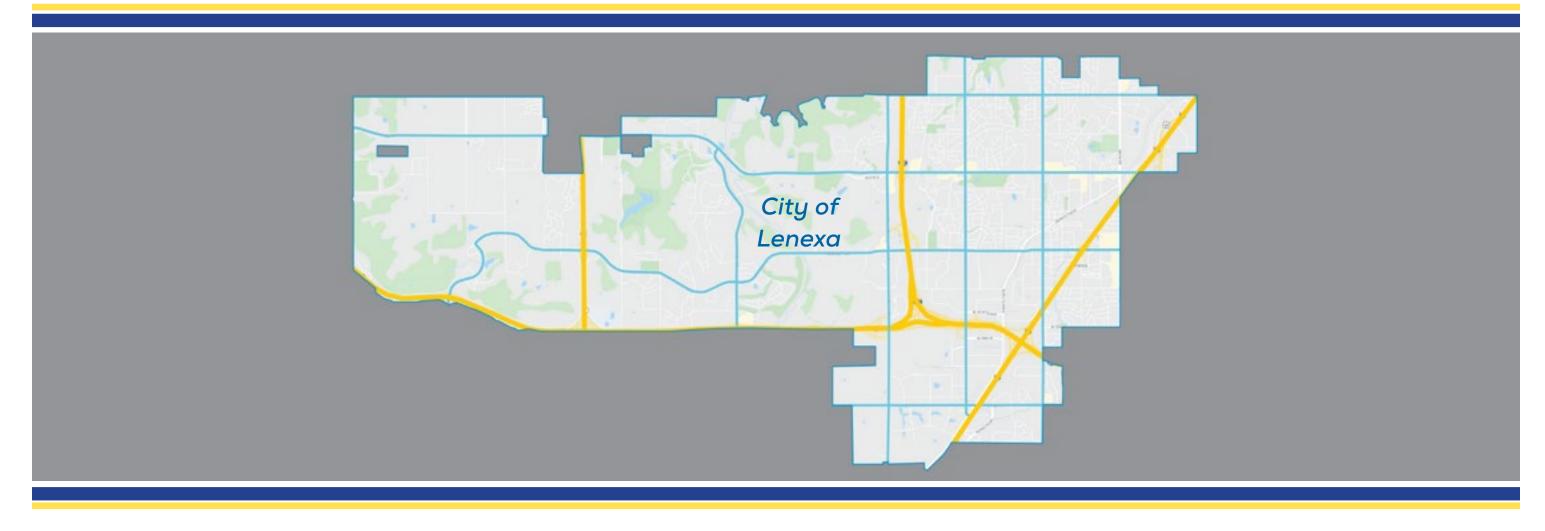


# MASTER PLAN FOR PUBLIC SAFETY



JULY 21, 2020 FINAL REPORT

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# EXECUTIVE SUMMARY

#### **EXECUTIVE SUMMARY** SECTION 1

#### **1.1** — PROJECT BACKGROUND

The Lenexa Police Department and Municipal Court current facilities were constructed in a series of phases beginning in 1980 and continuing through 1994. Police and Court staff has increased. The assigned duties and related space to perform duties has increased. The need for security has changed and best practice security measures need to be implemented. The decision to build a new Police and Court facility for four decades, was made by community leaders, and the dollar value of that decision has been appreciated by City leaders and residents.

The City has grown from a population of 18,000 in 1980, to a 2018 population of 55,000. More changes are anticipated as the City continues to grow toward an estimated "build out" population of approximately 85,000 with corresponding residential, commercial, industrial and other development across the City's 35 square miles, over the next 20 to 25 years. As it had in 1980, the time has come again to assess the facility needs, study planning alternatives, develop a budget, and proceed with a plan to accommodate the facility needs for the Police Department, Municipal Court and IT Department.



#### 1.2 — COMMISSION

The City has commissioned the PGAV / MWL team to work with Deputy City Manager, Todd Pelham, Police Chief, Tom Hongslo, Court Administrator, Nicole Armstrong, and the Director of IT, Jerry Swingle along with their staff, to analyze and understand facility needs and the capacity of current facilities to accommodate those needs. The planning team has used the facts learned to develop and prepare alternative plans for the City to consider. These plans project budget for facilities to accommodate the Police Department, Municipal Court and IT.

This report provides a synopsis of the process and outcomes. It serves to document the findings, illustrate the alternatives studied and describe the conclusions reached. We believe the contents of this study report will allow the City to understand the alternatives for meeting the need and make informed decisions as to how to move forward with a design and construction project to accommodate the facility needs that are now identified. The study provides useful facts and concepts to inform the process of planning, funding, constructing and occupying a new facility.

#### **1.3** — PREVAILING QUESTIONS

It is the purpose of this study to define the Police, Court and IT facility needs for a building and site in a thorough manner that will provide well-substantiated answers to four Prevailing Questions.

- How big a facility is needed to accommodate each departments' functions?
- Where should the facility be located?
- How can a facility be successfully configured on property owned by the City?
- How much will the project cost?

#### **1.4** — MEASURES OF SUCCESS / CRITICAL SUCCESS FACTORS

This list of Critical Success Factors was established in early project meetings as an objective set of criteria by which project success will be measured. The factors identified are a select list compiled and agreed to by a diverse set of key project decision makers. Project success will be judged at each project milestone based on how well these factors, considered critical to project success, are being addressed.

- Building space and parking accommodation
- Efficient and effective functional adjacencies / operational flow
- Facility Location efficiency
- Effective security planning
- Civic Use / Presence
- Sustainability / Longevity
- Impact on operations during construction
- Cost / Value for money

#### 1.5 — PROCESS

MWL's process of planning for new police facilities has been developed and used successfully for 30+ years, on over 300 public safety projects. Our goal is to engage with key City Administration leaders, police and court staff as we work to gain an understanding of the community, the Police Department Calls for Service and Workload, and number of estimated future staff. We use the facts we discover to determine the amount of space needed.

Using the Space Needs outcome, we have developed building and site planning concept plans. The concept plans are used to achieve optimized operational adjacency and flow for the site and building plans for the PD, IT and Municipal Court. The concept plan alternatives form the basis for a cost estimate and project budget.



### **1.6** — PUBLIC OUTREACH

including the following:

- Social Media Facebook, Nextdoor, Twitter
- TV Coverage - KSHB, KMBC, WDAF
- Shawnee Mission Post Coverage •
- Town Talk •
- City Web Page Feedback Form 27 Responses •
- City Open House 45 Attendees, 4 Public Tours •









## SECTION 1

#### The City has publically engaged the citizens of Lenexa through several communication outlets





#### **1.7** — CONCLUSION AND RECOMMENDATIONS

This report will echo the advantages and disadvantages recorded in recent presentations at Council Meetings in September and December of 2019 and the Community Forum in January of 2020.

Existing 87th Street Site: New Building

- Multiple phases necessary to accommodate continuous operations
- Significant impact to on-going operations during construction
- Very limited capacity for future building expansion and parking
- Very limited on-site space for construction staging
- Stormwater management underground vs. surface, is more costly
- Estimated Cost is approximately 8%-10% higher, partly due to phasing

New Prairie Star Pkwy Site: New Building

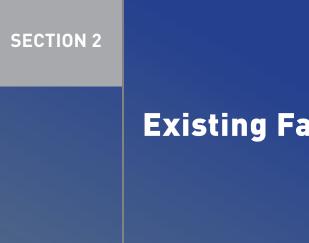
- Single phase project is possible No impact to on-going operations
- Multiple options available for future building expansion and parking
- Adequate on-site space for construction staging
- Adequate land area to accommodate stormwater management
- Site centrally located for police service calls and equipment access
- Cost approximately 8%-10% lower compared to phased project on existing site

Based on these prominent advantages and disadvantages, the planning team recommends a new facility be designed and constructed on the land owned by the City at the Prairie Star location. We believe a new facility at this location will equip the Police Department, Municipal Court and IT to serve Lenexa's residents and visitors across the 35 square miles of the City over the next 20 to 25 years with optimized efficiency and effectiveness.

#### **1.8** — NEXT STEPS

Next steps in the project process:

- City Council Acceptance of Final Report
- Select Preferred Project Delivery Method
- Select Architect / Engineer Design Team
- Authorize A/E to Proceed With Design



# **Existing Facilities Analysis**

# SECTION 2 Existing Facilities Analysis

#### 2.0 - OVERVIEW

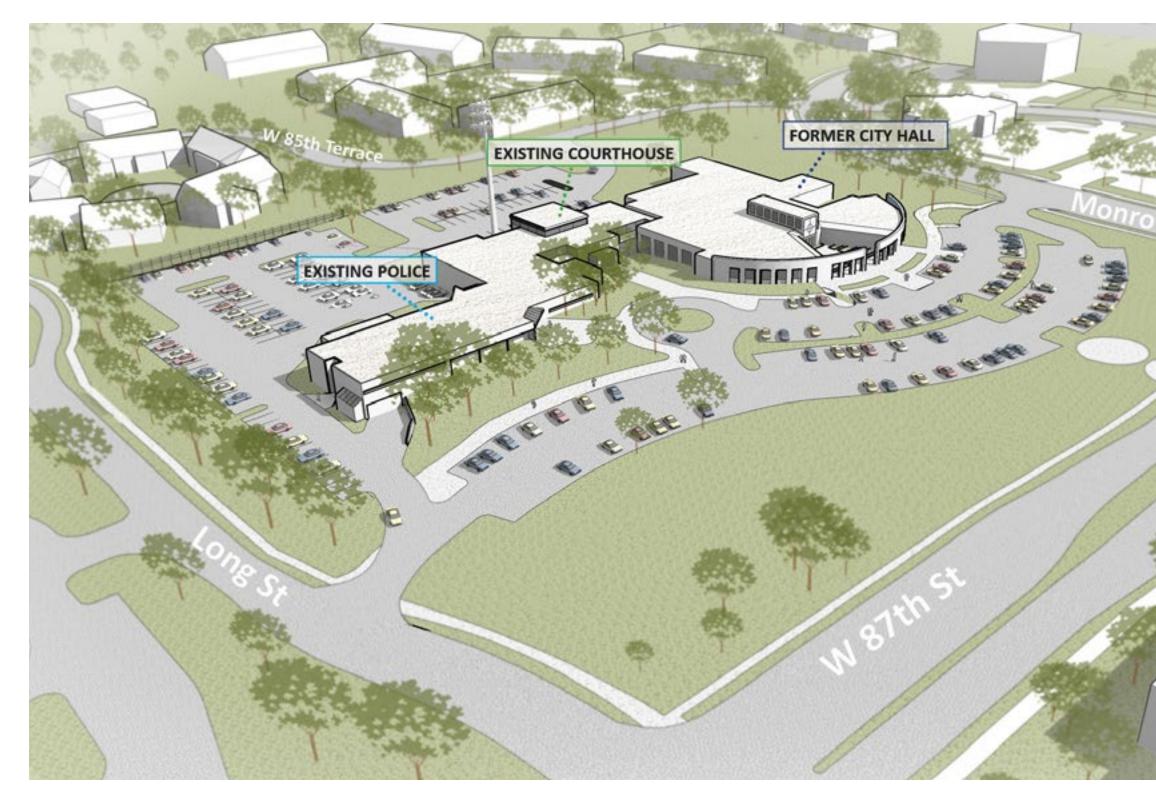
The existing site and building was studied to determine the feasibility of its reuse. It was determined that reutilization of the existing building would not hold the required program, as diagrammed on the following pages. In addition, the required secured parking for police operations would not fit to the north of the existing building complex with the addition of structured parking to accommodate full build out of future and present parking requirements. Further study, showed that program for building and site would fit at this campus, but would necessitate rebuild of complex to ensure best organizational and functional layouts. Having come to an understanding of the facts regarding space needs and existing facilities, the planning team was commissioned to propose a concept plan to meet the needs on the current site, and an alternative concept plan to meet the needs on a new site.

#### 87th Street Campus

POLICE DEPARTMENT
• 87th Street: Upper Level
• 87th Street: Lower Level
<ul> <li>Offsite Storage &amp; Support (Adj. to Fire Station 3)</li> </ul>
MUNICIPAL COURT
IT
LIVEWELL
FORMER CITY HALL (unoccupied area)
TOTAL BUILDING ARE

Cummont Duildin						
Current Building Area (square feet)		<b>Staffing</b> Authorized				
44,745	108	10	149			
16,883						
22,557						
5,305						
8,416	13	60	13			
4,619	12	2	12			
2,910	4	3	4			
34,467	23	77				
95,157						
-	Area (square feet) 44,745 16,883 22,557 5,305 8,416 4,619 2,910 34,467	Area (square feet)         Park Staff / Visito           44,745         108           16,883	Area (square feet)       Parking Staff / Visitor / Public         44,745       108       10         16,883       1       1         22,557       1       1         5,305       1       1         8,416       13       60         4,619       12       2         2,910       4       3         34,467       23       77			

### 2.1 - EXISTING FACILITY CONFIGURATION



ORIGINAL POLICE FACILITY	1980
ORIGINAL CITY HALL	.1980
MUNICIPAL COURT	.1994
CITY HALL ADDITION	. 1996

SIte Area: 10.4 acres Total Building Area: 89,851 S.F.

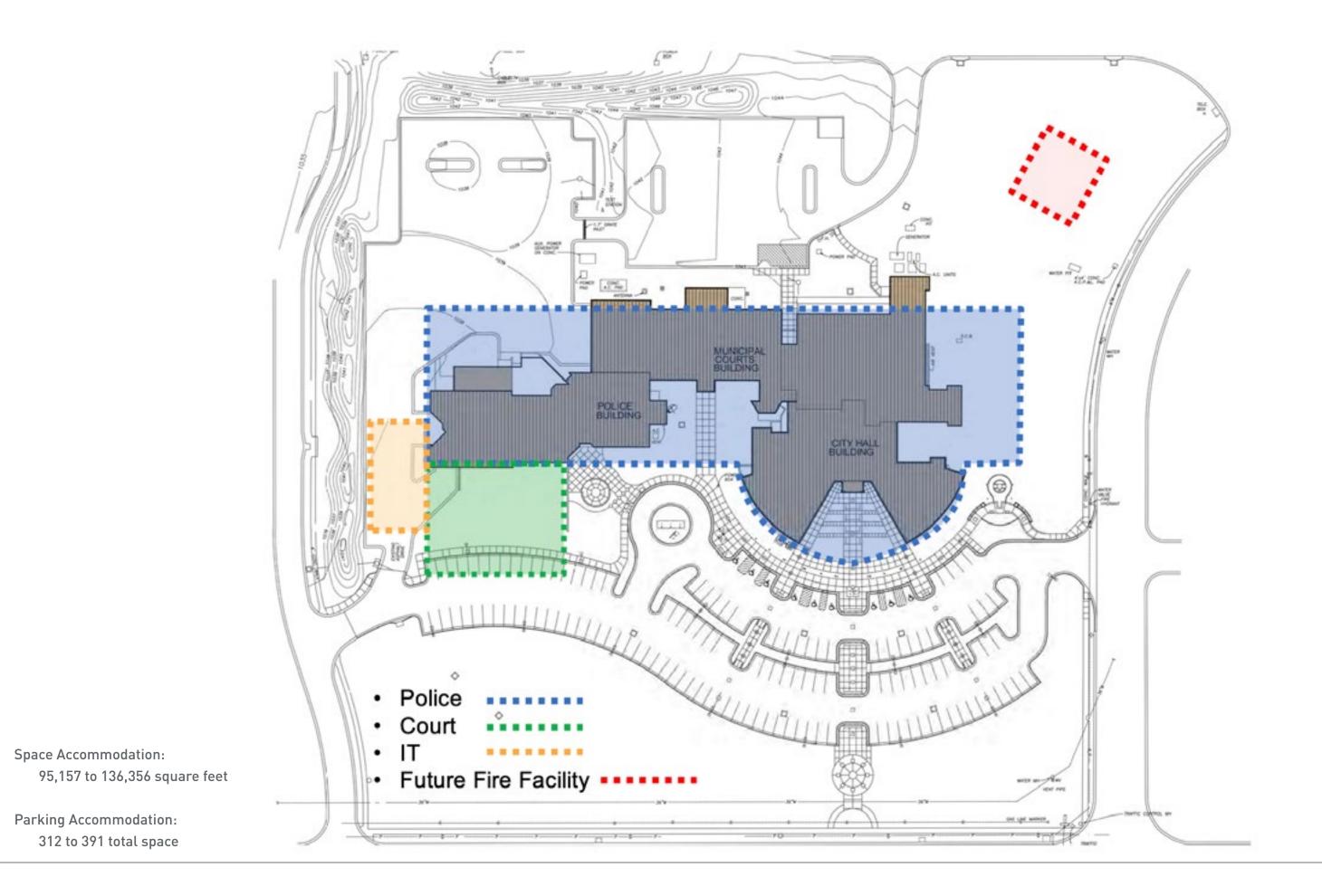








LENEXA PUBLIC SAFETY MASTER PLAN



#### 2.2 - ESTIMATE OF PROBABLE COSTS

As part of this process, our team completed an assessment of the existing buildings and site, including evaluating condition of space, maintenance requirements and replacement needs. Items were categorized as needed repair/maintenance costs or as renovation costs. It was determined that some repair/maintenance costs may be required in the interim while a new public safety complex is constructed, regardless of which location concept is chosen.

#### City of Lenexa - former City Hall, Current Police and Courts Facility

ltem	Scope	Repo	air/Mainten. Cost	<b>Renovation Cost</b>	1	otal Cost
	Architectural and associated Plumbing & Electrical Costs					
1	New Roof System		\$1,709,033			
2,3 & 5	New windows at Main Hallway, fixed glazing and logo at entry and new doors at entry vestibule		\$178,789			
4	Power Wash & Seal Exterior Masonry walls	\$	78,212			
6	New Concrete for Rear Entrance	\$	73,688			
7	Repaint Metal Railing at Back entrance	\$	2,262			
8	Repair Foundation Leaks	\$	45,247			
9	Repaint former City Hall building			\$ 103,421		
10	Replace acoustical ceiling panels throught former City Hall building as well as Police and Courts Facilities			\$ 439,540		
11	Upgrade lighting from flourescent to LED			\$ 934,021		
12	Replace Carpet at Former City Hall Administratin Area			\$ 129,276		
13	New Furniture and Cubicles			\$ 1,221,661		
14	New Switchgear	\$	659,309			
15 & 17	Repair Underground drain for front gutters and repair front entry sidewalks	\$	72,912			
16	Repair Rear Parking Area	\$	145,759			
18	Fountain Needs to be repaired.	\$	51,711			
19	Refinish all interior doors			\$ 46,863		
20	New Rear Entry Door operator	\$	2,586			
21	Install Snow Guards at Rear Entry	\$	5,817			
22	Restroom Refresh			\$ 478,646		
23	Repair General Plumbing Issues thoughout building	\$	219,770			
24	Addition of Courts (1500 SF)			\$ 750,000		
	Sub Total	\$	3,245,094	\$ 4,103,428	\$	7,348,522
	Mechanical, Electrical and Plumbing Costs Only					
	MEP Existing City Hall Building	\$	1,104,100			
	MEP Existing Police Department Building	\$	693,500			
	MEP Existing Courts IT Building	\$	185,100			
	Sub Total	\$	1,982,700		\$	1,982,70
	Total					\$9,331,22



# **Police Facilities Best Practices**

#### SECTION 3 **Police Facilities Best Practices**

#### **3.0 - SIMILAR FACILITIES**



Gardner KS Police & Courts



Glen Ellyn IL Police



Aurora IL Police & Courts



Leawood KS Police & Courts

Arlington Heights IL Police



ep in nple acilities	Project Completion	COMMUNITY
wed many new Police		City of Lenexa (Yr 2019)
od, Gardner and	2018	Leawood Justice Center
or Lenexa.	2016	Blue Springs Public Safety Building
emporary	2012	Shawnee Justice Center
rrs ago. The ff work	2010	Olathe Police (Expansion)
	2016	Overland Park (Fire Station & Police Sub-Station)

Visiting recently built, comparable police facilities was an important and beneficial step the planning process. A trip to Chicago afforded the team an opportunity to visit exam projects in five separate communities over a two-day period. The team toured Police Fa in Aurora, Glen Ellyn, Arlington Heights, North Aurora and Oswego. The projects show features, planning and design concepts and technical details that were applicable to a n Municipal Court and IT facility for Lenexa.

The planning team also toured recently completed police and court facilities in Leawood and Blue Springs. These projects also included features, planning and design concepts a technical details that were applicable to a new Police Municipal Court and IT facility for

These projects, all constructed in the past several years, made evident how much conter police facility design has changed since Lenexa's original facility was designed 40+ year buildings toured have many planning concepts and technical features in the police staff areas that respond to the need for efficiency and effectiveness.



COMMUNITY COMPARATOR											
Population	Land Area square miles	PD Staff FTE									
53,553	34.05	149									
85,000	34.05	236									
34,659	15.11	84									
54,945	22.36	140									
65,513	41.87	118									
137,472	60.94	228									
191,278	75.14	331									

#### **3.1 - OFFICER TRAINING**

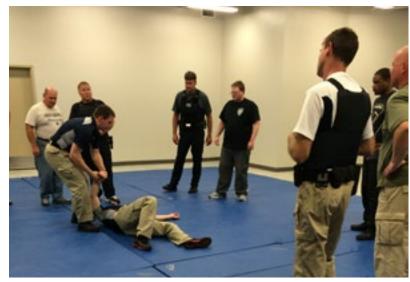
There are several components to each Police Department training program that are commonly being included in new police facilities. These components respond to the need to keep officers proficient and sharp in the skill sets they will use as they carry out their daily duties. Classroom training from new computer applications, to a host of specialized skills officers will gain to better serve the safety needs of a diverse resident and visitor population. Defense and arrest tactics need to be learned and available to be put to use with seconds of notice. Firearms proficiency skills and other use of appropriate force skills are essential. Simulation training that employs digital technology has also gained usefulness in many training programs.

Professional training instructors help officers be prepared for how and when use of appropriate force may be needed. Trainers also helps hone officer skills for how to deescalate tense situations. In addition, training helps police records staff, emergency communications staff, supervisory staff and staff that deploy technology to do their jobs with excellence.

Training is important for another reason. Young officers have been motivated to choose a police department that offers a robust training program. The reason is simple; good training protects them and the citizens they serve. In an era when each municipality may find themselves competing for new recruits with other communities, the department with a well-equipped training program can be a distinct benefit for the community. Lenexa prides itself on providing the best training that serves to protect all of its employees and its citizens.







Defense Training

#### **3.2 - COMMUNITY ENGAGEMENT**

The buildings toured each allowed the police departments to provide excellent customer service with a user-friendly public lobby. Each building has a Community / Training room that facilitates the police department to serve and engage with community members as they practice the "Community Policing" philosophy that strengthens communication and a sense of partnership between the PD and community

residents. These rooms off the public lobby are consistently used for meetings with community groups. The room also serves to meet the need for on-going training for police staff.



Multi-Purpose Room



Multi-Purpose Room



Multi-Purpose Room

#### 3.3 - OFFICER SAFETY

Police officers have chosen to put themselves in potentially harmful situations to protect others. Their training teaches them to manage risks to their safety, and they routinely have opportunity to call for backup when risky incidents arise, sometimes without notice or forewarning. In police building design, the focus is also to minimize risks to officer safety wherever possible. Our focus on police facility design for 30+ years has taught us to prioritize the importance of officer safety from the initial concept design through to the execution of the design and construction details.

There are areas of the building, to include the Arrestee Processing area and Interview Rooms, that are known to have higher risk due to potential physical conflict with uncooperative persons in custody. In these areas proven best practices for design for officer safety and getting the details right are especially important. It is important for the details of the design in these areas to be carefully reviewed with officers who will work in the area to help determine the most advantageous ways to protect officer safety.



Arrestee Interview Room



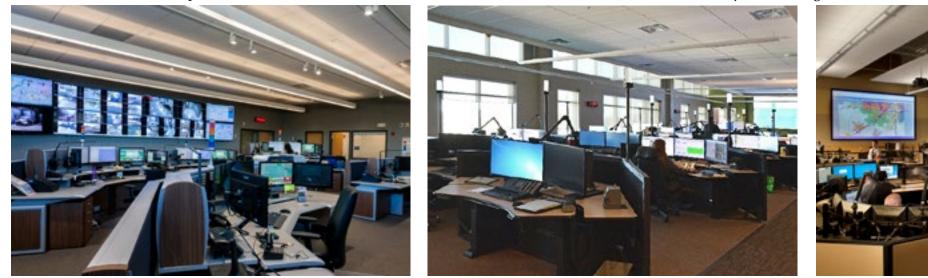
Vehicle Sally Port

#### **3.4 - COMMUNICATIONS CENTER**

Arrestee Booking

The 911 Communication Center is a "mission critical" area. It needs to function continuously over the life of the building, even during extreme weather events and crisis events of human instigated causes. People in Lenexa depend on the resiliency and responsiveness of the professionals that operate the 911 Center, often in situations that have the potential to save both civilians and officers' lives.

The purpose-designed nature of this work area relies heavily on technology, functionality and a safe, protected environment. There are design standards and best practices for the design of this area that have been taken into account in the Master Plan work effort. The prime directive is that this center continue to operate and provide service across the city before, during and after, whatever incidents may come.



Communication Center

**Communication Center** 

**Communication Center** 



#### **3.5 - PROPERTY AND EVIDENCE**

Property and Evidence collection, processing and storage is a function of the police department that has evolved a great deal over the last 10 to 20 years. The use and increasing effectiveness of Forensic Evidence sciences to identify persons involved in crime incidents has become an essential tool in the hands of Police professionals. It is anticipated that the sciences will continue to evolve and increase in effectiveness.



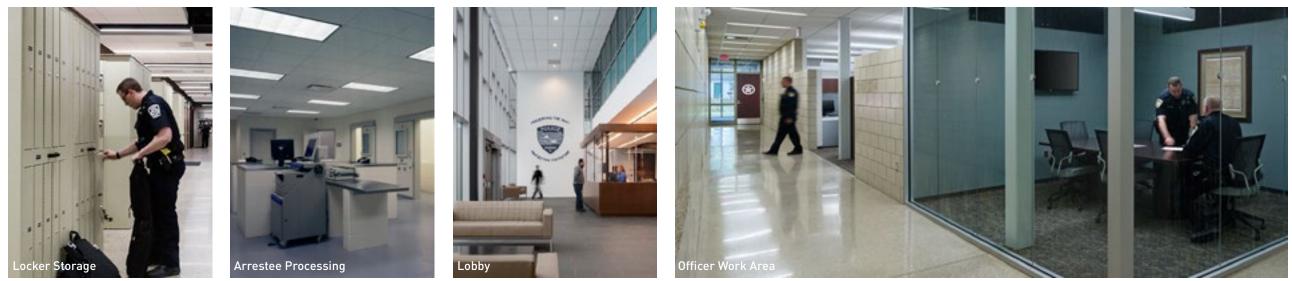
The need for integrity of the "chain of evidence" has brought forward best practices and policies that validate and verify evidence linked to each criminal incident that will likely become a court case. Integrity of evidence handling procedures is crucial to the delivery of justice in court cases. The Space Needs Assessment and conceptual planning work efforts of the Master Plan have considered and addressed this important function.



#### **3.6 - OPTIMIZED ADJACENCIES**

Highly efficient and effective operations for all Police Department functions can be achieved through careful and thorough planning. The diverse functions the Police Department carries out its duties to perform, vary a great deal from area to area of the building. The Arrestee Processing area is completely different from 911 Communications, as Property and Evidence collection, processing and storage is from Detective, Patrol and Traffic officer work areas. It is important to design each unique area of the building to respond to the purposes and duties of police staff who will work in each area.

Effectiveness and efficiency can be enhanced by planning the building in such a way as to bring all the diverse work areas together, to allow the Police staff to provide services to the community as "One Team". This potential to enhance communication and collaboration among staff of all duty assignments has been considered in depth and integrated in the work of the Master Plan.





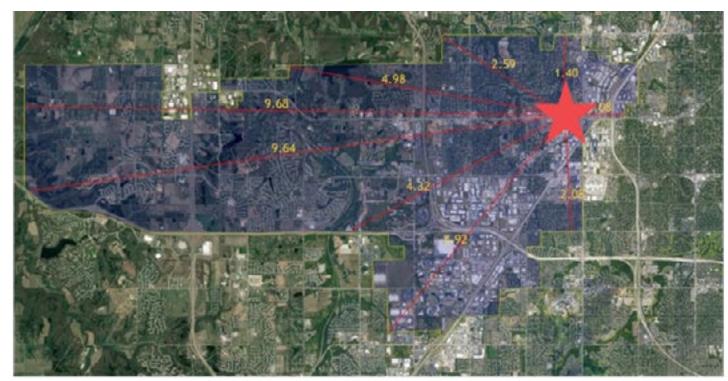
#### **3.7 - CENTRAL LOCATION IN THE COMMUNITY**

When a Police facility is located in a central location within the geographic footprint of the community they serve, there are three primary benefits and advantages.

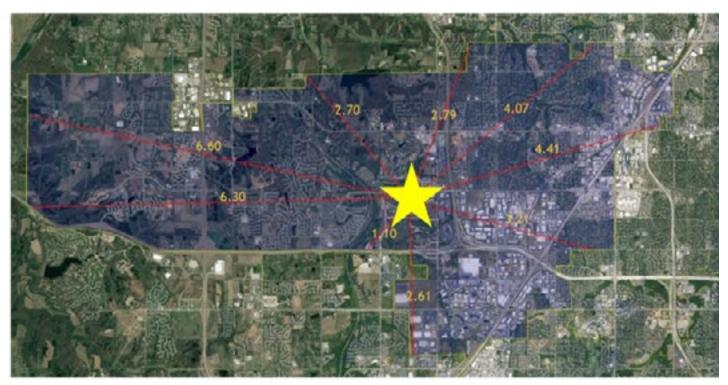
Access to the Police facility for residents who dwell in any part of the community allows access to services that each resident should have. A central location serves this function well.

Access for Police staff to respond to an urgent need for police services at any location in the community is important. It is understood that police officers on duty carry out their assignment by patrolling assigned designated districts within the community and these officers will be the first to respond to an urgent incident. However, most officers "call for backup" as a standard protocol to provide an appropriate response. Often the backup comes from the police facility. It is not uncommon for officers to go back and forth from the police facility to the scene of an incident as the incident evolves over a period that may last for minutes but can take several hours to fully process the scene of the incident. In such situations, time is critical. A facility located central to the community gives officers the best opportunity to provide expeditious response. There are many precedents of the advantages of a central location as has been in many suburban communities, including the example facilities visited by the planning team. It is noteworthy the three other communities in Johnson County have decided to build new police facilities in a central location in recent years. In each case, the new facility replaced an older facility that was located near to the edge of the community. The maps shown here demonstrate the precedent that has been set in Leawood, Shawnee, and Overland Park.

The orange numbers in the diagrams below represent travel times from the police department to the designated perimeter of the city.



Existing Site Location - Lenexa Police Department



Test Site Location - Lenexa Police Department

### **3.8 - ADJACENT CITIES RELOCATION**



**LEAWOOD** Police Old Location



Police New Location



**SHAWNEE** Police Old Location



**SHAWNEE** Police New Location



**OVERLAND PARK** Police Old Location



**OVERLAND PARK** Police New Location





#### 4.0 - SUMMARY

One of the prevailing questions to be answered by the Master Plan is: How much building space is needed to accommodate the current and future needs of the Police Department, Municipal Court and IT Department? Put simply, the answer is PD – 104,500 sf, Court - 12,500 sf and IT - 6,100 sf. This section of the report shows the expanded outcome of the master plan process that has been conducted to determine well substantiated answers to this question. The process included requests for input from staff that work in all sections and units of the police department. Staff completed surveys tailored by the planning team to request input for the unique requirements of each duty assignment. The surveys were followed by interviews with staff who completed surveys. The combination of survey responses and staff interviews provided the planning team with instructive insight that was used to determine appropriate

							Spa P	ce N RIM	eed ARY	s Acce ' POLI	essme CE F/	nt Su ACILI	mmary TY				
N	tilestones	Autho 20		20	22	20	32	20	42					2022	2032	2042	
	N	014/	NO		affing F	<u> </u>		014/	NO		arking Sp		Existing Building Area	Area Totals	Area Totals	Area Totals	Remarks
	worn or Nonsworn	SW	-	SW		SW	NS		NS	Public	Fleet	Staff					
	ublic Access Areas	0	0	0	0	0	0	0	0	50	0	0	1,040	5,708	5,708	5,708	
	ublic Service Officers	1	12	1	12	1	19	1	25	3	1	10	972	1,706	1,766	1,766	
	Chief / Administration	5	1	5	1	5	1	5	1	2	5	1	1,858	2,391	2,391	2,391	
	10/ Community Affairs	1	0	2	0	3	0	4	0	0	4	4	216	530	610	690	
	ichool Resource Officers	4	0	4	0	5	0	6	0	0	6	6	285	510	570	630	
	Police - IT	0	5	0	6	0	7	0	7	0	0	7	374	1,341	1,341	1,341	
7 P	atrol Division	66	2	66	2	89	2	109	2	0	66	65	2,979	8,427	8,487	8,847	
	rrestee Processing	0	0	0	0	0	0	0	0	0	0	0	2,530	6,415	6,415	6,415	
	nimal Control Unit	3	0	3	0	3	0	3	0	0	3	3	135	240	240	240	
	irected Patrol Unit	5	0	5	0	6	0	7	0	0	7	7	240	740	820	900	
	vestigations Division	15	1	15	1	20	1	25	1	0	23	26	4,814	4,900	5,220	5,540	
12 C	communications Unit	1	17	1	17	1	23	1	29	0	0	14	1,920	3,807	4,308	4,552	
	ockers - Fitness	0	0	0	0	0	0	0	0	0	0	0	2,905	5,292	5,861	6,793	
14 S	taff Support Areas	0	0	0	0	0	0	0	0	0	0	0	848	1,736	1,736	1,736	
	uilding Support Areas	0	0	0	0	0	0	0	0	0	0	0	2,270	2,739	2,739	2,739	
15 C	Off-site Police Storage & Support	0	0	0	0	0	0	0	0	0	0	0	5,305	0	0	0	Adj. to FS 3
16	Subtotals	101	38	102	39	133	53	161	65	55	115	143	28,691	46,483	48,213	50,289	Department Gross Area
22	Gross Area Totals												32,102	57,639	59,784	62,359	Building Gross Area
							SEC	CON	IDAF	ry po	LICE	FACI	LITY				
23 T	raffic Unit	0	0	0	0	0	0	0	0	0	0	0	124	1.838	2,417	2,997	Traffic garage space
24 B	like Unit	0	0	0	0	0	0	0	0	0	0	0	0	332	332	332	
25 K	-9 Unit	0	0	0	0	0	0	0	0	0	0	0	0	588	588	588	
26 P	roperty/ Evid Storage	0	0	0	0	0	0	0	0	0	0	0	2,096	4502	5408	6000	
7 E	vidence Processing	0	0	0	0	0	0	0	0	0	0	0	628	188	188	188	
28 T	actical Team	0	0	0	0	0	0	0	0	0	0	0	550	2,079	2,079	2,079	Area includes tactical garage
19 T	raining Unit	4	0	4	0	4	0	4	0	0	4	4	3,373	8,013	8,013	8,013	Firing range area below
io Ir	ndoor 25 Yard Firearms Range												0	8,126	8,126	8,126	8 lanes
11	-Including range support spaces																
	echnical Services	0	6	0	6	0	6	0	6	0	0	6	2,800	5,612	5,612	5,612	
13	Subtotals	4	6	4	6	4	6	4	6	0	4	4	9,571	31,278	32,764	33,935	Department Gross Area
34	Total Staff and Parking Required	1	0	1	0	1	0	1	0	0	8						
9	Gross Area Totals												12,642	38,784	40,627	42,080	Building Gross Area
10	PRIMARY POLICE BUILDING												32,102	57,639	59,784	62,359	Building Gross Area
1	SECONDARY POLICE BUILDING												12,642	38,784	40,627	42,080	Building Gross Area
2	COMBINED TOTAL												44,744	96,424	100,412	104,438	Building Gross Area

space allocation for each section and unit of the PD. This process was also used for Municipal Court and IT. The deliverables of this work are the list of staff members, parking needs, spaces, sizes and detailed requirements for each section. Adjacency diagrams for each area were created, reviewed with staff members, edited based on input received. Sample adjacency diagrams are included in this section of the report.

A summary of the Space Needs for Police is included here, along with a detailed breakdown of needs for key groups of spaces including Public Access, Communications, Patrol and Arrestee Processing. A detailed list of spaces is included for Municipal Court and IT.

#### SPACE ACCOMMODATIONS

87th Street Facility Sp	ace	Space Nee	ds
			Planning Milestone Year 2042
Police Department	44,745 S.F.	Police Department	110,744 S.F.
Municipal Court	8,416 S.F.	Municipal Court	13,617 S.F.
Information Technology	4,619 S.F.	Information Technology	7,170 S.F.
LiveWell	2,910 S.F.		
Unoccupied (former City Hall)	34,467 S.F.		
TOTAL EXISTING SPACE	95,157 S.F.	TOTAL SPACE NEEDED	131,531 S.F.

#### **BUILDING SPACE & PARKING NEEDS**

Planning Milestone 2042

DEPARTMENT SPACE	BUILDING AREA	PARKING					
	Square Feet	Staff & Fleet Vehicles	Public/Visitor Vehicles				
Police Department	110,744	217	60				
Municipal Court	13,617	18	60				
Information Technology	7,170	16					

#### SPACE NEEDS ASSESSMENT SUMMARY - MUNICIPAL COURT

Milestones	Autho 20	orized	Move-ir 2020		+1 2030	+ 20					М	+1 Areas	+2			Move-in	+1	+2	
	20	18	2020 Staffin			20	40	# of P	arking Spa	ces	Numb	Areas er of Sp	aces	Space	Existing	Area	Area	Area	Remarks
Sworn or Nonsworn	FT	PT	FT P	· · ·		FT	PT	Public		Staff				Code	Building	Totals	Totals	Totals	
Public Lobby											1	1	1	500	1,784	500	500	500	
Public Entry Vestibule											1	1	1	80		80	80	80	
<ul> <li>Waiting Area/ Seating</li> </ul>											25	25	25	12		300	300	300	
<ul> <li>Court Clerk Public Window</li> </ul>											1	1	1	108		108	108	108	
<ul> <li>Information Kiosk</li> </ul>											1	1	1	25		25	25	25	
<ul> <li>Display Area</li> </ul>											1	1	1	48		48	48	48	
Public Toilets															236				
<ul> <li>Women's Restroom</li> </ul>											1	1	1	162		162	162	162	
Men's Restroom											1	1	1	162		162	162	162	
<ul> <li>Restroom Privacy Vestibule</li> </ul>											1	1	1	40		40	40	40	
Janitor Closet											1	1	1	48	34	48	48	48	
Security Screening Station																			
Cueing area for Security											25	25	25	12		300	300	300	
screening																			processed through security screening
Package scanner + metal detector											1	1	1	200		200	200	200	Located in/or near Col
r donago soarnor - metar deteotor														200		200	200	200	Security Workstation
Court Security officer workstation			2		3						3	3	3	64		192	192	192	
Waiting Area/ Seating											25	25	25	12		300	300	300	inside security
Attorney / Client Conf room											3	3	3	100	240	300	300	300	inside security
-																			
Court Room									120						1,350				
<ul> <li>Judge's Bench</li> </ul>											1	1	1	400		400	400	400	Judge bench, witness
Well area											4	1	1	400		400	400	400	stand, clerk workstatic Prosecutor table,
Weil area											1	1	1	400		400	400	400	Defense table, Bailiff
Seating Area											120	120	120	15		1,800	1,800	1,800	area Locate flat panel
County / Tou											120	120	120	10		1,000	1,000	1,000	display/TV around roo
Table/chair Storage											1	1	1	140		140	140	140	
A/V Equip. Closet											1	1	1	STOR1		40	40	40	
Court Clerk															1,448				
Public Information Counter			0		0					~	4	4	4	50	74	200	200	200	
<ul> <li>Clerk Workstations</li> <li>Court Manager</li> </ul>			6		6					6 1	6 1	6 1	6 1	80 120		480 120	480 120	480 120	
Bailiff			1		1					1	1	1	1	120		120	120	120	
Prosecutor			1		1					1	1	1	1	100	150	100	100	100	
Probation Officer			0		1					1	1	1	1	100		100	100	100	
<ul> <li>Warrant Officer</li> </ul>			0		1					1	1	1	1	100		100	100	100	
<ul> <li>Judge Chambers</li> </ul>			1		1					1	1	1	1	150	196	150	150	150	
Meeting Room/ Flex Office			1		1					1	1	1	1	120		120	120	120	
Staff restrooms											2	2	2	80	30	160	160	160	
Break room Conference room											1 1	1 1	1 1	150 240	158	150 240	150 240	150 240	
Copy / work room											1	1	1	120	150	120	120	120	
Storage room											1	1	1	120		120	120	120	
														-			-		
Secure holding area												,	,	00	140				
<ul> <li>holding cell</li> <li>officer report writing station</li> </ul>											4	4	4	80	110	320	320	320	
<ul> <li>officer report writing station</li> <li>staging area</li> </ul>											1	1 1	1 1	40 110	15 128	40 110	40 110	40 110	
<ul> <li>staging area</li> <li>storage</li> </ul>											l '	1	'	110	90	110	110	110	
Future On-site probation																			
Future UA Testing																			
Subtotals	0	0	0 1	3 0	16	0	0	0	120	13				1	6,043	8,295	8,295	8,295	Department Net Area
Circulation 25% Net Area															807 6,850	2,074	2,074	2,074 10,369	Adjustment factor Department Gross Are
Subtotals	0	0	0 1	3 0	16	0	0	0	120	13					6,850		10,369		
tal Staff and Parking Required		0	13		16	Ŭ		Ů	133							.,	.,	.,	
- Exterior Wall 6%																622	622	622	
- Circulation between work ar 8%																830	830	830	
- Structure/ MEP 7%										Ĩ						726	726	726	

#### SPACE NEEDS ASSESSMENT SUMMARY - IT DEPARTMENT

Milestones	Authorized 2018	Move 202		+1 2030	+2				-	+1 +2 reas		1	Move-in	+1	+2		
-		Staf	fing Pr	ojection			# of Parkin		Nun	nber of	Space	Existing	Area	Area	Area	Remarks	
Sworn or Nonsworn	FT PT	FT	PT	FT PT	FT	PT	Public Fle	eet Staff	Sp	aces	Code	Building	Totals	Totals	Totals		
EST Staff EST Director	1	1		1	1			1								See space below	
Justin Rairden Database Administrator Matt Jones	1	1		1	1			1								See space below	
Solution Center Analyst Darian Johnson, Sam Wheeler, Laura Ba	3 rtly	3		3	4			4								See space below	
Network Architect Andrew Drunnond	1	1		1	1			1								See space below	
GIS Specialist Ken Ivey	1	1		1	2			2								See space below	
Application Support Specialist Lance Johnson	1	1		1	1			1								See space below	
System Administrator Joshua Love	1	2		2	2			2								See space below	
Programmer Jessica Paisley	1	1		1	1			1								See space below	
Systems Engineer Anthony Sitzes	1	1		1	1			1								See space below	
Developer Chris Stillwell	1	1		1	1			1								See space below	
Waiting/ Reception									1	1 1	WTG2		63	63	63	Visitors. Cell phone drop-off, etc.	
EST Office Suite Network Architect									1	1 1	OP3	3,285	80	80	۶n	Workstation in shared office	
Network Architect Systems Engineer System Administrator Solution Center Analyst Admin. Assistant/ Reception									1	1 1 1 1 2 2 4 4 1 1	OP3 OP3 OP3 OP3 OP1		80 80 160 320 48	80 80 160 320 48	80 160 320	Workstation in shared office Workstation in shared office	
Intern/Flex/Vender Workstation • Group dashboard for Solution & I • Copy/ Print Station GIS Office	nfrastructi	re							1 4 1	1 1 4 4 1 1 2 2	OP1 4 60 OP3		48 16 60 160	48 16 60 160	48 16 60	Line of sight to suite entry Wall monitors (4-display dashboa Counter/ cabinets. Supply storag Workstations in shared office	
Application Support Specialists Offi Programmer	ce								1 1 1	1 1 1 1 1 1	P01 P01 P01		110 110 110	110 110 110	110	Private office Private office Private office	
Developer Office Database Administrator EST Director									1	1 1 1 1	P01 P01 P04		110 110 168	110 110 168		Private office	
PC/ Network Build & Test Room • Computer workbench • Workbench/ Counter • Work table									1 1	2 2 1 1 1 1	80 80 80		160 80 80	160 80 80	80 80	Standing height. Stools	
Solution Center Storage     Network/ Server Equip Storage									1 1	1 1 1 1	120 80		120 80	120 80			
Conference/ Collaboration Room										20 20	36	430	720	720			
Conference Room Meeting Room Informal meeting/ Team collaboration	ı								1 1 3	1 1 1 1 3 3	CNF8 CNF4 38		180 120 114	180 120 114	180 120 114	Table, chairs Informal seating (swivel tablet de	
Break station • Kitchenette									1	1 1	90		90	90	90	surface) Counter, cabinets, refrigerator,	
																microwave	
Data Center (5) Primary Racks (23.6w x 78.74h (5) Two-post relay telcom racks UPS	x 41.34d)									1 1 1 1	500 150		500 150	500 150		Area included above Area included above	
Staff Restrooms • Women's Restroom (1st Fir, 2nd • Men's Restroom (1st Fir, 2nd Fir • Restroom Privacy Vestibule									2	2 2 2 2 2 2	T2U1 T2U1 25		0 0 0	0 0 0	0	2-Lavs, 1-WC, 2-UR (shared)	
Restroom Privacy Vestibule Training Classroom										12 12	25		0	0			
Subtotals Circulation 25% Net Area	12 0	13	0	13 0	15	0	0 0	) 15				3,715	4,037 1,009 5,046	1,009	1,009		
Subtotals	12 0 12	13 13		13 0 13	15 15		0 0	) 15 15				3,715	5,046	5,046	5,046	Department Gross Area	
Total Staff & Parking Required - Exterior Wall 6% Circulation between work a. 8%	12	1 13	·	13	1 13	· 1	v	13					303	303			
- Circulation between work a 8%     - Structure/ MEP 7%													404 353	404 353			
Gross Area Totals		_	-		_	-		1		_			6,106	6,106	6,106	Building Gross Area	

#### **4.1 - FUTURE STAFFING ESTIMATES**

Since the first new police building was built in 1980, Lenexa has been, and continues to be a steadily growing city. Therefore, significant attention has been given to understand and plan for future police department growth.

Because future staff growth is a determinant of operational needs and building size, the police department has commissioned a detailed staff growth study from academic professionals who specialize in estimating future PD staff growth. The tools used to develop the estimate for LPD future staff consider a complex set of factors that have been proven to be primary contributors to staff growth in Lenexa and other comparable cities. The conclusions reached from the future staffing study are data-driven and specifically tailored to the population, geography and historical calls for service of Lenexa.

#### **WORKLOAD ANALYSIS - DETERMINATION OF STAFFING NEEDS**

Call for Service and Service Time Variables	Base MAPP: 2018 Data	Variables Changed for 5-Year Strategic Staffing Plan
Annual number of Priority I CFS (includes primary unit only)	543	628
Annual number of Priority 2, 3, & 4 CFS (includes primary unit only)	15,791	18,259
Average service time (minutes) per Priority 1 CFS (includes primary unit only)	63.5 minutes	-
Average service time (minutes) per Priority 2, 3, & 4 CFS (includes primary unit only)	34.2 minutes	
Annual number of back-up unit responses to Priority 1 CFS	1,397	1,615
Annual number of back-up unit responses to Priority 2, 3, & 4 CFS	13,414	15,511
Average service time (minutes) per back-up response to Priority 1 CFS	79.6 minutes	
Average service time (minutes) per back-up response to Priority 2, 3, & 4 CFS	49.6 minutes	
Self-Initiated and Administrative Time Variables		10 million and 10 mil
Performance objective - Self-initiated time in minutes per hour per officer	16.38 minutes	20 minutes
Performance objective - Administrative time in minutes per hour per officer	12.5 minutes	
Response Time Variables		
Performance objective - Response time goal for Priority 1 calls (minutes)	7.0 minutes	5 minutes
Performance objective - Response time goal for Priority 2, 3, & 4 calls (minutes)	14.5 minutes	12 minutes
Area (square miles)	34.4 square miles	
Average response speed (wph) for emergency activities	39 mph	
Average response speed (mph) for non-emergency activities	19 mph	
Immediate Availability Variables		G.,
Performance objective - Percentage of time an officer will be available to immediately		
respond to a Priority 1 call	98 percent	
Percentage of calls for service that cannot be preempted	55 percent	1
Percentage of administrative activities that cannot be preempted	15 percent	
Percentage of self-initiated activities that cannot be preempted	45 percent	5
Visibility Variables		
Performance objective - Visibility objective (hours), highway/arterial readways	4.0 hours	1
Performance objective - Visibility objective (hours), collector/residential toadways	48.0 hours	
Number of miles, highway/arterial roadways	86 miles	
Number of miles, collector/residential roadways	280 miles	
Average patrol speed, highway/arterial roadways (seph)	24 mph	2
Average patrol speed, collector/residential roadways (mph)	14 mph	
Weights for Performance Objectives		
Immediate availability objective weight (percentage)	30 percent	0
Response time goal for Priority 1 calls objective weight (percentage)	30 percent	
Response time goal for Priority 2, 3, & 4 calls objective weight (percentage)	20 percent	8
Patrol visibility objective weight (percentage)	20 percent	1
Leave Percentage		
Average Percentage of Time on Leave	13.28 percent	
Additional Variable		2
Percentage of time patrol units staffed with two officers	1.0 percent	
Number of Authorized Patrol Officers	48	64
Additional Patrol Officers Needed over 5	Years [64-48]	+16

anticipated move-in date of year 2022.

This quantity of staff is used in the spreadsheets to determine quantity of building space and parking area needed.

#### **FUTURE STAFF ACCOMMODATIONS**

DEPARTMENT	Year 2019	Year 2032	Year 2042
Police Department	149	196	236
Municipal Court	13	16	16
Information Technology	12	13	15

### SECTION 4

#### The results of the staffing study were used by the master plan team to allocate space to accommodate 236 PD staff members. This is intended to approximate the staffing levels reached at the future planning horizon 20 years after the

#### 4.2 - VEHICLE NEEDS SUMMARY

We understand, from previous experience with many police facility projects, that these facilities and the sites they occupy are "vehicle intensive". Large quantities of vehicles come and go from the site over any given 24-hour period. It is not uncommon for the vehicle needs to be underestimated leading to a shortfall of site or parking area. Our team has developed and utilized a planning tool that enables an understanding to be gained of the type and quantity of vehicles anticipated to be on site during peak hours, to include factors such as shift overlap.

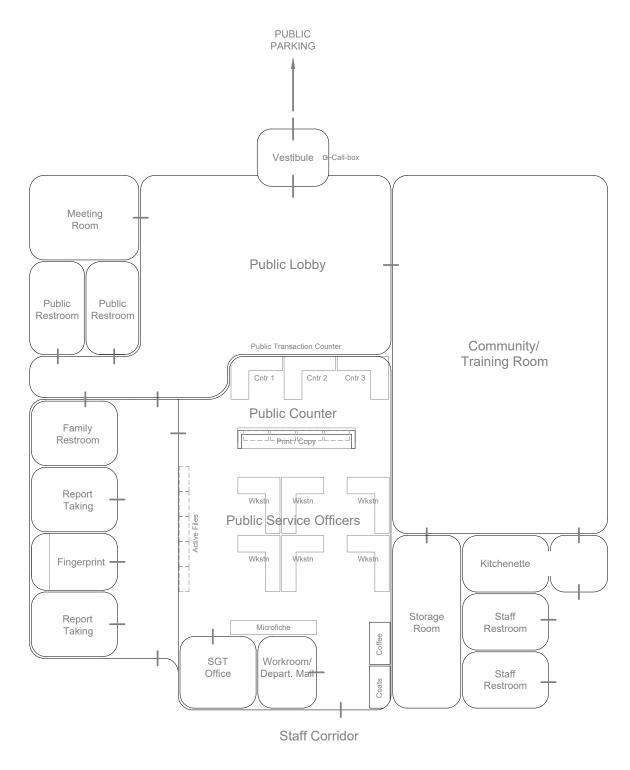
The parking needs have been reflected in the detailed spreadsheets, utilized in this study.

#### 4.3 - SPACE NEEDS PER DIVISION AND UNIT

We have included sample detailed lists of spaces and companion adjacency diagrams, that have been developed and reviewed by staff of each department and approved by department leadership. The sample diagrams included represent some of the critical working components of these important departments of city staff that deliver service to residents and visitors to Lenexa around the clock and throughout the year.

#### SPACE NEEDS ASSESSMENT SUMMARY - PARKING NEEDS

	On-Site Vehicle Accommodations	_				AM	204	2 Park	ing N	eeds	Estim	ate - S	Staff,	Fleet,		ic Visi	tors a	nd Po	olice T	raini	ng Vis	itors		AM		
	24 hour work cycle	2040 Staff	5:00 to 6:00	6:00 to 7:00	7:00 to 8:00	8:00 to 9:00	9:00 to 10:00	10:00 to 11:00	11:00 to 12:00	12:00 to 1:00	1:00 to 2:00	2:00 to 3:00	3:00 to 4:00	4:00 to 5:00	5:00 to 6:00	6:00 to 7:00	7:00 to 8:00	8:00 to 9:00	9:00 to 10:00	10:00 to 11:00	11:00 to 12:00	12:00 to 1:00	1:00 to 2:00	2:00 to 3:00	3:00 to 4:00	to
	Divisions & Units					1									1											
									10 vi	sitor ve	hicles															
							8	employe	ee vehic	les											-					
	PSO's	22													7	employe	e vehic	les		1						
			COI	nt'd																		7	employ	ee vehic	les	
	Community Training Room											sitor ve	hicles		r			1								
	Chief / Administration	6								loyee v																-
	Police - IT	7							7 emp	loyee v		•	(+	la alcalla				-								
	Administration Fleet PIO / Community Affairs	4				1			4.000	loyee v		t venici	es (not	includir	ig iviobi	le comr	nand Ce	enter)	1							_
)	School Resource Officers	6	-							loyee v					ł											
	PIO / Community Affairs / SRO Fleet									.,			:	10 fleet	vehicle	s										
		29					29	employ	ee vehio	les																T
	Patrol Division	29													29	employ	ee vehio	cles	1		Ī					
		29	COL	nt'd																		29	employ	ee vehi	cles	
	Traffic Unit	10							10 emp	oloyee v	ehicles															Τ
	Directed Patrol Unit	7							7 emp	loyee v	ehicles															Ť
	Canine Unit	4	1						4 emp	loyee v	ehicles															T
	Bike Unit	6							6 emp	loyee v	ehicles															T
	Court & Warrant Officers	4	118						4 emp	loyees v	vehicles															
	Patrol Division Fleet													60 fleet	vehicle	s										
	Arrestee Processing																									Τ
	Animal Control Unit	3							3 emp	loyee v	ehicles															
	Animal Control Fleet													3 fleet	vehicles						·		·	·		
	Investigations Division - Includes DEU	26							26 emp	oloyee v	rehicles															
	Investigations Division Fleet													22 fleet	vehicle	s										
		10					10	employ	ee vehio	les																
	Communications Unit	10													10	employ	ee vehio	cles								
		10	cor	nt'd																		10	employ	ee vehi	cles	
	Lockers & Fitness																									
	Property / Evidence Storage (PSO's)	4							4 emp	loyee v	ehicles															
	Evidence Processing (PSOs)																									
	Tactical Team																									
	Tactical Team Fleet			1										7 fleet	vehicles		1	1	1		1		1	1	1	_
	Training Unit	4							4 emp	loyee v	ehicles															_
	Training Unit Fleet			1	1			1	1		1			5 fleet	vehicles		1	1	1	1	1		1	1		_
	Firearms Ramge																									_
	Technical Services	6							6 emp	loyee v	ehicles															
	Staff Services / Misc													7 fleet												
	Special Events			1		1	1				7 f	eet veh	icles (in	cludes I	Mobile	Comma	nd vehic	:le)		1		1			1	_
	Staff Support Areas																									-
	Building Support Areas Total Staff																									-
ļ	Total Stan	236				AM									P	M								AM		
	24 have under ander		5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00		2:00	3:00	4
	24 hour work cycle		to 6:00	to 7:00	to 8:00	to 9:00	to 10:00	to 11:00	to 12:00	to 1:00	to 2:00	to 3:00	to 4:00	to 5:00	to 6:00	to 7:00	to 8:00	to 9:00	to 10:00	to 11:00	to 12:00	to 1:00	to 2:00	to 3:00	to 4:00	
I	Total Parking Needs Summary																									
	Police Public Parking					60	60	60	60	60	60	60	60	60	60	60	60	60								
	Police Employee Parking		46	46	62	111	111	111	111	111	111	111	111	111	62	46	46	46	46	46	46	46	46	46	46	
	Police Fleet Vehicles		130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
	Subtotal Employee & Fleet		176	176	192	241	241	241	241	241	241	241	241	241	192	176	176	176	176	176	176	176	176	176	176	
	10% Reduction factor for time off, vacation, training etc		18	18	19	24	24	24	24	24	24	24	24	24	19	18	18	18	18	18	18	18	18	18	18	
	Police Employee, Fleet Spaces		158	158	173	217	217	217	217	217	217	217	217	217	173	158	158	158	158	158	158	158	158	158	158	:
	Subtotal Police Training Spaces		0	0	0	50	50	50	50	50	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	+
	Employee, Fleet & Training	+ +																								+
	Spaces Total		158	158	173	267	267	267	267	267	267	267	267	267	173	158	158	158	158	158	158	158	158	158	158	
	Municipal Court Public Spaces					60	60	60	60	60	60	60	60	60	60	60	60	60								
						18	18	18	18	18	18	18	18	18												
	Municipal Court Employee Parking					-																				
	Municipal Court Employee Parking IT Employee Parking					15	15	15	15	15	15	15	15	15												T



# Public Access Areas

SPACE ADJACENCY DIAGRAM

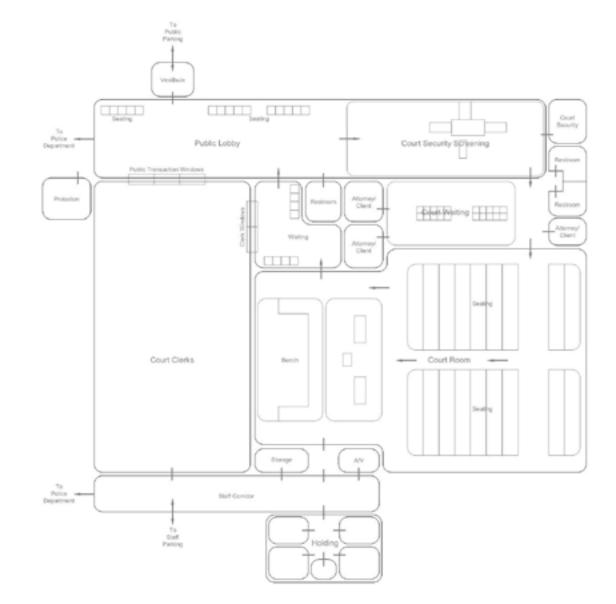
Milestones		orized	Моч		+1		+2					М	+1	+2			Move-in	+1	+2	
	20	18	202		203	-	2040	)					Areas							
Sworn or Nonsworn	SW	NS			Projectio SW		SW	NS	# of F Public	Parking S Fleet	paces Staff		nber paces		Space Code	Existing Building	Area Totals	Area Totals	Area Totals	Remarks
Implicit Access Areas           2         Outdoor areas/ features accessil           3         Public parking           4         Covered, Exchange station (etc.)	ble to	publi	с						50	Hoot	otun			-		1,040				
<ul> <li>Covered, Child safety-seat inst</li> </ul>	spect	tion/ A	ccide	nt rep	ort lan	е														Light well so it can be used for
<ul> <li>6 • Entry Plaza (heated sidewalk</li> <li>7 • Officer's Memorial</li> <li>8 • Flags</li> <li>9</li> </ul>				,																accident reports
<ul> <li>Public Entry Vestibule</li> <li>Prescription Drug Drop (multi</li> </ul>	ple d	rop slo	ots int	o sec	ure are	ea for	bins a	and so	cale)			1 1	1 1	1 1	100 64		100 64	100 64	100 64	
<ul> <li>Public Lobby</li> <li>Waiting Area/ Seating</li> </ul>												1 1	1 1	1 1	900 WTG6		900 144	900 144	900 144	
<ul> <li>Information Kiosk</li> <li>Heritage/ Display Area</li> </ul>												1 1	1 1	1 1	25 50		25 50	25 50	25 50	Can be used to fill in forms for Child seat inspection, etc.
Public Toilets     Women's Restroom     Men's Restroom     Family Restroom     Small Meeting Room												1 1 1	1 1 1	1 1 1	225 225 64 150		225 225 64 150	225 225 64 150	225 225 64 150	3-Lavs, 3-WC 2-lavs, 2-UR, 2-WC
<ol> <li>Report Taking/ Interview Rooms</li> <li>Report Taking Room</li> <li>Report Taking Vestibule</li> <li>Public Fingerprint/ Livescan s</li> <li>29</li> </ol>	statio	n										2 1 1	2 1 1	2 1 1	INT1 100 80		0 0 0	0 0 0	0 0 0	See Public Service Officers
<ul> <li>Community / Multi-purpose Roor</li> <li>Table/chair Storage</li> <li>A/V Equip. Closet</li> </ul>	n											125 1 1	1 1	1 1	20 STOR4 STOR1		2,500 150 40	150 40	150 40	Storm shelter/ resilient structure- enclosure
<ul> <li>SRO/ PIO Training Storage</li> <li>Pre-function Area</li> <li>Registration (table space)</li> <li>Coats</li> </ul>												0 0 0 0	0 0 0 0	0 0 0 0	STOR2 400 50 30		0 0 0 0	0 0 0 0	0 0 0	See SRO Unit
<ul> <li>38</li> <li>39 Community Room- Outdoor pation</li> <li>40</li> <li>41 Kitchenette</li> </ul>	p											0 1	0	0	0 120		0 120	0 120	0 120	
42 43 Subtotals	0	0	0	0	0	0	0	0	50	0	0		1	'	120	1,040	4,757	4,757	4,757	Department Net Area
44 Circulation 20% 45 Net Area	v	v	V	v	U	v	J	J	00	v	0					1,040	951 5,708	951	951	Adjustment factor



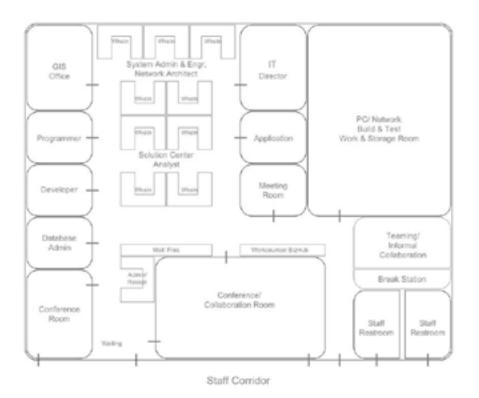
Westeres	2018	202		20.00	2					+1. Armei	+2			Mawit.	-1	4		Ministeries	20
	-		tra ha		-		d Parting To	-	See the	e of Say		Tper+		Acat Totals	Area	A-80	Renato		
Sase or Nonseen	W N	101	N5   8	W NS	100	85 14	No Fled	141	-		-	Cede	Dutling	_	Table	Table		Sector Nonesett	94
Patrol Distalion Capitalo	4	4		4	4		2	2		4	4	165		472	672	672	Prieto Office	- Staff Vandhalle	
Meeting youry / Subject	1	1		1	1		0	0	i.	1	1	168		168	108	168		= •Mut Areal boot wash	
Admin Assistant	1		1	.1		1		1		1	1	OP4		110	\$190	590	Wolcheiter	-	
Patrol Teams													5.194				Carrielly System Addison	<ul> <li>Buf Hat Officer Entry Area</li> <li>State To down Street as from</li> <li>Officer Duty Bag Strengt Lo</li> </ul>	-
Su# (0700 - 1500)																			
Segnet	2	2	1	2	2		2	2	2		2	OP3		160	190	100		<ul> <li>Specificity Room</li> <li>Restance Texts</li> </ul>	
Corporal		1		2	2		1	1	1	1	2	OPS		- 10	80	100	Multilation in shared effort	<ul> <li>Entering Table</li> <li>Counterl Storage cobinets I</li> </ul>	inter .
Officers	11	11		17	39		- 22	22									See Report Writing below	10	T
Shift/1500-2300																		· Depart Milling Acap	
Segent	2	2	1	2	2		2	2	2	2	2	093		160	100	160	Matchdow is shared	* Officer Deska	
Corporal	1	1	1	2	2		1	1	1	1	2	OP3		80	80	190	Workshallon in shared office	··· PrintCape/Scan/Fax (Sch)	11
Officers				17	29							1.1		- 10		10	See Report Willing John	·* - Form Danager Supplies	1
Officers				0	10		22	22									See when word new	In Office Malbores	
Shift (2000 - 0700)																		Page - Officer File Drawers - 100 d	Prosent li
Sergeant	2	2		2	2				2		2	OP9		160	100	190			
Corporal	1			2	2				1		2	099		- 80	80	100	Materiales in shared effer	19 Pales Environment Manager	
Officers	11	22	1	17	29												See Report Whilepitelas	See applement more holes	
									1.0								Workshold on a shared office	- Detai Environent Franz	
Mental Health Corresponders	2	2		2	2				2	2	2	0P3		160	160	190	Wonoballoc in shared effere	· See <u>Date test</u> for storage of R	Redett, L
10000									000			100	100	102/1		22	1000000000000000	Adve stocker begi sergest	
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· Werksouriler									1	1	1	ONTR2	1.1	15	55	15		- Catel Anney	
-Looking sabled									1	1	1	15	1	15	15	15	Furshinge statig	Cun storage (car-down)	
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Epolyment maintenance sourcher																	Ana included above	· - Curvi Badge Sale	
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Small Meeting Room									1	1	1	P02		120	120	130	For you by Degewith 8		
																	Offices	··· Hanos Count Storage	
Traffic Dell																		<ul> <li>Lockers</li> <li>Epulpment Plage</li> </ul>	
Seepeert	1	1	1	1	1		1	1	2	2	2	OP2		128	128	108	@ existence is shared	=	
Traffic Office													124				ofke	* Detroi General or strated and	and I
Traffic Officers			1		2		+	1	5		7	OP1	100	240	288	336	Ministeleven in shared	# + Shill Vaholes - 11 Bot wid	
Accident Resonancellan Work	nisten							1	1	1	1	092		64	64	64		-	1
Teaming Area/Layout County	e (Nes b	etre)							.1	1	1	128		128	128	126		- Barart Officer	1
File Cabinets									6	6	4	LR35			. 0	0	Included in anse above	* - Worksower Incelled at Munk	hind i
Shelving (Bindens Manuals,	4962								1	:	1	SHLF1 FMAP		1		11		** Coart Security Officer ** - Workspace located at Mure	12
Flat Flin/Map Drawers Traffic Unit Support Spaces									·* -		-	1990				1		* Satisfiel	- 41
Capy Welvison									1.			*					Shand	+ Croutetion 27	
· Office supply storage									1		1	20				0	Dand	** Net Area	_
Large formul printer									1	1	1	PLOT		. 0	. 0	0	Can often with prime		
																	anajato		
Poper Rol Stonge									1		1		<ul> <li>1</li> </ul>	•	•	9	Cat share with stime analysis		
Sears Laipment Strapp & C	harper								1		1	\$7042		80	80	80	S-Stransminn -		
Docking alafiate for stightfulled									111				-50	1000		- 11	Area included above		
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																	supporting spaces		
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Officers	4	4	1	1			1										One report and ing whole in		
																	patrol		
Citizer .							Owe I	des .						1			Ob an every shift		
ES Unit Tale-home car					-														
	3	3	-	3	3		1		3	3	3	OP1		144	144	144	Matchelor in shared effer		
Take-home car	3	3	1	3	3							1.1		144	144				

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cale near off		1594	part					112	112	112	12		44	448	445	3 Nor Locker Configeration
								1	1	1	07.740	510	640	640	540	
eter								÷	1	1	20		20	20 60	20 50	
								10	10	10	OP1	16	40	410	400	Computer, Plane,
								1	1	!	CPY2			80	80	Anadesthuth, Bullete Bel
								100	110	1	40		40	40	40	Ann make
-								1			4		41	48	48	(8) 5-shawn file cableets
								10	10	10	25		200	200	200	(10 2-drawn undercearter the cabinets
			1	1		1	1	1	1	1	P01		810	E 90	110	
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1								1	1	1	30		- 30	30	30	
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8								1	1	1	150	100	150	150	196	incluie f in more alove incluie f in more alove incluie f in more alove
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46 7	66	2 89	1	509 2	0	- 66	65		_	-		2,879	6742 1485	6,790		Department Not Area Adjustment Sector
								1				5 675				Department Group Area

Milestones		orized )18	Mov 20:		+1 2030		+2 204					М	+1 Areas	+2			Move-in	+1	+2	
	20	/10			Projection		204	+0	# of I	Parking Sp	aces		Areas er of Sp	aces	Space	Existing	Area	Area	Area	Remarks
Sworn or Nonsworn	FT	PT	FT	PT		 PT	FT	PT	Public	Fleet	Staff				Code	Building	Totals	Totals	Totals	riomano
Public Lobby												1	1	1	500	1,784	500	500	500	
Public Entry Vestibule												1	1	1	80	.,	80	80	80	
Waiting Area/ Seating												25	25	25	12		300	300	300	
Court Clerk Public Window												1	1	1	108		108	108	108	
Information Kiosk												1	1	1	25		25	25	25	
Display Area												1	1	1	48		48	48	48	
Public Toilets												-				236				
Women's Restroom												1	1	1	162		162	162	162	
Men's Restroom												1	1	1	162		162	162	162	
<ul> <li>Restroom Privacy Vestibule</li> </ul>												1	1	1	40		40	40	40	
Janitor Closet												1	1	1	48	34	48	48	48	
Security Screening Station																				
Cueing area for Security												25	25	25	12		300	300	300	25 people waiting to be
screening																				processed through
-																				security screening
Package scanner + metal detector												1	1	1	200		200	200	200	Located in/or near Cou
																				Security Workstation
						~						•					100	400	400	
Court Security officer workstation				2		3						3	3	3	64		192	192	192	test de la secolda
Waiting Area/ Seating												25	25	25	12		300	300	300	inside security
Attorney / Client Conf room												3	3	3	100	240	300	300	300	inside security
Court Room										100						1.050				
										120		1	4	4	400	1,350	400	400	400	ludao bonoh witnoon
<ul> <li>Judge's Bench</li> </ul>												1	1	1	400		400	400	400	Judge bench, witness stand, clerk workstation
Well area												1	1	1	400		400	400	400	Prosecutor table,
inon aroa														·						Defense table, Bailiff
																				area
<ul> <li>Seating Area</li> </ul>												120	120	120	15		1,800	1,800	1,800	Locate flat panel
																				display/TV around room
<ul> <li>Table/chair Storage</li> </ul>												1	1	1	140		140	140	140	
<ul> <li>A/V Equip. Closet</li> </ul>												1	1	1	STOR1		40	40	40	
Court Clerk				~		~									50	1,448	000	000	000	
<ul> <li>Public Information Counter</li> <li>Clerk Workstations</li> </ul>				0 6		0					6	4 6	4 6	4 6	50 80	74	200 480	200 480	200 480	
Court Manager				1		1					1	1	1	1	120		120	400	400	
Bailiff				1		1					1	1	1	1	120		120	120	120	
Prosecutor				1		1					1	1	1	1	100	150	100	100	100	
Probation Officer				0		1					1	1	1	1	100		100	100	100	
<ul> <li>Warrant Officer</li> </ul>				0		1					1	1	1	1	100		100	100	100	
<ul> <li>Judge Chambers</li> </ul>				1		1					1	1	1	1	150	196	150	150	150	
<ul> <li>Meeting Room/ Flex Office</li> </ul>				1		1					1	1	1	1	120		120	120	120	
Staff restrooms												2	2	2	80	30	160	160	160	
Break room												1	1	1	150		150	150	150	
Conference room												1	1	1	240	158	240	240	240	
Copy / work room												1	1	1	120		120	120	120	
Storage room												1	1	1	120		120	120	120	
Secure holding area																				
<ul> <li>holding cell</li> </ul>												4	4	4	80	110	320	320	320	
officer report writing station												4	4	4	40	15	40	40	320 40	
<ul> <li>staging area</li> </ul>												1	1	1	110	128	110	110	110	
<ul> <li>storage</li> </ul>													•	•		90				
Future On-site probation																				
Future UA Testing																				
Subtotals	0	0	0	13	0	16	0	0	0	120	13					6,043	8,295	8,295		Department Net Area
Circulation 25%																807	2,074	2,074	2,074	Adjustment factor
Net Area																6,850	10,369	10,369	10,369	Department Gross Are
Subtotals	0	0	0	13	0	16	0	0	0	120	13				1	6,850	10.369	10,369	10,369	Department Gross Are
tal Staff and Parking Required		0	1		16		0		0	13										
- Exterior Wall 6%																	622	622	622	
- Circulation between work an 8%																	830	830	830	
- Structure/ MEP 7%																	726	726	726	









# Information Technology Division

#### SPACE ADJACENCY DIAGRAM

Milestones	Authorized	Move-in	+1	+2			M +1 +2			Move-in	+1	+2	
	2018		2030 Projection	2040	# of Pa	Irking Spaces	Areas Number of	Space	Existing	Area	Area	Area	Remarks
Sworn or Nonsworn	FT PT	FT PT	FT PT	FT PT	Public	Fleet Staff	Spaces	Code	Building	Totals	Totals	Totals	
IT Staff IT Director	1	1	1	1		1							See space below
Database Administrator Matt Jones	1	1	1	1		1							See space below
Solution Center Analyst Darian Johnson, Sam Wheeler, Laura Ba	3	3	3	4		4							See space below
Network Architect Andrew Drunnond	1	1	1	1		1							See space below
GIS Specialist	1	1	1	2		2							See space below
Ken Ivey Application Support Specialist	1	1	1	1		1							See space below
Lance Johnson System Administrator Joshua Love	1	2	2	2		2							See space below
Programmer Jessica Paisley	1	1	1	1		1							See space below
Systems Engineer Anthony Sitzes	1	1	1	1		1							See space below
Developer Chris Stillwell	1	1	1	1		1							See space below
Waiting/ Reception							1 1 1	WTG2		63	63	63	Visitors. Cell phone drop-off, etc.
IT Office Suite									3,285				
Network Architect							1 1 1	OP3	1,200	80	80		
Systems Engineer System Administrator							1 1 1 2 2 2	OP3 OP3		80 160	80 160		
Solution Center Analyst							4 4 4	OP3		320	320	320	Workstations in shared office
Admin. Assistant/ Reception Intern/ Flex/ Vender Workstation							$1 \ 1 \ 1 \ 1 \ 1$	OP1 OP1		48 48	48 48		
Group dashboard for Solution & I	nfrastructu	ire					4 4 4	4		16	16	16	Wall monitors (4-display dashboar
Copy/ Print Station     GIS Office							1 1 1 2 2 2	60 OP3		60 160	60 160		
Application Support Specialists Off	ice						1 1 1	P01		110	110		
Programmer							1 1 1	PO1		110	110		
Developer Office Database Administrator							$1 \ 1 \ 1 \ 1 \ 1$	P01 P01		110 110	110 110		
EST Director							1 1 1	PO4		168	168		
PC/ Network Build & Test Room • Computer workbench							222	80		160	160	160	Secure computer lab and storage Standing height with shelf above.
Workbench/ Counter							1 1 1	80		80	80		Standing height. Stools
Work table							1 1 1	80		80	80		
<ul> <li>Solution Center Storage</li> <li>Network/ Server Equip Storage</li> </ul>							$1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \$	120 80		120 80	120 80		
· Network Server Equip Storage								00		00	00	00	Sherving
Conference/ Collaboration Room							20 20 20	36	430	720	720	720	Flexible setup
Conference Room							1 1 1	CNF8		180	180	180	Table, chairs
Meeting Room							1 1 1	CNF4		120	120	120	Table, chairs
Informal meeting/ Team collaboratio	n						333	38		114	114	114	Informal seating (swivel tablet desi surface)
Break station												-	
Kitchenette							1 1 1	90		90	90	90	Counter, cabinets, refrigerator, microwave
Data Center							1 1 1	500		500	500	500	
(5) Primary Racks (23.6w x 78.74h	x 41.34d)							500		300	500	500	Area included above
(5) Two-post relay telcom racks	,												Area included above
UPS							1 1 1	150		150	150	150	
Staff Restrooms													
Women's Restroom (1st Fir, 2nd							222	T2U1		0	0		
<ul> <li>Men's Restroom (1st Flr, 2nd Flr</li> <li>Restroom Privacy Vestibule</li> </ul>	)						2 2 2 2 2 2	T2U1 25		0	0 0		
. Coursent Treasy Vestibule													
Training Classroom							12 12 12	22		0	0	0	Shared
											_		
Subtotals	12 0	13 0	13 0	15 0	0	0 15						4,037	
Circulation 25%									2 745			1,009	
Net Area	40 0	40 0	40 0	45 0		0 17			3,715			5,046	
Subtotals Total Staff & Parking Required	12 0 12	13 0 13	13 0 13	15 0 15	0	0 15 15			3,715	5,046	5,046	5,046	Department Gross Area
- Exterior Wall 6%		· · · ·								303	303	303	
- Circulation between work a 8%										404	404	404	
- Structure/ MEP 7% Gross Area Totals										353	353		
										h 106	n 106	n 106	Building Gross Area



# **Concept Alternatives Plans**

#### **Concept Alternative Plans** SECTION 5

### 5.0 — OVERVIEW

As the study progressed and the process yielded an understanding of the future space needs the planning team shifted our focus to developing planning alternatives that accommodate the space and adjacency needs.

First, we looked at the capacity and physical condition of the existing facilities. A thorough understanding of the existing facilities was achieved and is described in another section of this report. The lessons learned informed us that the 1980 and 1994 sections of the building had, due to age, design approach of a previous and outdated era, and sheer limitations of space available, made the extent of repair and repurposing necessary to achieve meaningful reuse, cost prohibitive.

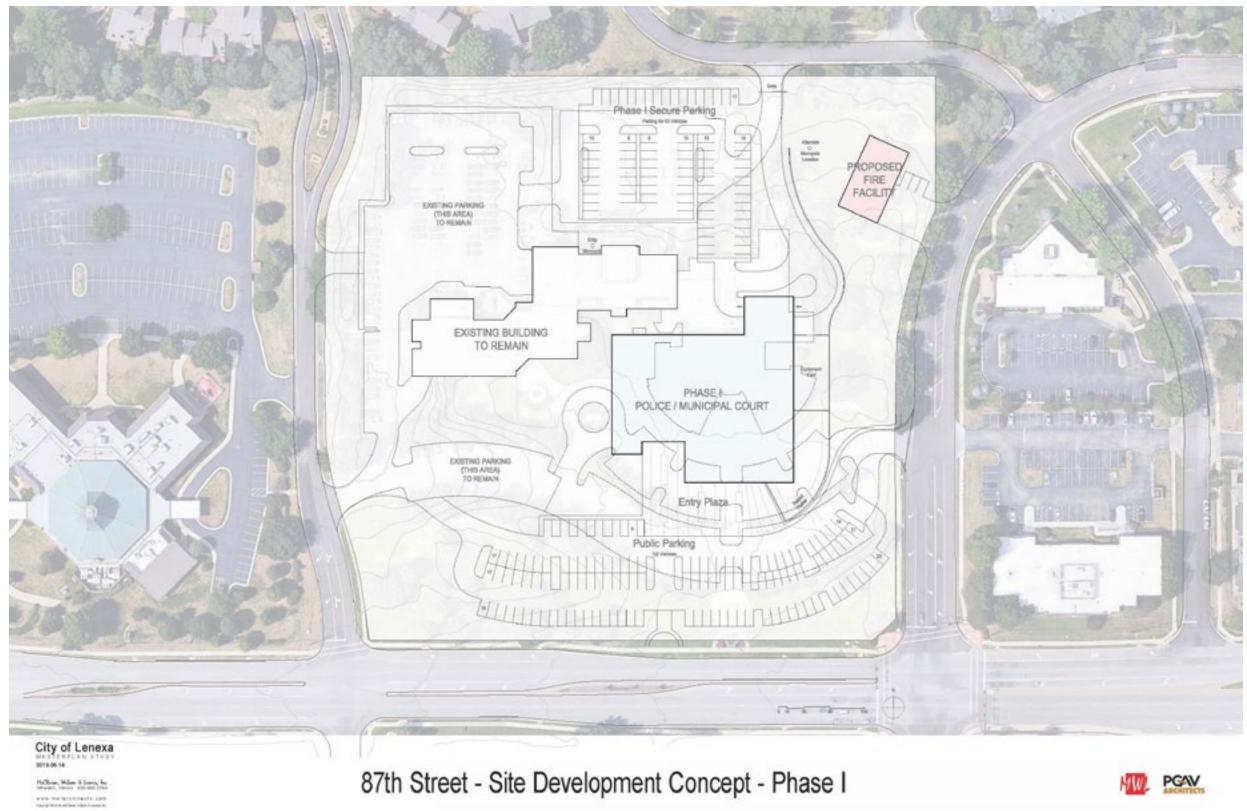
Specific attention was given to consider how the vacated area of the former city hall section of the building could be reused. Here too, similar limitations, of quantity of space available, plus the extent of repair and repurposing necessary to achieve meaningful reuse, proved cost prohibitive.

The area available in this area is 30,000 sf, whereas the need was over three times this amount. Configuration of the former city hall floor plan welcomes visitors deeply into the depth of the building. This is completely backward to police facility planning where visitors are welcomed at a perimeter lobby and the larger section is allocated to secure staff work areas. The shape of the building is inefficient for repurposing, and contributes to higher than reasonable cost to repurpose for Police use.

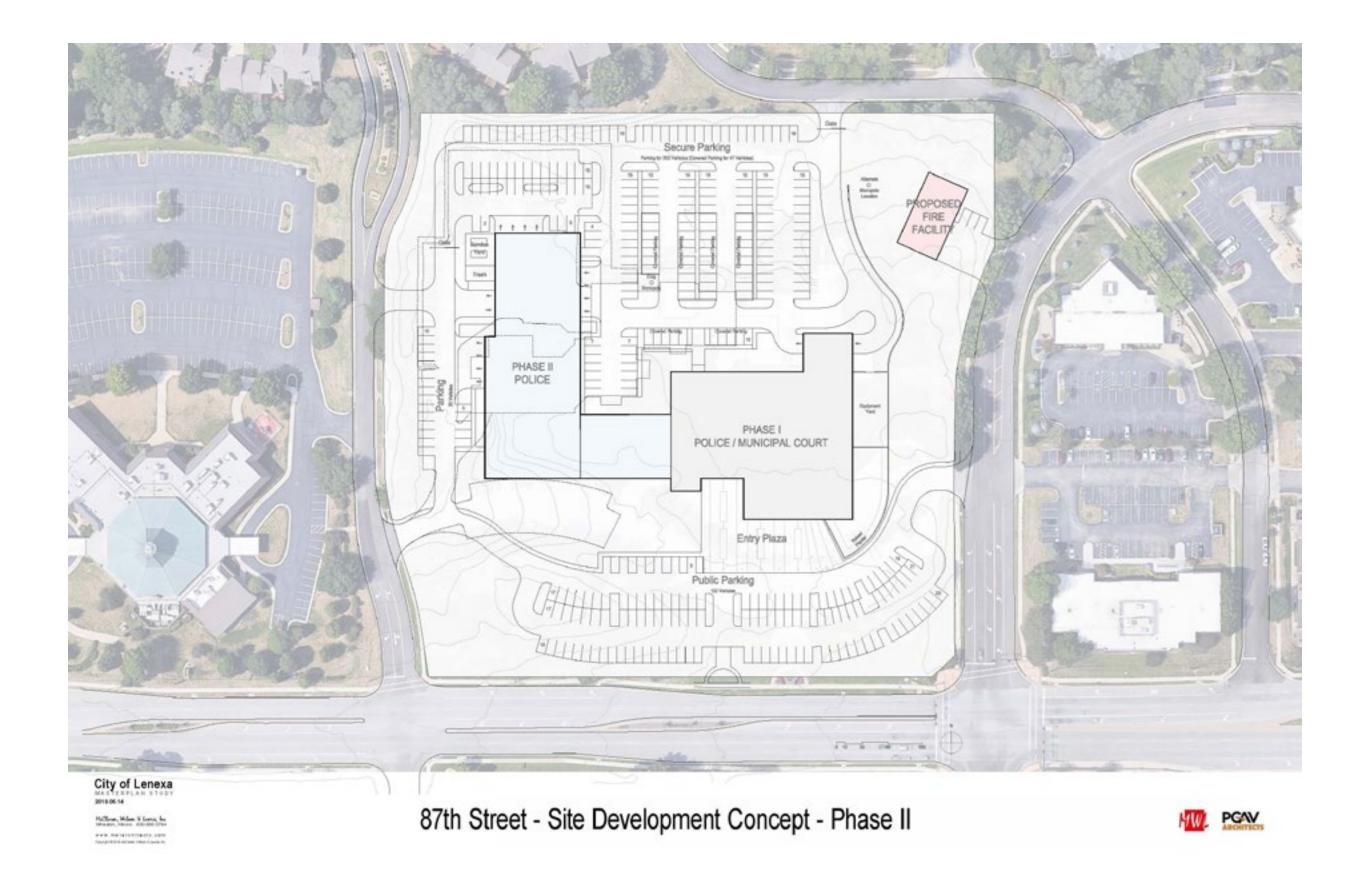
After all the facts about the existing facilities, including the former city hall, were understood it became apparent that the best long term option was to design and construct an all new facility on the current property, that would be properly sized and purpose-designed with optimized adjacencies for contemporary Police Department, Municipal Court and IT functionality.

This conclusion to not repurpose the existing facilities, along with the need for all departments to continue in operation while the new facility is built, made it necessary to develop a multiphase planning solution.

The concept plans illustrated in this section have been developed to accommodate the building space and parking needs of three departments. Optimized adjacencies and operational flow as determined in meetings with department members and leadership have been accommodated in these planning concepts.

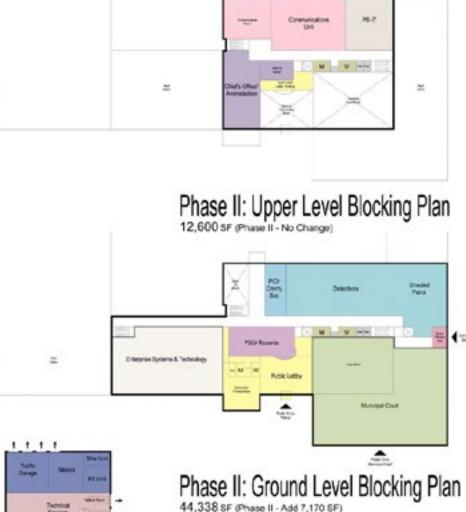


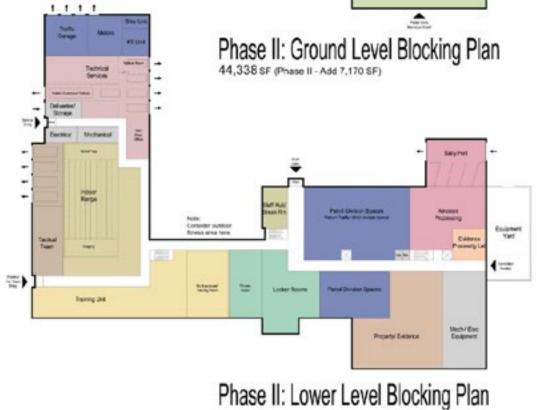
#### **5.1** — EXPAND CURRENT SITE - SCOPE OF PROJECT NEEDS











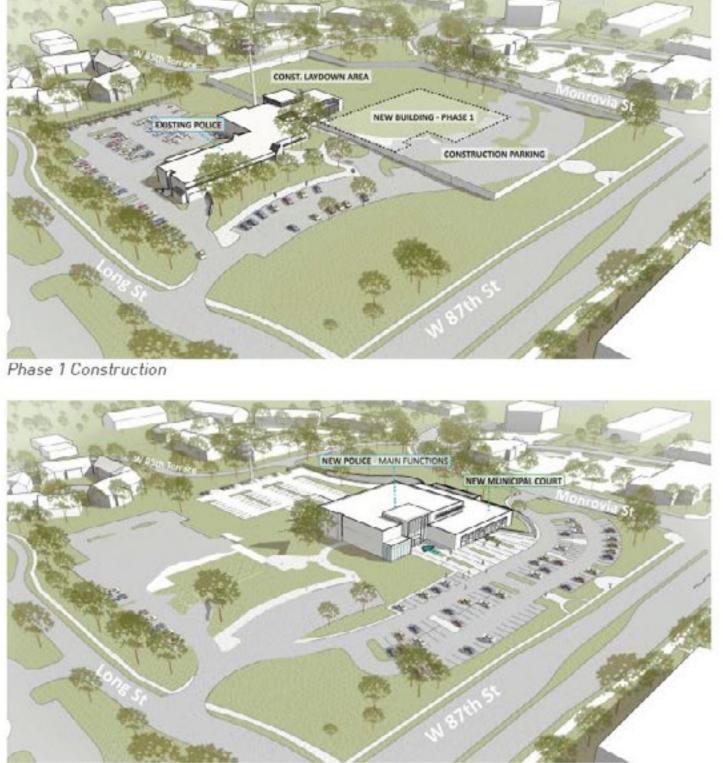




Current Site



Phase 1 Complete



Phase 2 Construction





Future Parking Expansion

Phase 2 Complete



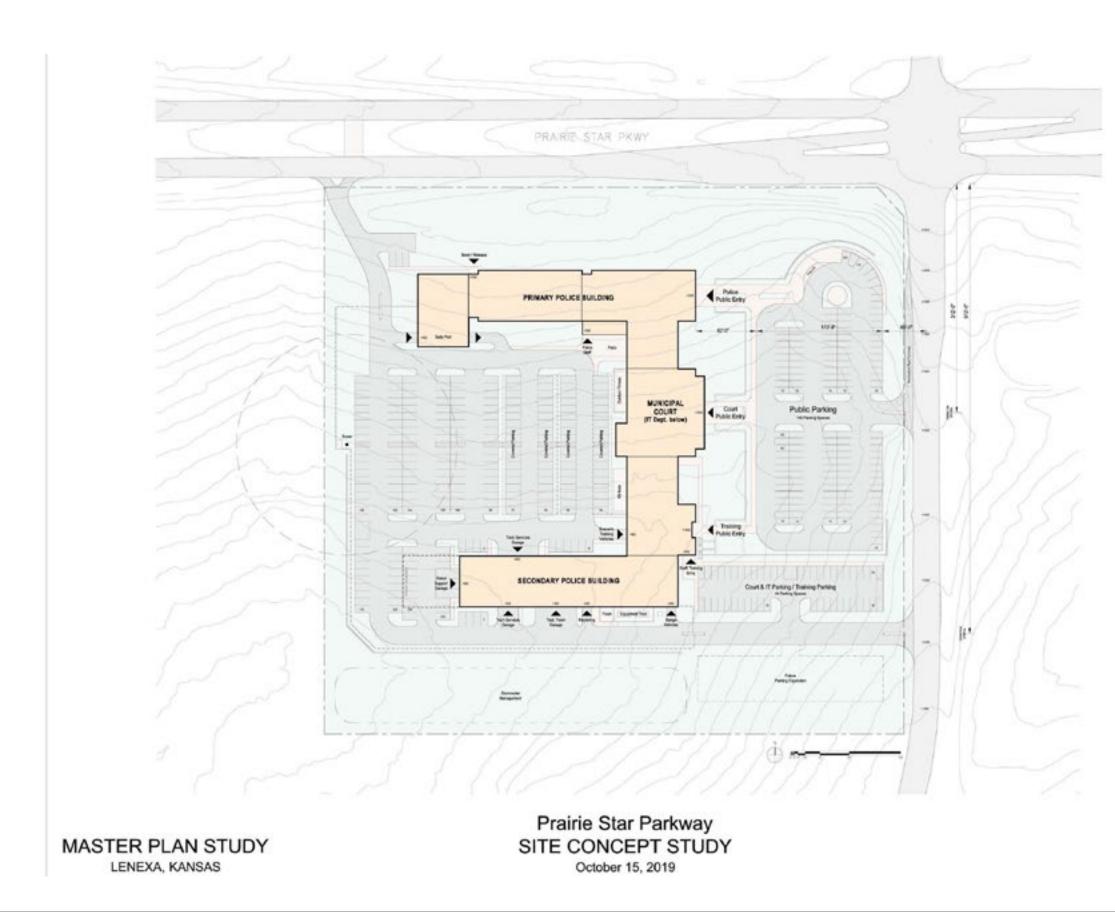
Street Perspective

### **5.2** — NEW BUILDING SITE

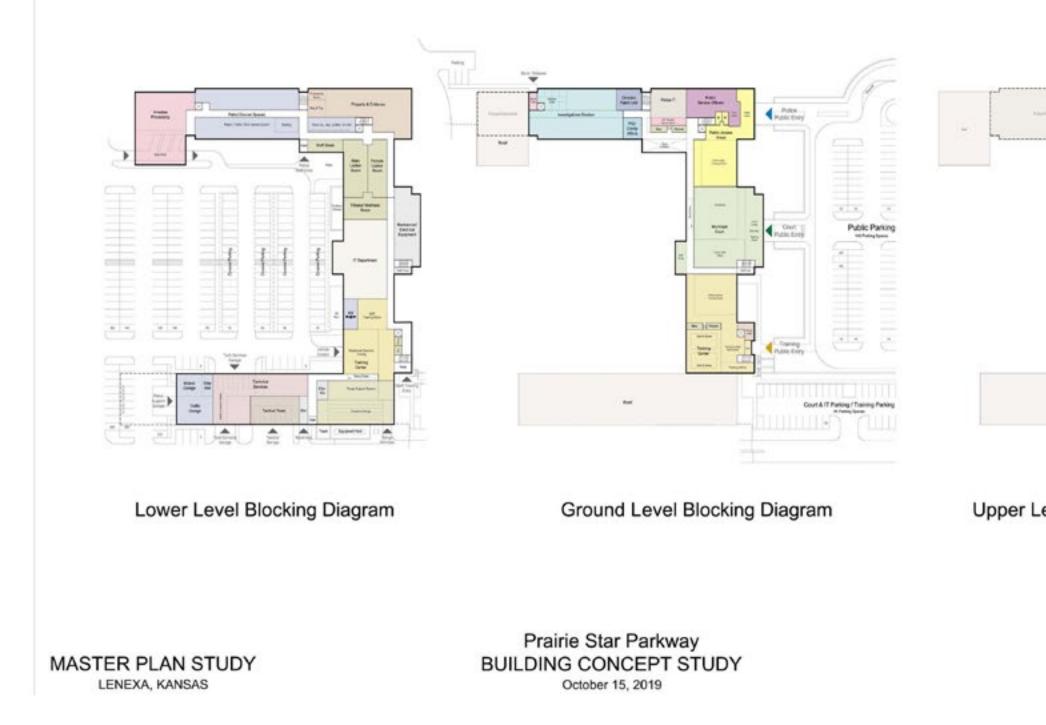


MASTER PLAN STUDY LENEXA, KANSAS Prairie Star Parkway SITE CONTEXT October 15, 2019











## Upper Level Blocking Diagram





Prairie Star Site



Future Building Expansion Potential





Future Full Development



#### **Cost Estimates** SECTION 6

#### 6.0 — OVERVIEW

more.

**Building construction** – Is the cost for all items within the footprint of the building. It does not include any cost for construction outside the footprint of the building or loose items found within a building, for example, furniture. It does include exterior envelope, building systems, interior finishes etc.

**Site Construction** – Is the cost submitted by the successful bidder(s) for all items related to the project that fall outside the footprint of the building. Excavation, paving, landscaping, site lighting, etc. These costs are in addition to Building construction and commonly range from 5% to 15% of Building Construction cost.

**Other Project Costs** – Is the cost of the project not included in Building Construction or Site Construction. These costs could include furniture, A/E fees, Building Permits, Moving Cost, Land Acquisition cost, Legal fees, special systems such as building radio and cell phone internal repeater antenna, 911 features such as radio tower, dispatch consoles, technology hardware and software and a variety of miscellaneous items. These costs commonly range from 25 to 35% over and above the combined total of Building and Site Costs.

It can be easily understood how mistaken terminology can give "apples to oranges" errors and easily lead to a faulty understanding and unrealistic expectations for what a project may cost.

#### **PROJECT COST ESTIMATE APPROACH**

We believe preparing an early cost estimate during the Facility Needs Assessment calls for a different approach compared to a cost estimate for a project when detailed design and construction documents are available. The reason is when detailed drawings are available, a professional cost estimator can "take off" detailed quantities of each building material and have a complete description of the heating, cooling, electrical, plumbing and other systems that are known to be included in the project scope. By contrast, none of this detailed information is available for a cost estimator to utilize during the Facility Needs Assessment process. What we do have available, during the Facility Needs Assessment, is a square foot area, a construction site location with Site Concept Plan and Concept or "blocking" Floor Plans.

We are also able to review cost data from recent police facilities constructed within the regional geography or "construction market" of the region. These projects with their size, construction type and features provide, meaningful benchmarks that may be used as a precedent to inform the cost estimate for our project. In order for this information to be useful, we need accurate clarity about the facts and figures of each precedent project being considered. Without accurate clarity, there is risk of comparing "apple and oranges" and this can lead to false conclusion and generally do more harm than good if wrongly applied in the planning process.

It is important to understand the components of Project Cost. We often find cost data misquoted leads to false conclusions. For example, some people refer to Building Construction cost thinking it to be the same as the Project Cost. This can lead to a gross error that is off by 50% or

#### 6.1 — COST BENCHMARKS FROM SIMILAR PROJECTS

We propose to use a similar cost benchmarking approach to estimate the cost for this project. We have assembled cost data from multiple similar projects as the basis for this cost estimate. All of these projects are of similar type (police facilities); we took into account their location, size and site considerations in order to help us understand and use their costs as benchmarks for cost of future similar projects like ours.

### **6.2** — COST ESCALATION

Another important Cost Factor to understand is the impact of time on Project Costs. Most folks understand that it will cost more to build a project three years from now than it would to build today. This general understanding can be more scientifically calculated and applied to the cost of past completed projects to approximate the cost of future projects. The construction market roughly follows the general economy in experiencing steady, incremental inflation referred to as "cost escalation". The construction market, like the general economy, is affected by diverse factors that rise and fall but have a long-term upward trend that can and should be included in the cost estimate. Construction "cost escalation" is tracked closely by construction industry cost analysis professionals each year. Data from national construction cost databases show increases that range from 3.5% to 5.5% per year over the last several years.

Using our understanding of the project, similar cost benchmarking from other projects and taking into consideration cost escalation for construction start in second quarter of 2021, we have developed estimated building construction costs for both options. In addition, and in collaboration with the Owner, we have developed a detailed soft cost summary for all additional components of the project. Combined, are the project cost estimates for both options summarized in the charts below.

#### Option 1: Expand in Place

The expand-in-place option requires two phases of construction in order to maintain full operations throughout the construction. For this reason, there are increased costs due to project length of time and increased escalation. In addition, operational costs are likely increased and compromised due to construction activities on site.

Lenexa Public Safety Master Plan Preliminary Budget: Phased Building/ Expand-in-p						
SCOPE						COST
			Phase 1		Phase 2	
			Construction Start: 2nd Quarter 2021		Construction Start: 2nd Quarter 2023	
Planning Milestone +2	Year 2042		Low cost range	High cost range	Low cost range	High cost range
Police Main Building						
Phase 1	56,000		22,400,000	23,520,000		
Phase 2	6,400				2,822,400	2,963,520
Police Secondary Building	10,100				10.010.001	47 405 740 75
Phase 2 Municipal Court	42,100				16,013,261	17,405,718.75
Phase 1	12,500		4,375,000	4,812,500		
Information Technology (IT)	12,500		4,373,000	4,012,000		
Phase 2	6,100				2,084,828	2,286,585
	Total 123,100	Subtotal Building Cost	26,775,000	28,332,500	20,920,489	22,655,824
Site Improvements for 14 acre site - Parking lo drives, and lighting, mass grading, utility connecti management, landscaping & walkways. Optional parking for 50 cars and additional 80 car parking	t paving, curbs, ons, storm water / future covered	Subtotal Site Improvement Cost	\$2,677,500	\$2,833,250		\$2,265,582
· · · · · · · · · · · · · · · · · · ·		Subtotal Construction Cost	\$29,452,500	\$31,165,750		\$24,921,406
Design Contingency		5%	1,472,625	1,558,288	1,150,627	1,246,070
Construction Contingency		3%	883,575	934,973	690,376	747,642
		Total Construction Cost	\$31,808,700	\$33,659,010	\$24,853,541	\$26,915,119
Other Project Cost Notes: 1) Assumes construction start of phase 1 by 2nd phase 2 by 2nd quarter of 2023. 2) Assumes construction cost escalation of 4-5% 3) Other Project Costs include: Owner Contingen Compensation, Moving Cost, Other miscellaneou	per year. cies, Furniture, A/E	Other Project Costs	\$9,968,083	\$10,354,010	\$4,065,812	\$4,346,037
		Phase 1 Project Cost	\$41,776,783	\$44,013,020		
		Phase 2 Project Cost			\$28,919,352	\$31,261,156
	Total Project Cost			\$70,696,135	\$75,274,176	

#### Option 2: New Site

Relocating to a new site allows for only one phase of construction. Full police, courts and IT operations can be maintained without interruption until which time to move to the new facility.

Lenexa Public Safety Master Plan	1	Preliminary Budget: New Building 4/9/2020				
SCOPE	COST					
Planning Milestone +2	Year 2042		Low cost range	High cost range		
Police Main Building Police Secondary Building Municipal Court Information Technology (IT) Site Improvements for 14 acre site - Parking lot pa and lighting, mass grading, utility connections, storm management, landscaping & walkways. Optional / f parking for 50 cars and additional 80 car parking eq	n water uture covered	Subtotal Building Cost Subtotal Site Improvement Cost	-,,	26,208,000 15,787,500 4,812,500 2,074,000 48,882,000 \$3,488,200		
Design Contingency Construction Contingency Other Project Cost Notes: 1) Assumes construction start by 2nd quarter 2021. 2) Assumes construction cost escalation of 4-5% pe 3) Other Project Costs include: Owner Contingencie Compensation, Moving Cost, Other miscellaneous C	s, Furniture, A/E	Subtotal Construction Cost 5% 3% Total Construction Cost Other Project Costs	\$49,075,550 2,453,778 1,472,267 \$53,001,594	\$52,370,200 2,618,510 1,571,106 \$56,559,816 \$14,089,158		
		Total Project Cost	\$66,474,838	\$70,648,974		



## Appendix

### 7.0 — PHASED APPROACH ON NEW SITE

In the interest of considering alternatives for how the City may proceed with this project, the planning team has developed an alternative to build the project in two phases on the new site.

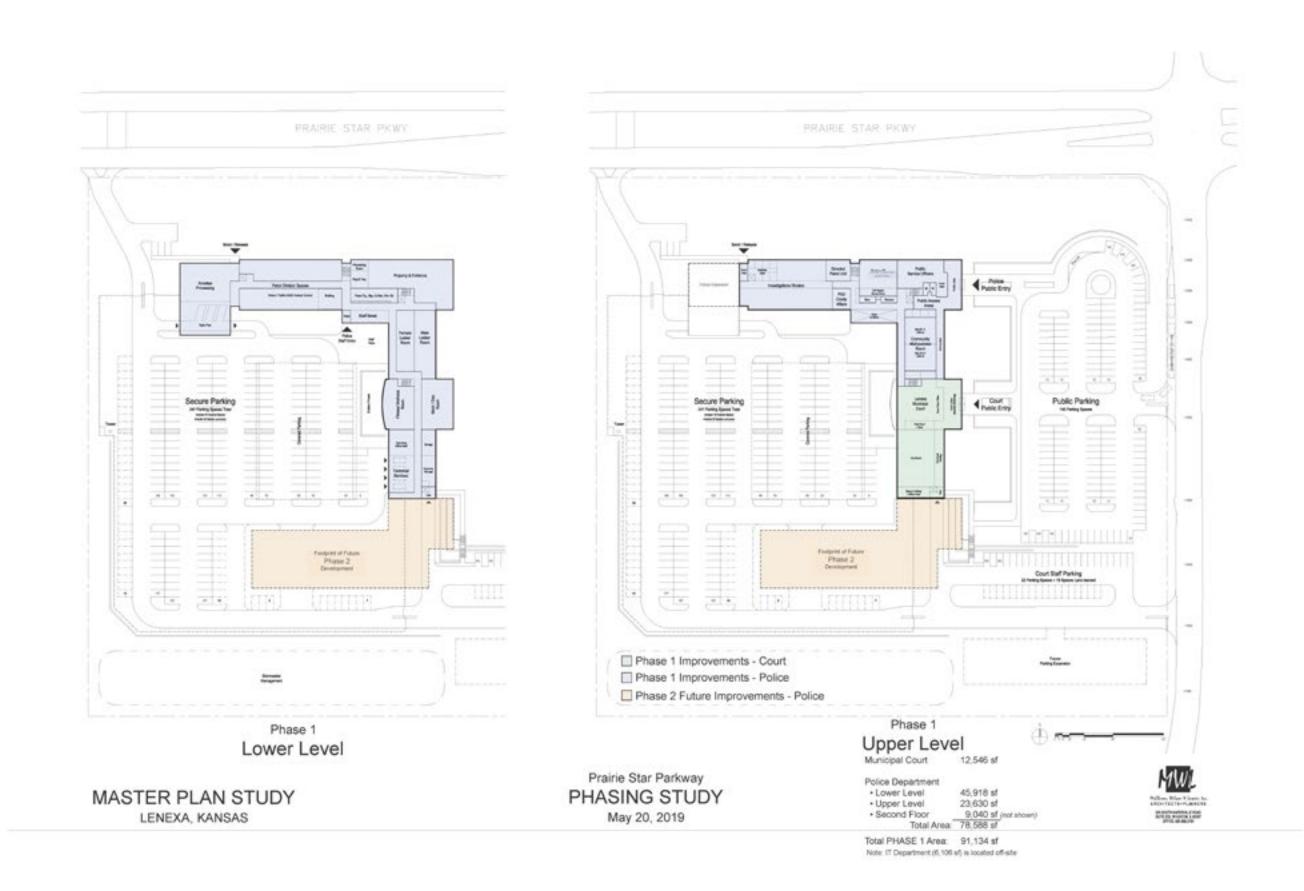
This approach could allow the City to proceed with a lower first cost solution sooner, and thereby avoid the ongoing cost of continuing to put significant expense of repairs into the 40-year-old police facility, to keep it in operation.

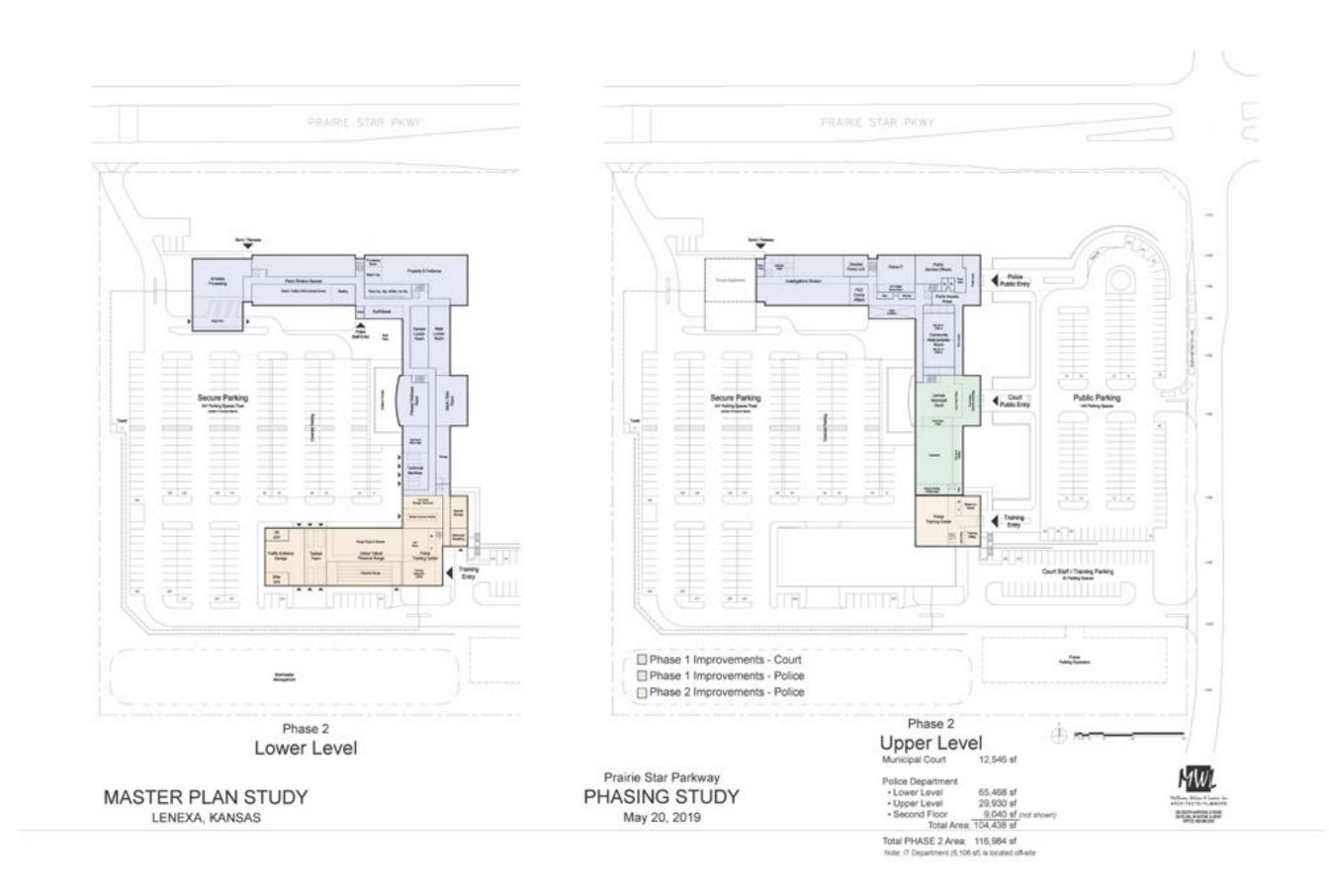
Original Concept Plan reconfigured slightly to facilitate two-phase construction. • Phase 1 - Building for Police Department, Municipal Court + IT server room, 91,000SF o North wing for PD configured very similar to Original Concept Plan East wing for Municipal Court configured very similar to Original Concept Plan 0 Community Room functions as PD Training Room 0 Technical Services garage space would be multi-function

- - 0
  - Phase 1 \$52 to \$55 million 0
- Phase 2 Police Training and Support building, 27,000 SF
- 0
- 0
- Phase 2 \$16.5 to \$18 million 0

The total cost of Phases 1 and 2, should be expected to be higher compared to a 1 phase construction project. The additional cost is due to extended duration of the construction process across both phases. For planning considerations, the cost of Phase 2 has been increased by 12% to 15%.

Primary Training spaces – Trainee entry, Offices, Classrooms, DT and Firing Range Garages for Traffic, Tactical, Motorcycles, Bike Patrol, K9, + Mobile Command









1900 West 47th Place, Suite 300 Westwood, Kansas 66205 913.362.6500 | www.pgavarchitects.com



Wheaton, Illinois 60187 630.868.3764 | www.mwlarchitects.com