



City of Columbia Fire Department Conceptual Site Master Plan

The Columbia Fire Department recognizes the need to enhance capabilities for emergency response personnel and administrative staff due to the rapid growth of our community. With significant development along the east-central corridor, it was determined that establishing an additional fire station at this location is essential to maintain adequate fire response and office space for our expanding team.

By acquiring this 4.64-acre property, the city secured a valuable asset—an existing building that was formerly a church, situated on the north end of the site. Our intention is to repurpose this building as offices for our Fire Marshal's Division and provide a comfortable environment for our firefighters. Utilizing the lower level of this existing structure as an interim fire station will enable us to improve response times in the growing area while we design and construct a permanent fire station on-site. After the new station is completed, the lower level will serve as office and conference space, as well as backup storage for apparatus and equipment.

Located at El Chaparral Avenue and East Broadway, the site's primary access is from El Chaparral Avenue to the west. Emergency vehicles will exit directly onto El Chaparral. We aim to create a welcoming atmosphere that fosters a sense of belonging in the neighborhood while providing crucial life safety facilities for the community. The living areas for both the interim and permanent fire stations will blend seamlessly with the typical residential housing in the area. Building materials will be chosen to reflect the neighborhood's character and identity.

The buildings and site will establish economical, reliable, sustainable, and innovative organizational and infrastructure foundations for efficient municipal service delivery to meet the needs of our residents and visitors. Key aspects of the plan include:

- Developing building plans resilient to anticipated future conditions.
- Prioritizing safety and convenience on the site to promote a bikeable and walkable community.
- Preserving maximum existing natural areas and enhancing diverse native communities through the use of native plants in landscaping. Implementing strategies to mitigate stormwater impacts.
- Incorporating regionally sourced materials with high recycled content to reduce waste.
- Designing facilities with the highest feasible energy efficiency, including on-site renewable energy HVAC and lighting systems. Air conditioning units will use refrigerants with low global warming potential, and systems will be designed to manage energy demand effectively.
- Exploring solar panel installation feasibility or constructing facilities to be solar-ready.
- Installing water conservation fixtures and exploring rainwater harvesting feasibility for urinal and toilet flushing.
- The permanent fire station will provide space for living, sleeping, office work, training, and storage, including three apparatus bays. Additional square footage will accommodate mezzanine storage, group training activities, and mechanical systems.

COLUMBIA FIRE DEPARTMENT

CONCEPTUAL SITE MASTER PLAN

City of Columbia, Missouri

Public Works

No.	Date	By	Revision

File No.	NO SCALE
Scale:	03/04/2024
Date:	
Des.:	
Dwn.:	
Chk.:	