#### BOARD OF COUNTY COMMISSIONERS OF DOUGLAS COUNTY, KANSAS

#### WEDNESDAY, DECEMBER 20, 2017

4:00 p.m.

#### **CONSENT AGENDA**

- (1) (a) Consider approval of Commission Orders; and
  - (b) Consider approval of acquisition of temporary easement for drainage structure replacement, Project No. 2017-63 (Kevin Sontag)

#### **REGULAR AGENDA**

- (2) Consider SP-17-00670; a Site plan for co-location of communication equipment for KwiKom communication on an existing 300' tower. The application was submitted by David Blaha, Hyden tower/HPB Properties LLC for Sherilyn and Freda LaDuke, property owners of record. The tower is located at 249A N 2100 Road. Sandra Day is the planner.
- (3) (a) Consider approval of Accounts Payable (if necessary)
  - (b) Appointments
  - (c) Board of Zoning Appeals (1) positions 10/17
  - (d) Building Code of Appeals Board (2) positions 12/16
  - (e) Community Corrections Advisory Board (1) position
  - (f) Senior Services Board of Directors (3) positions
  - (g) Eudora Township Trustee position
  - (c) Public Comment
  - (d) Miscellaneous
- (4) Adjourn

#### WEDNESDAY, DECEMBER 27, 2017 - Canceled

#### **WEDNESDAY, JANUARY 3, 2018**

-Proclamation for Human Trafficking Awareness Month – Kristen Tebow

6:00 p.m.

-Regular: Consider options for Project No. 2016-18, Route 1055 improvements at the N 700 curve west of Vinland (Keith Browning)

WEDNESDAY, JANUARY 10, 2018

**WEDNESDAY, JANUARY 17, 2018** 

WEDNESDAY, JANUARY 24, 2018

WEDNESDAY, JANUARY 31, 2018

**Note**: The Douglas County Commission meets regularly on Wednesdays at 4:00 P.M. for administrative items and/or 6:00 P.M. for public items at the Douglas County Courthouse. Specific regular meeting dates that are not listed above have not been cancelled unless specifically noted on this schedule.



#### **DOUGLAS COUNTY PUBLIC WORKS**

3755 E. 25th Street Lawrence, KS 66046 (785) 832-5293 Fax (785) 842-1201 dgcopubw@douglascountyks.org www.douglascountyks.org

**Keith A. Browning, P.E.**Director of Public Works/County Engineer

#### **MEMORANDUM**

To: Board of County Commissioners

From: Keith A. Browning, P.E., Director of Public Works/County Engineer

Kevin R. Sontag, P.S., County Surveyor

Date: December 15th, 2017

Re: Consent agenda

Acquisition of temporary easement for drainage structure replacement

Project No. 2017-63 (Str. No. 03.28N-24.00E)

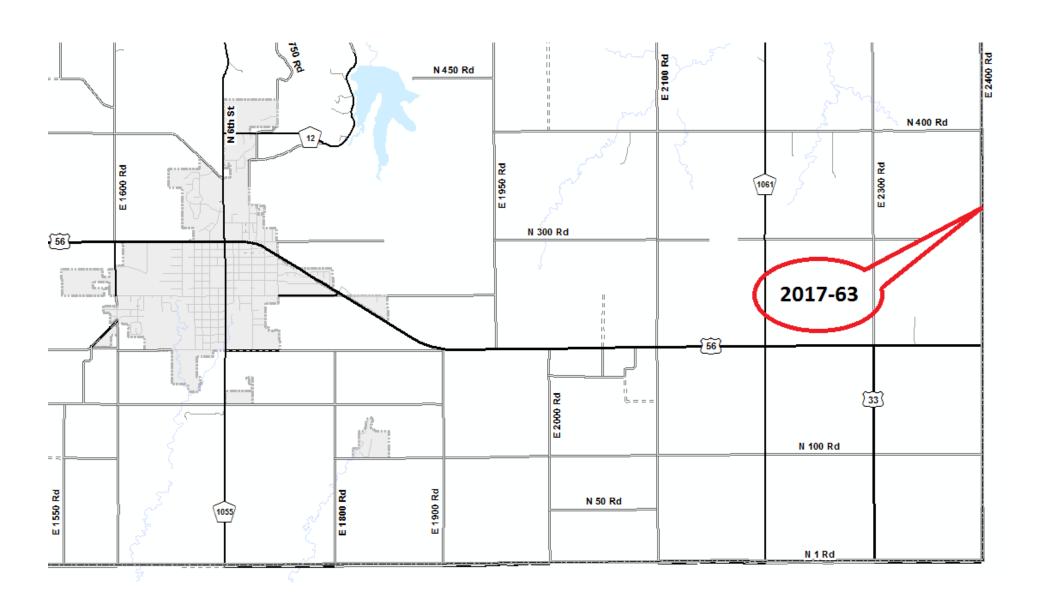
A project has been designed to replace a deficient drainage structure on E2400 Road (Douglas-Johnson County line) approximately 7 miles east of Baldwin City. Plans were developed in-house and negotiations with the landowner for temporary construction easement are complete.

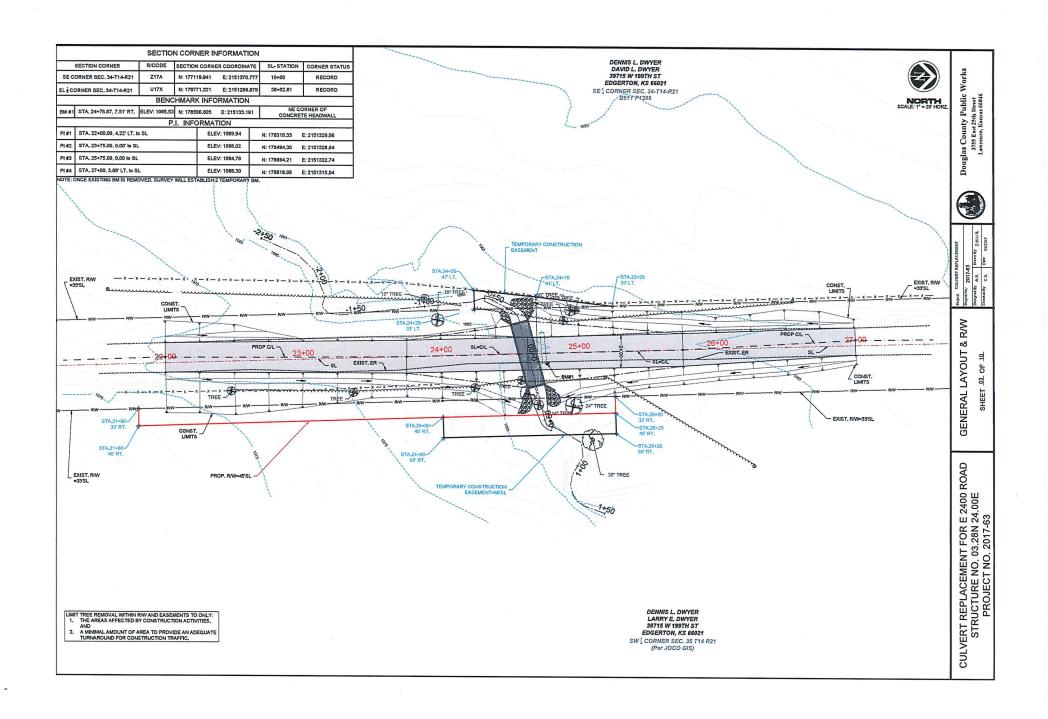
Construction is currently planned to begin spring 2018 and will be accomplished using county personnel.

To ensure the proper completion of a necessary construction project, approval is recommended for the attached CONTRACT FOR HIGHWAY PURPOSES.

ACTION REQUIRED: Consent agenda approval of CONTRACT FOR HIGHWAY PURPOSES for Project No. 2017-63 (Str. No. 03.28N-24.00E)

## General Location Map for Project No. 2017-63





## Memorandum City of Lawrence Planning & Development Services

TO: Craig Weinaug, County Administrator

Scott McCullough, Planning and Development Services Director

Sean Reid, Director, Zoning and Codes Department Tonya Voigt, County Zoning and Codes Department Judy Stone, County Zoning and Codes Department

Randy Roberts, Douglas County Emergency Communications

FROM: Sandra Day, Planner

CC: **Douglas County Board of County Commissioners** 

David Blaha, Hyden tower/HPB Properties LLC.

File

Date: December 14, 2017

RE: SP-17-00670; 249 N 2100 Road; KwiKom

**Staff Recommendation:** Planning staff recommends approval of the above referenced site plan.

#### **ATTACHMENTS**

- General Location Map
- 2. Property Area Map
- 3. Proposed site plan
- 4. Staff report CUP-13-00156

#### **SUMMARY**

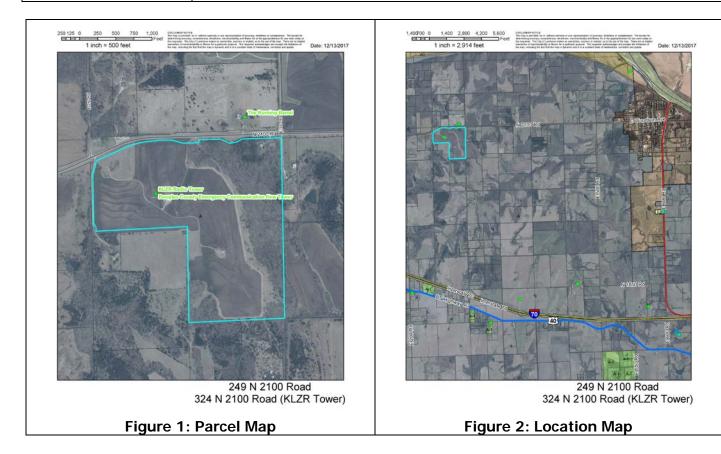
The Board of County Commissioners at their meeting on July 10, 2013 approved the existing tower located at 249 N 2100 Road. The Commission approved a Conditional Use Permit (CUP-13-00156) for the purposes of constructing a 300' communication tower for Douglas County emergency communication equipment. Douglas County was the applicant. The tower design will accommodate space for multiple carriers. The purpose of the application was specifically for the exclusive use of the tower for Douglas County equipment. At the time of the approval, there was no intent to sub-lease space on the tower. There was a recognition that an unknown user could come forward and make a request for tenant space on the tower. In order to preserve the County's use of the structure for future needs the CUP was approved with the following condition:

Use of this tower for carriers other than Douglas County Emergency Communication Department shall require County Commission approval, as the tower owner, in addition to site plan review and approval of any co-location request for new equipment other than that expressly used for Douglas County Emergency Management. Equipment changes or improvements by Douglas County may be approved by site plan amendment per the County Zoning Administrator. "

Page 1 of 4 AT&T (SP-17-00670) After approval for the tower was granted, the tower was constructed but is not owned by Douglas County as originally planned and noted in the application documentation. Douglas County is a tenant on the tower. The tower owner is pursuing a request to allow co-location of equipment for KwiKom on this tower. Per the conditions of approval, any co-location on this tower first requires specific approval by the County Commission.

Typically, co-location of communication equipment on communication towers, water towers or building mounted applications are reviewed administratively through the Planning Office. Building permits are issued through the Zoning and Codes Office. This application deviates from that process because of the condition placed on the original Conditional Use Permit.

Zoning and Land Use:	
Subject Property Zoning:	A (Agricultural) District. Existing rural agricultural district with two tower structures.
Surrounding Zoning:	A (Agricultural) District in all directions. Existing rural agricultural uses including scattered residences.

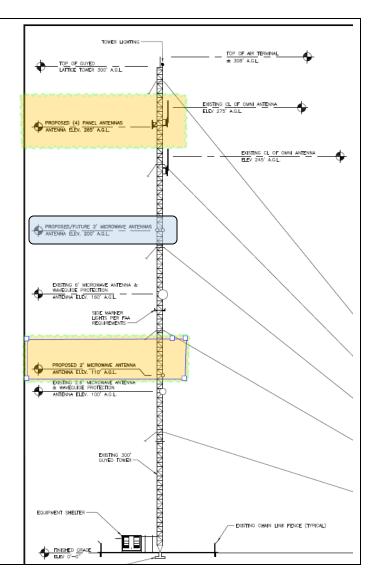


Existing Development: This site includes two tower structures accessed from the same driveway. A rural residence is located in the northeast corner of 109-acre tract. The tower compound includes an existing equipment shelter building and a generator pad.

Page 2 of 4 AT&T (SP-17-00670) 249 N 2100 Road

Proposed Development: The proposed changes to the tower include the addition of equipment located at the ground level within the existing enclosure. This ground equipment is required in connection with the proposed antenna that will be co-located on the tower structure as shown on the attached site plan. The proposed plans show four proposed panel antennas located 265' above ground level and a 2' microwave antenna located at 110' above ground level (highlighted in gold in image to the right).

This plan also shows equipment, located 200' above ground level, as a future addition (highlighted in blue in image to the right).



AT&T (SP-17-00670) Page 3 of 4

SP-17-00670	DOCUMENTATION		
Site Evaluation			
249 N 2100 Road	Communication tower is located to the northwest. Radio tower is located to the southeast. Tower is a 308' tall guyed tower. The proposed equipment would be located at 265' and 110' above ground level.  Future equipment to be added at 200' above ground level.		

#### Related Requests for Site:

- CUP-13-00156; Original Approval, with restrictions.
- CUP-4-2-87; KLZR Radio tower to the southeast on same parcel.

Additional Regulatory Site Requirements	RESPONSE (Check one of the following)		
Airport Overlay District	□ YES	✓ NO	
If Yes, determination of Airport Advisory Board may be required			
Is property located Regulatory Flood Plain?	□ YES	✓ NO	
If Yes, A separate Flood Plain Development Permit may be required.			
Is City infrastructure used for co-location request?	□ YES	✓ NO	
Has Structural Analysis been completed and approved for City infrastructure? <b>Not applicable to this request</b> .	□ YES	□ NO	
Is property subject to Historic Environs Review (HRC)	□ YES	✓ NO	
If Yes describe			
Is tower height modified by this application?	□ YES	✓ NO	
Is tower enclosure or setback modified by this application?	□ YES	✓ NO	

#### Conclusion

The proposed equipment modifications do not alter the tower height or enclosure of the existing tower. Improvements at the ground level include the addition of a frame for mounting equipment and cables that connect to antenna mounted on the tower.

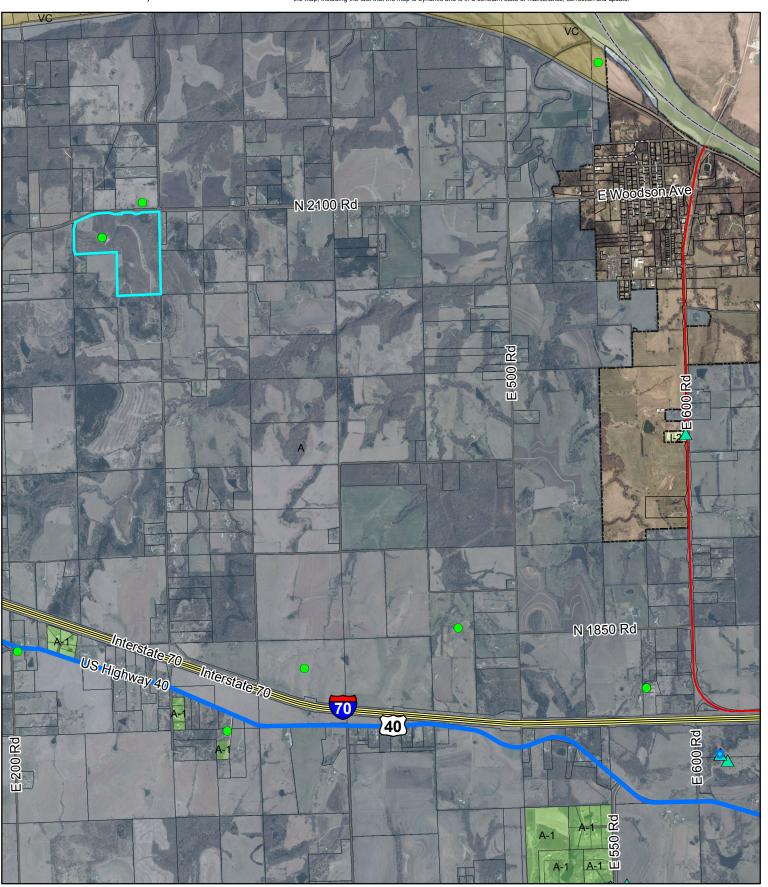
This application represents the first request for co-location of communication equipment on this structure in addition to the existing Emergency Communication Department equipment originally installed on this tower. Douglas County Emergency Commission Department staff reviewed this application and did not have any comments. The proposed request is not anticipated to conflict with existing equipment currently located on the tower.

The proposed request is consistent with similar applications for co-location of communication equipment on other structures located in Douglas County and is supported by staff.

Page 4 of 4 AT&T (SP-17-00670) 249 N 2100 Road

DISCLAIMER NOTICE
The map is provided "as is" without warranty or any representation of accuracy, timeliness or completeness. The burden for determining accuracy, completeness, timeliness, merchantability and fitness for or the appropriateness for use rests solely on the requester. The City of Lawrence makes no warranties, express or implied, as to the use of the map. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts the limitations of the map, including the fact that the map is dynamic and is in a constant state of maintenance, correction and update.

Date: 12/13/2017



249 N 2100 Road 324 N 2100 Road (KLZR Tower)

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Date: 12/13/2017



249 N 2100 Road 324 N 2100 Road (KLZR Tower)



PROJECT: ANTENNA MOD

DRAWING DESCRIPTION: SITE PLAN APPLICATION

APPLICANT:





Topeka, Kansas 66618 Phone: (785) 232-1840

PLANS PREPARED BY:



#### ENGINEERING LICENSE STATE OF KANSAS PE CERTIFICATE OF AUTHORIZATION # E-571 ENGINEER: DISCIPLINE: MLO MICHAEL L. OWENS 16971 STRUCTURAL/CIVIL SO STRUCTURAL/CIVIL SO KV KEVIN VANMAFI F 22105 REJ ROBERT E. JENSEN 16096 STRUCTURAL/CIVIL SO NRK NICHOLAS R. KEFELDT 22059 STRUCTURAL/CIVIL SO TMS TERRANCE M SUPER 9250 FLECTRICAL

SDK SHELTON D KEISLING 13654 FLECTRICAL

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	SUBMITTALS			
1	DESCRIPTION	DATE	BY	REV
1	SITE PLAN APPLICATION	11/20/17		٨
1	REISSUED SITE PLAN APPLICATION	11/26/17	엾	В
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APPLICANT NAME: •

LECOMPTON RAWLAND

249A NORTH 2100 ROAD LECOMPTON, KANSAS

TITLE SHEET

T-1.0

# **APPLICANT SITE NAME: LECOMPTON RAWLAND**





ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

JURISDICTION COMPLIANCE

- INTERNATIONAL BUILDING CODE INTERNATIONAL MECHANICAL CODE ANSI/TIA-222 STRUCTURAL STANDARD
- 5. NFPA 780 LIGHTNING PROTECTION CODE
  5. UNIFORM PLUMBING CODE
  6. NATIONAL ELECTRICAL CODE

LANDLORD

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THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION PROVIDED IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

DRAWING INDEX SITE INFORMATION SHEET SITE ADDRESS: 249A NORTH 2100 ROAD REV SHEET TITLE ENGINEE NO LECOMPTON, KANSAS 66050 T-1.0 TITLE SHEET COUNTY: SURVEY (BY OTHERS) DOUGLAS SITE PLAN PROPERTY OWNER: DOUGLAS COUNTY EMERGENCY COMM. TOWER ELEVATION & ANTENNA KEY 111 EAST 11TH STREET, UNIT 200 LAWRENCE,, KANSAS 66044 TOWER INFORMATION: LATITUDE: 39° 02' 29.063" N (NAD 83) LONGITUDE: 95° 27' 09.138" W (NAD 83) GROUND ELEV: 1070.0' AMSL TOWER HEIGHT: 300'-0" AGL TOWER TYPE: GUYED TOWER

110'-0" & 200'-0" AGL MW CL: APPLICANT: KWIKOM COMMUTATIONS 800 WEST MILLER ROAD IOLA, KANSAS 66749

> 9900 WEST 109TH STREET, SUITE 300 OVERLAND PARK, KANSAS 66210 PHONE: (913) 438-7700

APPLICANT CL: 265'-0" AGL

FAX: (913) 438-7777

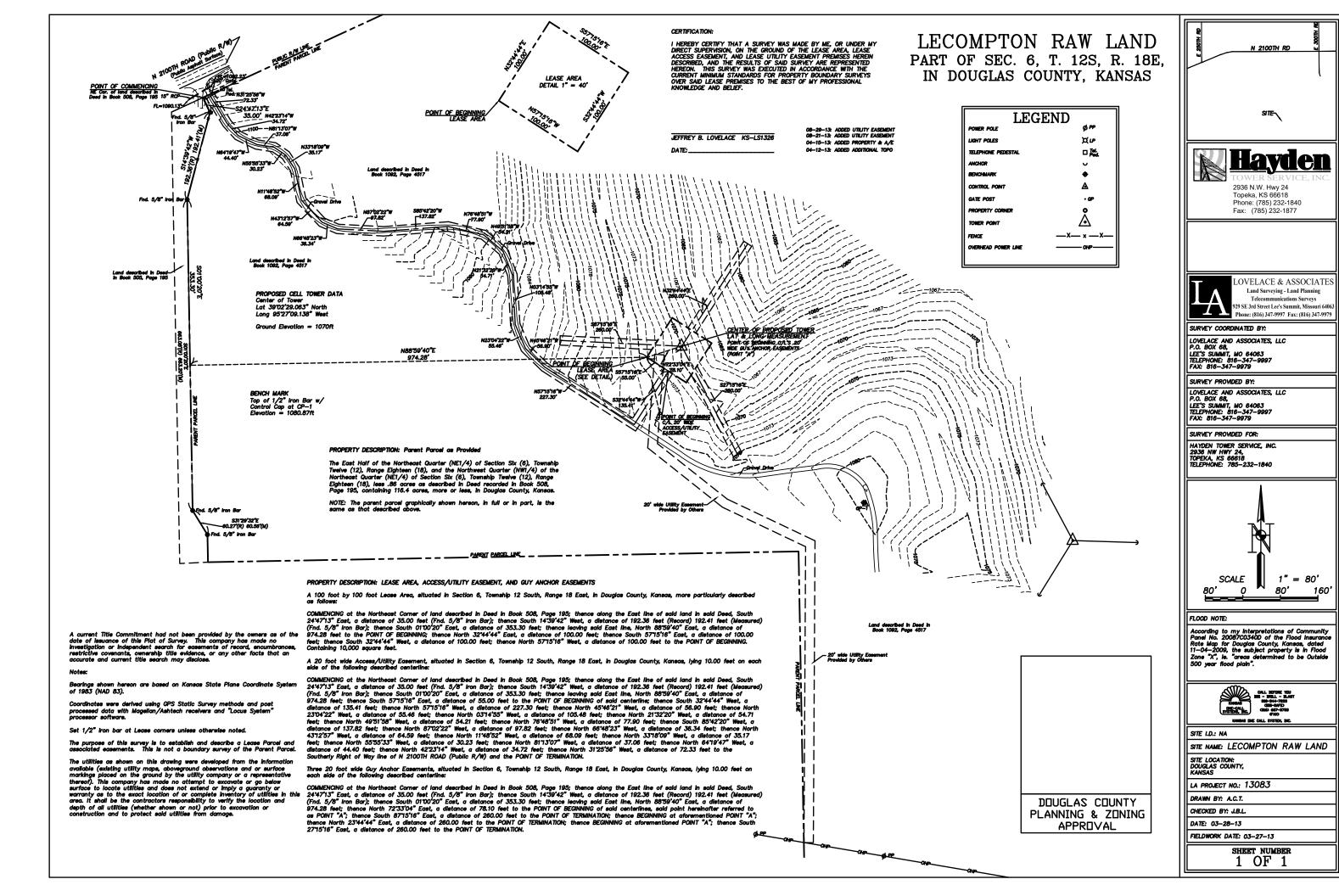
M.L. OWENS - LEAD ENGINEER S.D. KEISLING - LEAD ELECTRICAL D.C. PELLAND - LEAD DESIGNER

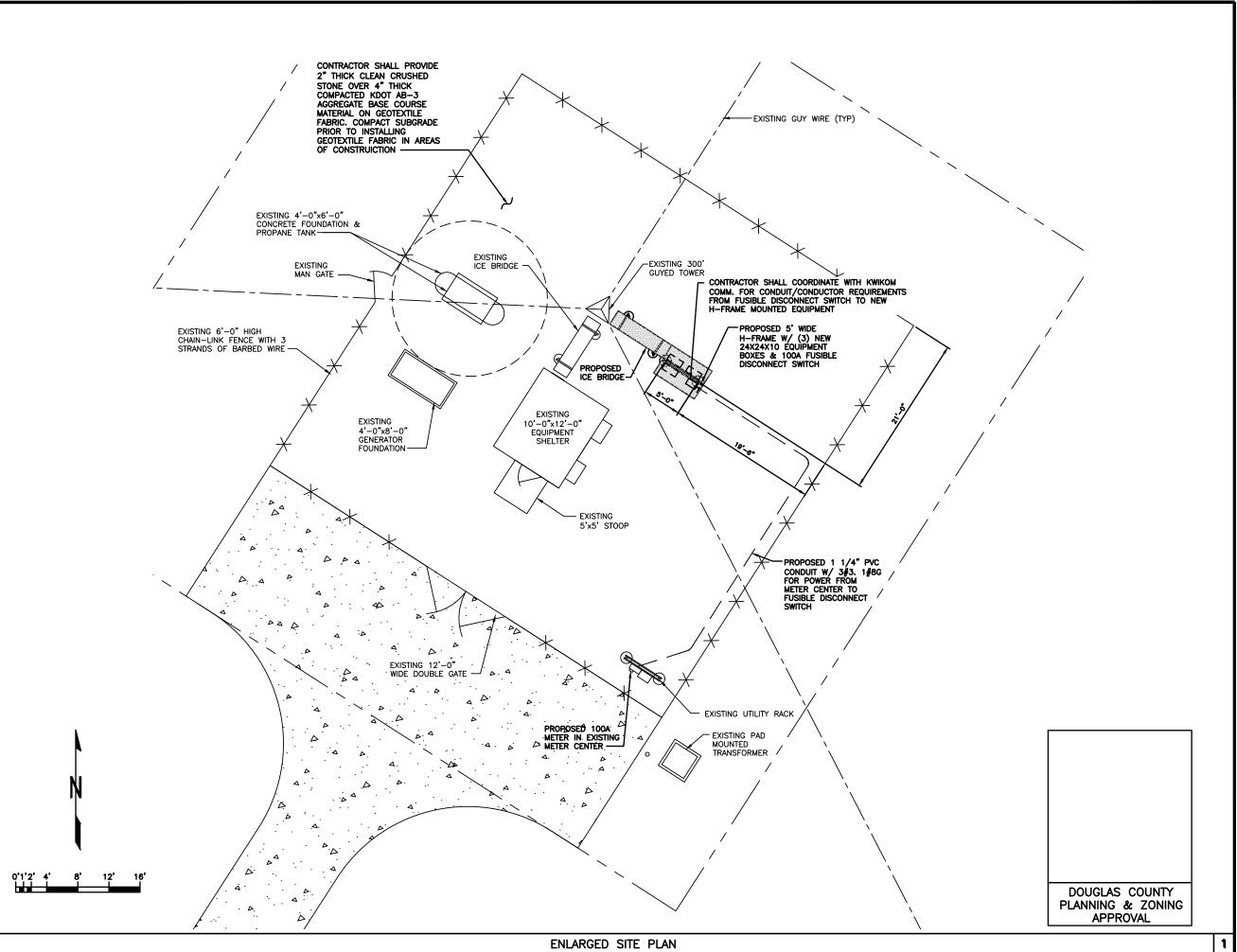
**APPROVALS SIGNER SIGNATURE** DATE KWIKOM COMM. CONSTRUCTION MANAGER KWIKOM COMM. OPERATIONS MANAGER HAYDEN PROJECT MANAGER

ENGINEERING:

DOUGLAS COUNTY PLANNING & ZONING APPROVAL

SHEET DESCRIPTION:





APPLICANT:





2936 NW Highway 24 Topeka, Kansas 66618 Phone: (785) 232-1840 Fax: (785) 232-1877

PLANS PREPARED BY:



ENGINEERING LICENSE:

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER: PE#: DISCIPLINE:

STRUCTURAL/CIVIL SO MLO MICHAEL L. OWENS 16971 KV KEVIN VANMAELE 22105 STRUCTURAL/CIVIL SC

REJ ROBERT E. JENSEN 16096 STRUCTURAL/CIVIL SC NRK NICHOLAS R. KEFELDT 22059 STRUCTURAL/CIVIL SC

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DESCRIPTION	DATE	BY	REV
SITE PLAN APPLICATION	11/20/17	DCP	A
REISSUED SITE PLAN APPLICATION	11/26/17	DCP	В

LECOMPTON RAWLAND

SITE ADDRESS: =

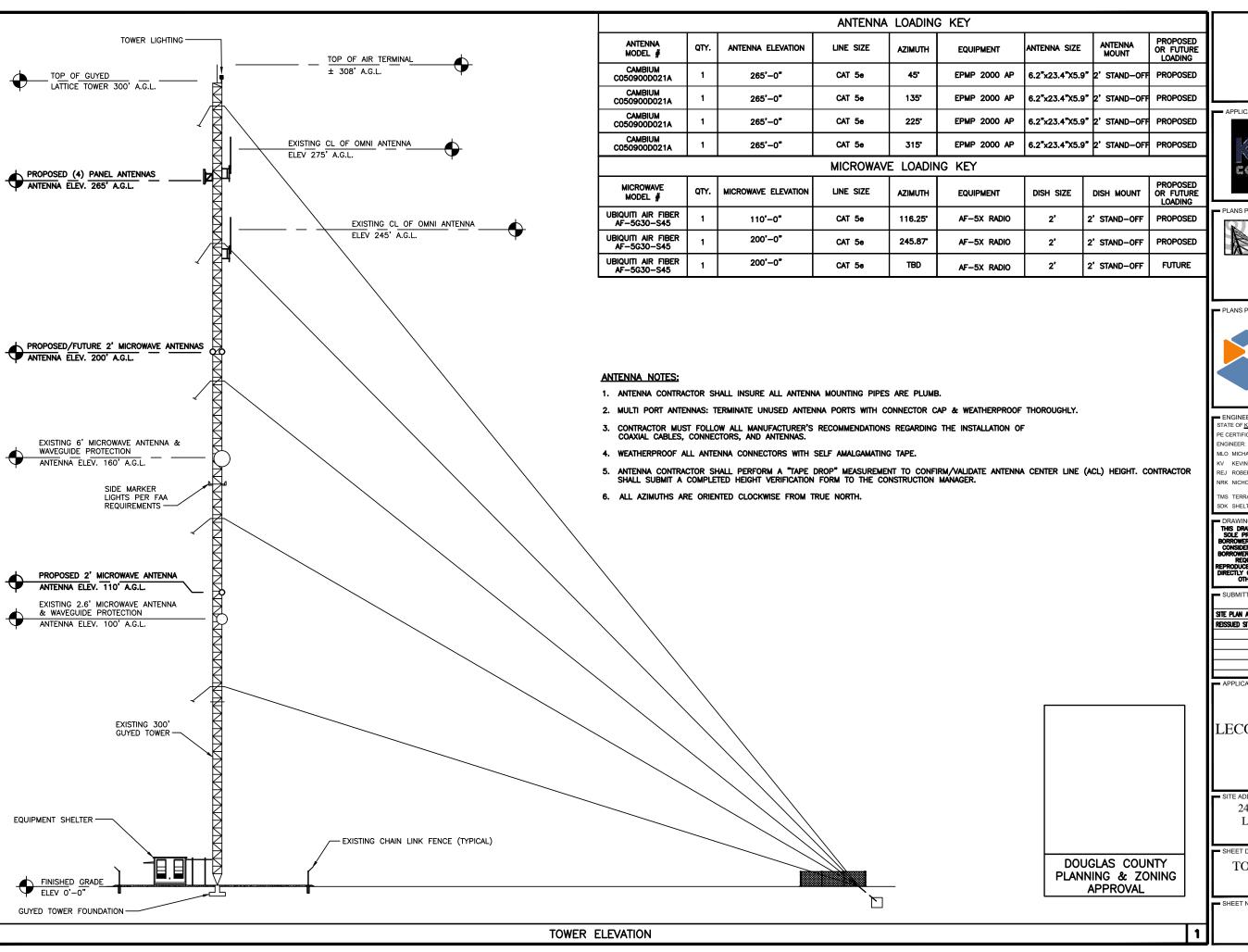
249A NORTH 2100 ROAD LECOMPTON, KANSAS 66050

SHEET DESCRIPTION: •

SITE PLAN

SHEET NUMBER:

A-1.0



APPLICANT:





2936 NW Highway 24 Topeka, Kansas 66618 Phone: (785) 232-1840 Fax: (785) 232-1877

■ PLANS PREPARED BY: ■



ENGINEERING LICENSE:

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION # E-571

PF# DISCIPLINE:

MLO MICHAEL L. OWENS 16971 STRUCTURAL/CIVIL SO KV KEVIN VANMAELE 22105 STRUCTURAL/CIVIL SC

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TMS TERRANCE M SUPER 9250 FLECTRICAL

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SUBMITTALS

DESCRIPTION	DATE	BY	KEV
SITE PLAN APPLICATION	11/20/17	DCP	A
REISSUED SITE PLAN APPLICATION	11/26/17	DCP	В

APPLICANT NAME:

LECOMPTON RAWLAND

249A NORTH 2100 ROAD LECOMPTON, KANSAS 66050

**TOWER ELEVATION &** ANTENNA KEY

SHEET NUMBER: -

A-1.0

## PLANNING COMMISSION REPORT Regular Agenda — Public Hearing Item

PC Staff Report 6/24/13

ITEM NO. 1: CONDITIONAL USE PERMIT; COMMUNICATION TOWER; 249 N 2100 ROAD (SLD)

**CUP-13-00156:** Consider a Conditional Use Permit for a 300' guy wire communication tower to be located at 249 N 2100 Road. Submitted by Selective Site Consultants on behalf of Douglas County Emergency Communication Department for Freda and Sherilyn Laduke, property owners of record. *Joint meeting with Lecompton Planning Commission.* 

**STAFF RECOMMENDATION:** Staff recommends approval of the Conditional Use Permit for the 300' tower and forwarding it to the County Commission subject to the following conditions:

- 1) The provision of a revised site plan that adds the following notes to the face of the drawing:
  - a) "The owner at the owner's expense shall remove any tower not in use for a period of three years or more."
  - b) "A sign shall be posted on the tower or the exterior fence around the base of the tower with the name and telephone number of the tower owner/operator."
  - c) "Use of this tower for carriers other than Douglas County Emergency Communication Department shall require County Commission approval, as the tower owner, in addition to site plan review and approval of any co-location request for new equipment other than that expressly used for Douglas County Emergency Management. Equipment changes or improvements by Douglas County may be approved by site plan amendment per the County Zoning Administrator."
  - d) "A change of ownership of the tower shall require a new Conditional Use Permit and public hearing." This will allow review of the intended use of the tower and public notice of the proposed change.

**Reason for Request:** "To enhance and upgrade Douglas County's emergency communication system to the P25 800 MHz Digital Radio standard."

#### **KEY POINTS**

• Per Section 12-319-4.31 of the Zoning Regulations for the Unincorporated Territory of Douglas County, *radio, television, telecommunication and microwave towers* are uses which may be approved as a Conditional Use.

#### **DESCRIPTION OF USE**

Request is for the construction of a 300' tower to accommodate public communication equipment specifically for Douglas County. The tower is proposed to be constructed on a 100' by 100' leased area.

#### **ASSOCIATED CASES/OTHER ACTION REQUIRED**

- Board of County Commissioners' approval of the Conditional Use.
- Zoning and Codes Office issuance of a Conditional Use Permit when plans have been released to the Zoning and Codes Office and conditions of approval have been met.

#### **PUBLIC COMMENT**

• Area property owners called asking for more detail regarding the location of the proposed tower.

Site Summary: Subject Property: Proposed Buildings:	110.59 acres 300' communication tower, base equipment and generator.
GENERAL INFORMATION	
Current Zoning and Land Use:	A (County-Agricultural) District; 110-acre agricultural field.
Surrounding Zoning and Land Use:	A (County-Agricultural) District in all directions. Agricultural uses and rural residential homes.

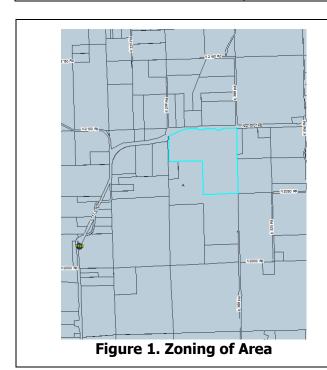




Figure 2. Land Use of Area

#### I. ZONING AND USES OF PROPERTY NEARBY

This property is located in the northwest portion of Douglas County west of Lecompton on the south side of N 2100 Road. The property and the surrounding area is zoned A (Agricultural). This area is rural in nature and includes large tracts of land for agricultural activities with scattered rural residential homes located along county roads. Section 12-319-4.31 (d) (5) recommends that towers be located in commercial, industrial or agricultural zoning districts. The subject property is zoned Agricultural.

**Staff Finding** — Nearby properties are zoned A (Agricultural) and contain agricultural land uses. The proposed tower would be located in a recommended district.

#### II. CHARACTER OF THE AREA

This property is located in the northwest portion of Douglas County. This area is a rural portion of Douglas County. There are no urban growth boundaries that extend to this portion of Douglas County; however, this property is located within 3 miles of the City of Lecompton. The area includes large parcels of land used primarily for agricultural purposes. Residential density in the immediate area is less than ½ a dwelling unit per acre (.017 DU/AC).

**Staff Finding** – This area is rural in nature, with agricultural lands, and scattered residential homes along county roads.

## III. SUITABILITY OF SUBJECT PROPERTY FOR THE USES TO WHICH IT HAS BEEN RESTRICTED

Applicant's response: "The subject property is used for agricultural purposes. The site is suitable for the above proposed use."

The current zoning designation for the property is A (Agricultural) District, a variety of agriculturerelated uses are allowed. Towers are allowed in this district with approval of a Conditional Use Permit. Additionally, the agricultural district is a recommended base district for towers. The proposed request will not alter the underlying zoning district.

**Staff Finding** – The property is suitable for agricultural uses. A Conditional Use Permit (CUP) does not change the underlying zoning; therefore, the suitability of the property for agricultural uses will not be altered.

#### IV. LENGTH OF TIME SUBJECT PROPERTY HAS REMAINED VACANT AS ZONED

This A (Agricultural) zoning has been in place since 1966. The proposed tower will be located on a leased area in the north portion of the 110-acre site. There is an existing tower located to the southeast of the proposed tower.

**Staff Finding** – The property has been zoned A (Agricultural) since the adoption of the zoning in 1966.

## V. EXTENT TO WHICH REMOVAL OF RESTRICTIONS WILL DETRIMENTALLY AFFECT NEARBY PROPERTY

Applicant's Response: "There will be no detrimental affect. The use is unmanned, will generate little traffic, noise or pollution."

Section 12-319-1.01 of the County Zoning Regulations recognize that "....certain uses may be desirable when located in the community, but that these uses may be incompatible with other uses permitted in a district...when found to be in the interest of the public health, safety, morals and general welfare of the community may be permitted, except as otherwise specified in any district from which they are prohibited."

This request is for a 300′ guy-wired communication tower. The purpose of the tower is for the location of emergency communication equipment only. Other communication carriers such as Sprint, AT&T, T-Mobile are not proposed to provide equipment on this tower structure. There is no office or staff associated with this structure. Access to the site shall be limited to regular service and maintenance of the tower and associated equipment. There are few residents located within the immediate area. Land parcels are generally 30 acres or larger. There is an existing 1000′ tower located on this same property. The existing structure is not capable of structurally supporting any additional equipment, therefore, the need for this tower. There are no anticipated detrimental effects to nearby property owners from the proposed land use.

**Staff Finding** – Given the large parcel size and the very low density of residential use there should be no detrimental effect on surrounding property.

VI. RELATIVE GAIN TO THE PUBLIC HEALTH, SAFETY AND WELFARE BY THE DESTRUCTION OF THE VALUE OF THE PETITIONER'S PROPERTY AS COMPARED TO THE HARDSHIP IMPOSED UPON THE INDIVIDUAL LANDOWNERS

Applicant's Response: "Enhanced communication for first responders in Douglas County. Please see attached memo from Scott Ruf dated April 20, 2012."

The purpose of this criterion is to compare the effect of denial of the request on the public health, safety and welfare to the effect on the individual landowner.

The applicant states "the overarching goal of Douglas County Emergency Communications is to provide highly efficient, effective and interoperable public safety communications for City and County Police, fire and EMS agencies...". The applicant is a public service division of the local government. The application notes the existing communication system is aging and that state and federal requirements make it necessary for Douglas County to expand and upgrade the existing system. (Refer to memo to David Corliss, City Manager and Craig Weinaug, County Administrator, dated April 20, 2012).

The purpose of this request is to extend coverage to a portion of Douglas County that currently lacks coverage. Denial of this request hinders the County's ability to implement planned communication improvements as part of the basic public services provided to residents of Douglas County.

**Staff Finding** – Approval of the request will facilitate planned emergency communication coverage for the northwest portion of Douglas County. Approval will benefit the public health, safety, and convenience by providing more reliable communication to emergency personnel as needed.

#### VII. CONFORMANCE WITH THE COMPREHENSIVE PLAN

The subject property is not located within an identified urban growth area though it is within the 3 mile buffer of Lecompton. The comprehensive plan recommends that agricultural uses continue to be the predominant land use within the areas of the county beyond the designated urban growth areas. Uses permitted in the rural area should continue to be limited to those which are compatible with agricultural production and uses.

**Staff Finding** – The comprehensive plan recommends that uses in the rural area be limited to those compatible with agricultural uses and that the design should be consistent with the rural character. A Conditional Use Permit can be used to allow specific non-residential uses subject to approval of a site plan. This tool allows proportional development in harmony with the surrounding area. The proposed request is consistent with the Comprehensive Plan.

#### **STAFF REVIEW**

This new tower is proposed within three miles of the City of Lecompton. A joint meeting with the Lecompton Planning Commission is required per Resolution 80-5.

Section 12-319-4.31 allows radio, television, telecommunication, and microwave towers in Douglas County subject to approval of a Conditional Use Permit when the structures are more than 100' tall. This section also provides guidelines and standards intended to be used during the review of the application.

The proposed site plan shows the location of a new structure to accommodate equipment specific to the purposes of the Douglas County Emergency Communication Department. This application differs from previous similar applications where the applicant intended the structure for telecommunication equipment by private carriers. Prior to the construction of a new tower, an applicant is required to show reasonable proof that there is no opportunity to "co-locate" on another tower within the

proximity of the proposed location. In this case there is an existing 1000' tower immediately to the southeast of the proposed site; however, that structure does not provide adequate structural capability to support additional equipment.

Per section 12-319-4.31 (c)(3) new towers are required to provide space for "at least three two-way antennas for every 150' of tower height, or at least one two-way antenna and one microwave facility for every 150 feet of tower heights." The applicant is requesting a waiver from the colocation provisions of the Zoning Regulations. The structure is designed to accommodate multiple carrier equipment; however, the intent of this tower is to provide space for emergency communication (public) equipment only. There is no intent to sub-lease space on this tower to other carriers. This would allow remaining tower space to be reserved for future equipment intended to serve the public system.

#### **Tower Removal**

As with any tower, if the equipment is removed and the tower is vacant for 3 years then the tower owner (Douglas County) would be required to remove the structure. All towers are required to provide a sign on the structure or fence around the base of the tower identifying the tower owner/operator with a name and phone number. These elements should be added to the site plan as notes for future reference.

#### Setback

The County Zoning Regulations require the tower to be setback a distance equal to the height of the tower from any property line except that the setback may be reduced if documentation from a registered engineer is submitted certifying the fall zone of the tower in event of a failure or collapse. The proposed structure and accessory ground equipment complies with the setback requirements and is more than 300' from the nearest property line.

#### Lighting

Minimal lighting per FAA requirements will be provided for this tower. Lighting of the equipment shelter should be limited to the area around the access doorway. Any lighting added to the site shall require review and approval by the County Zoning Administrator per applicable building permits to ensure lighting is limited to the site and directed downward.

Use of this tower for other carriers shall require County Commission approval as the tower owner. Change of ownership of the tower shall require a new Conditional Use Permit and public hearing. This will allow review of the intended use of the tower and public notice of the proposed change.

#### Conclusion

This request is for the construction of a new communication tower for the exclusive use of public communication equipment. Additional site plan notes are recommended to clarify the use and intent of this tower. Staff recommends approval of the Conditional Use Permit for a 300' tower located at 249 N 2100 Road (CUP-13-00156) as conditioned.

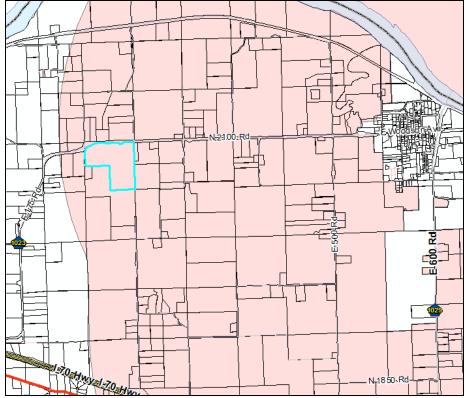


Figure 3: 3 mile buffer area

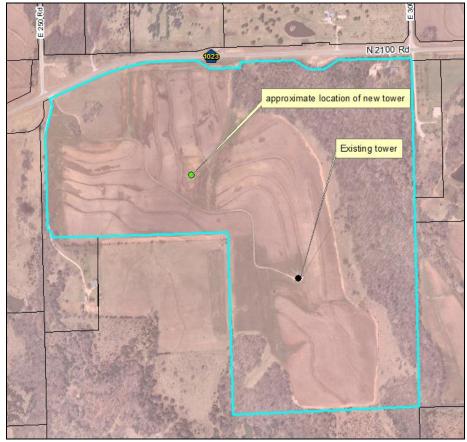


Figure 4: Existing and proposed tower locations

# Memorandum City of Lawrence Planning & Development Services

TO: Craig Weinaug, County Administrator

Scott McCullough, Planning and Development Services Director

Sean Reid, Director, Zoning and Codes Department Tonya Voigt, County Zoning and Codes Department Judy Stone, County Zoning and Codes Department

Randy Roberts, Douglas County Emergency Communications

FROM: Sandra Day, Planner

CC: Douglas County Board of County Commissioners

David Blaha, Hyden tower/HPB Properties LLC.

**File** 

Date: December 14, 2017

Updated on December 20, 2017

RE: SP-17-00670; 249 N 2100 Road; KwiKom

**Staff Recommendation:** Planning staff recommends approval of the above referenced site plan subject to the following conditions:

1. Provision of a note on the face of the site plan that sates all equipment and electrical connections must be separate from and independent of the Douglas County Emergency Communication's building, equipment and power connections.

This memo has been revised to respond to questions for clarification from County staff to provide assurance that the proposed equipment will not be co-located with the existing building housing Douglas County equipment and that it will have a power source independent of the power to the County building.

#### **ATTACHMENTS**

- 1. General Location Map
- 2. Property Area Map
- 3. Proposed site plan
- 4. Staff report CUP-13-00156

#### **SUMMARY**

The Board of County Commissioners at their meeting on July 10, 2013 approved the existing tower located at 249 N 2100 Road. The Commission approved a Conditional Use Permit (CUP-13-00156) for the purposes of constructing a 300' communication tower for Douglas County emergency communication equipment. Douglas County was the applicant. The tower design will accommodate space for multiple carriers. The purpose of the application was specifically for the exclusive use of the tower for Douglas County equipment. At the time of the approval, there was no intent to sub-lease

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space on the tower. There was a recognition that an unknown user could come forward and make a request for tenant space on the tower. In order to preserve the County's use of the structure for future needs the CUP was approved with the following condition:

Use of this tower for carriers other than Douglas County Emergency Communication Department shall require County Commission approval, as the tower owner, in addition to site plan review and approval of any co-location request for new equipment other than that expressly used for Douglas County Emergency Management. Equipment changes or improvements by Douglas County may be approved by site plan amendment per the County Zoning Administrator. "

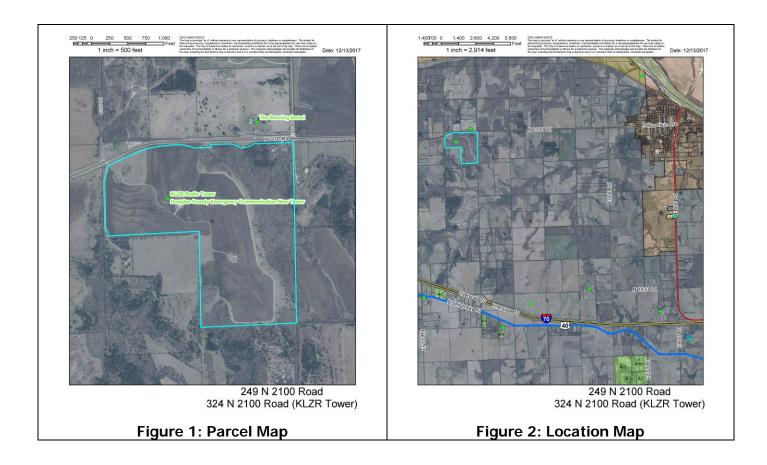
The reference to Emergency Management was incorrect in the original report and should have been "Douglas County Emergency Communications", which is a separate department from DC Emergency Management.

After approval for the tower was granted, the tower was constructed but is not owned by Douglas County as originally planned and noted in the application documentation. Douglas County is a tenant on the tower. The tower owner is pursuing a request to allow co-location of equipment for KwiKom on this tower. Per the conditions of approval, any co-location on this tower first requires specific approval by the County Commission.

Typically, co-location of communication equipment on communication towers, water towers or building mounted applications are reviewed administratively through the Planning Office. Building permits are issued through the Zoning and Codes Office. This application deviates from that process because of the condition placed on the original Conditional Use Permit.

Zoning and Land Use:	
Subject Property Zoning:	A (Agricultural) District. Existing rural agricultural district with two tower structures.
Surrounding Zoning:	A (Agricultural) District in all directions. Existing rural agricultural uses including scattered residences.

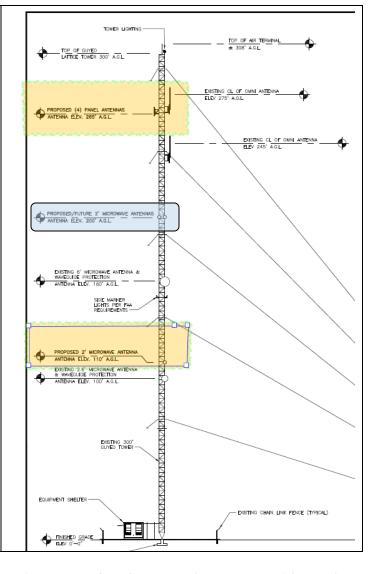
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Existing Development: This site includes two tower structures accessed from the same driveway. A rural residence is located in the northeast corner of 109-acre tract. The tower compound includes an existing equipment shelter building and a generator pad.

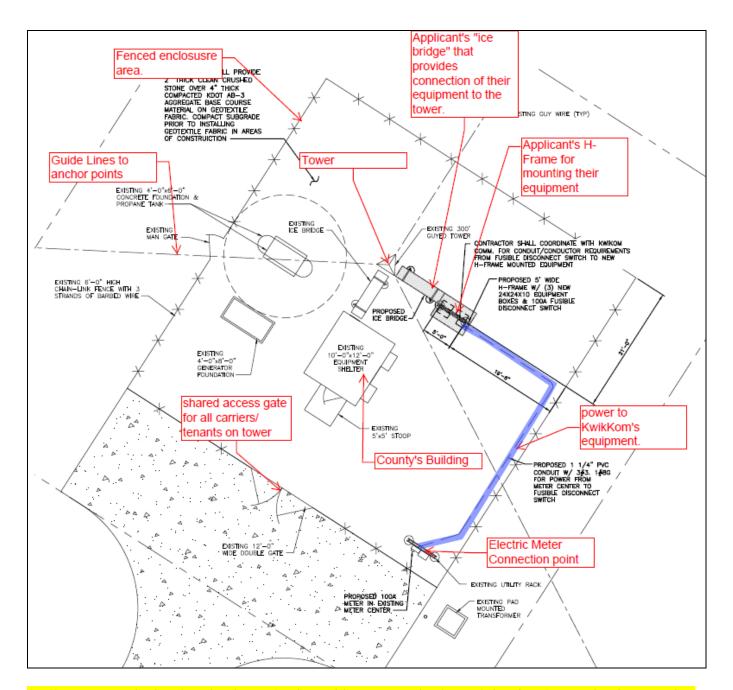
Proposed Development: The proposed changes to the tower include the addition of equipment located at the ground level within the existing enclosure. This ground equipment is required in connection with the proposed antenna that will be co-located on the tower structure as shown on the attached site plan. The proposed plans show four proposed panel antennas located 265' above ground level and a 2' microwave antenna located at 110' above ground level (highlighted in gold in image to the right).

This plan also shows equipment, located 200' above ground level, as a future addition (highlighted in blue in image to the right).



By state law, emergency communication equipment is protected and cannot share space with another carrier. For this reason, the original design included an equipment shelter to fully enclose County equipment within the fenced enclosure area at the base of the tower. The proposed application includes the construction of a frame located within the fenced enclosure area at the base of the tower that provides space for mounting the applicant's equipment separate from the existing equipment within the fenced enclosure area. The plan also shows the existing electric meter panel, also located in the fenced enclosure area that will be modified to allow for power to be extended to the applicant's equipment. The image below is intended to highlight these details for clarification.

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Staff recommends the site plan be revised to add a note to the face of the drawing to clearly state that the proposed equipment shall be independently located and will not shower power through the County building or equipment.

SP-17-00670	DOCUMENTATION	
	Site Evaluation	
249 N 2100 Road		G
	Approval, with restrictions.  tower to the southeast on same parce	el.

Additional Regulatory Site Requirements	RESPONSE (Check one of the following)		
Airport Overlay District	□ YES	✓ NO	
If Yes, determination of Airport Advisory Board may be required			
Is property located Regulatory Flood Plain?	□ YES	✓ NO	
If Yes, A separate Flood Plain Development Permit may be required.			
Is City infrastructure used for co-location request?	□ YES	✓ NO	
Has Structural Analysis been completed and approved for City infrastructure? <b>Not applicable to this request.</b>	□ YES	□ NO	
Is property subject to Historic Environs Review (HRC)	□ YES	✓ NO	
If Yes describe			
Is tower height modified by this application?	□ YES	✓ NO	
Is tower enclosure or setback modified by this application?	□ YES	✓ NO	

### Conclusion

The proposed equipment modifications do not alter the tower height or enclosure of the existing tower. Improvements at the ground level include the addition of a frame for mounting equipment and cables that connect to antenna mounted on the tower.

This application represents the first request for co-location of communication equipment on this structure in addition to the existing Emergency Communication Department equipment originally installed on this tower. Douglas County Emergency *Communication* Department staff reviewed this application and did not have any comments. The proposed request is not anticipated to conflict with existing equipment currently located on the tower.

The proposed request is consistent with similar applications for co-location of communication equipment on other structures located in Douglas County and is supported by staff.

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