



# Strategic Growth Plan for the Lexington Fire Department

Chief Jason Wells, Lexington Fire Department Social Services and Public Safety Committee Meeting August 26, 2025

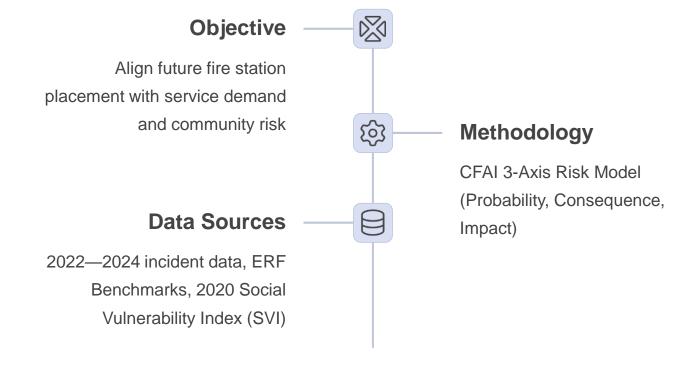




### **Purpose & Methodology Overview**



Our approach focuses on equity, readiness, and alignment with Center for Public Safety Excellence (CPSE) accreditation standards and the Imagine Lexington 2045 urban development plan.







### **Key Definitions**

These foundational terms form the basis of our methodology:

### **ERF** (Effective Response Force)

Personnel and apparatus required on scene to effectively manage an incident

### **Benchmark Response Time**

Complete timeline from 911 call (alarm) to full ERF assembly on scene

### **SVI (Social Vulnerability Index)**

CDC metric used to assess how severely emergencies may affect specific areas

### **CFAI 3-Axis Risk Model**

- Probability: Frequency of emergency occurrences
- Consequence: Population vulnerability factors
- Impact: How effectively we meet ERF benchmarks





### **Risk Scoring Methodology**



#### **Scoring Components (0-10 scale)**

- Probability: EMS Medium and Fire High Risk incidents (2022—2024)
- Consequence: 2020 CDC SVI (income, housing, disability, transportation)
- Impact: ERF arrival times exceeding 13-minute benchmark (2022-—2024)

#### **ERF Requirements:**

- EMS: 6 personnel for Medium Risk
- Fire: 17 personnel for High Risk



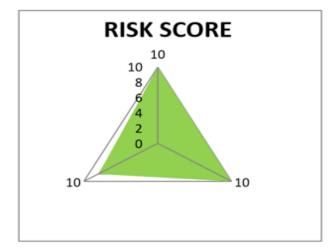
#### **Composite Scoring**

Heron's Formula provides balanced risk scores for Fire High Risk and EMS Medium Risk. These scores are averaged to produce a composite score that guides fire station placement decisions



#### **Urban Expansion Weighting**

Tracts located within Lexington's designated urban expansion area receive additional prioritization weight, ensuring our resource allocation aligns with both current needs and anticipated growth patterns



RISK	
Probability of occurrence	10
Consequence to community	10
Impact on Fire Department	8
SCORE	106.770783





### **Incident Types Analyzed**



### **EMS Medium Risk**

- Cardiac arrests, respiratory issues, overdoses, serious traumas
- Requires EC unit and first responder (Engine or Ladder Company)
- Timely ERF is critical for survival



### Fire High Risk

- Confirmed structure fires (residential, commercial, industrial)
- Requires 17 personnel for firefighting, rescue, ventilation, command
- Delayed ERF increases danger to lives and property

These incident types were selected based on their resource-intensive nature, high frequency, and significant consequences for life safety and property protection.





### **EMS Medium Risk Assessment**

**Future Concern:** Several tracts near the proposed expansion areas currently show moderate EMS risk and may escalate as development continues.

29

**27** 

26

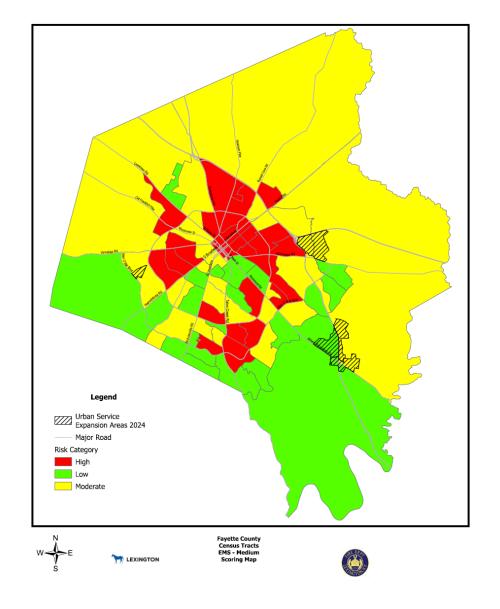
High-Risk Tracts Moderate-Risk Tracts Low-Risk Tracts

35% of total census tracts

33% of total census tracts

32% of total census tracts

Risk scores range from 4.89 to 73.48, with highest scores concentrated in central Lexington.







### **Fire High Risk Assessment**

**Future Concern:** Moderate/high-risk tracts near urban boundaries indicate potential service gaps as the city expands.

33

23

26

High-Risk Tracts

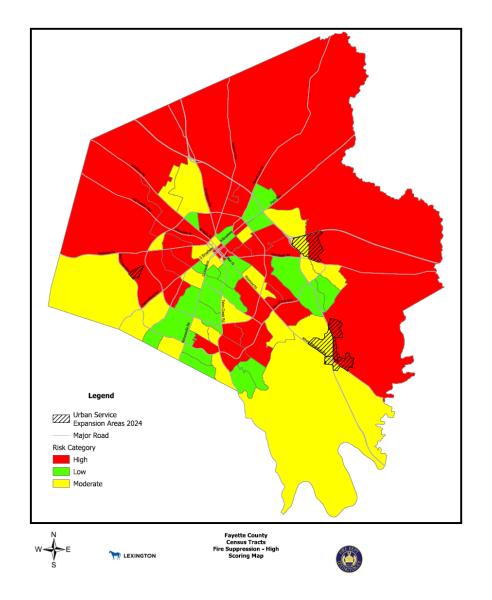
Moderate-Risk Tracts Low-Risk Tracts

40% of total census tracts

28% of total census tracts

32% of total census tracts

Risk scores range from 4.89 to 106.77, with highest concentrations in central, northeast, and southeast Lexington.







### **Composite Risk Assessment**

**Future Concern:** Moderate-Risk tracts near Polo Club Boulevard, Man o' War Boulevard, and Versailles Road show potential for escalation as development continues. These areas are projected to experience significant residential and mixed-use growth under the Imagine Lexington 2045 Plan, which could substantially increase service demands and risk levels.

28

**27** 

**27** 

High-Risk Tracts Moderate-Risk Tracts Low-Risk Tracts

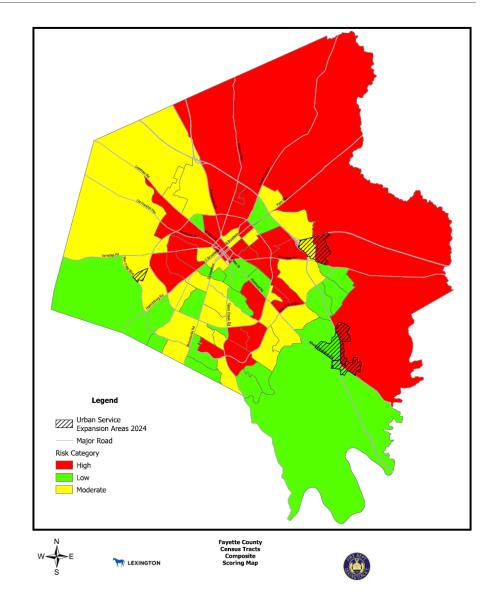
34% of total census tracts

33% of total census tracts

33% of total census tracts

Risk scores range from 4.89 to 90.13, with the highest concentrations in central and eastern Lexington.







### **Recommended Fire Station Locations**

1

### Station 25: Winchester Road & Polo Club Boulevard (District 6)

Positioned in the eastern corridor, this location serves a large high-risk area overlapping with planned urban expansion. It addresses growing residential demand and existing ERF gaps in the northeast quadrant.

2

### Station 26: Richmond Road & Athens-Boonesboro (District 7)

Strategically located in the southeastern part of the county, this station enhances coverage for a corridor with rapidly expanding residential and commercial developments. It falls squarely within a high-risk tract and is included in the urban services expansion area, providing critical support for both current service demands and anticipated growth patterns.

3

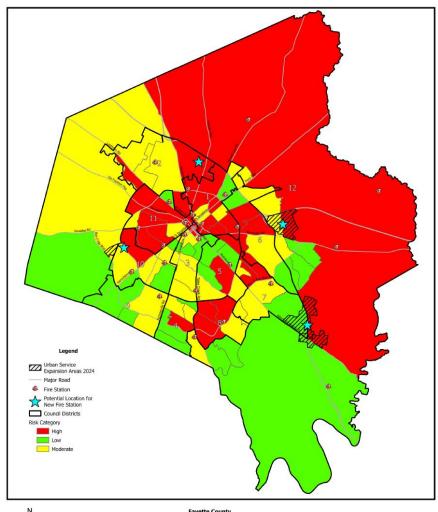
### Station 27: Man o' War Boulevard & Parkers Mill Rd (District 10)

Located on the western side of the city near the Parkers Mill corridor, this site addresses both ERF gaps and bordering high-risk tracts. Although not the far southwest corner, it still supports expansion toward the west and fills a critical service void.

4

### Station 28: Newtown Pike & I-75 (District 12)

This northeastern site provides vital coverage to a high-risk tract near I-75 and Newtown Pike. It offers strong interstate access and supports anticipated growth in both industrial and residential sectors in the area.







Census Tracts
Composite







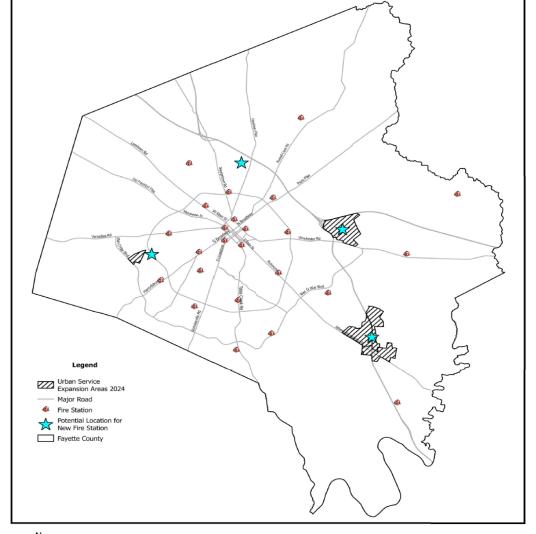
### **Recommended Fire Station Locations**

25 Winchester Rd & Polo Club Blvd

26 Richmond Rd/Athens-Boonesboro

27 Man o' War Blvd & Parkers Mill Rd

28 Newtown Pike & I-75 Corridor









### Station-by-Station Apparatus & Staffing Overview

1

Station 25: Winchester Road & Polo Club Boulevard

**District 6 | Northeast Lexington** 

Apparatus: Emergency Care Unit, Fire Engine, Ladder Truck

Personnel: 45 FTE

Serves high-risk neighborhoods with growing multi-story housing developments. The ladder

truck is critical for vertical access and reducing response times.

2

Station 26: Richmond Road & Athens-Boonesboro

District 7 | Southeast Lexington

**Apparatus:** Emergency Care Unit, Fire Engine, Ladder Truck, Command (District Chief)

Personnel: 48 FTE (includes District Chief)

Serves a rapidly growing area with limited nearby fire stations. The District Chief provides

on-scene leadership and enhances command efficiency across the district.

3

Station 27: Man o' War & Parkers Mill Road

District 10 | Western Lexington

Apparatus: Emergency Care Unit, Fire Engine, Ladder Truck

Personnel: 45 FTE

Addresses high call volumes in dense residential and mixed-use areas. Essential for

protecting multi-family housing and vulnerable populations.

4

Station 28: Newtown Pike & I-75 Corridor

**District 12 | North Lexington** 

Apparatus: Emergency Care Unit, Fire Engine, Ladder Truck

Personnel: 45 FTE

Serves a diverse area with growing industrial, residential, and commercial development.

Apparatus selection ensures coverage for multi-story structures and high-traffic corridors.

① Our apparatus recommendations align with NFPA 1710 and CFAI standards, ensuring efficient deployment of resources to protect life and property across all emergency types...





# **Transitioning to Implementation**

A Six-Year Roadmap for Fire Service Excellence in Lexington





### Strategic Budget Priorities & Implementation Plan (FY26–FY31)

### Capital Projects

#### Near-Term (FY26-27):

- Fire Academy design & construction (\$42M)
- Records Management Software (\$350K)
- Annual fleet and equipment replacement:
  - Heavy & Light Fleet
  - EMS Equipment
  - Turnout Gear/Personal Protective Equipment (PPE)

#### Mid-Term (FY28-29):

- Multipurpose Storage Facility (\$800K)
- Station 25 (\$15M)

#### Long-Term (FY30-31):

- Administration Annex (\$30M)
- Station 26 (\$15M)
- Fleet Maintenance Facility (\$4.5M)

### **Personnel & Staffing Growth**

#### Near-Term (FY26-27):

- Overdose Prevention staff addition and reclassification
- 13 Firefighters for EC14
- PPE Technician
- Behavioral Health Clinician
- PIO (Public Information Officer)
- Clerks to support various programs

#### Mid-Term (FY28-29):

- 45 Positions for Station 25
- Community Paramedicine expansion

#### Long-Term (FY30-31):

48 Positions for Station 26 (includes District Chief)

#### **Action Plan**

#### Near-Term (FY26-27):

- Complete Training Academy design
- Request Training Academy contstruction funding
- Pursue grant opportunities for personnel
- Request Station 25 Apparatus Funding

#### Mid-Term (FY28-29):

- Station 25 design, construction, and apparatus
- Begin Station 26 design
- Continue data analysis of deployment trends for all programs including Community Paramedicine

#### Long-Term (FY30-31):

- Open Station 26 with full staffing
- Construct Administration Annex
- Plan Fleet Maintenance Facility
- Continue to scale the Paramedicine Program





### **Final Thoughts & Direction**





### **Thoughtful Planning**

Proactive planning is essential to keep pace with Lexington's evolving public safety needs.



### **Strategic Investments**

Targeted investments in personnel, facilities, and community programs secure our future.



#### **Data-Driven Decisions**

Our comprehensive strategies enable informed, evidence-based choices for optimal resource allocation.



## **Questions?**



