

**ORDINANCE NO. 2024-05-8813**

AN ORDINANCE OF THE CITY OF PADUCAH, KENTUCKY, APPROVING AND AUTHORIZING THE EXECUTION OF AN INTERLOCAL COOPERATIVE AGREEMENT BETWEEN THE CITY OF PADUCAH, KENTUCKY AND THE COUNTY OF MCCRACKEN, KENTUCKY FOR THE PROVISION OF 911 SERVICES

**WHEREAS**, the City and County have determined it is in the best interest of all citizens of Paducah and McCracken County for the provision of 911 services to be served jointly by both public agencies; and

**WHEREAS**, City and County have a compelling public interest in providing joint services for the benefit of all citizens and visitors of the City of Paducah and the County of McCracken, Kentucky; and

**WHEREAS**, City and County have determined that in order to accomplish the public purposes of City and County, it is desirable and necessary for City and County to enter into an Interlocal Cooperation Agreement for the provision of 911 services which sets forth their joint mission, management plan, powers, duties and responsibilities of the joint board, funding, and administration; and

**WHEREAS**, pursuant to KRS 65.210 to 65.300 (the "Interlocal Cooperation Act"), the City and the County may join together to accomplish what each may accomplish individually.

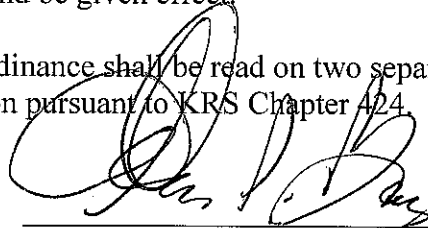
**NOW THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF PADUCAH, KENTUCKY, AS FOLLOWS:**

Section 1. The City of Paducah, Kentucky, hereby approves the Interlocal Cooperative Agreement between the City of Paducah, Kentucky and the County of McCracken, Kentucky in the form attached hereto as Exhibit A and made part hereof. It is hereby found and determined that the Interlocal Cooperative Agreement furthers the public purposes of the City and it is in the best interest of the citizens, residents, inhabitants, and visitors of the City that the City enter into the Interlocal Cooperative Agreement for the purposes therein specified and the execution and delivery of the Interlocal Cooperative Agreement is hereby authorized and approved. The Mayor is hereby authorized to execute the Interlocal Cooperative Agreement, together with such other agreements, instruments or certifications which may be necessary to accomplish the transaction contemplated by the Interlocal Cooperative Agreement.

Section 2. Severability. If any section, paragraph or provision of this Ordinance shall be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of such section, paragraph or provision shall not affect any of the remaining provisions of this Ordinance.

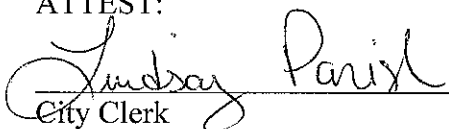
Section 3. Conflicts. All ordinances, resolutions, orders or parts thereof in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby repealed and the provisions of this Ordinance shall prevail and be given effect.

Section 4. Effective Date. This Ordinance shall be read on two separate days and will become effective upon summary publication pursuant to KRS Chapter 424.



MAYOR

ATTEST:



Audrey Parisl  
City Clerk

Introduced by the Board of Commissioners, May 14, 2024  
Adopted by the Board of Commissioners, May 28, 2024  
Recorded by City Clerk, May 28, 2024  
Published by *The Paducah Sun*, May 31, 2024

ORD\Interlocal Agreement 911 Services  
4875-6695-2327

## AGREEMENT FOR PROVISION OF EMERGENCY 911 SERVICES

The City of Paducah, Kentucky, hereinafter referred to as "City", and McCracken County, Kentucky, hereinafter referred to as "County", independently referred to as "Party", collectively referred to as "Parties", agree as follows:

**WHEREAS**, the City and County have expressed their desire and intent to collaborate in the provision and delivery of public safety and emergency dispatching services within Paducah and McCracken County;

**WHEREAS**, the City completed an evaluation of dispatching services provided within Paducah and McCracken County, including an independent analysis of potential benefits available through a collaborative approach to service delivery, performed by a professional consultant specializing in public safety communication systems, namely Federal Engineering, Inc. of Fairfax, Virginia, and the County has reviewed and approved of and agreed with such evaluation;

**WHEREAS**, the Parties' respective legislative bodies have expressed intent to adopt a resolution or ordinance authorizing and directing the respective administrations to proceed with the implementation of a consolidated system of emergency services dispatching;

**WHEREAS**, the Parties acknowledge their intent and desire to form an Agreement pursuant to the provisions of KRS 65.250, *et seq.*

### **NOW THEREFORE, THE PARTIES HEREBY AGREE AS FOLLOWS:**

#### **I. REQUIREMENTS FOR INTERLOCAL AGREEMENT**

This is an Interlocal Cooperative Agreement by and between the City of Paducah and McCracken County entered into under the authority of the Interlocal Cooperation Act, KRS 65.210 *et seq.* Pursuant to KRS § 65.250, the purpose of this Agreement is set forth in Section II, *Mission Statement*. Its duration is set forth in Section IX, *Duration*. Its method of Termination is set forth in Section IX(C), *Withdrawal/Termination*. Its manner of administration is set forth in Section V, *Administration*. Disposition of property acquired is set forth in Section VIII, *Property*. Manner of financing is set forth in Section IV, *Funding*.

#### **II. MISSION STATEMENT**

The City and County hereby state their collective intent to collaborate in the provision of public safety communication services to all police and fire agencies and emergency management departments within Paducah and McCracken County including, but not limited to, 911 emergency dispatching, radio communications, access to criminal history/warrants information and related records management, and similar information and services generally associated with public safety/emergency communications systems.

Through this Joint Venture, the City and County shall provide efficient, reliable and quality public safety communication services to the public safety agencies and citizens of Paducah and McCracken County. The Parties to this Agreement further acknowledge a belief that the provision of these services, via a model of integrated service delivery, will result in the most efficient and effective utilization of resources to accomplish this purpose.

This Joint Venture shall operate under the name of Paducah-McCracken 911 Service (hereinafter "911").

#### **III. ORGANIZATION**

- A. Board.** There shall be created the Paducah-McCracken 911 Board (hereinafter "Board").
- B. Composition of Board.** The Board shall consist of five (5) citizen members who shall not be elected officials nor employees of the City or County. The Mayor of the City of Paducah shall appoint two (2) members, the Judge Executive of McCracken County shall

appoint two (2) members, and the Mayor and Judge-Executive shall jointly appoint one (1) member.

- C. Appointment of Board Members.** All appointees shall serve a two (2) year term of office or until the member is replaced, at the pleasure of the appointing authority, being subject to removal with cause, as described herein.
- D. Removal of Board Members.** Each appointed Board member shall be removable for "cause" due to inefficiency, neglect of duty, malfeasance or conflict of interest. Any member of the Board may be removed by their appointing authority, for cause, after a hearing by the appointing authority, and after at least ten (10) days' notice in writing has been given to the member, specifying the charges against the member. The finding of the appointing authority shall be final. A member subjected to removal proceedings may be represented by counsel.
- E. Board Compensation.** Each member of the Board shall receive compensation in the amount of \$200 per meeting attended for service on the Board and shall be reimbursed for all reasonable mileage and out-of-pocket expenses for Board business conducted outside of McCracken County. All such payments shall be charged to the 911 operating budget.
- F. Ethics.** All members shall be bound by ethics policies enacted by the Parties in the performance of their duties as Board members.
- G. Board Officers.** At the first meeting, the members shall elect a Chairperson and Vice-Chairperson by a majority vote, who shall serve during the first two (2) years. Subsequent appointments of Chairperson and Vice-Chairperson shall be made by a majority vote of the Board every two (2) years.
- H. Management Control of 911.** The Paducah Police Department (hereinafter "PPD") shall serve as the "Management Control" of 911. In doing so, PPD shall be responsible for the management of 911, excepting those responsibilities specifically assigned herein to the Board and the City's Finance Department. Responsibilities of PPD shall include, but not be limited to, the management of the National Crime Information Center ("LINK/NCIC") Database, the adoption of 911 policies and procedures relating to employment/personnel, implementing policies adopted by the Board that are in compliance with the Criminal Justice Information Services ("CJIS") Security Policies and/or Agreement, and the management of 911 employees, including but not limited to, hiring, firing, and discipline. The Chief of the Paducah Police Department or his/her designee shall serve as the "Criminal Justice Agency Director" ("CJA Director") of 911.
- I. Paducah-McCracken 911 Service User Committee.** A 911 Service User Committee (hereinafter "User Committee") shall be created which consists of Paducah's Chief of Police or his/her designee, Paducah Fire Chief or his/her designee, McCracken County Sheriff or his/her designee, the Paducah-McCracken Office of Emergency Management Director or his/her designee, one member from each of the five County Fire Protection Districts, and one member from any other customer that shall hereinafter be served by 911. The User Committee shall meet quarterly or more often, as necessary. The User Committee members shall meet to discuss strategic issues and matters of mutual interest and concern and shall report to the CJA Director, as defined herein, those recommendations which the User Committee deems of significant import. The CJA Director shall consider the recommendations but is not required to implement said recommendations. However, if the CJA Director declines to implement said recommendations, the matter shall be referred to the Board for decision consistent with the provisions of IV(B)(vii).

#### **IV. BOARD POWERS, DUTIES, AND RESPONSIBILITIES**

- A. Authority of Board.** The Board shall be responsible for adopting a recommended annual operating Budget for 911, which shall be presented to the City and County by the Board Chairman no later than April 1<sup>st</sup> of each year.

**B. Discharge of Duties.** The Board shall discharge all duties and responsibilities conferred upon it by this Agreement in a manner serving the interests of the political entities, public safety agencies and the general public. The Board shall possess the authority, in fulfilling its duties and obligations as stated herein, to perform the following functions:

- i. Meet no less than on a quarterly basis, at dates and times that is within the discretion of the Board; the Board shall have authority to call Special-Called Meetings as necessary; a quorum shall be three (3) or more members;
- ii. Provide financial oversight, including adoption of an annual operating budget to meet the continuing expenditures of the organization;
- iii. Retain the services of consultants and other experts for purposes of upgrading equipment to operate a fully-integrated 911 dispatching facility, to the extent permitted by the operating Budget;
- iv. Ensure a User's Committee, as more accurately described herein, is in place and that its recommendations and/or concerns are considered by the CJA Director, as described in Paragraph III(I) herein;
- v. Ensure that the revenues and expenditures of 911, administered by the City's Finance Department, are audited on an annual basis by a qualified Certified Public Accountant with the Report being presented to each Party to this Agreement within ten (10) days of receipt by the Board.
- vi. Enter into User Agreements and set rates related thereto.
- vii. Make any necessary changes to 911 Policies and Procedures, with guidance from the CJA Director, that do not violate LINK and/or CJIS policies, agreements, or laws. However, the Board shall not have authority to make any changes to 911 Policies and Procedures related to issues concerning employment and/or personnel but shall have the authority to make recommendations to the Paducah Board of Commissioners with respect thereto.

**C. Bi-Annual Report.** The Board shall require the Board Chairman to report on a bi-annual basis to the respective Parties to this Agreement regarding matters relating to the provision of service, future plans, and general Board operations.

## V. FUNDING

**A. Funding.** This Joint Venture shall be funded utilizing the following sources of revenue: (1) fees on wireless services, to the extent allowed by ordinances and Kentucky law; (2) parcel fees imposed by McCracken County and City of Paducah ordinances on real property located in McCracken County, with the Parties' fees to be the same, and with revenues to be shared equally; (3) any grants received by 911, PPD, and/or the Parties for provision of 911 Services; (4) user fees imposed on agencies (other than the Parties) utilizing the services of 911; and/or (5) any other lawful source of revenue. All 911 expenses, obligations, capital costs, and liabilities shall be shared equally by the Parties. The Parties agree that any 911 expenses, obligations, capital costs, and liabilities not paid due to a shortfall of revenue sources shall be shared equally between the Parties. Any revenues, including interest, in excess of expenses shall be retained by the City's Finance Department to be applied to 911's next Fiscal Year expenses.

**B. Collection/Remittance/Financial Administration.** Collection of parcel fees shall be the responsibility of the County for all parcels located outside the City's jurisdiction and the responsibility of the City for all parcels located within the City's jurisdiction. Collection of user fees and CMRS/wireless service fees shall be the responsibility of the City. All fees, grants, and other sources of revenue collected by either Party or any third party for the provision of 911 services shall be remitted to the City Finance Department, which shall serve as the Financial Administrator for 911 and shall be responsible for ensuring 911 expenses, liabilities, and other obligations are paid. All funds collected for the operation of 911 shall be deposited in a separate account earmarked solely for expenses,

obligations, capital costs, and liabilities related to 911. The Parties agree that all revenues received and/or collected for the provision of 911 services, as described herein, shall be used solely for expenses related to the provision of 911 services.

- C. Landline Fees.** The assessment of telephone landline fees shall cease. The City and County shall abolish all landline fees after parcel fees have been assessed and sufficient revenue has been collected.
- D. Budget.** The Board shall prepare and adopt an annual operating budget for each fiscal year, appropriating anticipated revenue adequate to fund projected expenditures, consistent with the mission of the Board to be submitted to the McCracken County Fiscal Court and the Paducah City Commission by no later than April 1<sup>st</sup> of each year for approval by each respective legislative body. If the City and County are unable to reach agreement as to the operating budget prior to the applicable fiscal year, the operating Budget shall remain as last approved by the Parties until such time the Parties can reach an agreement or until the Parties terminate this Agreement pursuant to the termination/withdrawal provisions set forth herein.
- E. Board Financial Duties.** The Board shall perform, or cause to be performed, all financial activities and transactions consistent with generally accepted accounting principles and state law, including but not limited to, budgeting, procurement, fund accounting, and auditing services.
- F. Rates and Fees.** The Board shall, on no less than a yearly basis, analyze all projected revenues and expenses and make recommendations to the City of Paducah and McCracken County by no later than March 1<sup>st</sup> of each year, any proposed amendments to existing Legislative Enactments relating to Funding of 911.

## VI. ADMINISTRATION

- A. Employees.** All current City 911 employees shall remain employed by the City of Paducah at their current rate of pay and shall retain their current benefits. This Agreement does not affect the terms and conditions of their employment, nor should it be construed as a waiver of their at-will employment status. In no event shall this Agreement be interpreted or construed to create an employer-employee relationship between the County and personnel providing 911 Service.
- B. CERS Obligation.** The City, as employer of 911 employees, acknowledges and accepts responsibility for the participation of any such eligible employees in the Hazardous Duty Retirement Program.
- C. Payroll and Accounting.** Payroll, employee benefits, and all attendant accounting employee functions for 911 shall be performed by the City of Paducah. Any and all costs associated with payroll, accounting, and human resources concerning 911 shall be charged to the costs of operating 911 and included in the Budget.

## VII. EXPENDITURES

- A. Expenditures.** In addition to all ordinary expenses necessary for the operation of 911, the Board and the Parties shall be responsible for ensuring the following are funded:
  - i. CAD, Telephony, and Recorder upgrades; and
  - ii. Upgrades to the 911 system, including, but not limited to, radios, paging systems, and new technology.
- B. Party Expenditures.** Each party shall be individually responsible for upgrades to their handheld and vehicle radios which are necessary to comply with the upgraded 911 system.
- C. Debt.** The City and County shall be equally responsible for all debt incurred by either Party for the operation of 911. The Budget proposed by the Board and adopted by the Parties shall contemplate the repayment of debt. No Party shall incur debt for the operation of 911 without the other Party's written approval.

## VIII. LOCATION OF DISPATCHING FACILITY

The Paducah-McCracken 911 Service Dispatching Facility is currently located at the Emergency Communications Building at 510 Clark Street, Paducah, Kentucky, 42003. Any decision to relocate the 911 Service Dispatching Facility to a location other than 510 Clark Street shall be made jointly by both Parties.

## IX. PROPERTY

- A. Party Assets.** As of the date of execution of this Agreement, all assets relating to 911 owned by the Parties to this Agreement are listed, incorporated, and attached hereto as Exhibit A. The Parties shall retain ownership of all such assets during the pendency of this Agreement.
- B. Additional Assets.** Each Party may acquire and otherwise own personal property and equipment necessary to provide the services as enumerated herein.
- C. Joint Assets.** The Parties intend to acquire joint assets with joint funds during the pendency of this Agreement. A list of those anticipated joint assets is attached hereto as Exhibit B. The Parties agree to update Exhibit B during the pendency of this Agreement as additional joint assets are acquired. In the event of termination of this Agreement, each Party shall have the right to acquire one or more assets from the other Party. In doing so, the Parties agree to negotiate in good faith as to the current fair market value of said asset(s), taking into consideration the purchase price of the asset(s) and/or fair market value at the time of acquisition and the depreciation of said asset(s). The purchasing Party shall only be required to pay a percentage equivalent to the selling Party's pro rata contribution toward the purchase price and/or cost of the asset. For instance, if the selling Party contributed 40% of the funds used to purchase the joint asset, the purchasing Party is only required to pay the selling Party 40% of the current fair market value of the joint asset. In addition, any selling Party shall have the authority to lease any joint asset from the purchasing Party if it so chooses. The Parties agree to negotiate in good faith as to a reasonable rental payment and, in doing so, agree to set the rental payment so that such value is reasonably related to the cost of operation. In the event the Parties cannot agree to a purchase price and/or lease payment price of any joint asset at the time of termination, either Party shall have the right and/or authority to file a declaratory judgment action in McCracken Circuit Court.
- D. Assets upon Termination.** Upon termination of this Agreement, each Party shall retain ownership in the assets listed on Exhibit A and any additional assets acquired by that Party during the pendency of this Agreement.

## X. INSURANCE

The City and County shall each maintain insurance against legal liability for 911 services, naming each other as additional insureds with limits of liability no less than three million dollars (\$3,000,000) per person and three million dollars (\$3,000,000) per incident. All insurance costs shall be charged to the cost of operating 911 and included in the Budget thereof.

## XI. SHARED LIABILITY

It is the intent of the Parties to share equally in the liabilities associated with the operation of 911. In the event either the City or County or the officers, agents, employees and/or volunteers of the City or County are held liable for acts or omissions relating to the provision of 911 services and such liability is not paid in whole or part by insurance, the Parties agree to share equally in those uncovered losses, expenses, costs, attorney's fees, and other damages of every kind and nature for all claims, demands, and causes of action, both in law and equity, including, without limitation, third party actions and actions for contribution and/or indemnification.

## XII. DURATION OF AGREEMENT

- A. Duration / Term.** This Agreement shall become effective on the date the Agreement is fully executed. The Initial Term shall be for a period of five (5) years. Such term shall

automatically renew at the end of the Initial Term and any subsequent terms thereafter for an additional five (5) years unless one party withdraws from and/or terminates the Agreement, as set forth herein.

**B. Amendment.** This Agreement may be amended by mutual consent of the Parties, in accordance with statutory provisions.

**C. Withdrawal/Termination.** Any Party may withdraw from and/or terminate this Agreement on June 30<sup>th</sup> of each year by providing no less than three (3) years advanced written notice to the other Party and to the Board of its intent. Notices shall be delivered to the Mayor of the City, the Judge/Executive of the County, and the Chairman of the Board.

### **XIII. SEVERABILITY AND SURVIVAL**

Any provision of this Agreement later held to be unenforceable for any reason shall be deemed void and all remaining provisions shall continue in full force and effect. All obligations arising prior to the termination of this Agreement and all provisions of this Agreement allocating responsibility or liability between the Parties shall survive the completion of the services hereunder and the termination of this Agreement.

### **XIV. WAIVER**

The failure at any time to enforce any provision of this Agreement or failure to exercise any right herein granted shall not constitute a waiver of such provision or such right thereafter to enforce any or all of the provisions of this Agreement.

### **XV. ENTIRE AGREEMENT**

This Agreement constitutes the entire agreement and understanding between the City and County in regard to the subject matter thereof; it supersedes all prior negotiations, representations, understandings, and agreements between them, written or oral, all of which are no longer effective.

**In witness whereof, each party hereto has set its hand, through its duly authorized agent pursuant to affirmative action from each respective legislative body:**

AUTHORIZED REPRESENTATIVE OF THE CITY OF PADUCAH, KENTUCKY:

BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

AUTHORIZED REPRESENTATIVE OF McCracken County, Kentucky:

BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

Paducah Communications Services Division Asset List

Item	Comm Room	Office	Kitchen	Front Office	Server Room	EOC	Total
General CPU				1			1
CAD CPUs	5					4	9
Radio CPU	5						5
Vesta CPU	5						5
Laptops	3	2					5
Monitors	49	6		2		12	69
Mobile 911 Systems							2
Portable Radios	15	1					16
Portable Radio Charger Base	20	1					21
Chair	7	12		3			22
24/7 Chairs							7
Refrigerators			2				2
Stove			1				1
Microwave			1				1
Conference Table		2					2
Desks	4	2		1			6
Color Laser Printer	2	1		1			4
AED							1
Large TV	2			1			3
Small TV	2						2
Small Switch						1	1
Cradle Point- Mobile Router						1	1
Water Cooler							1
HP OfficeJet Pro 8210 Printer					1		1
HP Deskjet 6122 Printer					1		1
Dell OptiPlex 3050 Camera Monitor Computer					1		1
Spectracom NetClock AT&T Netclock					1		1
Cisco 2960 AT&T Vesta A					1		1
Cisco 2960 AT&T Vesta B					1		1
VoIP Gateway AT&T Vesta A					1		1
VoIP Gateway AT&T Vesta b					1		1
Cisco 2911 Router AT&T Vesta					1		1
APC SMT3000RM2UC Battery/Surge Protector					1		1
Equature Server Primary					1		1
Equature Server Secondary					1		1
TrippLite Battery/Surge Protector					1		1
HP Z400 Computer Motorola GenWatch 3					1		1
CradlePoint Router KY Office of Technology for NCIC					1		1
Cisco 9200CX Switch E911 Zetron Swtich					1		1
Cisco 9200L Switch E911 Network Data					1		1
Zetron Central Interface Zetron A					1		1
Zetron Central Interface Zetron B					1		1
Cisco 4300 Router AT&T FirstNet MPLS router					1		1
Cisco CE500 Switch Motorola					1		1
HP Proliant ML110 Motorola					1		1
Lantronix UDS1100 Vesta to Tyler NWPS spill					1		1
Lantronix UDS1100 Spare					1		1
Lantronix UDS1100 Spare					1		1

EXHIBIT "A"



Dell PowerEdge R640 Server VMWare Host Server A					1		
Dell PowerEdge R640 Server VMWare Host Server B					1		
Dell PowerEdge R640 Server VMWare Host Server C					1		
Cisco SG550XG-24T Switch VMWare Switch 1					1		
Cisco SG550XG-24T Switch VMWare Switch 2					1		
Dell SCv3020 Storage VMWare Storage A					1		
Dell SCv3020 Storage VMWare Storage B					1		
Cisco FPR-1120 Firewall AT&T FirstNet MPLS router Secondary					1		
Cisco C1841 Router NAT to NCIC					1		
Firewall at EOC					1		1
510 Clark Street 911 Building							1
510 Clark Street 911 Tower							1

## EXHIBIT A

# Radio System Assets

Fiscal Court Workshop Meeting

May 22, 2024

**EXHIBIT B**

# County Elmdale Tower Site

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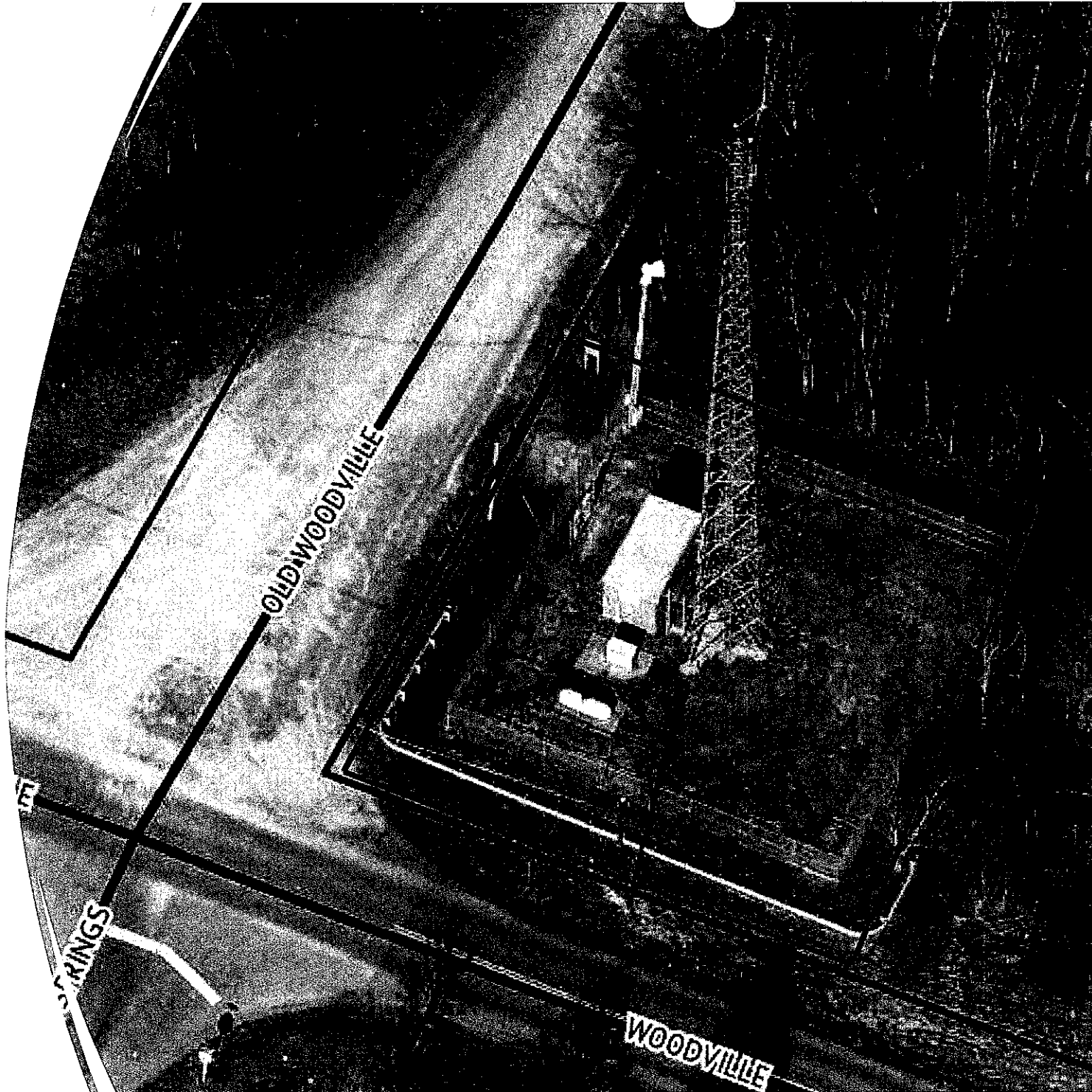
- 1400 Elmdale Road
- 3.92 Acres
- 91.4 Meters above ground



# County Woodville Road Tower Site

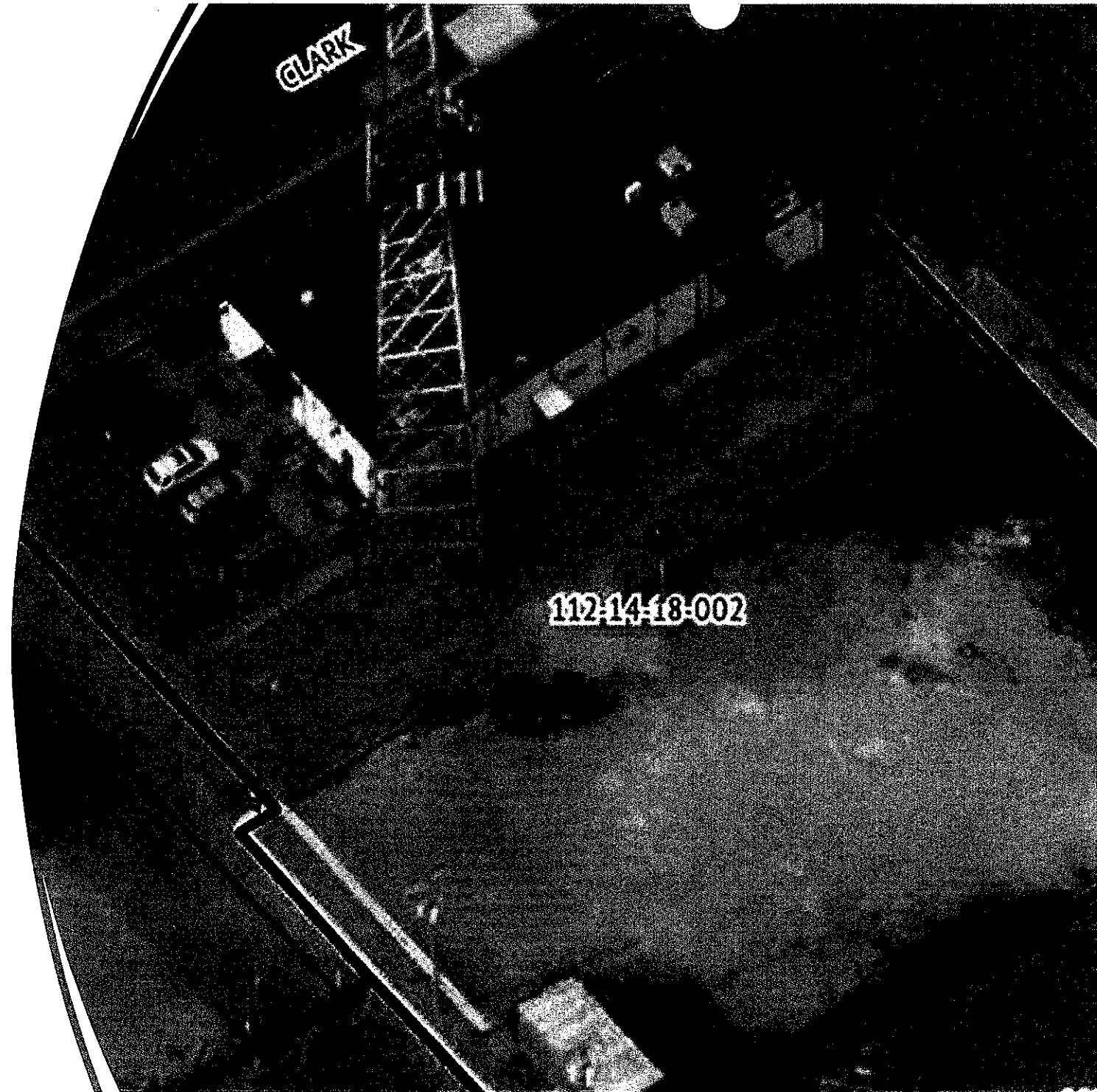
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- 1100 Block Woodville Road
- NE Corner of Woodville and Rice Spring Roads
- Leased from the Commonwealth



# City Tower Site

- 
- 500 Clark Street



# City Equipment List

Item	Control Room	Office	Dispatch	Front Office	Server Room	EOC	Total
General CPU				1			1
CAD CPU	5					4	9
Radio CPU	5						5
Vesta CPU	5						5
Laptops	2	3					5
Monitors	46	9		2		12	69
Mobile 911 Systems							2
Portable Radios	9	1					16
Portable Radio Charger Base	9	1					21
Chair	7	12		3			22
24/7 Chairs							7
Refrigerators			2				2
Stove			1				1
Microwave			1				1
Conference Table		2					2
Desks	3	3		1			6
Colo: Laser Printer	2	1		1			4
AED							1
Large TV	2			1			3
Small TV	2						2
Small Switch						1	1
Cradle Point - Mobile Router						1	1
Water Cooler							1
HP OfficeJet Pro 8210 Printer					1		1
HP DeskJet 6122 Printer					1		1
Dell OptiPlex 3050 Camera Monitor Computer					1		1
Spectracom NetClock AT&T Netclock					1		1
Cisco 2960 AT&T Vesta A					1		1
Cisco 2960 AT&T Vesta B					1		1
VoIP Gateway AT&T Vesta A					1		1
VoIP Gateway AT&T Vesta b					1		1
Cisco 2811 Router AT&T Vesta					1		1
APC SMT3000RM2UC Battery/ Surge Protector					1		1
Equature Server Primary					1		1
Equature Server Secondary					1		1
TrippLite Battery/ Surge Protector					1		1
HP 2490 Computer Motorola GenWatch 3					1		1
CradlePoint Router KY Office of Technology for NCIC					1		1
Cisco 9200CX Switch E911 Zetron Switch					1		1
Cisco 9200L Switch E911 Network Data					1		1
Zetron Central Interface Zetron A					1		1
Zetron Central Interface Zetron B					1		1
Cisco 4300 Router AT&T FirstNet MPLS router					1		1
Cisco CE500 Switch Motorola					1		1
HP ProLiant ML110 Motorola					1		1
Lantronix UDS1100 Vesta to Tyler NWP5 split					1		1
Lantronix UDS1100 Spare					1		1
Lantronix UDS1100 Spare					1		1
Dell PowerEdge R640 Server VMWare Host Server A					1		1
Dell PowerEdge R640 Server VMWare Host Server B					1		1
Dell PowerEdge R640 Server VMWare Host Server C					1		1
Cisco SG550XG-24T Switch VMWare Switch 1					1		1
Cisco SG550XG-24T Switch VMWare Switch 2					1		1
Dell SCV3020 Storage VMWare Storage A					1		1
Dell SCV3020 Storage VMWare Storage B					1		1
Cisco FPR-1120 Firewall AT&T FirstNet MPLS router Secondary					1		1
Cisco C1841 Router NAT to NCIC					1		1
Firewall at EOC					1		1

# Joint Radio Asset VIDA Core

## 2.1 VIDA Core

At the heart of the City of Paducah and McCracken County's L3Harris P25 Radio Communication System is the VIDA Unite geographically separated (Geo-H/A) Core, designed to provide total VIDA core and critical services redundancy.

The L3Harris Voice, Interoperability, Data and Access (VIDA) P25 core integrates all aspects of the radio system into one management center with full application high availability (HA) software and hardware redundancy. VIDA leverages VM technology to host the core's services, allowing a single server to simultaneously run multiple operating systems in a virtual environment. Because it is IP based, you can access data and communications from just about anywhere.

### Geographically Redundant VIDA Unite P25 Cores

#### 911 / DISPATCH Primary VIDA P25 Unite Core:

VIDA Application Server (VAS), which hosts network switching, control, network management, administration, and cybersecurity software applications in a virtual machine (VM) environment and includes:

- Network Switching Server (NSS)
- Unified Administration Server (UAS)
- Regional Network Manager (RNM)
- Regional System Manager-Pro (RSM-Pro)
- Active Directory (AD)
- McAfee ePolicy Orchestrator
- Quest Two-Factor authentication
- SysLog-Splunk
- Unitrends Backup Server
- Enterprise Network Manager (ENM)
- Firepower Management Center (FMC)
- SUMS
- VIDA transcoder
- ISSI (1 system connection with 20 voicepaths) –(Optional)
- BeOn® push-to-talk application Foundation service with support for up to 25 users (25 client licenses included)
- System network clock server
- Networking Routers, Ethernet Switches, and Firewall
- P25 trunked logging recorder interface service with 24 talkpaths
- Encompass Interoperability Gateway with DFSI interface and support for 40 total talkpaths
- System management terminals for network management, system administration, access to logging recorders, OTAP software (optional), and other functions

# Joint Asset

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## McCracken-Rice Site Secondary VIDA Unite P25 Core:

VIDA Application Server (VAS), which hosts network switching, control, network management, administration, and cybersecurity software applications in a virtual machine (VM) environment and includes:

- Network Switching Server (NSS)
- Region Network Manager (RNM)
- Region System Manager-Pro (RSM-Pro)
- Active Directory (AD)
- Quest Two-Factor authentication
- Unitrends
- Enterprise Network Manager (ENM)
- VIDA transcoder
- ISSI (1 system connection with 20 talkpaths) *(optional)*
- BeOn Foundation service with the ability to support up to 25 users (25 client licenses included)
- System network clock server
- Networking Routers, Ethernet Switches, Firewall





# Joint Asset

## 2.2 P25 Simulcast IP Radio Network

Your new P25 radio system is designed to provide superior radio coverage for the City of Paducah and McCracken County. The radio system utilizes the City/County's existing tower locations as well as additional leased tower locations to meet and exceed the 95% portable outdoor coverage goal. The system incorporates 5 sites configured into a single simulcast cell utilizing 10 channels in the 800MHz, non-NPSPAC frequency band. The connectivity uses a highly redundant, high-speed IP microwave network providing the most reliable site-to-site connectivity available. Additionally, the system utilizes DC power plants along with new generators providing a double redundant power backup solution for tower site equipment.

### The City of Paducah and McCracken County P25 Phase 2 Simulcast Description

#### Five (5) Sites of 800MHz P25 Phase 1 & 2 Simulcast Cell

- 911
- McCracken-Rice
- American Tower 1209288
- SBA 1297003
- McCracken-Elmore

#### 2 Distributed Control Point Sites (DCPs):

- Primary DCP #1: 911
- Redundant DCP #2: McCracken-Rice
- 10 TWO-47 P25 Phase 1 & 2 base stations operating in 800MHz providing 9 P25 Phase 1 FDMA voice talkpaths, or 18 P25 Phase 2 TDMA voice talkpaths
- P25 simulcast site common equipment
- VIDA EDGE for local site alarms gathering and P25 functions and for P25 data communications (DCP sites)
- RF antenna systems per design:
  - 2 transmit antennas
  - 1 receive antenna w/ test lines
  - TTA with redundant amplifiers and test port
  - Receive multi-coupler with test port and spare ports for growth
  - Two 6 Channel Transmit combiners
- Redundant GPS disciplined synchronization and reference oscillators
- Commercially available off-the-shelf (COTS) networking equipment - routers and switches
- DC power plant equipment meeting RFP specified runtimes

# Joint Assets

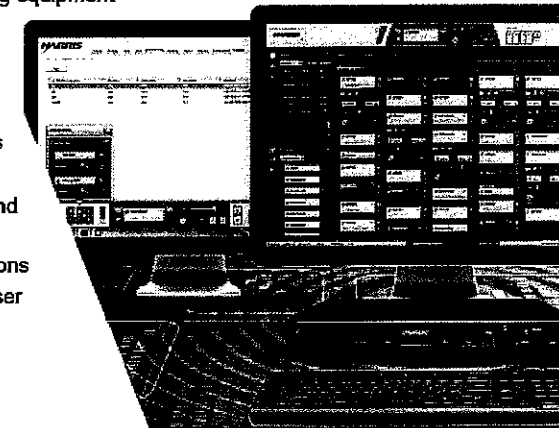
## 2.3 Symphony Consoles

The Symphony console is designed by dispatchers for dispatchers. We understand the critical role that dispatchers play during life safety events, and it requires a platform that is intuitive and minimizes the time it takes for each task. The Symphony console is so easy to use that it quickly becomes second nature. With the L3Harris design, the City of Paducah and McCracken County will gain the following capabilities:

- **Enhanced Dispatch Experience** – The Symphony dispatch console was designed for simple, efficient public safety radio dispatch operation. The Symphony Dispatch Console combines the Symphony Dispatch Platform with advanced application software to support 24-hour mission-critical operations.
- **Cutting Edge Technology** – A unique hardware design supports the reliability needed for emergency responses. Advanced digital audio technology delivers high-capacity and secures end-to-end communications.

The City of Paducah and McCracken County will have 7 Symphony dispatch consoles.

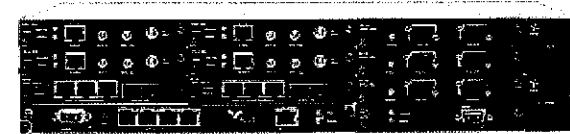
- **7 Symphony consoles at the 911 dispatch center**
  - 2 Nano speakers
  - Gooseneck microphone
  - Call Director Telephone Interface
  - 1 Dispatcher wired headset
  - USB keyboard and mouse
  - 1 USB footswitch
  - 2 six-wire headset jack boxes
  - Redundant Networking equipment
  - Backup control stations
  - AES and DES encryption
  - Conventional Controls
  - Paging operation
  - 16 patch definitions and 8 patch activations
  - 16 simuselect definitions
  - Embedded web browser



# Joint Assets

## 2.4 Aviat Loop-Protected IP Microwave Backhaul

The City of Paducah and McCracken County's IP microwave design includes a backhaul solution developed by Aviat Networks. Aviat is the leading and most trusted provider of microwave solutions for government, public safety, defense, and local / state/province / national agencies. Aviat is a proven partner to state and local governments. Twenty-four out of fifty statewide networks and 10 of the largest 25 cities in the USA use Aviat microwave along with countless other county and city governments. Aviat has the trusted, reliable solutions required for the critical applications that support the City of Paducah and McCracken County. With over 2 billion in-service operating hours, Aviat's line of high-performance, mission-critical microwave radios are proven dependable for applications that need to work.



### Backhaul System Description

This project will provide new IP microwave equipment paired with MPLS routers (as appropriate per design) for a highly available IP network backhaul design for the City of Paducah and McCracken County, KY. The microwave radio platform proposed is Aviat's Eclipse with IRU600 v4 all-indoor mounted radios. Racks, breaker panels, antenna systems, VOIP Orderwire, and ProVision EMS have been included.



The network design as proposed consists of Five (5) Eclipse Packet Node Microwave paths using Eclipse IRU600 v4 radios in the redundant ring configuration. The network is using both 6 GHz and 11 GHz band radios and 30 MHz RF channels with Adaptive Coding and Modulation (ACM), supporting capacities of 155Mbps total capacity per direction.

Please refer to the Microwave System Description document located in Section 5.2, as well as Sections 5.3 and 8 for the Backhaul Plan document, including PathLoss files and link budgets, for additional technical information regarding your microwave solution.

# Joint Assets

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## 2.5 Interoperability

### Encompass Interoperability Gateway

The Encompass Gateway application runs as a Virtual Machine (VM) on the L3Harris VIDA Network, delivering critical interoperability between legacy systems and new P25 mobiles, portables, and base stations.

The Encompass Gateway applications include connection to dispatch console equipment and to analog voice base station equipment. In both cases, control of the Encompass Gateway is implemented in software and may be customized easily for specific requirements. Legacy systems are interconnected via the Encompass Gateway and are accessible to all resources on the VIDA system, including P25 Talkgroups. The Encompass Gateway is an IP network device so it can be located anywhere on the VIDA network.

In addition to Legacy signaling, Encompass Gateway supports the P25 standard Digital Fixed Station Interface (DFSi) protocol to provide interoperability. L3Harris VIDA is the only solution capable of interfacing with P25 trunked sites and DFSi-enabled base stations simultaneously.

The City of Paducah and McCracken County's Encompass Gateways are licensed and configured with support for 40 total talkpaths, providing disparate interface connections for your interoperability connection needs.

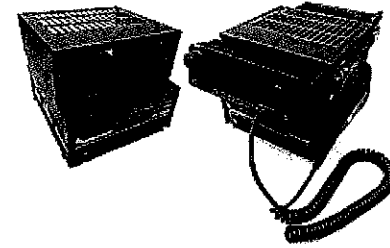


# Joint Assets

## Interoperability Control Stations (also located at dispatch)

### XL200M Mobile Control Stations

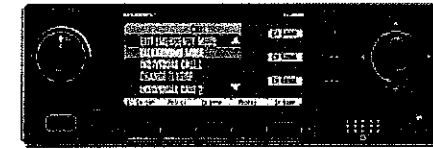
- VHF, UHF, and 7/800 MHz
- P25 Trunking (7/800) P25 Conventional and FM analog
- P25 Conventional and FM analog (V/UHF)
- AES encryption
- DES encryption
- Integrated Enclosure Cabinet with Speaker and Power Supply
- Tone Control
- Multiband Control Station Antenna System with Control Station Combiner
- Interoperability control stations are interfaced to the Encompass Gateway for control and access from the P25 System talkgroups and dispatch consoles, as described above in the Encompass Gateway Section.



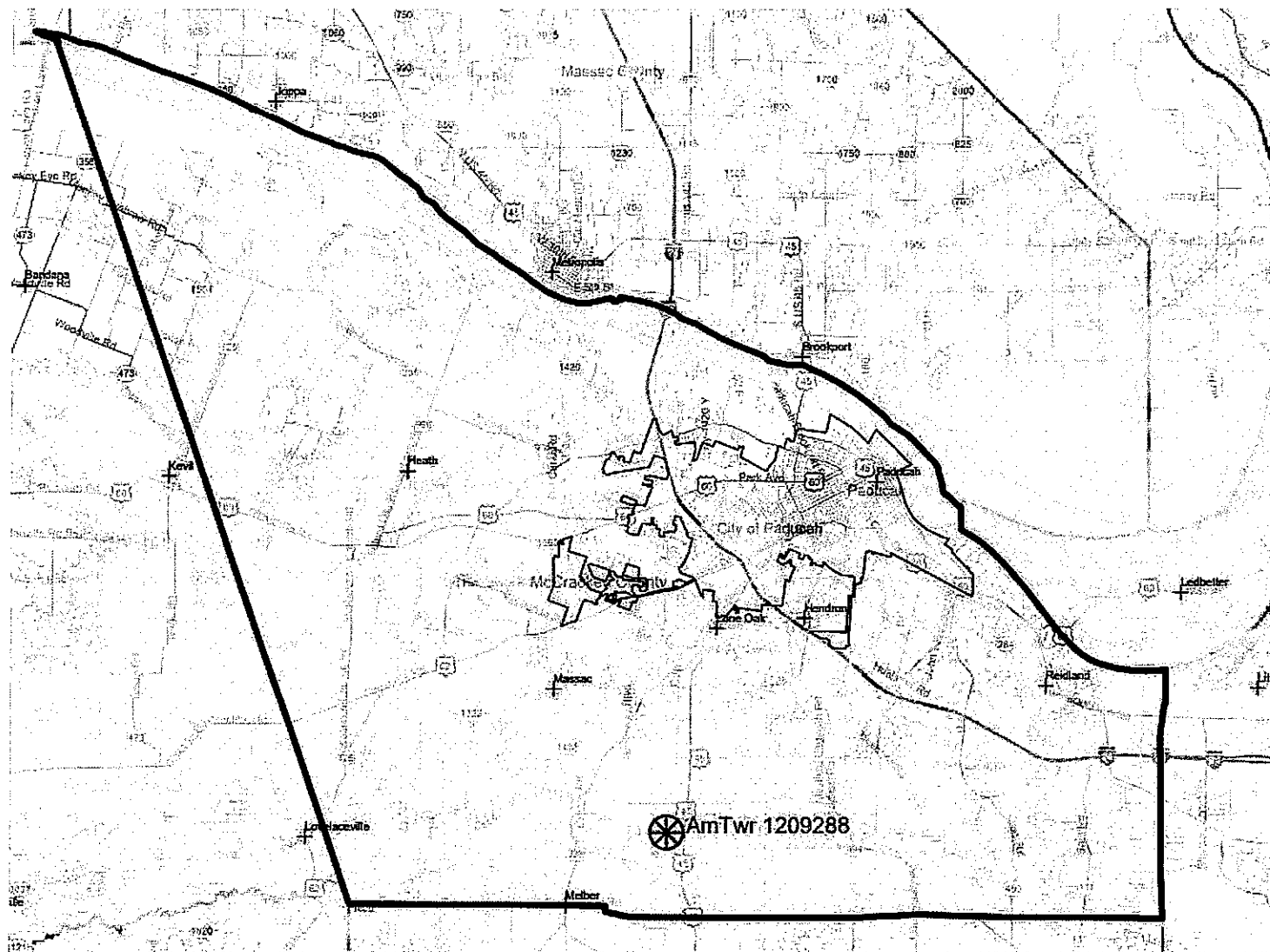
### Dispatch Backup Control Stations

#### XL-185M MOBILE WITH DESKTOP SUPPLY

- 7/800 MHz
- P25 Trunking, P25 Conventional and FM analog
- AES encryption
- DES encryption
- External Power Supply
- External Speaker
- 7/800 MHz Control Station Antenna System with Control Station Combiner
- Symphony console backup stations include direct, wired connectivity to the console for control.



# Joint Asset (Rental Tower)



# Joint Asset (Rental Tower)

