.

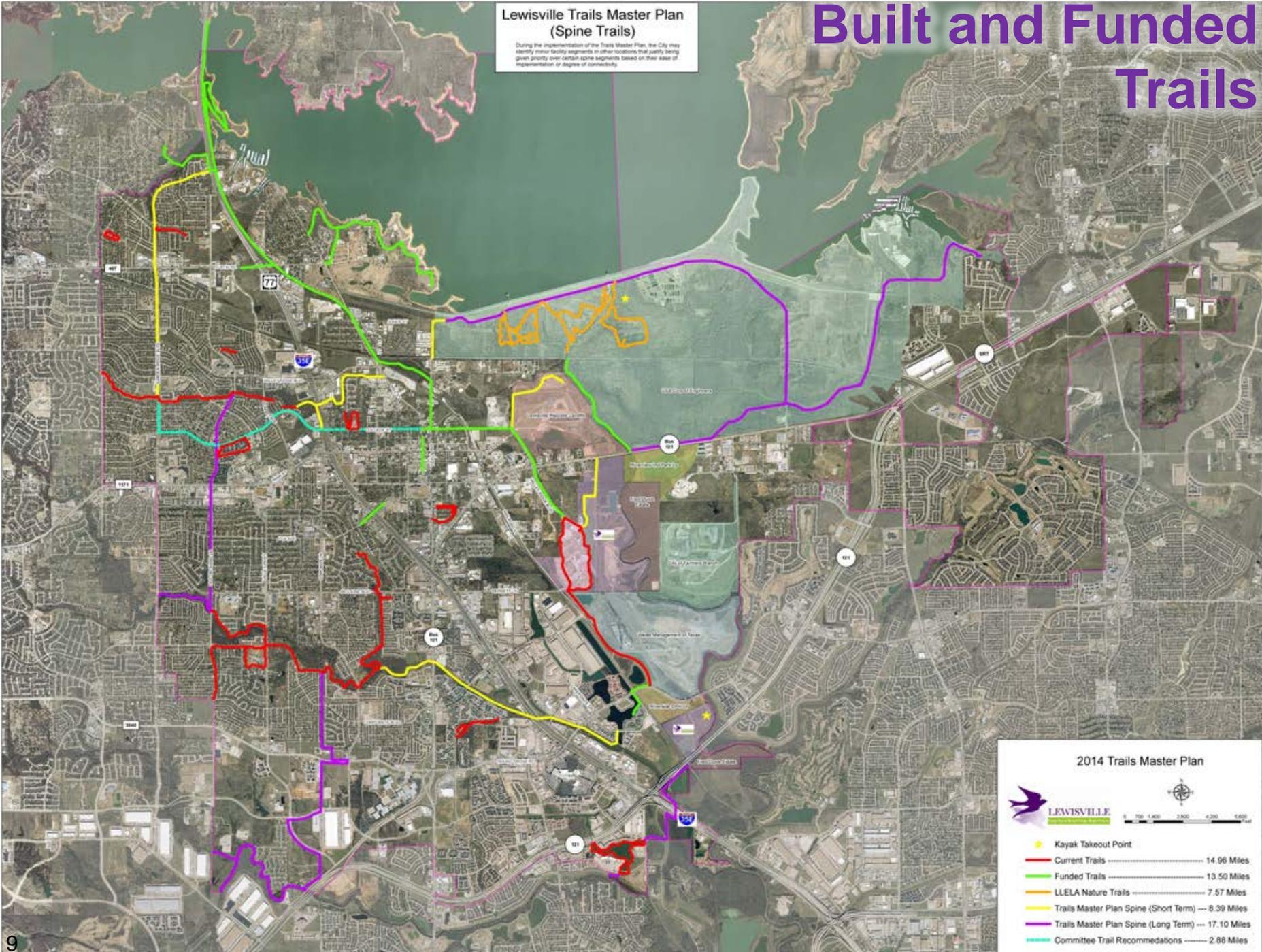
The NCTCOG-proposed Veloweb alignments are shown on this map for informational purposes. Because of various constraints, these alignments will be needed in several areas and therefore this Trails Master Plan does not recommend facilities in these instances.



Lewisville Trails Master Plan (Spine Trails)

During the implementation of the Trails Master Plan, the City may identify minor facility segments in other locations that justify being given priority over certain spine segments based on their ease of implementation or degree of connectivity.

Built and Funded Trails



2014 Trails Master Plan

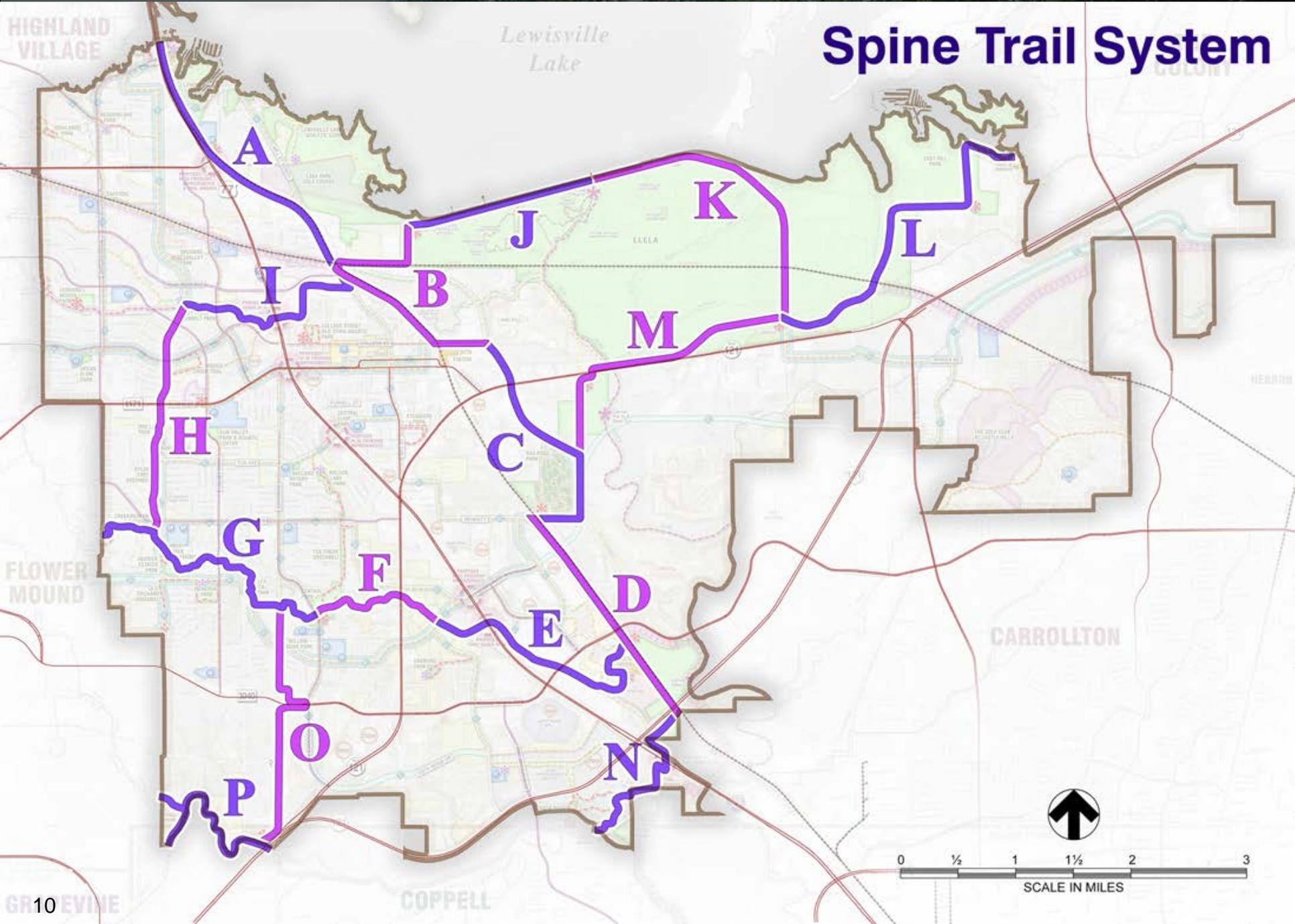


LEWISVILLE



- ★ Kayak Takeout Point
- Current Trails ————— 14.96 Miles
- Funded Trails ————— 13.50 Miles
- LLELA Nature Trails ————— 7.57 Miles
- Trails Master Plan Spine (Short Term) — 8.39 Miles
- Trails Master Plan Spine (Long Term) — 17.10 Miles
- Committee Trail Recommendations — 2.88 Miles

Spine Trail System



Lewisville Lake

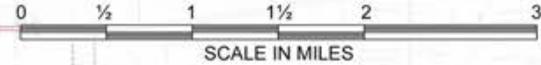
HIGHLAND VILLAGE

FLOWER MOUND

CARROLLTON

COPPELL

GR10



Spine Segment Analysis & Prioritization

- Each spine segment evaluated based on:
 - Ease of implementation
 - Connectivity to destinations
 - Land availability
- Cost estimates prepared for each

Segment A – Evaluation Score: 1 Northern DCTA Station to KCS Railroad

Description

Segment A is part of the planned DCTA trail, which will parallel the A-Train commuter rail. This segment runs south from the future DCTA station at Garden Ridge on the east side of IH-35E, past Milliken Middle School (which is also the location of a proposed major trailhead), along Mill Street, and ties into other priority segments at the KCS Railroad.

Type/Width

12' wide concrete off-street trail

Length

Planned: 2.3 miles

Land Ownership

Denton County Transit Authority, Lewisville ISD

Key Land Uses / Destinations

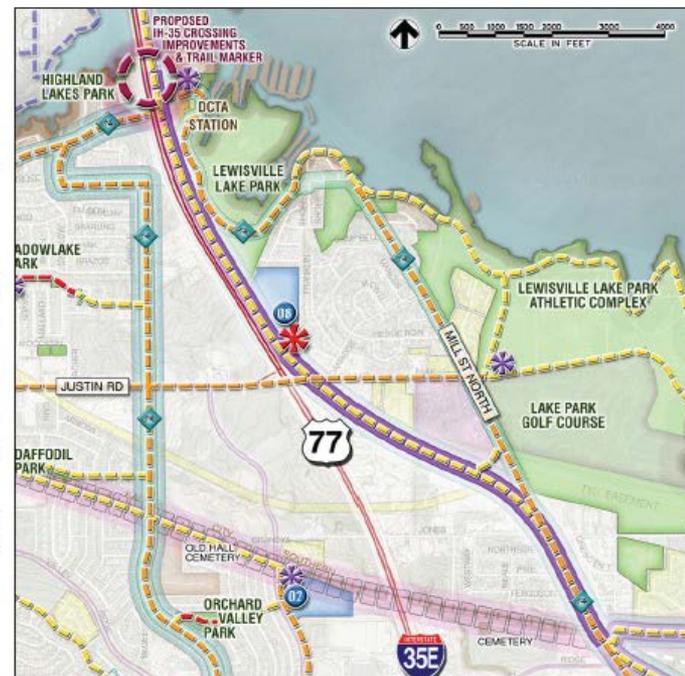
Provides access to future DCTA Station, Lake Park, Milliken Middle School, and Lake Park Golf Course. Intercity-connection to Highland Village.

Issues

- DCTA anticipated to fund and construct this segment within their right-of-way.
- Partnership with LISD needed in order to provide a trailhead at the middle school

Planning-Level Cost Estimate

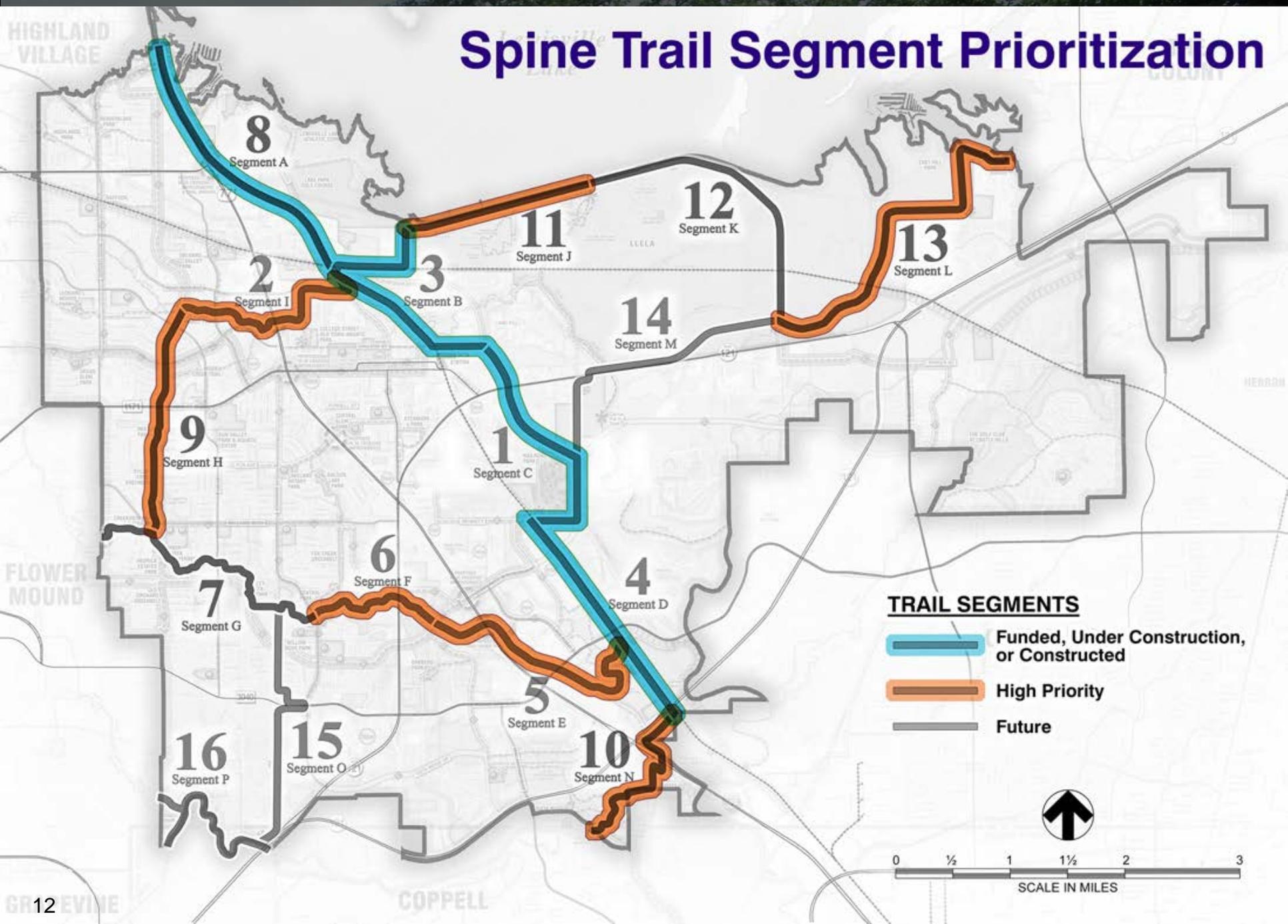
\$1,808,295 total / \$342 per linear foot



LEGEND

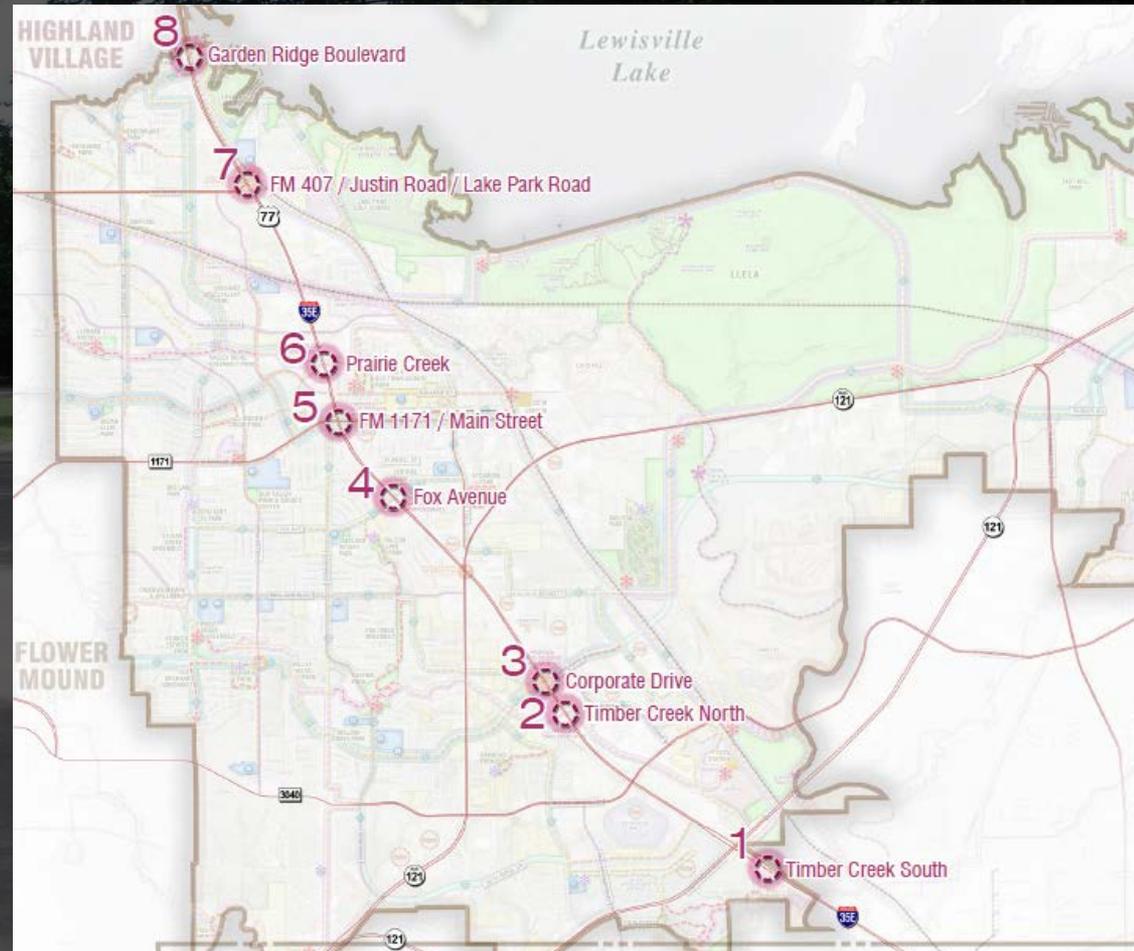
- | | | | |
|------------------------------|------------------------------|--------------------------------|----------------------------------|
| Existing Off-Street Trails | Bike Route | Existing Trails (Other Cities) | Trail Marker |
| Proposed Off-Street Trails | Bike Route Spine | Planned Trails (Other Cities) | Schools |
| Proposed Enhanced Sidewalks | Pedestrian Spine | Trail Head - Major | Business with 350-1500 Employees |
| Trinity River Paddling Trail | Veloweb (Proposed by MCTCOG) | Trail Head - Minor | Multi-Family Residential |

Spine Trail Segment Prioritization



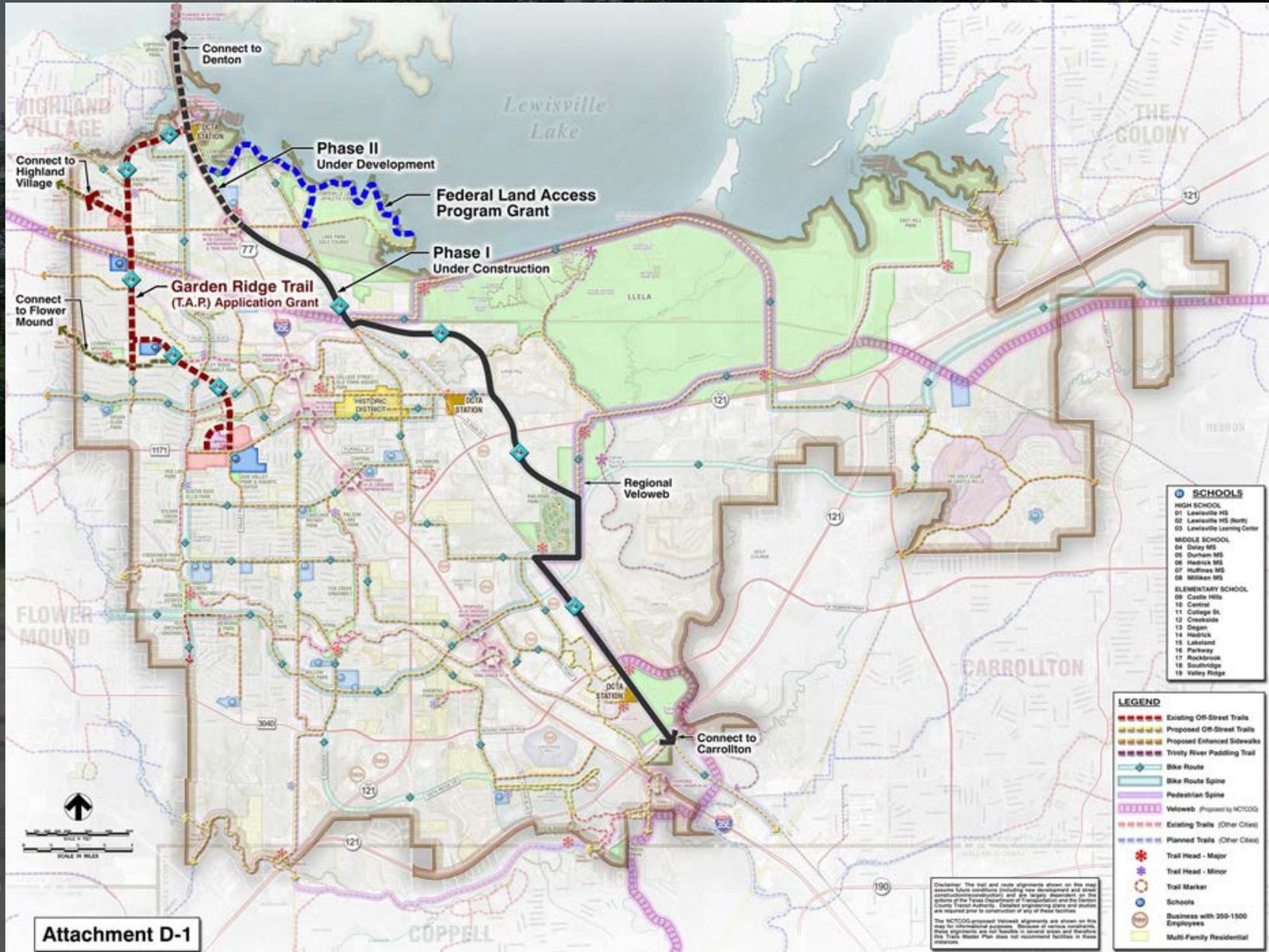
IH-35E Crossing Analysis

- Analyzed eight (8) locations along IH-35E for trail crossings
- Coordination with Engineering & Planning
- Opens dialog with TxDOT
- 2025 Vision Recommendation – add Crossing at College St.



T.A.P Grant – Garden Ridge Trail

Federal Land Access Program – Lake Park Trail





Project Overview

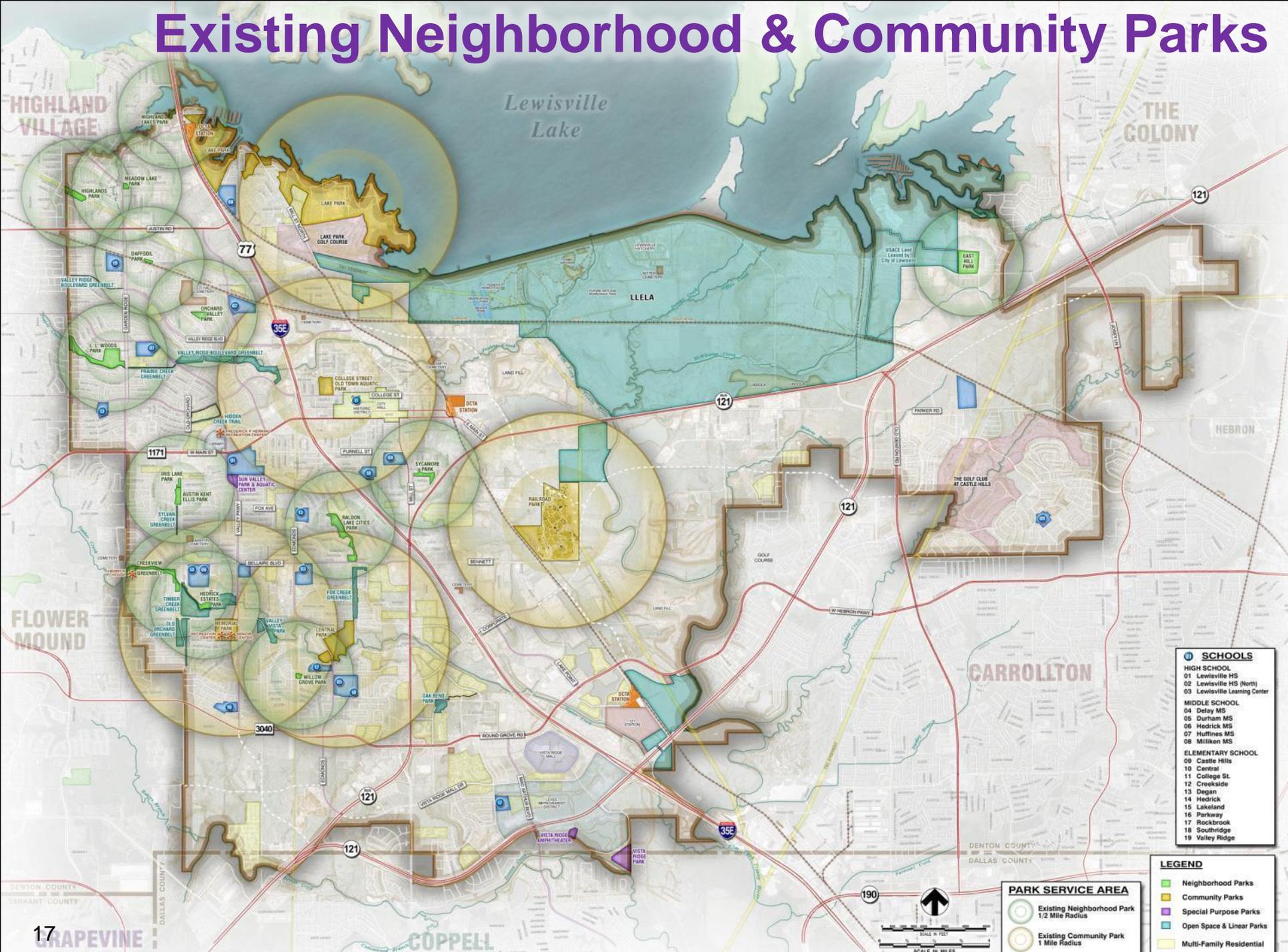
PARKS, RECREATION & OPEN SPACE VISION PLAN

Initial Impressions

- Good distribution of parkland and facilities
- Basic park amenities and equipment
- Other than Railroad Park, system lacks “enhanced” amenities / aesthetics
- Minimal landscaping in some parks
- Recreation centers small but well-maintained



Existing Neighborhood & Community Parks



- SCHOOLS**
- HIGH SCHOOL
 - 01 Lewisville HS
 - 02 Lewisville HS (North)
 - 03 Lewisville Learning Center
 - MIDDLE SCHOOL
 - 04 Delay MS
 - 05 Durham MS
 - 06 Hedrick MS
 - 07 Huffines MS
 - 08 Milliken MS
 - ELEMENTARY SCHOOL
 - 09 Castle Hills
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 - 16 Parkway
 - 17 Rockbrook
 - 18 Southridge
 - 19 Valley Ridge

PARK SERVICE AREA

- Existing Neighborhood Park 1/2 Mile Radius
- Existing Community Park 1 Mile Radius

LEGEND

- Neighborhood Parks
- Community Parks
- Special Purpose Parks
- Open Space & Linear Parks
- Multi-Family Residential

SCALE IN FEET

SCALE IN MILES

↑

Acres Level of Service

- 14 Neighborhood Park = 106.4 Acres
- 05 Community Parks = 732.9 Acres
- 16 Other Parks = 629.0 Acres
- LLELA = 2,000 acres
- Close-to-Home Parks: 8.3 Acres / 1,000*
 - Neighborhood Parks: 1 Acres / 1,000
 - Community Parks: 7.3 Acres / 1,000
- Other Parks: 6.3 Acres / 1,000*
- Total: 14.6 Acres / 1,000*

*At 100,000 pop

- Other Cities' Adopted Park Land Standards
 - Frisco: 14-19 Acres / 1,000
 - McKinney: 25 Acres / 1,000

Acresage Level of Service

- Recommended Target LOS:
20 acres / 1,000 (14.6)
 - Neighborhood Parks: **2 acres / 1,000** (1)
 - Community Parks: **8 acres / 1,000** (7.3)
 - Other Parks: **10 acres / 1,000** (6.3)



Acreage Level of Service

Based on Recommended Target LOS

- 2013 Acreage Deficit of **533 acres**
 - Neighborhood Parks: **96 acres**
 - Community Parks: **67 acres**
 - Special Purpose Parks: **370 acres**
- 2030 Acreage Deficit of **813 acres (1,872 acres)**
 - Neighborhood Parks: **123 acres (228)**
 - Community Parks: **186 acres (603)**
 - Special Purpose Parks: **504 acres (1,041)**

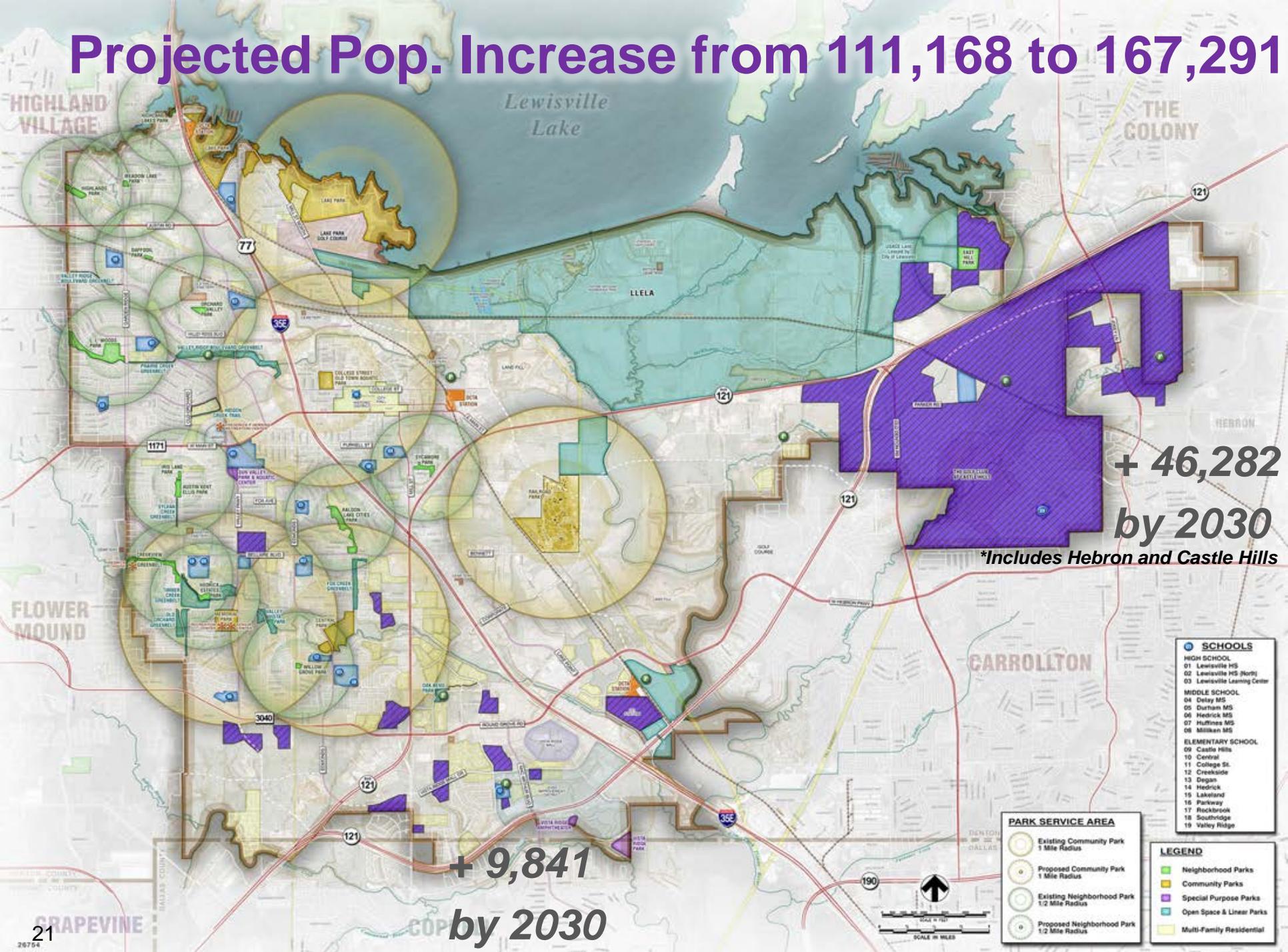
2013 population of 100,000 (NCTCOG estimates)

2030 population of 111,168 (NCTCOG forecasts)

New 2030 Projections **167,291*

(City of Lewisville Economic Development and Planning forecasts)

Projected Pop. Increase from 111,168 to 167,291



**+ 46,282
by 2030**

**Includes Hebron and Castle Hills*

**+ 9,841
by 2030**

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- PARK SERVICE AREA**
- Existing Community Park 1 Mile Radius
 - Proposed Community Park 1 Mile Radius
 - Existing Neighborhood Park 1/2 Mile Radius
 - Proposed Neighborhood Park 1/2 Mile Radius

- LEGEND**
- Neighborhood Parks
 - Community Parks
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 - Open Space & Linear Parks
 - Multi-Family Residential



Neighborhood Park Service Area Deficit

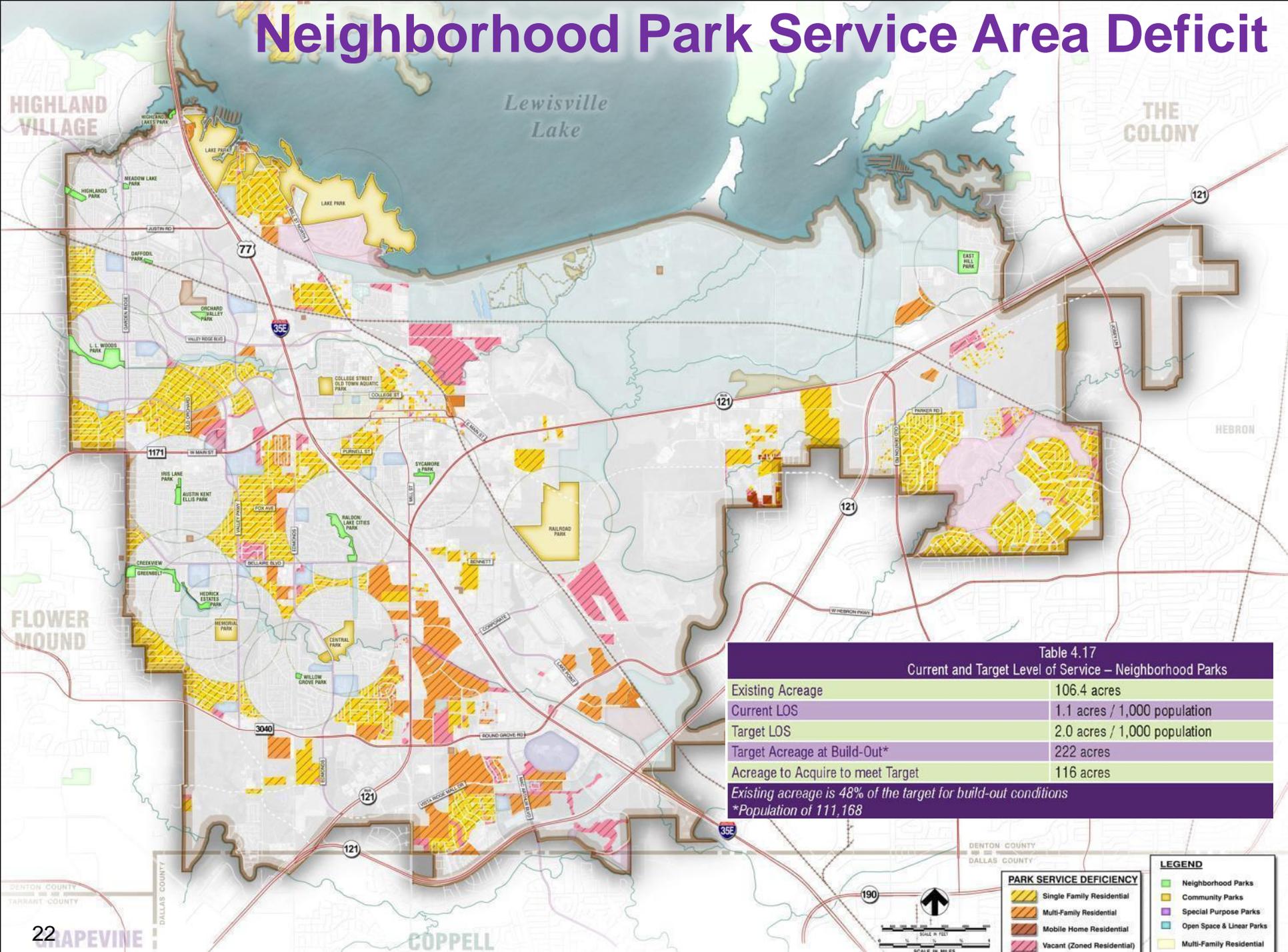


Table 4.17
Current and Target Level of Service – Neighborhood Parks

Existing Acreage	106.4 acres
Current LOS	1.1 acres / 1,000 population
Target LOS	2.0 acres / 1,000 population
Target Acreage at Build-Out*	222 acres
Acreage to Acquire to meet Target	116 acres

Existing acreage is 48% of the target for build-out conditions

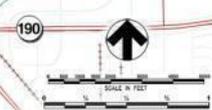
*Population of 111,168

PARK SERVICE DEFICIENCY

- Single Family Residential
- Multi-Family Residential
- Mobile Home Residential
- Vacant (Zoned Residential)

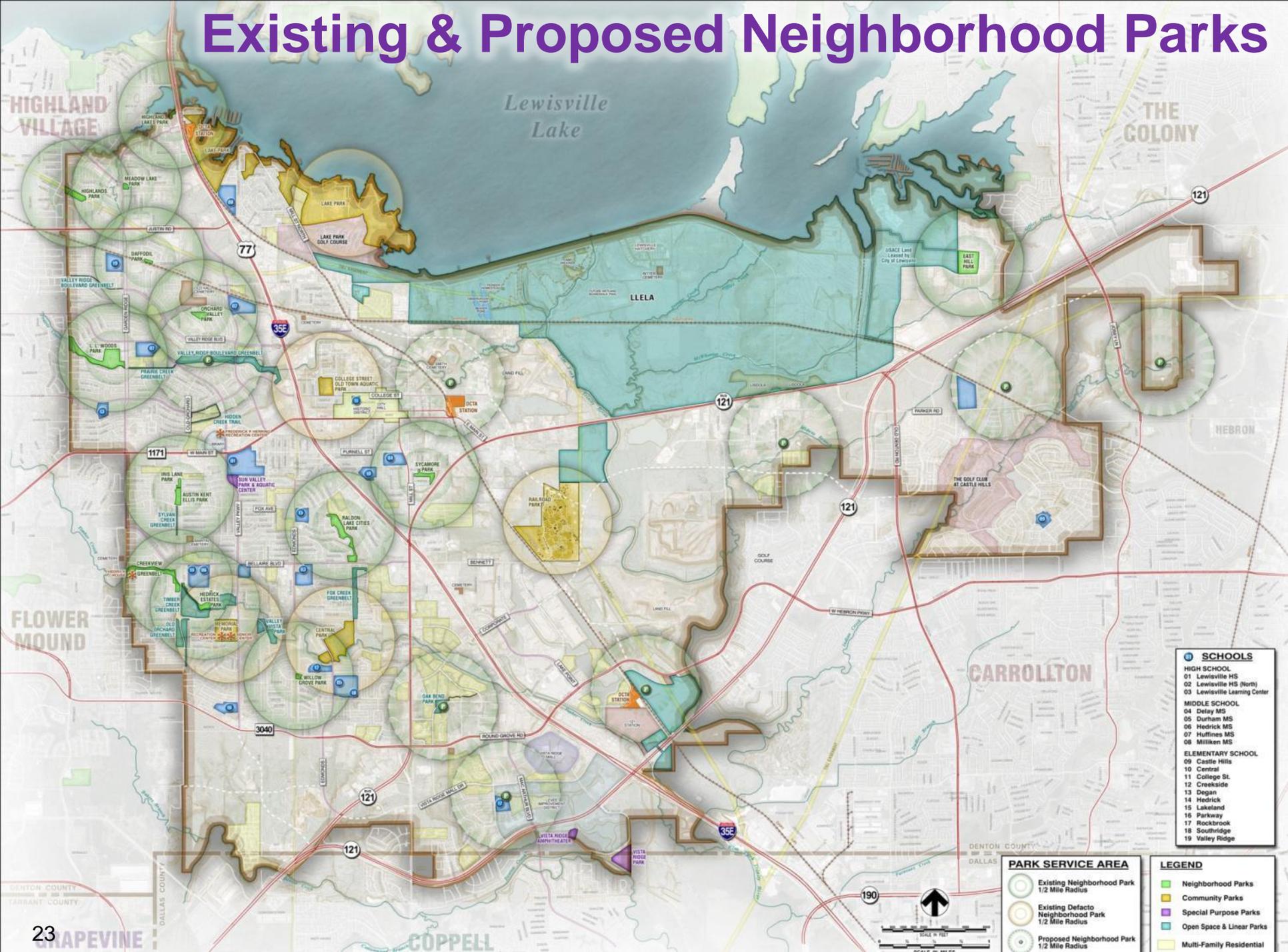
LEGEND

- Neighborhood Parks
- Community Parks
- Special Purpose Parks
- Open Space & Linear Parks
- Multi-Family Residential



DENTON COUNTY
DALLAS COUNTY

Existing & Proposed Neighborhood Parks



SCHOOLS

01	Lewisville HS
02	Lewisville HS (North)
03	Lewisville Learning Center
MIDDLE SCHOOL	
04	Delay MS
05	Durham MS
06	Hedrick MS
07	Huffines MS
08	Milken MS
ELEMENTARY SCHOOL	
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PARK SERVICE AREA

	Existing Neighborhood Park 1/2 Mile Radius
	Existing Defacto Neighborhood Park 1/2 Mile Radius
	Proposed Neighborhood Park 1/2 Mile Radius

LEGEND

	Neighborhood Parks
	Community Parks
	Special Purpose Parks
	Open Space & Linear Parks
	Multi-Family Residential



Community Park Service Area Deficit

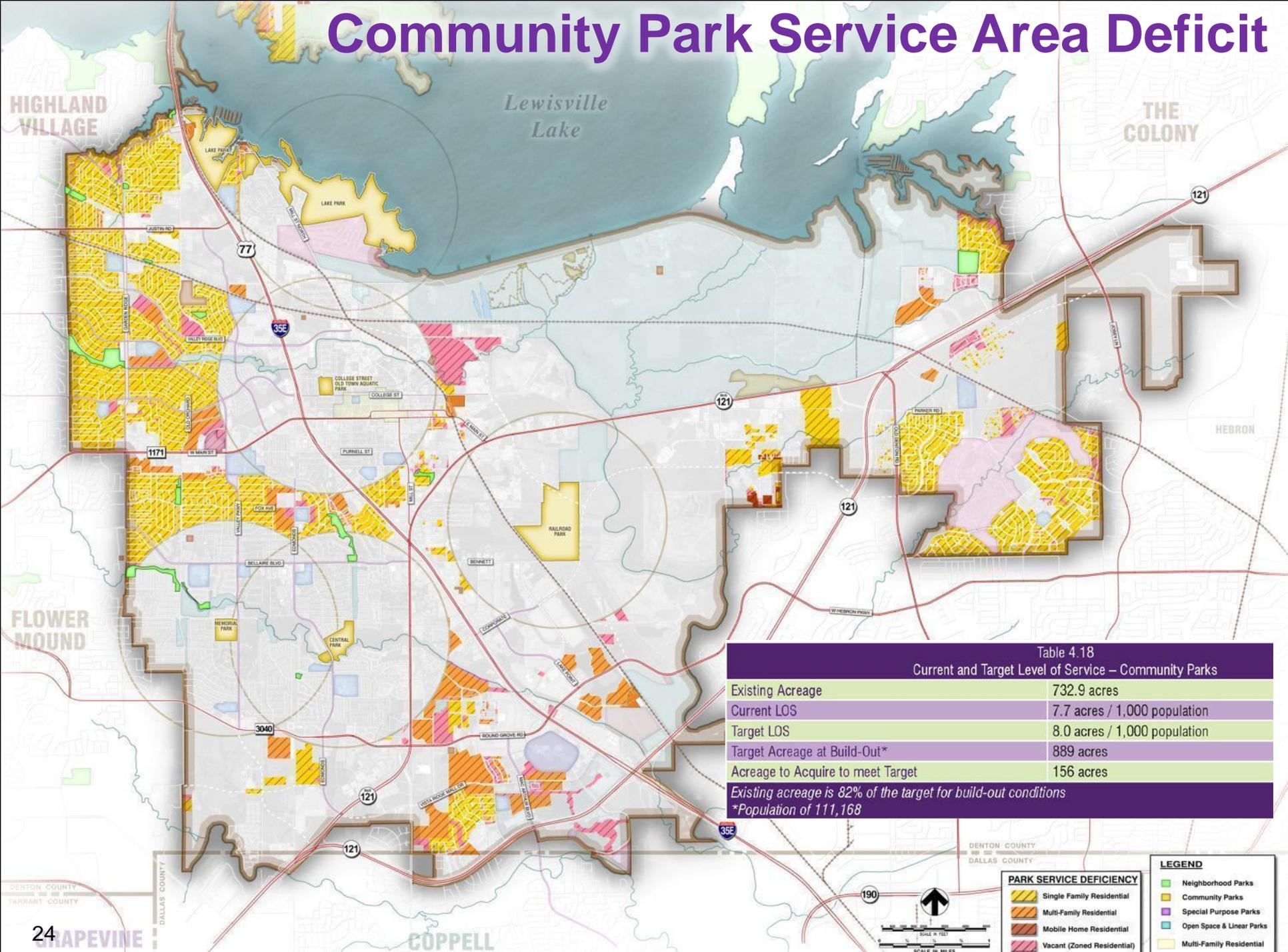


Table 4.18
Current and Target Level of Service – Community Parks

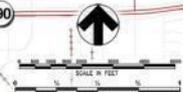
Existing Acreage	732.9 acres
Current LOS	7.7 acres / 1,000 population
Target LOS	8.0 acres / 1,000 population
Target Acreage at Build-Out*	889 acres
Acreage to Acquire to meet Target	156 acres
<i>Existing acreage is 82% of the target for build-out conditions</i>	
<i>*Population of 111,168</i>	

PARK SERVICE DEFICIENCY

- Single Family Residential
- Multi-Family Residential
- Mobile Home Residential
- Vacant (Zoned Residential)

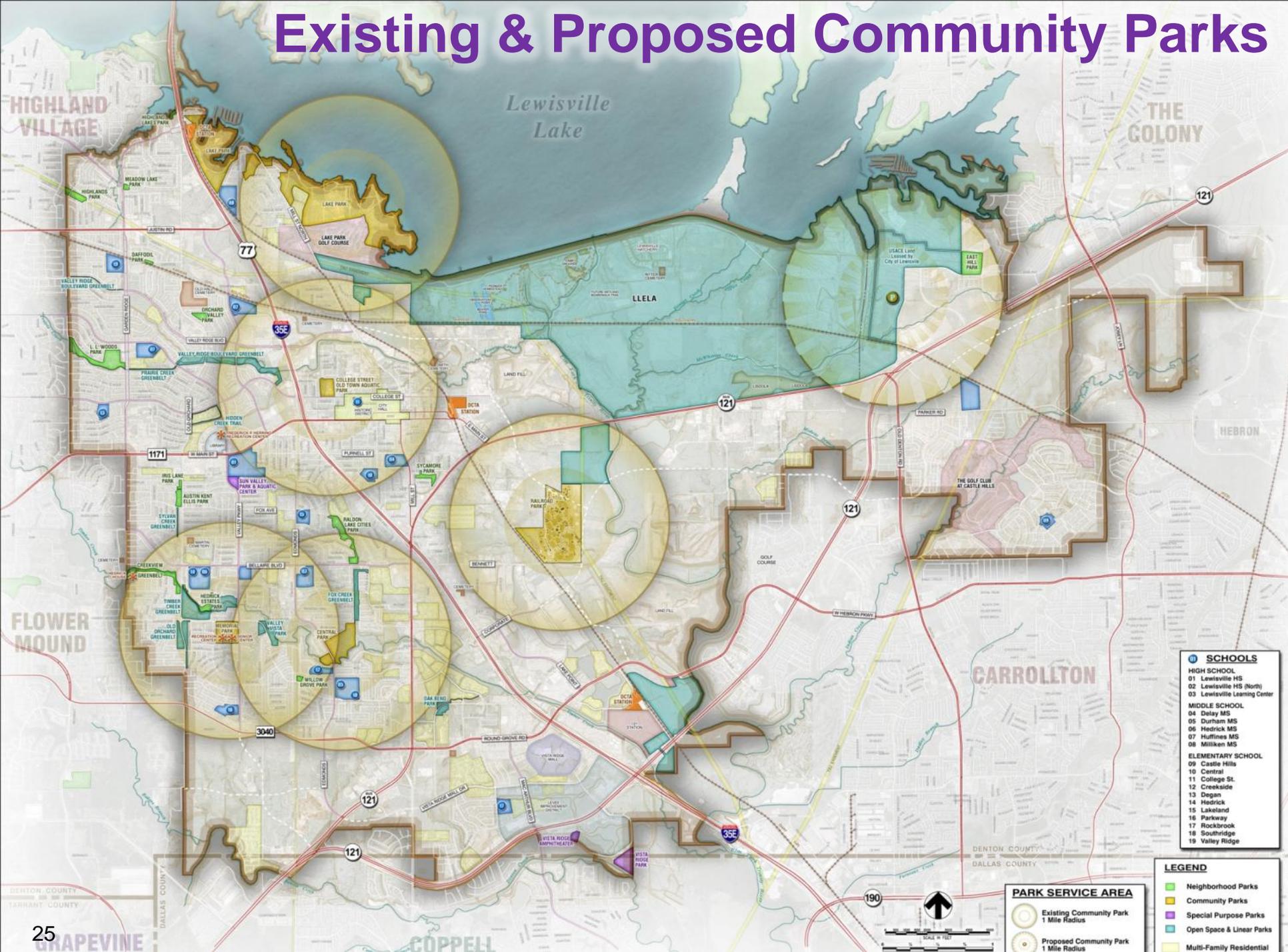
LEGEND

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- Multi-Family Residential



DENTON COUNTY
DALLAS COUNTY

Existing & Proposed Community Parks



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PARK SERVICE AREA

- Existing Community Park 1 Mile Radius
- Proposed Community Park 1 Mile Radius



Parks & Open Space Recommendations

(Other Parks)

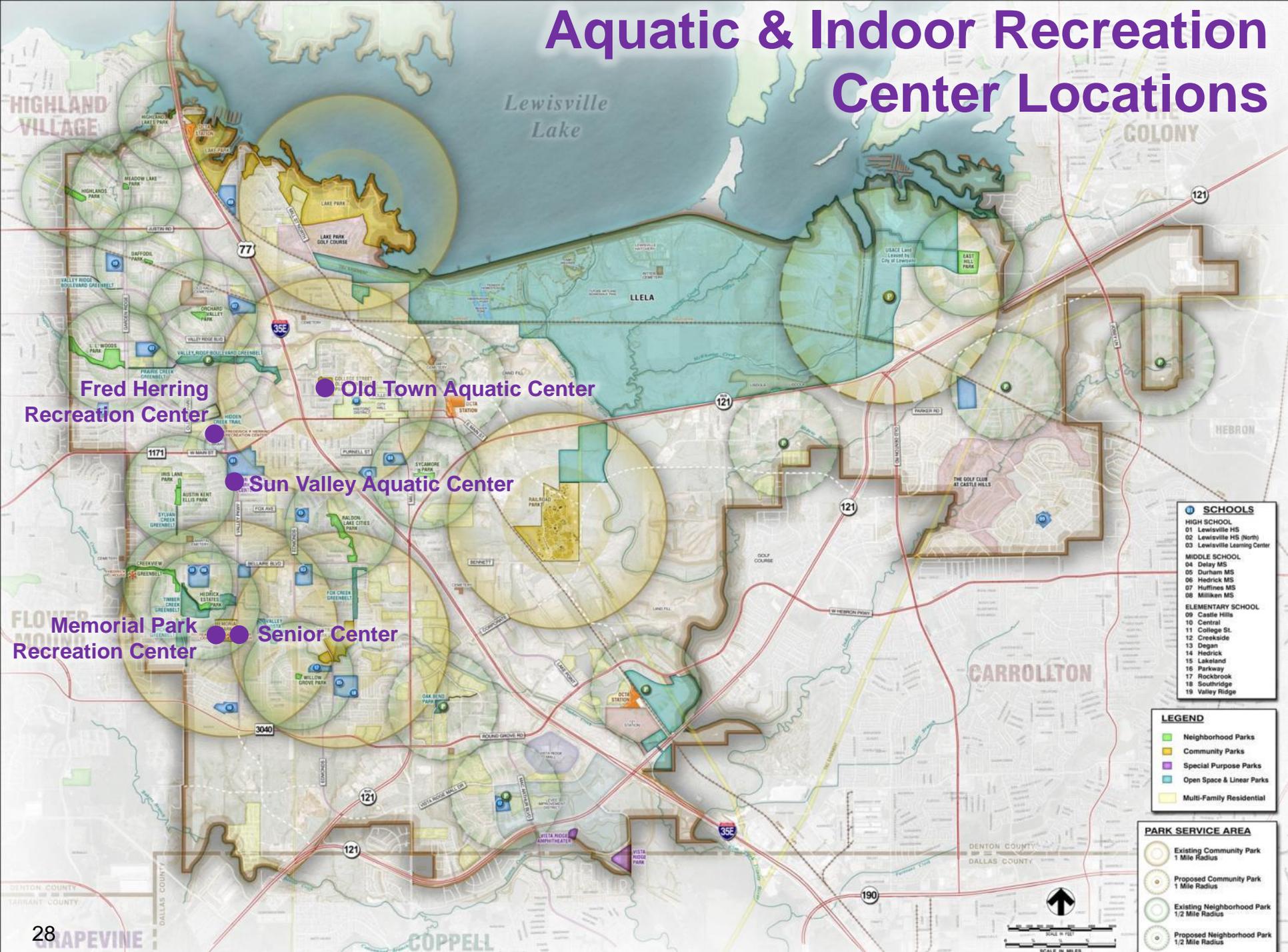
- Recreation Center Land
- Special Events Park
- Various Special Purpose Parks (trailheads, etc.)
- Open Space Acquisition
- Lake Park Improvement
- River Access Points
- LLELA



Outdoor Recreation Recommendations

- Non-Athletic Facilities
 - (3) Water spray parks
 - (1) Disc golf course
 - Loop trails in existing parks
 - Playgrounds at each new park, plus renovations
 - (10) Pavilions
 - Special Events Park

Aquatic & Indoor Recreation Center Locations



**Fred Herring
Recreation Center**

Old Town Aquatic Center

Sun Valley Aquatic Center

**Memorial Park
Recreation Center**

Senior Center

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LEGEND

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- Special Purpose Parks
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PARK SERVICE AREA

- Existing Community Park 1 Mile Radius
- Proposed Community Park 1 Mile Radius
- Existing Neighborhood Park 1/2 Mile Radius
- Proposed Neighborhood Park 1/2 Mile Radius



Big Picture Recommendations

- Expand Senior Activity Center
- Modify some rooms in Herring Center to optimize efficiency and functionality
- Build new state-of-the-art Recreation/Aquatic Center
- Explore opportunities to develop an indoor pool in concert with a recreation center

BIG MOVE 1 – GREEN CENTERPIECE

- Responses to a question about the importance of Lewisville Lake (Category 6, Question 1) showed a desire to maintain the natural aspects of the lake while also encouraging public use as a destination center.
 - Of eight options given, respondents were supportive of all options that included public use and were generally unsupportive of the two options that would restrict or eliminate public access.
 - The top-rated option by a narrow margin was providing a place for Lewisville resident to enjoy active recreation such as swimming, boating, picnics and athletic fields (94 percent support, 55 percent strong support).
 - The option for maintaining natural settings that include opportunities for the public to interact with the environment was rated second overall with 90 percent support.
 - By comparison, 65 percent said they support reduced public access and just 25 percent supported strict limits on public access.
 - Open-ended comments included a large number of suggestions to make the lake a visitor destination, and about 85 percent of respondents supported that approach.

BIG MOVE 2 – EXTENDING THE GREEN

- Perhaps the easiest trend to pull from the survey results is the overwhelming public desire for more and improved trails.
 - Asked to rank eight possible park amenities (*Category 5, Question 1*), the runaway top ranking was for a trail system along Lewisville Lake (55 percent ranked it first or second).
 - Asked to rank eight possible recreation amenities (*Category 5, Question 2*), the top answer by a wide margin was creating new and expanded hike/bike trails (52 percent ranked it first or second).
 - These results are consistent with the public survey conducted during development of the Parks Master Plan, although the Lewisville 2025 survey showed a higher level of support.

BIG MOVE 2 – EXTENDING THE GREEN

- The desire for trails was expressed not only as a recreational aspect but also as a means for moving around the city.
 - Walkability was ranked as the second-most important factor in Old Town revitalization.
 - When asked to rate various “green” initiatives being used in other communities (*Category 9, Question 3*), the third-highest rating (with 91.3 percent support) was assigned to “create attractive and easily accessible pedestrian connections between residential areas, commercial districts, public transit stations and recreation facilities.”
 - When respondents were asked to rate the importance of various enhancements to road projects (*Category 7, Question 2*), the highest rating went to “enhanced sidewalks and other amenities that encourage pedestrian traffic” with 81.3 percent marking it as important, ahead of median treatments, bike lanes and underground utilities.

BIG MOVE 4 – THRIVING NEIGHBORHOODS

- Other than trails, the potential parks project with the strongest public support was building a new modern recreation center.
 - This was the second-highest project on the Recreation Amenities ranking (*Category 5, Question 2*) and matched trails for the most “Number One” rankings from respondents.
 - More than 40 percent of respondents listed a new recreation center as either the first or second recreation priority in Lewisville, second only to trails (51 percent), which is a good measure of intensity.
 - Third was an indoor aquatics facility, with 26 percent ranking it first or second (however, 28 percent ranked it seventh or eighth, so there is a wide disparity of opinion about an aquatics center).
 - A recreation center was mentioned in the open-ended responses more than any other item except for trails. Including an indoor aquatics center received less support, although the Flower Mound CAC was listed as an example by many respondents and that facility does have indoor and outdoor aquatic features.