Planning Commission

b. Public hearing to consider a request for a conditional use permit for a communication tower in a C-2, commercial services district at 1101 E. Main Street.

Summary

We have received a request for a conditional use permit for a communication tower in a C-2, commercial services district at 1101 E. Main Street.

Appendix "A" of the Zoning Ordinance allows communication towers as a conditional use in the A-1, C-2, C-4 and M-2 districts. The property at 1101 E. Main Street is zoned C-2.

Conditional Use Permit

The zoning ordinance in section 901.1 (page 87) describes the purpose of a conditional use as:

> *"...those types of uses which are considered by the City to be essentially desirable, necessary or convenient to the community but which by their nature or in their operation have:*
>
> *1) a tendency to generate excessive traffic,*
> *2) a potential for attracting a large number of persons to the area of the use thus creating noise or other pollutants,*
> *3) a detrimental effect on the value of potential development of other properties in the neighborhood, or*
> *4) an extraordinary potential for accidents or danger to the public health or safety.*
>
> *Such conditional uses cannot be allowed to locate as a 'right' on any parcel of land within certain districts without consideration of existing conditions at the proposed locations and of properties neighboring the specific site considered, nor without adequate and sufficient safeguards, when necessary, to lessen the impact of adverse effects."*

Staff Report

The Planning Commission has the authority to place additional conditions on the site that they deem necessary to protect the best interests of the City, the surrounding property and to achieve the objectives of the ordinance.

In considering those types of uses which may be desirable, necessary or convenient to the community, the Commission should review and make recommendations based in part on 901.1.

Additionally, the decision of the Planning Commission to recommend approval or denial of the proposed conditional use shall be based on the following criteria (902.2):

a. *The proposed conditional use complies with all applicable provisions of these regulations, including intensity of use regulations, yard regulations and use limitation.*
b. *The proposed conditional use at the specified location will contribute to and promote the welfare or convenience of the public.*
c. *The proposed conditional use will not cause substantial injury to the value of other property in the neighborhood in which it is to be located.*
d. *The location and size of the conditional use, the nature and intensity of the operation involved in or conducted in connection with it, and the location of the site with respect to streets giving access to it are such that the conditional use will not dominate the immediate use of the neighboring property in accordance with the applicable zoning district regulations. In determining whether the conditional use will so dominate the immediate neighborhood, consideration shall be given to:*
    1. *The location, nature and height of buildings, structures, walls and fences on the site, and*
    2. *The nature and extent of landscaping and screening on the site.*
e. *Off-street parking and loading areas will be provided in accordance with the standards set forth in these regulations (article VII).*
f. *Adequate utility, drainage, and other such necessary facilities have been or will be provided.*
g. *Adequate access roads or entrance and exit drives will be provided and shall be so designed to prevent traffic hazards and to minimize traffic congestion in public streets and alleys.*

Action by the Planning Commission

Any recommendations regarding a conditional use permit for the subject property shall be based on Section 902.2 previously outlined in this report. After considering any public comments the Planning Commission may either approve or deny the request. If the request is approved the applicant must be required to meet the conditions the Planning Commission wishes to require. Following your action, the application and your recommendation will be forwarded to the City

Commission at which time they will have 30 days to adopt, modify or deny the Planning Commission's recommendation.

Staff Recommendation

City staff recommends granting the conditional use permit with the following conditions:

1. The conditional use permit is not transferable to another location.
2. The conditional use permit shall be reviewed periodically for compliance.
3. The antennas shall receive all required local, state and federal permits prior to installation.
4. Installation, maintenance and use of the antennas shall be in compliance with all local, state and federal laws and regulations.
5. The communication antennas shall be required to meet the requirements listed in Section 1014.0 Communication antenna or communication towers of Article X. Special Provisions Applying to Miscellaneous Conditional Uses in Appendix B. Zoning of the Independence, Kansas, Code of Ordinances.

If any of the above conditions are not met the conditional use permit will no longer be valid.

The basis of staff's recommendation is that granting the conditional use permits is consistent with criteria “a through g” of Section 902.2 of the zoning code.

City of Independence, Kansas

NOTICE TO THE PUBLIC

The Independence, Kansas, Planning Commission will conduct a public hearing on:

Tuesday, May 5, 2020 at 5:30 p.m.

To receive comments on a request for a conditional use permit for a communication tower in a C-2, commercial services district at 1101 E. Main Street.

Legal Description:
INDEPENDENCE CITY UNPLATTED, BG 784.5' S NW COR NW E 392.1' S 475.2' W 392.1' N TO POB; LESS R/W, SECTION 32 TOWNSHIP 32 RANGE 16.

Common Addresses:
1101 E Main Street

Applicant/Owners:
Evergy C/O Selective Site Consultants

Case Number:
2020/CUP/04

The hearing will be conducted in the Civic Center, Memorial Hall, Penn/Locust, Independence, Kansas, and will begin at 5:30 p.m. However, due to the Governor's executive order limiting gathering to less than 10 individuals, participation is encouraged via conference call: +1 785-289-4727 Conference ID: 886 362 748#

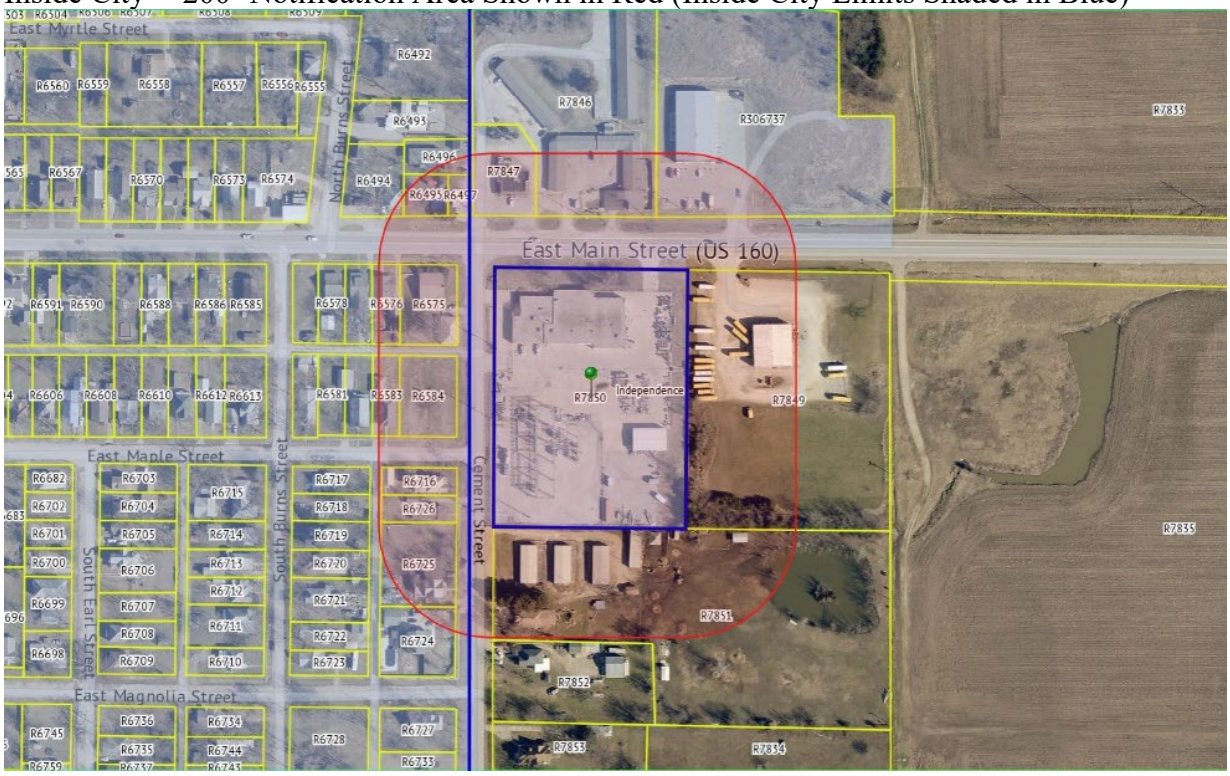
All interested persons should participate in the meeting via conference and they will be heard. Persons wishing to comment, but who cannot attend this hearing, should provide their written comments to:

Kelly Passauer
Zoning Administrator
811 W. Laurel Street
Independence, KS 67301
(620) 332-2506

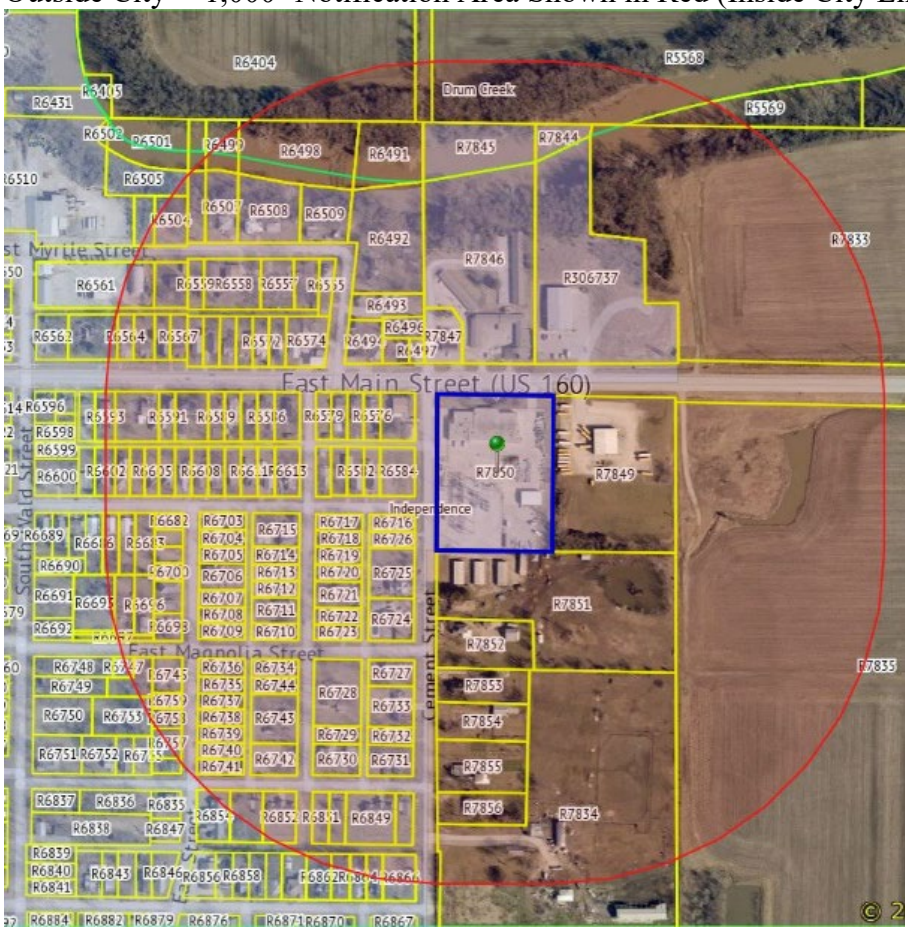
Information regarding this application is available in the Zoning Administrator's office. If special accommodation is required, please inform the Zoning Administrator.

Kelly Passauer, Zoning Administrator

Inside City -- 200’ Notification Area Shown in Red (Inside City Limits Shaded in Blue)



Outside City -- 1,000’ Notification Area Shown in Red (Inside City Limits Shaded in Blue)



Print Form

APPLICATION FOR CONDITIONAL USE PERMIT
PLANNING AND ZONING COMMISSION

DATE FILED _____
$200 FEE PAID_____

NAME AND ADDRESS OF PERSON MAKING APPLICATION:
Evergy C/O Selective Site Consultants - 7171 W 95th St Suite 600, Overland Park, KS 66212

LEGAL DESCRIPTION OF LAND INVOLVED:
INDEP CITY UNPLATTED , BG 784.5' S NW COR NW E 392.1' S 475.2' W 392.1' N TO POB; LESS R/W SECTION 32 TOWNSHIP 32 RANGE 16.

COMMON ADDRESS OF SAID LAND:
1101 E MAIN ST, Independence, KS 67301.

PRESENT ZONING CLASSIFICATION: C-2

STATEMENT OF INTENDED USE OF PROPERTY:
Replacement of existing communications tower with a new 100' tall monopole

DESCRIPTION OF ARCHITECTURE & EXTERIOR MATERIAL TO BE USED:
Monopole style tower with bollards. All equipment will be housed within the existing building on-site with cables extending from the tower to the building.

On the reverse side, please provide the following information: (1) Site Plan, drawn at appropriate scale, showing existing and proposed building location, parking areas, interior drives, and location and type of outdoor lighting; (2) Existing and proposed topography, drawn at appropriate contour intervals as specified by the Zoning Administrator; (3) Location of, and proposed connections to, existing water supply and sanitary sewage system; (4) North point, scale and date; (5) Names of landowner, developer and firm preparing the plan.

4/6/2020 — Date

Leslie C Stutler — Signature of Applicant

I hereby certify that I have personally verified the dimensions as shown on the attached drawing and find them to be a correct representation of the conditions.

_____ Date

_____ Signature of Building Inspector

Action of Planning and Zoning Commission:

_____
(Approved, Denied --- Date)

Comments:

_____

_____

_____
Chairman

_____
Vice Chairman

_____
Secretary

CITY OF INDEPENDENCE

REC#: 01083064 4/09/2020 2:40 PM
OPER: DONNA TERM: 002
REF#:

ACCT #: XXXX-XXXX-XXXX-2776
AUTH #: 057164
TRAN #: 000000004617
TYPE: PURC-ASE

TRAN: 1.3000 VARIANCE
EVERGY-CELL PHONE TOWER
COND USE PERMIT
MISC FEES 200.00CR

TENDERED: 200.00 CREDIT CARD
APPLIED: 200.00-

CHANGE: 0.00

APPLICANT SITE NAME:

EVERGY SERVICE CENTER

PROJECT:

NEW SITE BUILD

DRAWING DESCRIPTION:

ZONING DRAWINGS

AERIAL MAP

SITE INFORMATION

SITE ADDRESS: 1101 EAST MAIN ST
INDEPENDENCE, KS 67301

COUNTY: MONTGOMERY

PROPERTY OWNER: EVERGY
1101 EAST MAIN ST
INDEPENDENCE, KS 67301

TOWER INFORMATION:

LATITUDE:	37° 13' 21.70" N (NAD 83)
LONGITUDE:	95° 41' 31.06" W (NAD 83)
GROUND ELEV:	774'-0" AMSL
TOWER HEIGHT:	100'-0" AGL
TOWER TYPE:	MONOPOLE
APPLICANT CL:	100'-0" AGL

APPLICANT: EVERGY
122 SW 2ND STREET
TOPEKA, KS 66603

CLIENT: HAYDEN TOWER SERVICE, INC.
2836 NW HIGHWAY 24
TOPEKA, KS 66618
PHONE: (785) 232-1840
FAX: (785) 232-1877

CONSULTING TEAM

ENGINEERING:

SSC, INC.
7171 WEST 95TH STREET, SUITE 600
OVERLAND PARK, KANSAS 66212
PHONE: (913) 438-7700
FAX: (913) 438-7777

CLIENT MANAGER:
R.E. JENSEN

A&E PROJECT MANAGER:
R.E. SOUTHERN

LEAD ENGINEER:
N.R. KUFELDT

LEAD ELECTRICAL:
S.D. KEISLING

DRAWING INDEX

SHEET NO.	SHEET TITLE	DISC.
T-1.0	TITLE SHEET	C
	SURVEY	
A-1.0	SITE PLAN	C
A-1.1	TOWER ELEVATION	C

JURISDICTION COMPLIANCE

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.

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

811 Know what's below. Call before you dig. www.call811.com

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.

STAMP:

ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION #E-
ENGINEER: PE- LINE:

NRK	NICHOLAS R. KUF		CIVIL	C
KMV	KEVIN M. VAN		CIVIL	C
REJ	ROBERT	76096	CIVIL	C
SDK	S. KEISLING	13654	ELECTRICAL	E
TMS	TER M. SUPER	9250	ELECTRICAL	E

PRELIMINARY ISSUE

APPLICANT:

OEM:

PLANS PREPARED FOR: Hayden TOWER SERVICE, INC.

PLANS PREPARED BY: SSC

DRAWING NOTICE:
THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF SSC, INC. AND IS LENT TO THE BORROWER FOR THEIR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.

SUBMITTALS:

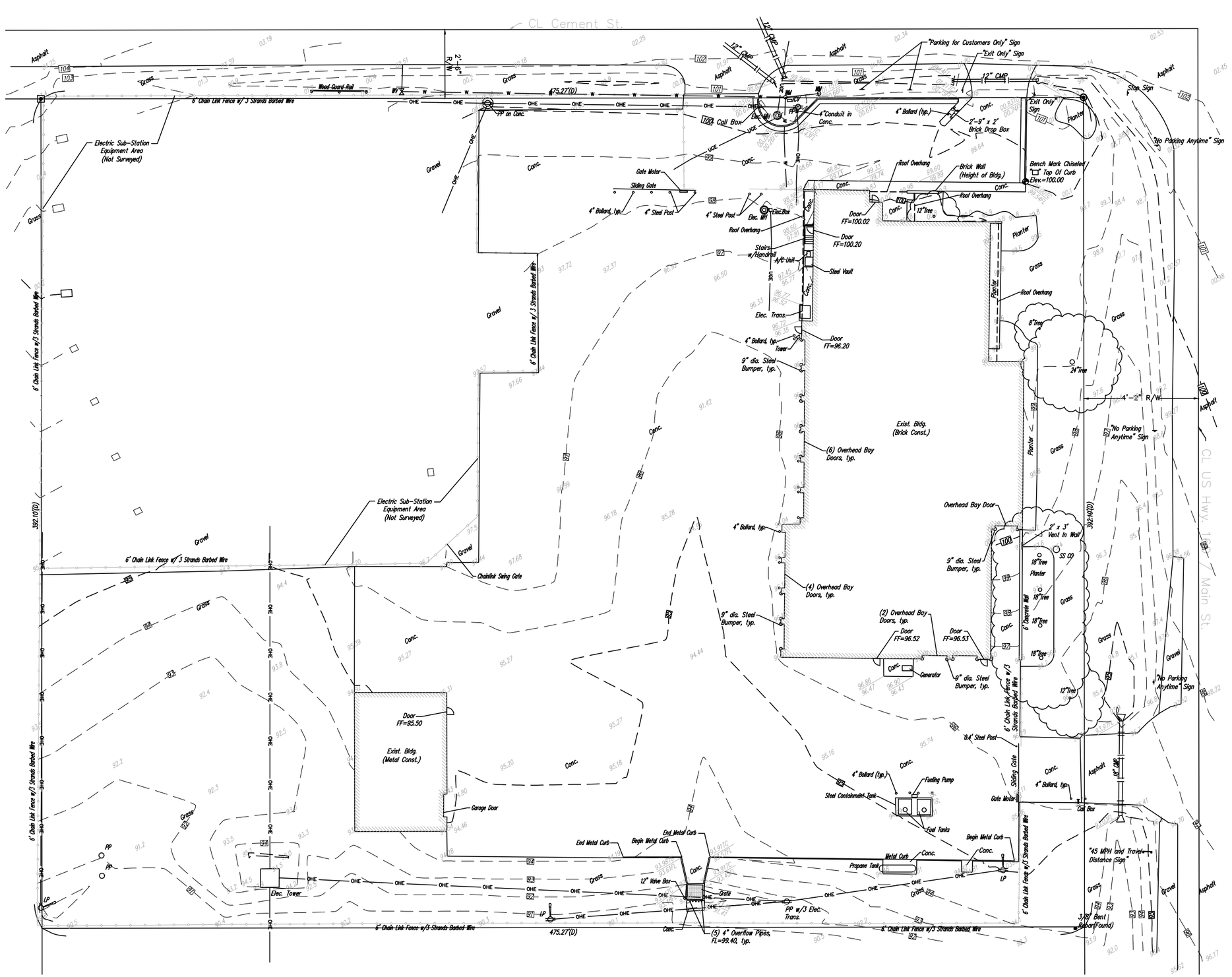
DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	03/09/20	DDS	A
ISSUED FOR REVIEW	03/19/20	DDS	B

APPLICANT SITE NAME:
EVERGY SERVICE CENTER

SITE ADDRESS:
1101 EAST MAIN ST
INDEPENDENCE, KS 67301

SHEET DESCRIPTION: TITLE SHEET

SHEET #: T-1.0



NORTH

FEET
0 10 20 40 50
GRAPHIC SCALE FOR 1" = 20'

LEGEND:

- = 1/2" Rebar (Found)
- = 5/8" Rebar w/cap "PLS 1089"
- (D) = Deeded Property Dimension
- 99.9 = Un-paved Spot Elevations
- 99.99 = Paved Spot Elevations
- 99.99EA = Edge of Asphalt Spot Elevations
- 99.99TC = Top of Curb Spot Elevations
- 99.99FL = Flow Line Spot Elevations
- WV = Water Valve
- WM = Water Meter
- ICV = Irrigation Control Valve
- MH = Electric Manhole
- PP = Power Pole
- LP = Light Pole
- SS CO = Sanitary Sewer Clean Out
- GM = Gas Meter
- OHE = Over Head Electric Line
- UGE = Underground Electric Line
- W = Water Line
- G = Gas Line
- T = Underground Telephone Line
- = Chainlink Fence

HORIZONTAL CONTROL DATA:

HCP NO. 104 – 1/2" Rebar (no cap) in the Northwest corner of property, approx. 54' west, and 41' north of the north west building corner.
N.=4975.015, E.=4997.180

HCP NO. 251 –1/2" Rebar w/Plastic Cap, PLS 1089, in the Southwest corner of property, approx. 1' east, and 1.3' south of the Southwest corner of chain link fence corner.
N.=4519.745, E.=4997.846

BENCHMARK:

Temporary Benchmark (Set) – Square cut in the top of curb on the north side of the northwest driveway, approx. 18' west, and 15' north of the Northwest building corner.
Assumed Elev.=100.00

SPECIAL NOTES:

1. The boundary information shown hereon is a graphical representation only, according to "Certificate of Title" order No. 1129055, dated September 22, 2009, issued by First American Title.

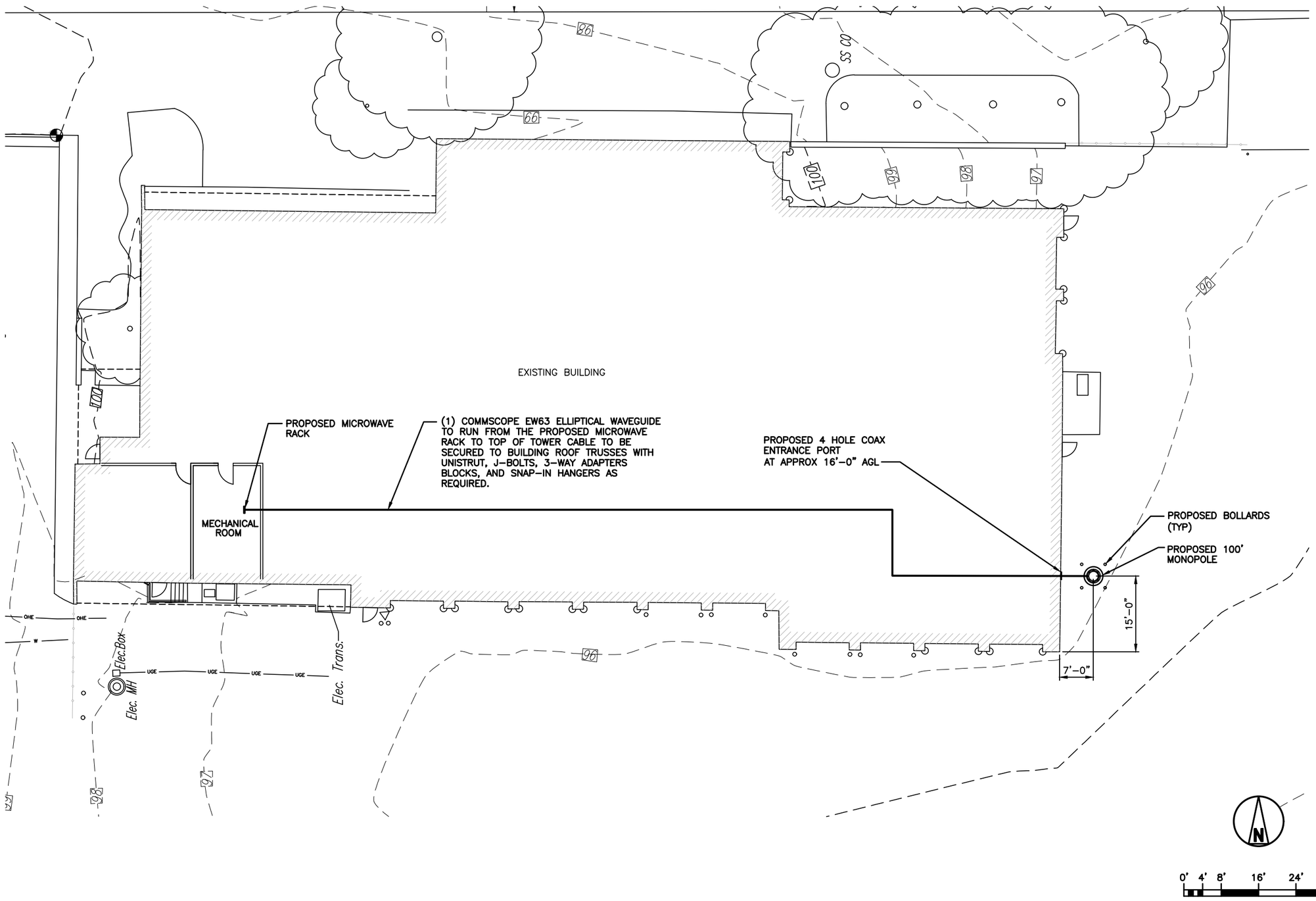
YOUNG & ASSOCIATES, P.A.
Professional Civil Engineering Consultants
100 S. Georgie, Derby, KS 67037
tele: (316)788-2552 fax: (316)788-4408 email: engineering@ynpa.com

WESTAR INDEPENDENCE

1101 E. Main Street
City of Independence
Montgomery County, Kansas

scale: as noted	
drawn by: dsb	
date: 10/26/10	
P/N: 10-298	
revisions:	
△	
△	
△	
△	
△	
△	

Sheet No.
1 of 1



SITE PLAN

3/32" = 1'-0" (22"x34")
3/64" = 1'-0" (11"x17")

1

STAMP:

ENGINEERING LICENSE:

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION #E-

ENGINEER: PE LINE:

NRK	NICHOLAS R. KUE		CIVIL	C
KMV	KEVIN M. VAN	5	CIVIL	C
REJ	ROBERT	76096	CIVIL	C
SDK	S	SLING 13654	ELECTRICAL	E
TMS	TER	M. SUPER 9250	ELECTRICAL	E

PRELIMINARY ISSUE

APPLICANT:

evergy

OEM:

PLANS PREPARED FOR:

Hayden TOWER SERVICE, INC.

PLANS PREPARED BY:

SSC

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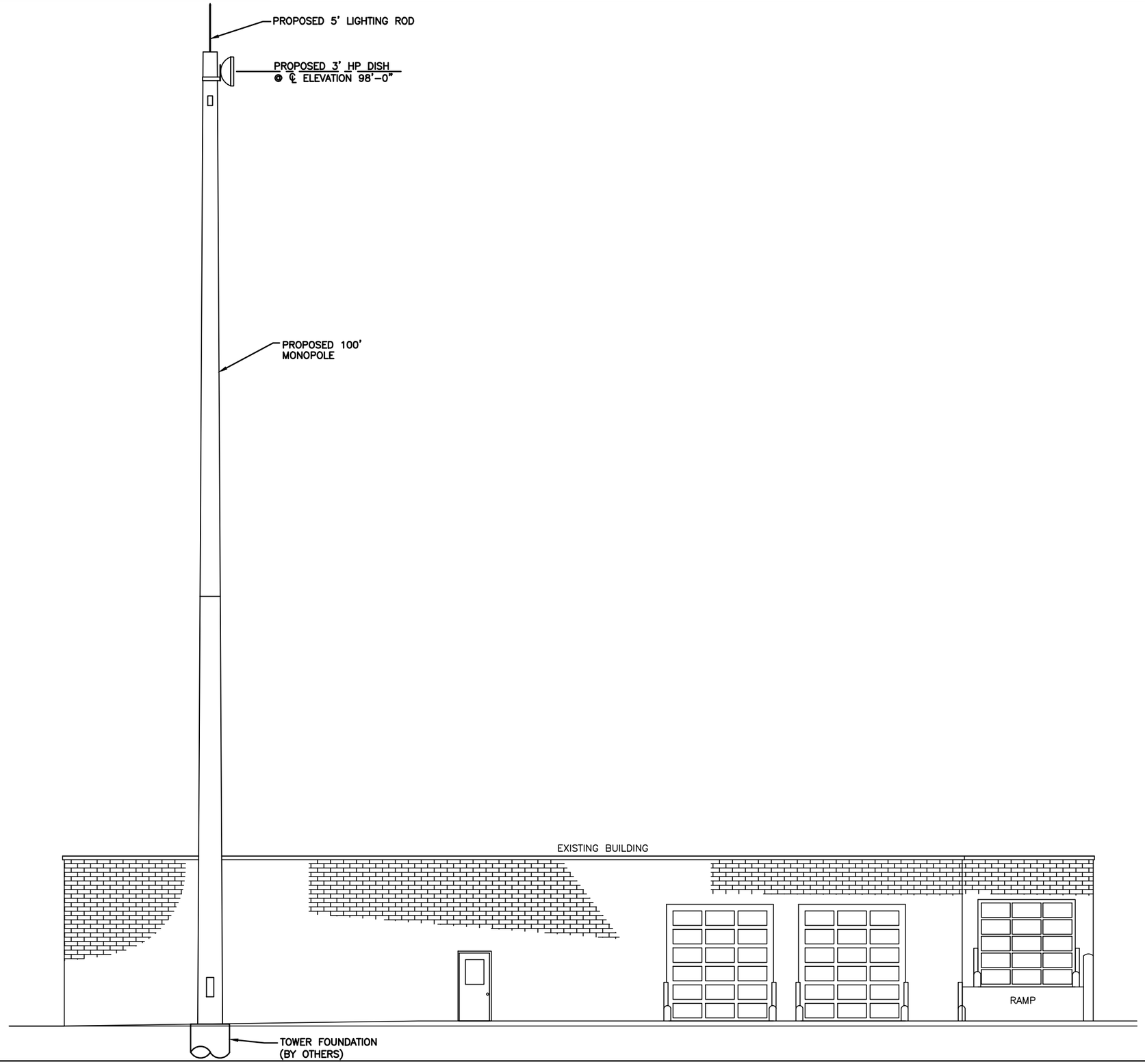
EVERGY SERVICE CENTER

SITE ADDRESS:

1101 EAST MAIN ST
INDEPENDENCE, KS 67301

SHEET DESCRIPTION: SITE PLAN

SHEET #: A-1.0



TOWER ELEVATION

3/16" = 1'-0" (22"x34")
3/32" = 1'-0" (11"x17")

1

STAMP:

ENGINEERING LICENSE:

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION #E-

ENGINEER:		PE	DISCIPLINE:	
NRK	NICHOLAS R. KUE		CIVIL	C
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EVERGY SERVICE CENTER

SITE ADDRESS:

1101 EAST MAIN ST
INDEPENDENCE, KS 67301

SHEET DESCRIPTION:

TOWER ELEVATION

SHEET #:

A-1.1

Site / Frequency / Market Search Results

Table Of Contents

Site / Frequency / Market Search Results

Search Criteria: State = KS, County = MONTGOMERY, Frequency Range = 23 KHz through 72 GHz, Computed Box Based on Point/Radius: Center = 37° 13' 21.7" N 95° 41' 31.1" W, Radius = 3 Miles, Currently Licensed and Pending Facilities

International Bureau Filing System Database

Callsign:	File Number:	Applicant:	FRN:	Grant Date:	Expiration:	Status:
E860242	SESRWL2006012400150	Associated Press	0003482668	01/27/2006	03/28/2021	ATPN Sub-System: SES

Site:	City:	State:	County:	Coordinates:	Distance from Center:
1	INDEPENDENCE	KS	MONTGOMERY	37° 13' 34" N, 95° 42' 17" W	0.7 Mile Azimuth from Center: 288.6°

Frequency: 00003700.00000000-00004200.00000000

Callsign:	File Number:	Applicant:	FRN:	Grant Date:	Expiration:	Status:
KN82	SESRWL2012021300168	Cable One, Inc.	0003474327	02/16/2012	03/05/2027	ATPN Sub-System: SES

Site:	City:	State:	County:	Coordinates:	Distance from Center:
1	INDEPENDENCE	KS	MONTGOMERY	37° 13' 15" N, 95° 43' 47" W	2.1 Miles Azimuth from Center: 266.5°

Frequency: 00003700.00000000-00004200.00000000

International Bureau Filing System Files: 2

Universal Licensing System Database - Sites

Callsign:	Licensee:	Radio Service:	City:	Status:	Grant Date:	Expiration:
WPBJ348	AMOCO PIPELINE COMPANY	Other Indust/Land Transp, 896-901/935-940 MHz, Conv. (GI)	College Station, TX	Active	11/01/2012	01/04/2023

Site:	Address:	City:	County:	Coordinates:	Distance from Center:
1	25TH AND MAPLE ST	INDEPENDENCE, KS	MONTGOMERY	37° 13' 15.2" N, 95° 43' 47.9" W	2.1 Miles Azimuth from Center: 266.6°

Frequency: 939.90000000

Site:	Area of Operation:		County:		Distance from Center:
2			MONTGOMERY		2.1 Miles

	KMRA around a Fixed Location	**City:** INDEPENDENCE, KS		**Coordinates:** 37° 13' 15.2" N, 95° 43' 47.9" W	**Azimuth from Center:** 266.6°

Frequency: 900.90000000 939.90000000

Callsign: WPQG731	**Licensee:** Consolidated Oil Well Services, LLC	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** CHANUTE, KS	**Status:** Active	**Grant Date:** 05/14/2015	**Expiration:** 07/11/2025

Site: 5	**Address:** 2500 WEST LAURAL RD.	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 30.2" N, 95° 42' 32.9" W	**Distance from Center:** 1.0 Mile **Azimuth from Center:** 279.8°

Frequency: 451.85000000

Callsign: WQOK847	**Licensee:** Conterra Ultra Broadband LLC	**Radio Service:** Common Carrier Fixed Point to Point Microwave (CF)	**City:** Charlotte, NC	**Status:** Active	**Grant Date:** 11/01/2011	**Expiration:** 11/01/2021

Site: 1	**Name:** JEFFERSON ES	**Address:** 2101 N 13th St	**City:** Jefferson, KS	**County:** MONTGOMERY	**Coordinates:** 37° 14' 47.1" N, 95° 42' 58.7" W	**Distance from Center:** 2.1 Miles **Azimuth from Center:** 320.8°

Frequency: 23085.00000000 V

Callsign: WQQC973	**Licensee:** DURHAM SCHOOL SERVICES	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** WARRENVILLE, IL	**Status:** Active	**Grant Date:** 11/03/2012	**Expiration:** 11/03/2022

Site: 1	**Address:** 1125 E MAIN ST	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 24.2" N, 95° 41' 34.5" W	**Distance from Center:** 0.1 Mile **Azimuth from Center:** 312.7°

Frequency: 159.82500000

Site: 2	**Area of Operation:** KMRA around a Fixed Location	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 24.2" N, 95° 41' 34.5" W	**Distance from Center:** 0.1 Mile **Azimuth from Center:** 312.7°

Frequency: 159.82500000

Callsign: WPLS480	**Licensee:** HACKNEY & SONS INC.	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 12/13/2012	**Expiration:** 01/09/2023

Site: 1	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 30.2" N, 95° 44' 40.9" W	**Distance from Center:** 2.9 Miles **Azimuth from Center:** 273.2°

Frequency: 462.38750000 462.43750000 467.30000000 467.38750000 467.43750000

Site: 5	**Address:** 300 HACKNEY AVE	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 38.3" N, 95° 44' 8.6" W	**Distance from Center:** 2.4 Miles

					Azimuth from Center: 277.6°

Frequency: 463.51250000

Site: 6	**Area of Operation:** KMRA around a Fixed Location	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 38.3" N, 95° 44' 8.6" W	**Distance from Center:** 2.4 Miles **Azimuth from Center:** 277.6°

Frequency: 463.51250000 468.51250000

Callsign: KSV562	**Licensee:** INDEPENDENCE READY MIX INC	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 06/08/2012	**Expiration:** 07/06/2022

Site: 2	**Address:** 10TH 920 NORTH ST	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 14' 25.2" N, 95° 44' 30.9" W	**Distance from Center:** 3.0 Miles* **Azimuth from Center:** 293.9°

Frequency: 153.02000000

Callsign: WQMH200	**Licensee:** Independence Unified School District 446	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** Independence, KS	**Status:** Active	**Grant Date:** 08/05/2010	**Expiration:** 08/05/2020

Site: 1	**Address:** 1301 N. Tenth Street	**City:** Independence, KS	**County:** MONTGOMERY	**Coordinates:** 37° 14' 15.8" N, 95° 42' 42.2" W	**Distance from Center:** 1.5 Miles **Azimuth from Center:** 313.7°

Frequency: 72.10000000

Site: 2	**City:** Independence, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 41.7" N, 95° 42' 36.7" W	**Distance from Center:** 1.1 Miles **Azimuth from Center:** 291.0°

Frequency: 72.18000000

Site: 3	**Address:** 300 West Locust Street	**City:** Independence, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 41.9" N, 95° 42' 36.4" W	**Distance from Center:** 1.1 Miles **Azimuth from Center:** 291.2°

Frequency: 72.26000000

Callsign: WQUY561	**Licensee:** Independence Unified School District 446	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** Independence, KS	**Status:** Active	**Grant Date:** 11/18/2014	**Expiration:** 11/18/2024

Site: 1	**City:** Independence, KS	**County:** MONTGOMERY	**Coordinates:** 37° 14' 13.7" N, 95° 42' 41.8" W	**Distance from Center:** 1.5 Miles **Azimuth from Center:** 312.7°

Frequency: 456.46250000 456.48750000 456.53750000 456.68750000 457.18750000

Site: 2	**Address:** 1301 N 10th St	**City:** Independence, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 46.1" N, 95° 42' 37.6" W	**Distance from Center:** 1.1 Miles **Azimuth from Center:** 294.7°

Frequency: 451.62500000

Site: 3	**Area of Operation:** KMRA around a Fixed Location	**City:** Independence, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 46.1" N, 95° 42' 37.6" W	**Distance from Center:** 1.1 Miles **Azimuth from Center:** 294.7°

Frequency: 451.62500000 456.62500000

Callsign: WQVP539	**Licensee:** INDEPENDENCE UNIFIED SCHOOL DISTRICT 446	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 04/08/2025	**Expiration:** 04/08/2025

Site: 1	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 14' 36.5" N, 95° 42' 45.2" W	**Distance from Center:** 1.8 Miles **Azimuth from Center:** 321.7°

Frequency: 467.21250000

Callsign: WQHB485	**Licensee:** INDEPENDENCE, CITY OF	**Radio Service:** Public Safety Pool, Conventional (PW)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 03/24/2017	**Expiration:** 06/19/2027

Site: 1	**Address:** HACKNEY INDUSTRIAL PARK	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 57.1" N, 95° 43' 59.0" W	**Distance from Center:** 2.4 Miles **Azimuth from Center:** 286.7°

Frequency: 155.56500000 V

Site: 2	**Area of Operation:** KMRA around a Fixed Location	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 57.1" N, 95° 43' 59.0" W	**Distance from Center:** 2.4 Miles **Azimuth from Center:** 286.7°

Frequency: 159.06000000

Callsign: KAP255	**Licensee:** INDEPENDENCE, CITY OF	**Radio Service:** Public Safety Pool, Conventional (PW)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 02/24/2015	**Expiration:** 04/02/2025

Site: 2	**Address:** CTY COURT HOUSE	**City:** INDEPEDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 30.2" N, 95° 42' 30.9" W	**Distance from Center:** 0.9 Mile **Azimuth from Center:** 280.1°

Frequency: 151.16000000 155.83500000 158.82000000

Callsign: KLK600	**Licensee:** INDEPENDENCE, CITY OF	**Radio Service:** Public Safety Pool, Conventional (PW)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 07/09/2013	**Expiration:** 07/09/2023

Site: 4	**Address:** 120 N 6TH	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 24.3" N, 95° 42' 19.4" W	**Distance from Center:** 0.7 Mile

					Azimuth from Center: 273.9°

Frequency: 155.62500000 V

Callsign: WPJM672	**Licensee:** INDEPENDENCE, CITY OF	**Radio Service:** Public Safety Pool, Conventional (PW)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 11/16/2011	**Expiration:** 07/30/2021

Site: 1	**Address:** 520 E OAK ST	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 14' 19.2" N, 95° 42' 0.9" W	**Distance from Center:** 1.2 Miles **Azimuth from Center:** 337.6°

Frequency: 453.72500000

Site: 2	**Address:** 700 N FIRST	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 14' 27.2" N, 95° 42' 27.9" W	**Distance from Center:** 1.5 Miles **Azimuth from Center:** 325.4°

Frequency: 453.72500000

Site: 3	**Address:** EIGHTH AND CHESTNUT	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 14' 1.2" N, 95° 42' 51.9" W	**Distance from Center:** 1.5 Miles **Azimuth from Center:** 301.6°

Frequency: 453.72500000

Site: 4	**Address:** 1200 W MULBERRY	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 15' 22.2" N, 95° 43' 18.9" W	**Distance from Center:** 2.8 Miles **Azimuth from Center:** 324.6°

Frequency: 453.72500000

Callsign: WPJM673	**Licensee:** INDEPENDENCE, CITY OF	**Radio Service:** Public Safety Pool, Conventional (PW)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 06/29/2011	**Expiration:** 07/30/2021

Site: 1	**Address:** 1300 S 17TH	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 7.2" N, 95° 43' 17.9" W	**Distance from Center:** 1.7 Miles **Azimuth from Center:** 260.3°

Frequency: 453.72500000

Site: 2	**Address:** BROOKSIDE AND COLLEGE AVE	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 12' 18.3" N, 95° 43' 37.9" W	**Distance from Center:** 2.3 Miles **Azimuth from Center:** 237.9°

Frequency: 453.72500000

Site: 3	**Name:** RTU	**Address:** 600' NORTH OF ENTERPRISE DR ON NORTH HACKNEY AVE	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 56.5" N, 95° 43' 57.1" W	**Distance from Center:** 2.3 Miles **Azimuth**

						from Center: 286.7°

Frequency: 453.72500000

Callsign: WPJS417	**Licensee:** INDEPENDENCE, CITY OF	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 01/20/2012	**Expiration:** 10/02/2021

Site: 1	**Address:** HACKNEY INDUSTRIAL PARK	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 57.1" N, 95° 43' 59.0" W	**Distance from Center:** 2.4 Miles **Azimuth from Center:** 286.7°

Frequency: 462.97500000 V

Site: 3	**Area of Operation:** KMRA around a Fixed Location	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 57.1" N, 95° 43' 59.0" W	**Distance from Center:** 2.4 Miles **Azimuth from Center:** 286.7°

Frequency: 467.97500000

Callsign: KNKN911	**Licensee:** KANSAS #15 LIMITED PARTNERSHIP	**Radio Service:** Cellular (CL)	**City:** CHICAGO, IL	**Status:** Active	**Grant Date:** 11/22/2011	**Expiration:** 10/01/2021

Site: 18	**Address:** 2 mi South of Independence on County Rd 4100	**City:** Independence, KS	**County:** MONTGOMERY	**Coordinates:** 37° 11' 29.0" N, 95° 41' 35.0" W	**Distance from Center:** 2.2 Miles **Azimuth from Center:** 181.6°

Frequency: 835.02000000 846.51000000 880.02000000 891.51000000

Callsign: WQSH983	**Licensee:** KANSAS #15 LIMITED PARTNERSHIP	**Radio Service:** Common Carrier Fixed Point to Point Microwave (CF)	**City:** CHICAGO, IL	**Status:** Active	**Grant Date:** 09/23/2013	**Expiration:** 09/23/2023

Site: 1	**Name:** DT INDEPENDENCE	**Address:** 2 mi South of Independence on County Rd 4100	**City:** Independence, KS	**County:** MONTGOMERY	**Coordinates:** 37° 11' 29.0" N, 95° 41' 35.0" W	**Distance from Center:** 2.2 Miles **Azimuth from Center:** 181.6°

Frequency: 6063.80000000 H 11445.00000000 V

Callsign: WQTB540	**Licensee:** KANSAS #15 LIMITED PARTNERSHIP	**Radio Service:** Common Carrier Fixed Point to Point Microwave (CF)	**City:** CHICAGO, IL	**Status:** Active	**Grant Date:** 12/26/2013	**Expiration:** 12/26/2023

Site: 1	**Name:** INDEPENDENCE CENTRAL	**Address:** 200 ARCO PLACE	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 29.9" N, 95° 42' 36.0" W	**Distance from Center:** 1.0 Miles

						Azimuth from Center: 279.0°

Frequency: 10955.00000000 V

Callsign: WPBE927	**Licensee:** MERCY HOSPITAL OF KANSAS INC	**Radio Service:** Public Safety Pool, Conventional (PW)	**City:** FORT SCOTT, KS	**Status:** Active	**Grant Date:** 06/22/2011	**Expiration:** 04/11/2021

Site: 2	**Address:** 800 W MYRTLE ST	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 29.2" N, 95° 43' 5.9" W	**Distance from Center:** 1.5 Miles **Azimuth from Center:** 275.7°

Frequency: 462.95000000 462.97500000 463.00000000 463.02500000 463.05000000 463.07500000 463.10000000 463.12500000 463.15000000 463.17500000

Site: 4	**Area of Operation:** KMRA around a Fixed Location	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 29.2" N, 95° 43' 5.9" W	**Distance from Center:** 1.5 Miles **Azimuth from Center:** 275.7°

Frequency: 462.95000000 462.97500000 463.00000000 463.02500000 463.05000000 463.07500000 463.10000000 463.12500000 463.15000000 463.17500000 467.95000000 467.97500000 468.00000000 468.02500000 468.05000000 468.07500000 468.10000000 468.12500000 468.15000000 468.17500000

Callsign: WRBT806	**Licensee:** MFG CONSTRUCTION PRODUCTS COMPANY	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 06/18/2018	**Expiration:** 06/18/2028

Site: 1	**Address:** 1018 W. SYCAMORE STREET	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 53.4" N, 95° 43' 9.6" W	**Distance from Center:** 1.6 Miles **Azimuth from Center:** 292.0°

Frequency: 451.33750000 456.33750000 462.51250000

Callsign: WQWX903	**Licensee:** MITCHELL ACRES, LLC	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** LIBERTY, KS	**Status:** Active	**Grant Date:** 12/22/2015	**Expiration:** 12/22/2025

Site: 1	**Address:** RT 2, 3.5 MI SE OF INDEPENDENCE	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 12' 36.0" N, 95° 38' 30.0" W	**Distance from Center:** 2.9 Miles **Azimuth from Center:** 107.6°

Frequency: 451.90000000

Site: 2	**Area of Operation:** KMRA around a Fixed Location	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 12' 36.0" N, 95° 38' 30.0" W	**Distance from Center:** 2.9 Miles **Azimuth from Center:** 107.6°

Frequency: 456.90000000

Callsign: KWL316	**Licensee:** Montgomery County	**Radio Service:** Public Safety Pool,	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 03/26/2014	**Expiration:** 06/08/2024

		Conventional (PW)				

Site: 1	**Address:** 5TH AND MAIN COUNTY COURTHOUSE	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 30.2" N, 95° 42' 30.9" W	**Distance from Center:** 0.9 Mile **Azimuth from Center:** 280.1°

Frequency: 453.25000000

Callsign: KNDY252	**Licensee:** MONTGOMERY, COUNTY OF	**Radio Service:** Public Safety Pool, Conventional (PW)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 07/11/2012	**Expiration:** 10/01/2022

Site: 2	**Address:** MONTGOMERY COUNTY COURTHOUSE	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 30.2" N, 95° 42' 30.9" W	**Distance from Center:** 0.9 Mile **Azimuth from Center:** 280.1°

Frequency: 155.23500000 155.26500000

Callsign: WNRF591	**Licensee:** MONTGOMERY, COUNTY OF	**Radio Service:** Public Safety Pool, Conventional (PW)	**City:** INDEPENDENCE, KS	**Status:** Active	**Grant Date:** 06/13/2015	**Expiration:** 07/28/2025

Site: 1	**Address:** 300 E MAIN	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 26.2" N, 95° 42' 47.9" W	**Distance from Center:** 1.2 Miles **Azimuth from Center:** 274.2°

Frequency: 453.52500000

Site: 2	**Area of Operation:** KMRA around a Fixed Location	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 26.2" N, 95° 42' 47.9" W	**Distance from Center:** 1.2 Miles **Azimuth from Center:** 274.2°

Frequency: 453.52500000 458.52500000

Callsign: KB98137	**Licensee:** MY TOWN MEDIA, INC	**Radio Service:** Broadcast Auxiliary Remote Pickup (RP)	**City:** WICHITA, KS	**Status:** Active	**Grant Date:** 04/22/1986	**Expiration:** 06/01/2021

Site: 1	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 21.2" N, 95° 42' 29.9" W	**Distance from Center:** 0.9 Mile **Azimuth from Center:** 269.4°

Frequency: 455.25000000 455.45000000

Callsign: WQTJ928	**Licensee:** NEW CINGULAR WIRELESS PCS LLC	**Radio Service:** Common Carrier Fixed Point to Point Microwave (CF)	**City:** Dallas, TX	**Status:** Active	**Grant Date:** 02/20/2014	**Expiration:** 02/20/2024

Site: 1	**Name:** INDEPENDENCE	**Address:** 2723 W 4200 St.	**City:** Independence, KS	**County:** MONTGOMERY	**Coordinates:** 37° 12' 33.1" N, 95° 44' 45.6" W	**Distance from Center:** 3.1 Miles* **Azimuth**

						from Center: 252.6°

Frequency: 10815.00000000 V

Callsign: WPHW786	**Licensee:** O REILLY AUTOMOTIVE INC	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** SPRINGFIELD, MO	**Status:** Active	**Grant Date:** 06/10/2015	**Expiration:** 07/27/2025

Site: 3	**Address:** 224 W MAIN	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 24.2" N, 95° 42' 50.9" W	**Distance from Center:** 1.2 Miles **Azimuth from Center:** 272.3°

Frequency: 460.72500000

Site: 8	**Area of Operation:** KMRA around a Fixed Location	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 24.2" N, 95° 42' 50.9" W	**Distance from Center:** 1.2 Miles **Azimuth from Center:** 272.3°

Frequency: 460.72500000

Callsign: WNUR779	**Licensee:** Public Wholesale Water Supply District No 4	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** CHERRYVALE, KS	**Status:** Active	**Grant Date:** 08/13/2015	**Expiration:** 10/30/2025

Site: 3	**Address:** 1 1/2 MI S	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 11' 25.3" N, 95° 42' 40.9" W	**Distance from Center:** 2.5 Miles **Azimuth from Center:** 205.5°

Frequency: 154.47125000

Callsign: WPXH342	**Licensee:** Public Wholesale Water Supply District No 4	**Radio Service:** Industrial/Business Pool, Conventional (IG)	**City:** Cherryvale, KS	**Status:** Active	**Grant Date:** 01/15/2013	**Expiration:** 04/03/2023

Site: 4	**Name:** BOOSTER RTU	**Address:** BOOSTER RTU - 0.37MI E OF 4500 RD ON COLLEGE AVE.	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 11' 46.0" N, 95° 38' 59.0" W	**Distance from Center:** 3.0 Miles **Azimuth from Center:** 128.3°

Frequency: 154.47125000

Callsign: KFZ937	**Licensee:** SEK MEDIA, LLC	**Radio Service:** Broadcast Auxiliary Remote Pickup (RP)	**City:** BARTLESVILLE, OK	**Status:** Active	**Grant Date:** 07/25/2000	**Expiration:** 06/01/2021

Site: 1	**Address:** 6TH & MYRTLE STS	**City:** INDEPENDENCE, KS	**County:** MONTGOMERY	**Coordinates:** 37° 13' 27.2" N, 95° 42' 17.9" W	**Distance from Center:** 0.7 Mile **Azimuth from Center:** 278.4°

Frequency: 161.76000000

Callsign:	Licensee:	Radio Service:	City:	Status:	Grant Date:	Expiration:
KPL449	SEK MEDIA, LLC	Broadcast Auxiliary Remote Pickup (RP)	BARTLESVILLE, OK	Active	03/05/1991	06/01/2021

Site:	Address:	City:	County:	Coordinates:	Distance from Center:
1	300 E. MAIN	INDEPENDENCE, KS	MONTGOMERY	37° 13' 25.2" N, 95° 42' 11.9" W	0.6 Mile **Azimuth from Center:** 276.2°

Frequency: 450.85000000 455.85000000

Callsign:	Licensee:	Radio Service:	City:	Status:	Grant Date:	Expiration:
WQWA360	T-MOBILE LICENSE LLC	Common Carrier Fixed Point to Point Microwave (CF)	BELLEVUE, WA	Active	06/29/2015	06/29/2025

Site:	Name:	Address:	City:	County:	Coordinates:	Distance from Center:
1	TU01760A	2723 W 4200 St.	Independence, KS	MONTGOMERY	37° 12' 33.1" N, 95° 44' 45.6" W	3.1 Miles* **Azimuth from Center:** 252.6°

Frequency: 10855.00000000 V

Callsign:	Licensee:	Radio Service:	City:	Status:	Grant Date:	Expiration:
WQJK985	VALNET HOLDINGS LLC	3650-3700 MHz (NN)	Tulsa, OK	Active	08/23/2018	04/17/2020

Site:	Name:	City:	County:	Coordinates:	Distance from Center:
9	ICO Roof	Independence, KS	MONTGOMERY	37° 13' 29.3" N, 95° 42' 36.5" W	1.0 Miles **Azimuth from Center:** 278.3°

Frequency: 3650.00000000 S

Site:	Name:	City:	County:	Coordinates:	Distance from Center:
11	ICO Roof	Independence, KS	MONTGOMERY	37° 13' 29.3" N, 95° 42' 36.5" W	1.0 Miles **Azimuth from Center:** 278.3°

Frequency: 3650.00000000 S

Site:	Name:	City:	County:	Coordinates:	Distance from Center:
21	ICC Stadium	INDEPENDENCE, KS	MONTGOMERY	37° 14' 22.0" N, 95° 42' 13.6" W	1.3 Miles **Azimuth from Center:** 330.7°

Frequency: 3650.00000000 S

Callsign:	Licensee:	Radio Service:	City:	Status:	Grant Date:	Expiration:
WQZX929	Valnet Holdings, LLC	Microwave Industrial/Business Pool (MG)	INDEPENDENCE, KS	Active	09/05/2017	09/05/2027

Site:	Name:	Address:	City:	County:	Coordinates:	Distance from Center:
1	Independence ICO	248 N 10th St	Independence, KS	MONTGOMERY	37° 13' 29.0" N, 95° 42' 37.8" W	1.0 Miles **Azimuth from Center:** 277.8°

Frequency: 11155.00000000 H 11155.00000000 V 11645.00000000 H 11645.00000000 V

File Number: 0008977409	Licensee: Westar Energy, Inc.	Radio Service: Microwave Industrial/Business Pool (MG)	City: Topeka, KS	Status: Pending	(New)

Site: 1	Name: Independence SC	Address: 1101 East Main	City: Independence, KS	County: MONTGOMERY	Coordinates: 37° 13' 21.9" N, 95° 41' 31.0" W	Distance from Center: 0.0 Mile Azimuth from Center: 21.7°

Frequency: 6197.24000000 V

Universal Licensing System Site / Frequency Files: 35

Back to original search

* Indicates points outside the point/radius circle, within the computed box.
There is no county data for sites in the Mass Media database. Searches on State/County will not retrieve any data from the Mass Media database.

Help

If you have suggestions for improvements to this application,
please submit a technical support request or call 877-480-3201.

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Washington, DC 20554
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Fax: 1-866-418-0232
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FCC General Menu Reports 3.1.14 October 7, 2010

Reference Copy Only. Do Not Mail to the FCC as an Application.

Submitted: 02/14/2020 at 12:18:38
File Number: 0008977409

FCC 601
Main Form

FCC Application for Radio Service Authorization: Wireless Telecommunications Bureau Public Safety and Homeland Security Bureau

Approved by OMB
3060 - 0798
See instructions for public burden estimate

1) Radio Service Code: **MG**	1a) Existing Radio Service Code:

General Information

2) (Select only one) **(NE)** **NE** - New **RO** - Renewal Only **AU** - Administrative Update **NT** - Required Notifications **MD** - Modification **RM** - Renewal/Modification **WD** - Withdrawal of Application **EX** - Requests for Extension of Time **AM** - Amendment **CA** - Cancellation of License **DU** - Duplicate License **RL** – Registered Location/Link	
3a) If this application is for a **D**evelopmental License, De**m**onstration License, or a **S**pecial Temporary Authorization (STA), enter the code and attach the required exhibit as described in the instructions. Otherwise enter '**N**' (Not Applicable).	(**N**)**D M S N**/A
3b) If this application is for Special Temporary Authority due to an emergency situation, enter 'Y'; otherwise enter 'N'. Refer to Rule 1.915 for an explanation of situations considered to be an emergency.	( )**Y**es **N**o
4) If this application is for an Amendment or Withdrawal, enter the file number of the pending application currently on file with the FCC.	File Number
5) If this application is for a Modification, Renewal Only, Renewal/Modification, Cancellation of License, Duplicate License, or Administrative Update, enter the call sign of the existing FCC license. If this is a request for Registered Location/Link, enter the FCC call sign assigned to the geographic license.	Call Sign
6) If this application is for a New, Amendment, Renewal Only, or Renewal/Modification, enter the requested authorization expiration date (this item is optional).	MM DD _____/_____
7) Is this application "major" as defined in §1.929 of the Commission's Rules when read in conjunction with the applicable radio service rules found in Parts 22 and 90 of the Commission's Rules? (NOTE: This question only applies to certain site-specific applications. See the instructions for applicability and full text of §1.929).	( )**Y**es **N**o
8) Are attachments (other than associated schedules) being filed with this application?	(**Y**)**Y**es **N**o

Fees, Waivers, and Exemptions

9) Is the Applicant exempt from FCC application fees?	(**N**)**Y**es **N**o
10) Is the Applicant exempt from FCC regulatory fees?	(**N**)**Y**es **N**o
11a) Does this application include a request for a Waiver of the Commission's Rule(s)? If 'Yes', attach an exhibit providing rule number(s) and explaining circumstances.	(**N**)**Y**es **N**o
11b) If 11a is 'Y', enter the number of rule sections involved.	Number of Rule Section(s): _____
12) Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	(**N**)**Y**es **N**o

Applicant Information

13) FCC Registration Number (FRN):
0002340404

14) Applicant/Licensee Legal Entity Type: (Select One)
( ) Individual ( )Unincorporated Association ( )Trust ( )Government Entity (X)Corporation ( )Limited Liability Company

( ) General Partnership ( ) Limited Partnership ( ) Limited Liability Partnership ( ) Consortium

( ) Other: _____

15) If the Licensee name is being updated, is the update a result from the sale (or transfer of control) of the license(s) to another party and for which proper Commission approval has not been received or proper notification not provided? ( )Yes No

16) First Name (if individual):	MI:	Last Name:	Suffix:

17) Legal Entity Name (if other than individual):
Westar Energy, Inc.

18) Attention To:
Leslie Stutler

19) P.O. Box:	And/Or	20) Street Address:
889		**818 S. Kansas Ave**

21) City:	22) State:	23) Zip Code:
Topeka	**KS**	**66601**

24) Telephone Number:	25) FAX:
(785)575-1001	

26) E-Mail Address:
leslie.stutler@evergy.com

27) **Demographics (Optional)**:

Race:	**Ethnicity:**	**Gender:**
( )American Indian or Alaska Native	( )Hispanic or Latino	( )Male
( )Asian	( )Not Hispanic or Latino	( )Female
( )Black or African-American		
( )Native Hawaiian or Other Pacific Islander		
( )White		

Real Party in Interest

28) Name of Real Party in Interest of Applicant (If different from Applicant):	29) FCC Registration Number (FRN) of Real Party in Interest:

Contact Information (If different from the Applicant)
(____) Check here if same as Applicant.

30) First Name:	MI:	Last Name:	Suffix:
Leslie		**Stutler**	

31) Company Name:
Westar Energy, Inc.

32) Attention To:
Leslie Stutler

33) P.O. Box:	And /Or	34) Street Address:
889		**818 S. Kansas Ave**

35) City:	36) State:	37) Zip Code:
Topeka	**KS**	**66601**

38) Telephone Number:	39) FAX:
(785)575-1001	

40) E-Mail Address:
leslie.stutler@evergy.com

Regulatory Status

41) This filing is for authorization to provide or use the following type(s) of radio service offering (enter all that apply):

( )Common Carrier ( )Non-Common Carrier (X)Private, internal communications ( )Broadcast Services ( )Band Manager

Reference Copy

Type of Radio Service

42) This filing is for authorization to provide the following type(s) of radio service (choose all that apply):

(X)Fixed ( )Mobile ( )Radiolocation ( )Satellite (sound) ( )Broadcast Services

43) Does the Applicant propose to provide service interconnected to the public telephone network? (N)Yes No

Alien Ownership Questions (If any answer is 'Y", provide an attachment explaining the circumstances. In preparing the attachment, refer to the Main Form Instructions for the "Alien Ownership Questions".)

44) Is the Applicant a foreign government or the representative of any foreign government? (N)Yes No

45) Is the Applicant an alien or the representative of an alien? ( )Yes No

46) Is the Applicant a corporation organized under the laws of any foreign government? ( )Yes No

47) Is the Applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? ( )Yes No

48a) Is the Applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens or their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? ( ) Yes No

48b) If the answer to 47 or 48a is 'Y' select one of the choices below.

☐ The Applicant is exempt from the provisions of Section 310(b).

It is not necessary to file a petition for declaratory ruling if the Applicant includes in the attachment required by Item 47 or Item 48a a showing that the requested license(s) is exempt from the provisions of Section 310(b).

☐ The Applicant has received a declaratory ruling(s) approving its foreign ownership, and the application involves only the acquisition of additional spectrum for the provision of a wireless service in a geographic coverage area for which the Applicant has been previously authorized.

If checked, include in the attachment required by Item 47 or Item 48a the citation(s) of the applicable declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that there has been no change in the foreign ownership of the Applicant since the issuance of its ruling.

☐ The Applicant: (i) has received a declaratory ruling(s) approving its foreign ownership, but is not able to make the certification specified immediately above; or (ii) is an "affiliate" of a Licensee or Lessee/Sublessee that received a declaratory ruling(s) under 47 CFR § 1.990(a) and is relying on the affiliate's ruling for purposes of filing this application as permitted under the affiliate's ruling and 47 CFR § 1.994(b).

If checked, and if the Applicant *received its declaratory ruling(s) on or after August 9, 2013, include in the attachment required by Item 47 or Item 48a the citation(s) of the Applicant's declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that the Applicant is in compliance with the terms and conditions of its ruling and with the Commission's Rules.*

If checked, and if the Applicant received its declaratory ruling(s) prior to August 9, 2013, include in the attachment required by Item 48a a copy of a petition for declaratory ruling filed contemporaneously with the Commission to extend the Applicant's existing ruling(s) to cover the same radio service(s) and geographic coverage area(s) involved in the application. Alternatively, the Applicant may request a new declaratory ruling pursuant to Section 1.990(a) of the Commission's Rules, 47 CFR § 1.990(a). Petitions for declaratory ruling may be filed electronically on the Internet through the International Bureau Filing System (IBFS) (with a copy attached hereto).

If checked, and if the Applicant is relying on an affiliate's ruling for purposes of filing this application, include in the attachment required by Item 47 or Item 48a the citation(s) of the applicable declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that the Applicant is in compliance with the terms and conditions of the named affiliate's ruling and with the Commission's Rules. The Applicant must also include a certification of compliance signed by the named affiliate or other qualified entity as specified in 47 CFR § 1.994(b). See Main Form Instructions for Items 47 or 48a, as applicable.

☐ The Applicant has not received a declaratory ruling approving its foreign ownership and is requesting a declaratory ruling under 47 CFR § 1.990(a) in a petition filed contemporaneously with the Commission.

If checked, include in the attachment required by Item 47 or 48a a copy of the petition for declaratory ruling filed contemporaneously with the Commission pursuant to 47 CFR § 1.990(a). Petitions for declaratory ruling may be filed electronically on the Internet through the International Bureau Filing System (IBFS) (with a copy attached hereto).

Reference Copy

Basic Qualification Questions

49) Has the Applicant or any party to this application had any FCC station authorization, license or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission?	(N)Yes No
50) Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	(N)Yes No
51) Has any court finally adjudged the Applicant or any party directly or indirectly controlling the Applicant guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement, or any other means or unfair methods of competition? If the answer to any of 49-51 is 'Y', attach an exhibit explaining the circumstances.	(N)Yes No

Aeronautical Advisory Station (Unicom) Certification

52) ( ) I certify that the station will be located on property of the airport to be served, and, in cases where the airport does not have a control tower, RCO, or FAA flight service station, that I have notified the owner of the airport and all aviation service organizations located at the airport within ten days prior to application.

Broadband Radio Service and Educational Broadband Service Cable Cross-Ownership

53a) Will the requested facilities be used to provide multichannel video programming service?	( )Yes No
53b) If the answer to question 53a is 'Y', does the Applicant operate, control or have an attributable interest (as defined in 47 CFR § 27.1202) in a cable television system whose franchise area is located within the geographic service area of the requested facilities? **Note: If the answer to question 53b is 'Y'**, attach an exhibit explaining how the Applicant complies with 47 CFR § 27.1202 or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.	( )Yes No

Broadband Radio Service and Educational Broadband Service (Part 27)

54) (For EBS only) Does the Applicant comply with the programming requirements contained in 47 CFR § 27.1203? **Note: If the answer to item 54 is 'N',** attach an exhibit explaining how the Applicant complies with 47 CFR § 27.1203 of the Commission's Rules or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.	( )Yes No
55) (For BRS and EBS) Does the Applicant comply with 47 CFR §§ 27.50, 27.55, and 27.1221? **Note: If the answer to item 55 is 'N',** attach an exhibit justifying a waiver of that rule(s). If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.	( )Yes No

For Applicants Who Participated in an Auction

56) Is the Applicant a qualifying rural wireless partnership or a member of a qualifying rural wireless partnership? ( )Yes No

Note: If the answer to item 56 is 'Y', attach an exhibit listing all members of the qualifying rural wireless partnership, including their FRN numbers.

General Certification Statements

1) The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application.

2) The Applicant certifies that grant of this application would not cause the Applicant to be in violation of any pertinent cross-ownership or attribution rules.*
*If the Applicant has sought a waiver of any such rule in connection with this application, it may make this certification subject to the outcome of the waiver request.

3) The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.

4) The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to § 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under § 1.2002(c) of the rules, 47 CFR § 1.2002(c). *See* 47 CFR § 1.2002(b) for the definition of "party to the application" as used in this certification.

5) The Applicant certifies that it either (1) has current required ownership data on file with the Commission, (2) is filing updated ownership data simultaneously with this application, or (3) is not required to file ownership data under the Commission's Rules.

6) The Applicant certifies that the facilities, operations, and transmitters for which this authorization is hereby requested are either: (1) categorically excluded from routine environmental evaluation for RF exposure as set forth in 47 CFR § 1.1307(b); or, (2) have been found not to cause human exposure to levels of radiofrequency radiation in excess of the limits specified in 47 CFR §§ 1.1310 and 2.1093; or, (3) are the subject of one or more Environmental Assessments filed with the Commission.

7) The Applicant certifies that it has reviewed the appropriate Commission Rules defining eligibility to hold the requested license(s), and is eligible to hold the requested license(s).

8) The Applicant certifies that it is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.

9) The Applicant certifies that the Applicant and all of the related individuals and entities required to be disclosed on this application and FCC Form 602 (FCC Ownership Disclosure Information for the Wireless Telecommunications Services) are not person(s) who have been, for reasons of national security, barred by any agency of the Federal Government from bidding on a contract, participating in an auction, or receiving a grant. This certification applies only to applications for licenses for spectrum that is required by Sections 6103, 6401-6403 of the Middle Class Tax Relief and Job Creation Act of 2012, codified at 47 U.S.C. §§ 309, 1413, 1451-1452, to be assigned by a system of competitive bidding under 47 U.S.C. § 309(j).

Signature

57)Typed or Printed Name of Party Authorized to Sign

First Name:	MI:	Last Name:	Suffix:
Worthy		**Stutler**	

58) Title: **Contractor**

Signature:	59) Date:
Worthy Stutler	**02/14/2020**

FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.

Upon grant of this license application, the Licensee may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in termination of the license. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of license requested in this application.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, § 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, § 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, § 503).

Reference Copy

FCC 601
Schedule I

Technical Data Schedule for the Fixed Microwave and Microwave Broadcast Auxiliary Services (Parts 101 and 74)

Approved by OMB
3060 - 0798
See 601 Main Form Instructions for public burden estimate

Administrative Information

1) Is this application being filed as part of a pack?	(**N**)Yes/No
2a) If the answer to Item 1 is 'Yes', enter the pack identification number (required if the pack identification number has already been assigned by the FCC):	
2b) Pack Name:	
3) Type of Operation (refer to instructions) Check One Only: (**X**)Permanent Fixed Point to Point ( )Multiple Address System (MAS) ( )Temporary Fixed/Mobile ( )Digital Electronic Message Service (DEMS) ( )18 GHz Low Power ( )31 GHz ( )38 GHz	4) Station Class: **FXO** 5) DEMS only: SMSA:
6) If this request is for a Modification, Renewal/Modification, or Amendment of a currently pending application, does it, along with all minor Modification or Amendment requests filed since you applied for a new authorization or since the last major action was granted by the Commission, produce a cumulative effect that would equal or exceed the criteria for a major filing?	( )Yes/No
7) Has frequency coordination been completed for this application?	(**Y**)Yes/No

Frequency Coordinator Information

Complete Items 8 through 11 if not self-coordinated

8) Frequency Coordination Number	9) Name of Frequency Coordinator	10) Telephone Number	11) Coordination Date
M1918402	**Micronet**	**(972)422-7200**	**08/20/2019**

Broadcast Auxiliary Only

If there is an associated Parent Station, provide:	12a) Facility Id of Parent Station:	12b) Radio Service of Parent Station:	12c) City and State of Parent Station Principal Community:

If there is no associated parent station, applicant certifies that it is a Broadcast Network Entity and completes Item 13.	13) State of Primary Operation:

Control Point (Technical Point of Contact)

14) Action **A/M**	15) Location Street Address, City or Town, County/Borough/Parish, State	16) Telephone Number

Reference Copy

FCC 601
Schedule I
Supplement 1

Location Data

1) Action Requested: (**A**) **A**dd **M**od **D**el		2) Location Number: **1**
3) Location Description: **T Transmit Location**	4) Area of Operation Code:	5) Location Name: **Independence SC**
6) FCC Antenna Structure Registration Number, FCC 854 File Number or N/A:		
7) Latitude (DD-MM-SS.S): **37-13-21.9** **NAD83** (**N**) N or S		8) Longitude (DDD-MM-SS.S): **095-41-31.0** **NAD83** (**W**) E or W
9) Street Address, Name of Landing Area, or Other Location Description: **1101 East Main**		
10) City: **Independence**	11) State: **KS**	12) County/Borough/Parish: **MONTGOMERY**
13) Elevation of Site AMSL (meters) ('a' in antenna structure example): **236.2**	14) Overall Ht AGL Without Appurtenances (meters) ('b' in antenna structure example): **30.4**	15) Overall Ht AGL With Appurtenances (meters) ('c' in antenna structure example): **32.0**
16) Support Structure Type: **MTOWER**		
17) Radius (km):		
18) Maximum Latitude (DD-MM-SS.S): **NAD83** **Use for rectangle only (Northwest corner)** ( ) N or S **- -**		19) Maximum Longitude (DDD-MM-SS.S): **NAD83** **Use for rectangle only (Northwest corner)** ( ) E or W **- -**
20) Do you propose to operate in an area that requires frequency coordination with Canada? ( ) **Y**es **N**o		
21) Description: (only for Area of Operation Code 'O')		
22) Would Commission grant of Authorization for this location be an action which may have a significant environmental effect? See Section 1.1307 of 47 CFR. If 'Yes', submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. ( ) **Y**es **N**o **N**		
23a) If the site is located in one of the Quiet Zones listed in Item 23b of the Instructions, provide the date (mm/dd/yyyy) that the proper Quiet Zone entity was notified: ____/____/____ 23b) Has the Applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application? ( ) **Y**es **N**o		
24) Do you propose to operate in an area that requires frequency coordination with Mexico? ( ) **Y**es **N**o		

Reference Copy

FCC 601
Schedule I
Supplement 1

Location Data

1) Action Requested: (**A**) **A**dd **M**od **D**el		2) Location Number: **2**
3) Location Description: **R Receive Location**	4) Area of Operation Code:	5) Location Name: **Cherryvale**
6) FCC Antenna Structure Registration Number, FCC 854 File Number or N/A:		
7) Latitude (DD-MM-SS.S): **37-15-03.0** **NAD83** (**N**) N or S		8) Longitude (DDD-MM-SS.S): **095-31-07.0** **NAD83** (**W**) E or W
9) Street Address, Name of Landing Area, or Other Location Description:		
10) City:	11) State:	12) County/Borough/Parish:
13) Elevation of Site AMSL (meters) ('a' in antenna structure example): **259.4**	14) Overall Ht AGL Without Appurtenances (meters) ('b' in antenna structure example):	15) Overall Ht AGL With Appurtenances (meters) ('c' in antenna structure example):
16) Support Structure Type:		
17) Radius (km):		
18) Maximum Latitude (DD-MM-SS.S): **Use for rectangle only (Northwest corner)** **NAD83** ( ) N or S **- -**		19) Maximum Longitude (DDD-MM-SS.S): **Use for rectangle only (Northwest corner)** **NAD83** ( ) E or W **- -**
20) Do you propose to operate in an area that requires frequency coordination with Canada? ( ) **Y**es **N**o		
21) Description: (only for Area of Operation Code 'O')		
22) Would Commission grant of Authorization for this location be an action which may have a significant environmental effect? See Section 1.1307 of 47 CFR. If 'Yes', submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. ( ) **Y**es **N**o		
23a) If the site is located in one of the Quiet Zones listed in Item 23b of the Instructions, provide the date (mm/dd/yyyy) that the proper Quiet Zone entity was notified: ____/____/____ 23b) Has the Applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application? ( ) **Y**es **N**o		
24) Do you propose to operate in an area that requires frequency coordination with Mexico? ( ) **Y**es **N**o		

Reference Copy

FCC 601
Schedule I
Supplement 2

Path Data

Transmit Location

1) Transmit location name: **Independence SC**	2) Path number: **1**
3) Action Requested: (**A**) **A**dd New Path **M**odify Existing Path **D**elete Existing Path	
4a) For MAS or DEMS only, MAS or DEMS Sub-Type of Operation (Enter only one per path): **MAS or DEMS** ( )Fixed Two-way Master-Remote/Nodal-User ( )Multiple Two-way Master-Remote/Nodal-User **MAS ONLY** ( )Fixed One-way Outbound Master ( )Multiple One-way Outbound Master ( )Fixed One-way Inbound Master ( )Mobile Master	4b) Path code (Enter only one per path): **MAS** ( ) Master to Remote ( ) Remote to Master **DEMS** ( )Nodal to User ( )User to Nodal

Transmit Antenna

5) Antenna Manufacturer: **Commscope**	6) Antenna Model Number: **SHP3-6W**	
7) Height to Center of Antenna AGL (meters): **21.3**	8) Beamwidth (degrees): **3.3**	9) Antenna Gain (dBi): **33.6**
10) Diversity Antenna Height AGL (meters):	11) Diversity Beamwidth (degrees):	12) Diversity Antenna Gain (dBi):
13) Elevation (Tilt) Angle (degrees):	14) Polarization: **V**	15) Azimuth to RX Location or Passive Repeater (degrees): **78.5**
16) Periscope Reflector Dimensions (meters): Height: Width:	17) Periscope Reflector Separation (meters):	
18) If the final receiver is located outside of the United States, enter the country in the space provided and attach an exhibit explaining circumstances.		
19) Does this path include passive repeater? (**N**)**Y**es **N**o		
20) Does this filing add or modify emanations in the 5925 - 7075 MHz band pointing within 2 degrees of the Geostationary Satellite Arc with EIRP greater than 65 dBm, or in the 12700 - 13250 MHz band pointing within 1.5 degrees of the Geostationary Satellite Arc with EIRP greater than 75 dBm? (**N**)**Y**es **N**o If 'Yes', answer the following questions below and attach waiver request explaining circumstances. 20a) Angular Separation between main beam and Geostationary Satellite Arc (degrees). Include Orbital Calculations in the wavier exhibit. _____ 20b) Does the Applicant certify that there is no alternative to the proposed transmission path? ( )**Y**es **N**o 20c) Does the Applicant certify that the proposed operation will not cause interference to an authorized satellite system? ( )**Y**es **N**o		

Final Receiver

21) Receiver Location Name: **Cherryvale**		
22) Receiver antenna manufacturer: **Commscope**	23) Receiver antenna model number: **SHP3-6W**	
24) Receiver Call Sign:		
25) Height to Center of RX Antenna AGL (meters): **82.3**	26) RX Antenna Beamwidth (degrees): **3.3**	27) RX Antenna Gain (dBi): **33.6**
28) Diversity RX Antenna Height AGL (meters):	29) Diversity RX Antenna Beamwidth (degrees):	30) Diversity RX Antenna Gain (dBi):
31) RX Periscope Reflector Dimensions (meters): Height: Width:	32) RX Periscope Reflector Separation (meters):	

Reference Copy

Passive Repeaters (PR)

Transmit Location

1) Transmit Location Name:	2) Path Number:

3) Action Requested: ( ) **A**dd New Passive Repeater **M**odify Existing Passive Repeater **D**elete Existing Passive Repeater

Passive Repeater Information

4) Passive Repeater Id: ( )	5) Passive Repeater Sequence Number: ( )	
6) Passive Repeater Location Name:		
7) Passive Repeater Antenna Manufacturer:	8) Passive Repeater Antenna Model Number:	
9) Height to Center of Passive Repeater Antenna AGL (meters)**:**	10) Back-to-Back RX Dish Gain (dBi)**:**	11) Back-to-Back TX Dish Gain (dBi)**:**
12) Reflector Dimensions (meters): Height**:** Width**:**	13) Transmit Polarization**:**	14) Azimuth to RX Location or Next Passive Repeater:

Reference Copy

Supplement 4

Frequency Data

Transmitter Location Information

1) Transmit Location Name: **Independence SC**	2) Path Number: **1**

Frequency Information

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**64.7**	**30M0D7W (A)**	**43000.0**	**QAM4**
	New **006197.24000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**64.7**	**30M0D7W (A)**	**90000.0**	**QAM16**
	New **006197.24000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

Reference Copy

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**64.7**	**30M0D7W (A)**	**113000.0**	**QAM32**
	New **006197.24000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**64.7**	**30M0D7W (A)**	**136000.0**	**QAM64**
	New **006197.24000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

Reference Copy

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**64.7**	**30M0D7W (A)**	**161000.0**	**QAM128**
	New **006197.24000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**64.7**	**30M0D7W (A)**	**183000.0**	**QAM256**
	New **006197.24000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

Reference Copy

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**64.7**	**30M0D7W (A)**	**206000.0**	**QAM512**
	New **006197.24000000**						

11) Transmitter Manufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control
Nokia	**95MPR61-L 512A30-206 SP AM**	**N**

Reference Copy

Attachment(s):

Type	Description	Date Entered
O	SUPPLEMENTAL SHOWING PART 101.103(d)	02/14/2020

Reference Copy Only. Do Not Mail to the FCC as an Application.

Submitted: 02/14/2020 at 12:06:20
File Number: 0008977392

FCC 601
Main Form

FCC Application for Radio Service Authorization: Wireless Telecommunications Bureau Public Safety and Homeland Security Bureau

Approved by OMB
3060 - 0798
See instructions for public burden estimate

1) Radio Service Code: **MG**	1a) Existing Radio Service Code:

General Information

2) (Select only one) **(NE)** **NE** - New; **RO** - Renewal Only; **AU** - Administrative Update; **NT** - Required Notifications **MD** - Modification; **RM** - Renewal/Modification; **WD** - Withdrawal of Application; **EX** - Requests for Extension of Time **AM** - Amendment; **CA** - Cancellation of License; **DU** - Duplicate License; **RL** – Registered Location/Link	
3a) If this application is for a **D**evelopmental License, De**m**onstration License, or a **S**pecial Temporary Authorization (STA), enter the code and attach the required exhibit as described in the instructions. Otherwise enter '**N**' (Not Applicable).	(**N**)**D** **M** **S** **N**/A
3b) If this application is for Special Temporary Authority due to an emergency situation, enter 'Y'; otherwise enter 'N'. Refer to Rule 1.915 for an explanation of situations considered to be an emergency.	( )**Y**es **N**o
4) If this application is for an Amendment or Withdrawal, enter the file number of the pending application currently on file with the FCC.	File Number
5) If this application is for a Modification, Renewal Only, Renewal/Modification, Cancellation of License, Duplicate License, or Administrative Update, enter the call sign of the existing FCC license. If this is a request for Registered Location/Link, enter the FCC call sign assigned to the geographic license.	Call Sign
6) If this application is for a New, Amendment, Renewal Only, or Renewal/Modification, enter the requested authorization expiration date (this item is optional).	MM DD _____/_____
7) Is this application "major" as defined in §1.929 of the Commission's Rules when read in conjunction with the applicable radio service rules found in Parts 22 and 90 of the Commission's Rules? (NOTE: This question only applies to certain site-specific applications. See the instructions for applicability and full text of §1.929).	( )**Y**es **N**o
8) Are attachments (other than associated schedules) being filed with this application?	(**Y**)**Y**es **N**o

Fees, Waivers, and Exemptions

9) Is the Applicant exempt from FCC application fees?	(**N**)**Y**es **N**o
10) Is the Applicant exempt from FCC regulatory fees?	(**N**)**Y**es **N**o
11a) Does this application include a request for a Waiver of the Commission's Rule(s)? If 'Yes', attach an exhibit providing rule number(s) and explaining circumstances.	(**N**)**Y**es **N**o
11b) If 11a is 'Y', enter the number of rule sections involved.	Number of Rule Section(s): _____
12) Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	(**N**)**Y**es **N**o

Reference Copy

Applicant Information

13) FCC Registration Number (FRN):
0002340404

14) Applicant/Licensee Legal Entity Type: (Select One)
( ) Individual ( )Unincorporated Association ( )Trust ( )Government Entity (X)Corporation ( )Limited Liability Company

( ) General Partnership ( ) Limited Partnership ( ) Limited Liability Partnership ( ) Consortium

( ) Other: _____

15) If the Licensee name is being updated, is the update a result from the sale (or transfer of control) of the license(s) to another party and for which proper Commission approval has not been received or proper notification not provided? ( )Yes No

16) First Name (if individual):	MI:	Last Name:	Suffix:

17) Legal Entity Name (if other than individual):
Westar Energy, Inc.

18) Attention To:
Leslie Stutler

19) P.O. Box:	And/Or	20) Street Address:
889		**818 S. Kansas Ave**

21) City:	22) State:	23) Zip Code:
Topeka	**KS**	**66601**

24) Telephone Number:	25) FAX:
(785)575-1001	

26) E-Mail Address:
leslie.stutler@evergy.com

27) **Demographics (Optional)**:

Race:	**Ethnicity:**	**Gender:**
( )American Indian or Alaska Native	( )Hispanic or Latino	( )Male
( )Asian	( )Not Hispanic or Latino	( )Female
( )Black or African-American		
( )Native Hawaiian or Other Pacific Islander		
( )White		

Real Party in Interest

28) Name of Real Party in Interest of Applicant (If different from Applicant):	29) FCC Registration Number (FRN) of Real Party in Interest:

Contact Information (If different from the Applicant)
(____) Check here if same as Applicant.

30) First Name:	MI:	Last Name:	Suffix:
Leslie		**Stutler**	

31) Company Name:
Westar Energy, Inc.

32) Attention To:
Leslie Stutler

33) P.O. Box:	And /Or	34) Street Address:
889		**818 S. Kansas Ave**

35) City:	36) State:	37) Zip Code:
Topeka	**KS**	**66601**

38) Telephone Number:	39) FAX:
(785)575-1001	

40) E-Mail Address:
leslie.stutler@evergy.com

Regulatory Status

41) This filing is for authorization to provide or use the following type(s) of radio service offering (enter all that apply):

( )Common Carrier ( )Non-Common Carrier (X)Private, internal communications ( )Broadcast Services ( )Band Manager

Reference Copy

Type of Radio Service

42) This filing is for authorization to provide the following type(s) of radio service (choose all that apply):

(X)Fixed ( )Mobile ( )Radiolocation ( )Satellite (sound) ( )Broadcast Services

43) Does the Applicant propose to provide service interconnected to the public telephone network? (N)Yes No

Alien Ownership Questions (If any answer is 'Y", provide an attachment explaining the circumstances. In preparing the attachment, refer to the Main Form Instructions for the "Alien Ownership Questions".)

44) Is the Applicant a foreign government or the representative of any foreign government? (N)Yes No

45) Is the Applicant an alien or the representative of an alien? ( )Yes No

46) Is the Applicant a corporation organized under the laws of any foreign government? ( )Yes No

47) Is the Applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? ( )Yes No

48a) Is the Applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens or their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? ( ) Yes No

48b) If the answer to 47 or 48a is 'Y' select one of the choices below.

☐ The Applicant is exempt from the provisions of Section 310(b).

It is not necessary to file a petition for declaratory ruling if the Applicant includes in the attachment required by Item 47 or Item 48a a showing that the requested license(s) is exempt from the provisions of Section 310(b).

☐ The Applicant has received a declaratory ruling(s) approving its foreign ownership, and the application involves only the acquisition of additional spectrum for the provision of a wireless service in a geographic coverage area for which the Applicant has been previously authorized.

If checked, include in the attachment required by Item 47 or Item 48a the citation(s) of the applicable declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that there has been no change in the foreign ownership of the Applicant since the issuance of its ruling.

☐ The Applicant: (i) has received a declaratory ruling(s) approving its foreign ownership, but is not able to make the certification specified immediately above; or (ii) is an "affiliate" of a Licensee or Lessee/Sublessee that received a declaratory ruling(s) under 47 CFR § 1.990(a) and is relying on the affiliate's ruling for purposes of filing this application as permitted under the affiliate's ruling and 47 CFR § 1.994(b).

If checked, and if the Applicant *received its declaratory ruling(s) on or after August 9, 2013, include in the attachment required by Item 47 or Item 48a the citation(s) of the Applicant's declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that the Applicant is in compliance with the terms and conditions of its ruling and with the Commission's Rules.*

If checked, and if the Applicant received its declaratory ruling(s) prior to August 9, 2013, include in the attachment required by Item 48a a copy of a petition for declaratory ruling filed contemporaneously with the Commission to extend the Applicant's existing ruling(s) to cover the same radio service(s) and geographic coverage area(s) involved in the application. Alternatively, the Applicant may request a new declaratory ruling pursuant to Section 1.990(a) of the Commission's Rules, 47 CFR § 1.990(a). Petitions for declaratory ruling may be filed electronically on the Internet through the International Bureau Filing System (IBFS) (with a copy attached hereto).

If checked, and if the Applicant is relying on an affiliate's ruling for purposes of filing this application, include in the attachment required by Item 47 or Item 48a the citation(s) of the applicable declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that the Applicant is in compliance with the terms and conditions of the named affiliate's ruling and with the Commission's Rules. The Applicant must also include a certification of compliance signed by the named affiliate or other qualified entity as specified in 47 CFR § 1.994(b). See Main Form Instructions for Items 47 or 48a, as applicable.

☐ The Applicant has not received a declaratory ruling approving its foreign ownership and is requesting a declaratory ruling under 47 CFR § 1.990(a) in a petition filed contemporaneously with the Commission.

If checked, include in the attachment required by Item 47 or 48a a copy of the petition for declaratory ruling filed contemporaneously with the Commission pursuant to 47 CFR § 1.990(a). Petitions for declaratory ruling may be filed electronically on the Internet through the International Bureau Filing System (IBFS) (with a copy attached hereto).

Reference Copy

Basic Qualification Questions

49) Has the Applicant or any party to this application had any FCC station authorization, license or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission?	(N)Yes No
50) Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	(N)Yes No
51) Has any court finally adjudged the Applicant or any party directly or indirectly controlling the Applicant guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement, or any other means or unfair methods of competition? If the answer to any of 49-51 is 'Y', attach an exhibit explaining the circumstances.	(N)Yes No

Aeronautical Advisory Station (Unicom) Certification

52) ( ) I certify that the station will be located on property of the airport to be served, and, in cases where the airport does not have a control tower, RCO, or FAA flight service station, that I have notified the owner of the airport and all aviation service organizations located at the airport within ten days prior to application.

Broadband Radio Service and Educational Broadband Service Cable Cross-Ownership

53a) Will the requested facilities be used to provide multichannel video programming service?	( )Yes No
53b) If the answer to question 53a is 'Y', does the Applicant operate, control or have an attributable interest (as defined in 47 CFR § 27.1202) in a cable television system whose franchise area is located within the geographic service area of the requested facilities? **Note: If the answer to question 53b is 'Y'**, attach an exhibit explaining how the Applicant complies with 47 CFR § 27.1202 or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.	( )Yes No

Broadband Radio Service and Educational Broadband Service (Part 27)

54) (For EBS only) Does the Applicant comply with the programming requirements contained in 47 CFR § 27.1203? **Note: If the answer to item 54 is 'N',** attach an exhibit explaining how the Applicant complies with 47 CFR § 27.1203 of the Commission's Rules or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.	( )Yes No
55) (For BRS and EBS) Does the Applicant comply with 47 CFR §§ 27.50, 27.55, and 27.1221? **Note: If the answer to item 55 is 'N',** attach an exhibit justifying a waiver of that rule(s). If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.	( )Yes No

For Applicants Who Participated in an Auction

56) Is the Applicant a qualifying rural wireless partnership or a member of a qualifying rural wireless partnership? ( )Yes No

Note: If the answer to item 56 is 'Y', attach an exhibit listing all members of the qualifying rural wireless partnership, including their FRN numbers.

General Certification Statements

1) The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application.

2) The Applicant certifies that grant of this application would not cause the Applicant to be in violation of any pertinent cross-ownership or attribution rules.*
*If the Applicant has sought a waiver of any such rule in connection with this application, it may make this certification subject to the outcome of the waiver request.

3) The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.

4) The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to § 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under § 1.2002(c) of the rules, 47 CFR § 1.2002(c). *See* 47 CFR § 1.2002(b) for the definition of "party to the application" as used in this certification.

5) The Applicant certifies that it either (1) has current required ownership data on file with the Commission, (2) is filing updated ownership data simultaneously with this application, or (3) is not required to file ownership data under the Commission's Rules.

6) The Applicant certifies that the facilities, operations, and transmitters for which this authorization is hereby requested are either: (1) categorically excluded from routine environmental evaluation for RF exposure as set forth in 47 CFR § 1.1307(b); or, (2) have been found not to cause human exposure to levels of radiofrequency radiation in excess of the limits specified in 47 CFR §§ 1.1310 and 2.1093; or, (3) are the subject of one or more Environmental Assessments filed with the Commission.

7) The Applicant certifies that it has reviewed the appropriate Commission Rules defining eligibility to hold the requested license(s), and is eligible to hold the requested license(s).

8) The Applicant certifies that it is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.

9) The Applicant certifies that the Applicant and all of the related individuals and entities required to be disclosed on this application and FCC Form 602 (FCC Ownership Disclosure Information for the Wireless Telecommunications Services) are not person(s) who have been, for reasons of national security, barred by any agency of the Federal Government from bidding on a contract, participating in an auction, or receiving a grant. This certification applies only to applications for licenses for spectrum that is required by Sections 6103, 6401-6403 of the Middle Class Tax Relief and Job Creation Act of 2012, codified at 47 U.S.C. §§ 309, 1413, 1451-1452, to be assigned by a system of competitive bidding under 47 U.S.C. § 309(j).

Signature

57)Typed or Printed Name of Party Authorized to Sign

First Name:	MI:	Last Name:	Suffix:
Worthy		**Stutler**	

58) Title: **Contractor**

Signature:	59) Date:
Worthy Stutler	**02/14/2020**

FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.

Upon grant of this license application, the Licensee may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in termination of the license. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of license requested in this application.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, § 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, § 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, § 503).

Reference Copy

FCC 601
Schedule I

Technical Data Schedule for the Fixed Microwave and Microwave Broadcast Auxiliary Services (Parts 101 and 74)

Approved by OMB
3060 - 0798
See 601 Main Form Instructions for public burden estimate

Administrative Information

1) Is this application being filed as part of a pack?	(**N**)Yes/No
2a) If the answer to Item 1 is 'Yes', enter the pack identification number (required if the pack identification number has already been assigned by the FCC):	
2b) Pack Name:	
3) Type of Operation (refer to instructions) Check One Only: (**X**)Permanent Fixed Point to Point ( )Multiple Address System (MAS) ( )Temporary Fixed/Mobile ( )Digital Electronic Message Service (DEMS) ( )18 GHz Low Power ( )31 GHz ( )38 GHz	4) Station Class: **FXO** 5) DEMS only: SMSA:
6) If this request is for a Modification, Renewal/Modification, or Amendment of a currently pending application, does it, along with all minor Modification or Amendment requests filed since you applied for a new authorization or since the last major action was granted by the Commission, produce a cumulative effect that would equal or exceed the criteria for a major filing?	( )Yes/No
7) Has frequency coordination been completed for this application?	(**Y**)Yes/No

Frequency Coordinator Information

Complete Items 8 through 11 if not self-coordinated

8) Frequency Coordination Number	9) Name of Frequency Coordinator	10) Telephone Number	11) Coordination Date
M1918402	**Micronet**	**(972)422-7200**	**08/20/2019**

Broadcast Auxiliary Only

If there is an associated Parent Station, provide:	12a) Facility Id of Parent Station:	12b) Radio Service of Parent Station:	12c) City and State of Parent Station Principal Community:

If there is no associated parent station, applicant certifies that it is a Broadcast Network Entity and completes Item 13.	13) State of Primary Operation:

Control Point (Technical Point of Contact)

14) Action **A/M**	15) Location Street Address, City or Town, County/Borough/Parish, State	16) Telephone Number

Reference Copy

FCC 601
Schedule I
Supplement 1

Location Data

1) Action Requested: (**A**) **A**dd **M**od **D**el		2) Location Number: **1**
3) Location Description: **T Transmit Location**	4) Area of Operation Code:	5) Location Name: **Cherryvale**
6) FCC Antenna Structure Registration Number, FCC 854 File Number or N/A: **1029481**		
7) Latitude (DD-MM-SS.S): **37-15-03.0** **NAD83** (**N**) N or S		8) Longitude (DDD-MM-SS.S): **095-31-07.0** **NAD83** (**W**) E or W
9) Street Address, Name of Landing Area, or Other Location Description: **1.6 KM SOUTH AND 1.6 KM EAST OF CHERRYVALE**		
10) City: **CHERRYVALE**	11) State: **KS**	12) County/Borough/Parish: **MONTGOMERY**
13) Elevation of Site AMSL (meters) ('a' in antenna structure example): **259.4**	14) Overall Ht AGL Without Appurtenances (meters) ('b' in antenna structure example): **89.9**	15) Overall Ht AGL With Appurtenances (meters) ('c' in antenna structure example): **90.8**
16) Support Structure Type: **GTOWER**		
17) Radius (km):		
18) Maximum Latitude (DD-MM-SS.S): **Use for rectangle only (Northwest corner)** **NAD83** ( ) N or S **- -**		19) Maximum Longitude (DDD-MM-SS.S): **Use for rectangle only (Northwest corner)** **NAD83** ( ) E or W **- -**
20) Do you propose to operate in an area that requires frequency coordination with Canada? ( ) **Y**es **N**o		
21) Description: (only for Area of Operation Code 'O')		
22) Would Commission grant of Authorization for this location be an action which may have a significant environmental effect? See Section 1.1307 of 47 CFR. If 'Yes', submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. ( ) **Y**es **N**o **N**		
23a) If the site is located in one of the Quiet Zones listed in Item 23b of the Instructions, provide the date (mm/dd/yyyy) that the proper Quiet Zone entity was notified: ____/____/____		
23b) Has the Applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application? ( ) **Y**es **N**o		
24) Do you propose to operate in an area that requires frequency coordination with Mexico? ( ) **Y**es **N**o		

Reference Copy

FCC 601
Schedule I
Supplement 1

Location Data

1) Action Requested: (**A**) **A**dd **M**od **D**el		2) Location Number: **2**
3) Location Description: **R Receive Location**	4) Area of Operation Code:	5) Location Name: **Caney**
6) FCC Antenna Structure Registration Number, FCC 854 File Number or N/A:		
7) Latitude (DD-MM-SS.S): **37-02-12.8** **NAD83** (**N**) N or S		8) Longitude (DDD-MM-SS.S): **095-53-35.6** **NAD83** (**W**) E or W
9) Street Address, Name of Landing Area, or Other Location Description:		
10) City:	11) State:	12) County/Borough/Parish:
13) Elevation of Site AMSL (meters) ('a' in antenna structure example): **248.5**	14) Overall Ht AGL Without Appurtenances (meters) ('b' in antenna structure example):	15) Overall Ht AGL With Appurtenances (meters) ('c' in antenna structure example):
16) Support Structure Type:		
17) Radius (km):		
18) Maximum Latitude (DD-MM-SS.S): **Use for rectangle only (Northwest corner)** **NAD83** ( ) N or S **- -**		19) Maximum Longitude (DDD-MM-SS.S): **Use for rectangle only (Northwest corner)** **NAD83** ( ) E or W **- -**
20) Do you propose to operate in an area that requires frequency coordination with Canada? ( ) **Y**es **N**o		
21) Description: (only for Area of Operation Code 'O')		
22) Would Commission grant of Authorization for this location be an action which may have a significant environmental effect? See Section 1.1307 of 47 CFR. If 'Yes', submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. ( ) **Y**es **N**o		
23a) If the site is located in one of the Quiet Zones listed in Item 23b of the Instructions, provide the date (mm/dd/yyyy) that the proper Quiet Zone entity was notified: ____/____/____ 23b) Has the Applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application? ( ) **Y**es **N**o		
24) Do you propose to operate in an area that requires frequency coordination with Mexico? ( ) **Y**es **N**o		

Reference Copy

FCC 601
Schedule I
Supplement 1

Location Data

1) Action Requested: (**A**) **A**dd **M**od **D**el		2) Location Number: **3**
3) Location Description: **R Receive Location**	4) Area of Operation Code:	5) Location Name: **Independence SC**
6) FCC Antenna Structure Registration Number, FCC 854 File Number or N/A:		
7) Latitude (DD-MM-SS.S): **37-13-21.9** **NAD83** (**N**) N or S		8) Longitude (DDD-MM-SS.S): **095-41-31.0** **NAD83** (**W**) E or W
9) Street Address, Name of Landing Area, or Other Location Description:		
10) City:	11) State:	12) County/Borough/Parish:
13) Elevation of Site AMSL (meters) ('a' in antenna structure example): **236.2**	14) Overall Ht AGL Without Appurtenances (meters) ('b' in antenna structure example):	15) Overall Ht AGL With Appurtenances (meters) ('c' in antenna structure example):
16) Support Structure Type:		
17) Radius (km):		
18) Maximum Latitude (DD-MM-SS.S): **Use for rectangle only (Northwest corner)** **NAD83** ( ) N or S **- -**		19) Maximum Longitude (DDD-MM-SS.S): **Use for rectangle only (Northwest corner)** **NAD83** ( ) E or W **- -**
20) Do you propose to operate in an area that requires frequency coordination with Canada? ( ) **Y**es **N**o		
21) Description: (only for Area of Operation Code 'O')		
22) Would Commission grant of Authorization for this location be an action which may have a significant environmental effect? See Section 1.1307 of 47 CFR. If 'Yes', submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. ( ) **Y**es **N**o		
23a) If the site is located in one of the Quiet Zones listed in Item 23b of the Instructions, provide the date (mm/dd/yyyy) that the proper Quiet Zone entity was notified: ____/____/____ 23b) Has the Applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application? ( ) **Y**es **N**o		
24) Do you propose to operate in an area that requires frequency coordination with Mexico? ( ) **Y**es **N**o		

Reference Copy

FCC 601
Schedule I
Supplement 2 **Path Data**

Transmit Location

1) Transmit location name: **Cherryvale**	2) Path number: **1**
3) Action Requested: (**A**) **A**dd New Path **M**odify Existing Path **D**elete Existing Path	
4a) For MAS or DEMS only, MAS or DEMS Sub-Type of Operation (Enter only one per path): **MAS or DEMS** ( )Fixed Two-way Master-Remote/Nodal-User ( )Multiple Two-way Master-Remote/Nodal-User **MAS ONLY** ( )Fixed One-way Outbound Master ( )Multiple One-way Outbound Master ( )Fixed One-way Inbound Master ( )Mobile Master	4b) Path code (Enter only one per path): **MAS** ( ) Master to Remote ( ) Remote to Master **DEMS** ( )Nodal to User ( )User to Nodal

Transmit Antenna

5) Antenna Manufacturer: **Commscope**	6) Antenna Model Number: **VHPX8-6W**	
7) Height to Center of Antenna AGL (meters): **82.3**	8) Beamwidth (degrees): **1.4**	9) Antenna Gain (dBi): **42.1**
10) Diversity Antenna Height AGL (meters): **73.2**	11) Diversity Beamwidth (degrees): **2.9**	12) Diversity Antenna Gain (dBi): **35.0**
13) Elevation (Tilt) Angle (degrees):	14) Polarization: **V**	15) Azimuth to RX Location or Passive Repeater (degrees): **234.6**
16) Periscope Reflector Dimensions (meters): Height: Width:	17) Periscope Reflector Separation (meters):	
18) If the final receiver is located outside of the United States, enter the country in the space provided and attach an exhibit explaining circumstances.		
19) Does this path include passive repeater? (**N**)**Y**es **N**o		
20) Does this filing add or modify emanations in the 5925 - 7075 MHz band pointing within 2 degrees of the Geostationary Satellite Arc with EIRP greater than 65 dBm, or in the 12700 - 13250 MHz band pointing within 1.5 degrees of the Geostationary Satellite Arc with EIRP greater than 75 dBm? (**N**)**Y**es **N**o If 'Yes', answer the following questions below and attach waiver request explaining circumstances. 20a) Angular Separation between main beam and Geostationary Satellite Arc (degrees). Include Orbital Calculations in the wavier exhibit. _____ 20b) Does the Applicant certify that there is no alternative to the proposed transmission path? ( )**Y**es **N**o 20c) Does the Applicant certify that the proposed operation will not cause interference to an authorized satellite system? ( )**Y**es **N**o		

Final Receiver

21) Receiver Location Name: **Caney**		
22) Receiver antenna manufacturer: **Commscope**	23) Receiver antenna model number: **VHPX8-6W**	
24) Receiver Call Sign:		
25) Height to Center of RX Antenna AGL (meters): **79.2**	26) RX Antenna Beamwidth (degrees): **1.4**	27) RX Antenna Gain (dBi): **42.1**
28) Diversity RX Antenna Height AGL (meters): **70.1**	29) Diversity RX Antenna Beamwidth (degrees): **2.9**	30) Diversity RX Antenna Gain (dBi): **35.0**
31) RX Periscope Reflector Dimensions (meters): Height: Width:	32) RX Periscope Reflector Separation (meters):	

Reference Copy

FCC 601
Schedule I
Supplement 2 **Path Data**

Transmit Location

1) Transmit location name: **Cherryvale**	2) Path number: **2**
3) Action Requested: (**A**) **A**dd New Path **M**odify Existing Path **D**elete Existing Path	
4a) For MAS or DEMS only, MAS or DEMS Sub-Type of Operation (Enter only one per path): **MAS or DEMS** ( )Fixed Two-way Master-Remote/Nodal-User ( )Multiple Two-way Master-Remote/Nodal-User **MAS ONLY** ( )Fixed One-way Outbound Master ( )Multiple One-way Outbound Master ( )Fixed One-way Inbound Master ( )Mobile Master	4b) Path code (Enter only one per path): **MAS** ( ) Master to Remote ( ) Remote to Master **DEMS** ( )Nodal to User ( )User to Nodal

Transmit Antenna

5) Antenna Manufacturer: **Commscope**	6) Antenna Model Number: **SHP3-6W**	
7) Height to Center of Antenna AGL (meters): **82.3**	8) Beamwidth (degrees): **3.3**	9) Antenna Gain (dBi): **33.6**
10) Diversity Antenna Height AGL (meters):	11) Diversity Beamwidth (degrees):	12) Diversity Antenna Gain (dBi):
13) Elevation (Tilt) Angle (degrees):	14) Polarization: **V**	15) Azimuth to RX Location or Passive Repeater (degrees): **258.6**
16) Periscope Reflector Dimensions (meters): Height: Width:	17) Periscope Reflector Separation (meters):	
18) If the final receiver is located outside of the United States, enter the country in the space provided and attach an exhibit explaining circumstances.		
19) Does this path include passive repeater? (**N**)**Y**es **N**o		
20) Does this filing add or modify emanations in the 5925 - 7075 MHz band pointing within 2 degrees of the Geostationary Satellite Arc with EIRP greater than 65 dBm, or in the 12700 - 13250 MHz band pointing within 1.5 degrees of the Geostationary Satellite Arc with EIRP greater than 75 dBm? (**N**)**Y**es **N**o If 'Yes', answer the following questions below and attach waiver request explaining circumstances. 20a) Angular Separation between main beam and Geostationary Satellite Arc (degrees). Include Orbital Calculations in the wavier exhibit. _____ 20b) Does the Applicant certify that there is no alternative to the proposed transmission path? ( )**Y**es **N**o 20c) Does the Applicant certify that the proposed operation will not cause interference to an authorized satellite system? ( )**Y**es **N**o		

Final Receiver

21) Receiver Location Name: **Independence SC**		
22) Receiver antenna manufacturer: **Commscope**	23) Receiver antenna model number: **SHP3-6W**	
24) Receiver Call Sign:		
25) Height to Center of RX Antenna AGL (meters): **21.3**	26) RX Antenna Beamwidth (degrees): **3.3**	27) RX Antenna Gain (dBi): **33.6**
28) Diversity RX Antenna Height AGL (meters):	29) Diversity RX Antenna Beamwidth (degrees):	30) Diversity RX Antenna Gain (dBi):
31) RX Periscope Reflector Dimensions (meters): Height: Width:	32) RX Periscope Reflector Separation (meters):	

Reference Copy

Passive Repeaters (PR)

Transmit Location

1) Transmit Location Name:	2) Path Number:

3) Action Requested: ( ) **A**dd New Passive Repeater **M**odify Existing Passive Repeater **D**elete Existing Passive Repeater

Passive Repeater Information

4) Passive Repeater Id: ( )	5) Passive Repeater Sequence Number: ( )	
6) Passive Repeater Location Name:		
7) Passive Repeater Antenna Manufacturer:	8) Passive Repeater Antenna Model Number:	
9) Height to Center of Passive Repeater Antenna AGL (meters)**:**	10) Back-to-Back RX Dish Gain (dBi)**:**	11) Back-to-Back TX Dish Gain (dBi)**:**
12) Reflector Dimensions (meters): Height**:** Width**:**	13) Transmit Polarization**:**	14) Azimuth to RX Location or Next Passive Repeater:

Reference Copy

Supplement 4

Frequency Data

Transmitter Location Information

1) Transmit Location Name: **Cherryvale**	2) Path Number: **1**

Frequency Information

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**71.0**	**30M0D7W (A)**	**43000.0**	**QAM4**
	New **005974.85000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**71.0**	**30M0D7W (A)**	**90000.0**	**QAM16**
	New **005974.85000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

Reference Copy

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**71.0**	**30M0D7W (A)**	**113000.0**	**QAM32**
	New **005974.85000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**71.0**	**30M0D7W (A)**	**136000.0**	**QAM64**
	New **005974.85000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

Reference Copy

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**71.0**	**30M0D7W (A)**	**161000.0**	**QAM128**
	New **005974.85000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**71.0**	**30M0D7W (A)**	**183000.0**	**QAM256**
	New **005974.85000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

Reference Copy

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**71.0**	**30M0D7W (A)**	**206000.0**	**QAM512**
	New **005974.85000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

1) Transmit Location Name: **Cherryvale**	2) Path Number: **2**

Frequency Information

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**61.9**	**30M0D7W (A)**	**43000.0**	**QAM4**
	New **005945.20000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

Reference Copy

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**61.9**	**30M0D7W (A)**	**90000.0**	**QAM16**
	New **005945.20000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**61.9**	**30M0D7W (A)**	**113000.0**	**QAM32**
	New **005945.20000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

Reference Copy

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**61.9**	**30M0D7W (A)**	**136000.0**	**QAM64**
	New **005945.20000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**61.9**	**30M0D7W (A)**	**161000.0**	**QAM128**
	New **005945.20000000**						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			
	Nokia		**95MPR61-L 512A30-206 SP AM**	**N**			

Reference Copy

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
A	**Existing (if mod)**		**0.00100**	**61.9**	**30M0D7W (A)**	**183000.0**	**QAM256**
	New **005945.20000000**						

11) Transmitter Manufacturer	12) Transmitter Model	13) Automatic Transmitter Power Control
Nokia	**95MPR61-L 512A30-206 SP AM**	**N**

Reference Copy

Attachment(s):

Type	Description	Date Entered
O	SUPPLEMENTAL SHOWING PART 101.103(d)	02/14/2020

WLS TECHNICAL SERVICES, CORP.

Date: 04/03/2020

Regarding the microwave transmission station located at Evergy's Independence Service Center, 1101 E. Main, Independence, KS 67301. The transmission power of the Independence station will be 34.7 dBW, 20.3 dBW below the maximum allowable equivalent isotopically radiated power (EIRP) of +55 dBW mandated by the FCC Rule for fixed microwave services, 47 CRF § 101.113 - Transmitter power limitations.

Sincerely,

J.J. Stutler - President
WLS Technical Services, Corp.

WLSTS

10473 W. Hwy 56
Osage City, KS 66523

PHONE 620-794-8378
EMAIL jj@wlsts.com
WEBSITE www.wlsts.com

Kansas Blue Print Co.

General Warranty Deed

This Indenture, Made this 25th day of January, A. D., 19 51, between Evaline Mason Howes, a widow, of Cook County, in the State of Illinois, and Eugenia Mason Miner and Elmer A. Miner, her husband.

of Montgomery County, in the State of Kansas of the first part, and KANSAS GAS AND ELECTRIC COMPANY, a corporation

of Sedgwick County, in the State of Kansas of the second part.

WITNESSETH, That the said parties of the first part, in consideration of the sum of Five Thousand ($5000.00) - DOLLARS, the receipt whereof is hereby acknowledged, do by these presents grant, bargain, sell and convey unto the said party of the second part its successors ~~heirs~~ and assigns all the following-described REAL ESTATE, situated in the County of Montgomery and State of Kansas, to-wit:

Commencing at the northwest corner of section thirty-two (32), township thirty-two (32) south, range sixteen (16) east, thence south seven hundred eighty-four and five tenths (784.5) feet to point of beginning, said point of beginning being forty (40) feet south of the intersection of the center lines of Main and Cement streets as platted in the city of Independence, thence east three hundred ninety-two and one tenth (392.1) feet, thence south parallel to the west line of said section thirty-two (32) four hundred seventy-five and twenty-seven hundredths (475.27) feet more or less to a point thirteen hundred sixty-nine and thirty-three hundredths (1369.33) feet north of the south line of the northwest quarter of said section thirty-two (32), thence west three hundred ninety-two and one tenth (392.1) feet more or less to the west line of said section thirty-two (32), thence north on said west line of said section thirty-two (32) four hundred seventy-five and twenty-seven hundredths (475.27) feet more or less to point of beginning.

4.35.9.

E-734-1

TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining forever.

And said Evaline Mason Howes, Eugenia Mason Miner and Elmer A. Miner for themselves and for their heirs, executors, or administrators, do hereby covenant, promise and agree to and with said party of the second part, that at the delivery of these presents they are lawfully seized in their own right, of an absolute and indefeasible estate of inheritance, in fee simple, of and in all and singular the above-granted and -described premises, with the appurtenances; that the same are free, clear, discharged and unincumbered of and from all former and other grants, titles, charges, estates, judgments, taxes, assessments and incumbrances of what nature and kind soever:

and that they will WARRANT AND FOREVER DEFEND the same unto said party of the second part, its successors ~~heirs~~ and assigns, against said parties of the first part their heirs, and all and every person or persons whomsoever lawfully claiming or to claim the same.

IN WITNESS WHEREOF, The said parties of the first part have hereunto set their hands the day and year first above written.

Evaline Mason Howes

Eugenia Mason Miner

Elmer A. Miner

ILLINOIS
STATE OF ~~KANSAS~~
COOK County, } ss.

BE IT REMEMBERED, That on this 19th day of January, A. D., 19 51, before me the undersigned, a Notary Public in and for the County and State aforesaid, came Evaline Mason Howes, a widow

who is personally known to me to be the same person who executed the within instrument of writing and such person duly acknowledged the execution of the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year above written.

Mabel Wollman
Notary Public.

My Commission Expires December 22, 1952

Term expires, 19

STATE OF KANSAS)
) ss.
MONTGOMERY COUNTY)

Be it Remembered, That on this 25th day of January, A.D., 1951, before me the undersigned, a Notary Public in and for the County and State aforesaid, came Eugenia Mason Miner and Elmer A. Miner, her husband who are personally known to me to be the same persons who executed the within instrument of writing and such persons duly acknowledged the execution of the same.

In Testimony Whereof, I have hereunto set my hand and affixed my official seal the day and year above written.

Ernest Russell
Notary Public

My Term expires April 5th, 1951

WARRANTY DEED
GENERAL FORM

FROM
Evaline Mason Howes, et al

TO
KANSAS GAS & ELECTRIC CO.

Entered in Transfer Record in my office this 8 day of Feb., A. D., 19 51.
Viola Ding, County Clerk.

STATE OF KANSAS } ss.
Montgomery County,

This instrument was filed for record on the 8 day of Feb., A. D., 19 51, at 2:15 o'clock P. M., and duly recorded in book 243 of Deeds at page 564.
Register of Deeds.
Deputy.
Fees, $

THE KANSAS BLUE PRINT CO.
141 NORTH MARKET ST., WICHITA, KANSAS
Phone 262 Service—Up-to-Date Gill Maps

Jess Guy, Tax & Claim Agent
K.G. & E. Wichita, Ks.

FORM No. 1112—Class E — Demaree Stationery Co., 308 Walnut St., Kansas City, Mo.

Kansas Quit-Claim Deed

CORPORATION

This Indenture, *Made this* 8th *day of* April *A. D., 19* 60 *between*

KANSAS GAS AND ELECTRIC COMPANY

a corporation duly organized, incorporated, and existing under and by virtue of the laws of the State of West Virginia *, and having its principal place of business at* Wichita, Sedgwick County, *in the State of* Kansas *, of the first part, and* THE STATE HIGHWAY COMMISSION OF KANSAS

of Shawnee *County, in the State of* Kansas *, of the second part,*

WITNESSETH, THAT THE SAID PARTY OF THE FIRST PART, in consideration of the sum of One Dollar ($1.00) and other good and valuable consideration ~~DOLLARS~~ *to* it *duly paid, has sold, and by these presents do Remise, Release and Quitclaim unto the said party of the second part,* its ~~heirs~~ successors *and assigns, forever, all that tract or parcel of land situated in the County of* Montgomery *and State of Kansas, and described as follows, to-wit:*

A tract of land in the Northwest Quarter of Section 32, Township 32 South, Range 16 East described as follows: BEGINNING at a point on the West line 784.5 feet South of the Northwest corner of said Quarter Section; thence East 392.1 feet; thence South parallel to the West line of said Section 20.0 feet; thence West to the West line of said Quarter Section; thence North along said West line to the place of beginning. The above contains 0.17 acre, more or less, exclusive of the existing highway,

with the appurtenances, and all the estate, title, and interest of the said party of the first part therein.

TO HAVE AND TO HOLD, all and singular, the above-described premises, together with the appurtenances, unto the said party of the second part, its ~~heirs~~ successors *and assigns, forever.*

IN WITNESS WHEREOF, The said party of the first part has hereunto caused this Deed to be signed on its behalf, by its President, thereunto duly authorized so to do, and to be attested by its Secretary, and has caused its common seal to be hereunto affixed, the day and year last above written.

KANSAS GAS AND ELECTRIC COMPANY

By G. W. Evans *President.*

Attest: Nehll Richards, *Secretary.*

KANSAS CORPORATION ACKNOWLEDGMENT

STATE OF Kansas
County of Sedgwick } ss.

BE IT REMEMBERED, That on this 8th day of April A. D. 19 60, before me, the undersigned, a Notary Public in and for the County and State aforesaid, came C. W. Evans President of the KANSAS GAS AND ELECTRIC COMPANY a corporation duly organized, incorporated and existing under and by virtue of the laws of West Virginia and Neill Richards Secretary of said corporation, who are personally known to me to be such officers, and who are personally known to me to be the same persons who executed, as such officers, the within instrument on behalf of said corporation, and such persons duly acknowledged the execution of the same to be the act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year last above written.

My commission expires September 25, 19 61

Virginia Collins
Notary Public.

Quit-Claim Deed

FROM

TO

Entered in Transfer Record in my office this ..... 19..

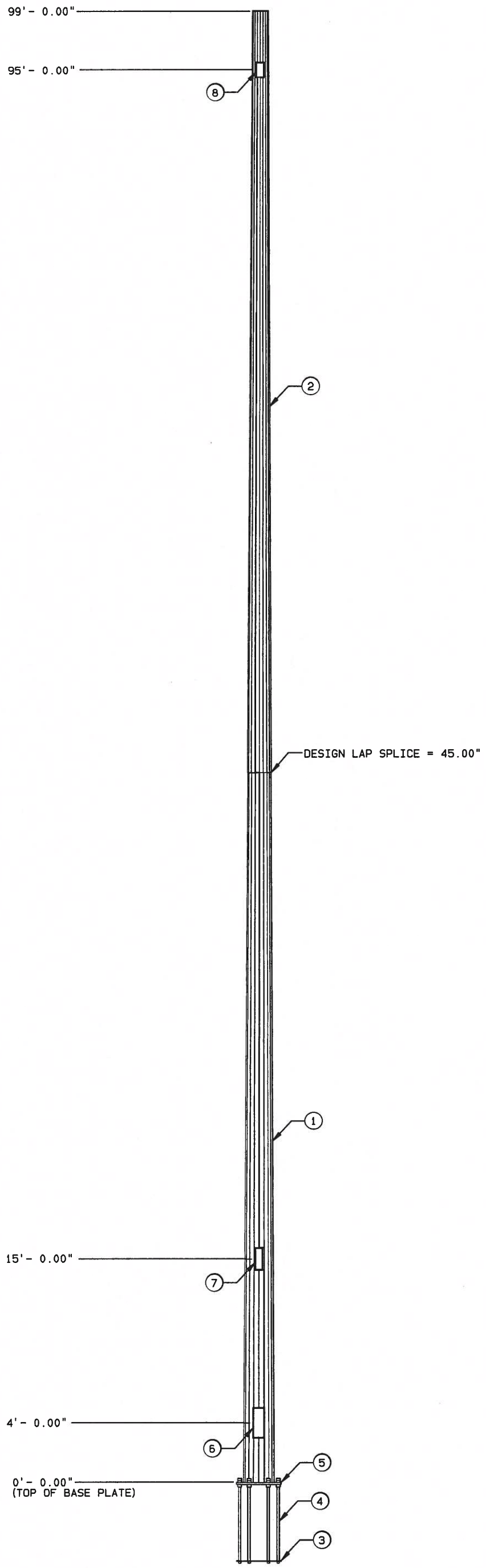
..... County Clerk

STATE OF KANSAS, } ss.
..... County, }

Received for Record on the ..... day of ..... 19..., at ..... o'clock ..... M., and duly Recorded in Book ..... of ..... at Page .....

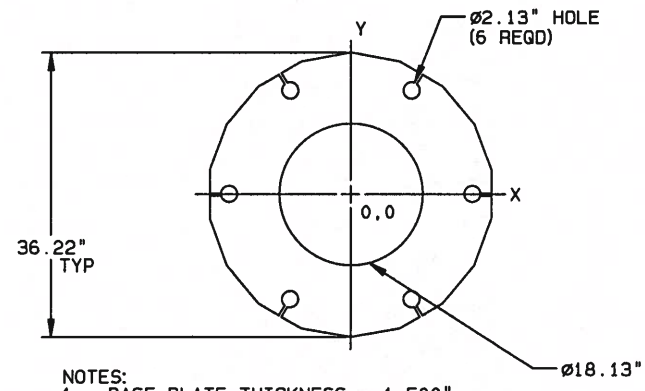
..... Register of Deeds.

Fee, $.....



ITEM ID	NO. REQD	FEATURES	UNIT WEIGHT (LBS)	WEIGHT (LBS)
1	1	SECTION A VALMONT S-22 0.188" THK (A572 GR65)	2,187	2,187
2	1	SECTION B VALMONT S-22 0.188" THK (A572 GR65)	1,597	1,597
3	1	BOTTOM CAGE PLATE	63	63
4	6	1.75" ANCHOR BOLT, LENGTH=5.50' A615 GR75	64	381
5	1	BASE PLATE VALMONT S-56 1.500" THK (A572 GR50)	290	290
	1	TOP CAGE PLATE (REMOVE BEFORE SETTING POLE)	83	83
	1	SAFETY CLIMBING CABLE (LENGTH = 89.00')	83	83
	3	GROUNDING LUG	2	6
		GALVANIZING	144	144
	70	STEP AND CLIP (VALMONT STANDARD)	1	35
6	1	HAND HOLE STD (9" x 24")	48	48
7	1	HAND HOLE STD (6" x 18")	18	18
8	2	HAND HOLE STD (6" x 12")	22	44
	1	POLE CAP	10	10

HOLE COORDS (INCHES)	
X-COORD	Y-COORD
15.38	0.00
7.69	13.32



NOTES:
1. BASE PLATE THICKNESS = 1.500"
2. BASE PLATE ALLOWABLE STRESS (KSI) = 50
3. ANGLES ARE MEASURED CLOCKWISE FROM 0 DEGREES
4. BOLT CIRCLE DIAMETER = 30.75"
5. CAGE TEMPLATE DIAMETER = 34.25"

BASE PLATE / ANCHORAGE CHARACTERISTICS

NOTES:

1. FACTORED REACTIONS FOR FOUNDATION DESIGN.
   MOMENT = 3,054 IN-KIPS
   SHEAR = 4,205 #
   VERTICAL = 5,293 #
2. GALVANIZED PER ASTM A-123.
3. DESIGN CRITERIA: ANSI/TIA 222-G ADDENDUM 2
4. THIS STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING LOADING:
   EXPOSURE CATEGORY = C
   STRUCTURE CLASSIFICATION = 2
   TOPOGRAPHY CATEGORY = 1
   WIND LOAD CASES ARE BASED ON 3 SECOND GUST AND 50 YEAR WIND RETURN PERIOD
   A. CASE 1: WIND = 89 MPH WIND SPEED
   B. CASE 2: WIND = 40 MPH ICE AND WIND SPEED
      DESIGN ICE THICKNESS = 1.00 INCH
   C. CASE 3: WIND = 60 MPH WIND SPEED
   D. EQUIPMENT

DESCRIPTION	ABP MTG HT. (FT)	ABP CENTROID HT. (FT)	WITHOUT ICE EPA (FT**2)	WITHOUT ICE WT (LBS)	WITH ICE EPA (FT**2)	WITH ICE WT (LBS)
1-3' HP DISH(6GHZ)	98.00	98.00	9.97	136	13.12	344
1-WHIP (3" X 18')	98.00	107.00	7.78	87	19.42	481
1-24" STANDOFF	98.00	98.00	2.30	29	4.13	141

5. FEEDLINES ARE PLACED INTERIOR TO POLE SHAFT (UNLESS NOTED OTHERWISE).
6. TOTAL POLE HEIGHT IS 100 FT AGL.
7. ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE (APPROX. 1 FT AGL).
8. 18 SIDED SHAFT

JEFFREY E. GRASSMAN
LICENSED
13446
KANSAS
PROFESSIONAL ENGINEER
4/24/20

SECTION INFORMATION

ITEM ID	LENGTH	BASE OD	TOP OD	THK	MATL
1	51'- 6.00"	24.50"	18.06"	0.188"	A572 65 KSI
2	51'- 3.00"	18.91"	12.50"	0.188"	A572 65 KSI

ORDER	PROJECT	FILE ID	SCALE	DATE	ENGR
442945		442945-P1	NONE	04/22/20	YZ70

DESCRIPTION
HAYDEN TOWERS 99.0' POLE, SITE: INDEPENDENCE, KS 442945

valmont

Valmont Microflect
3575 25th St. SE
Salem, Oregon 97302 USA
1-800-547-2151

Communication Structure Calculations
for
Hayden Towers
Independence, KS

442945-P1

Wednesday, 22 April 2020

Prepared By:
Yatong Zeng

Reviewed By:
NAR

JEFFREY E. GRASSMAN
LICENSED
13446
KANSAS
PROFESSIONAL ENGINEER
4/24/20

Proprietary Information
These documents, drawings and/or calculations and all information related to them are the exclusive property and the proprietary information of Valmont Industries, Inc. and are furnished solely upon the conditions that they will be retained in strictest confidence and shall not be duplicated, used or disclosed in whole or in part for any purpose, in any way, without the prior written permission of Valmont Industries, Inc.

Valmont Microflect
3575 25th St. SE
Salem, Oregon 97302 USA
1-800-547-2151

Table Of Contents

PROJECT SUMMARY……....S1-S3

HAYDEN TOWERS 99.0' POLE, SITE: INDEPENDENCE, KS 442945 1

Proprietary Information
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Valmont Industries, Inc.
Project Summary
Hayden Towers
442945

			Anchor Bolts			Shaft Diameters			Weight (lb)								Global Base Reactions For Pole Shaft Governing Load Case				
Structure Identifier	Pole Height (ft)	Emb. Length (ft)	Max Bolt Circle (in)	Anchor Bolt Length (in)	Qty	Base (in)	Ground Line (in)	Top (in)	Sect A	Sect B	Sect C	Sect D	Sect E	Sect F	Base Plate	Anchor Bolts	Load Case Identifier	Moment (in-kip)	Shear (kips)	Axial (kips)	Max Defl (in)
442945-P1	99.00	----	30.75	66	6	24.50	24.50	12.50	2187	1597	----	----	----	----	290	380	WIND	3054	4.2	5.0	59

Valmont Industries, Inc.
Project Summary
Hayden Towers
442945

Structure Identifier	Shaft Yield Stress (ksi)	Shaft Taper (in/ft)	Shaft Shape	Anchor Bolt Diameter (in)	Base Plate Width/ Length (in)	Base Plate Thickness (in)	Camber (in)	Length (ft)						Thickness (in)					
								Sect A	Sect B	Sect C	Sect D	Sect E	Sect F	Sect A	Sect B	Sect C	Sect D	Sect E	Sect F
442945-P1	65	0.125	18	1.75	35.67	1.50	0.0	51.50	51.25	----	----	----	----	0.188	0.188	----	----	----	----

Valmont Industries, Inc.
Project Summary
Hayden Towers
442945

	Section Data																
Structure Identifier	"A" Base Diameter (in)	"A" Top Diameter (in)	"B" Base Diameter (in)	"B" Top Diameter (in)	"C" Base Diameter (in)	"C" Top Diameter (in)	"D" Base Diameter (in)	"D" Top Diameter (in)	"E" Base Diameter (in)	"E" Top Diameter (in)	"F" Base Diameter (in)	"F" Top Diameter (in)	"A"-"B" Joint Type	"B"-"C" Joint Type	"C"-"D" Joint Type	"D"-"E" Joint Type	"E"-"F" Joint Type
442945-P1	24.50	18.06	18.91	12.50	----	----	----	----	----	----	----	----	Slip Joint		----	----	----

Valmont Industries, Inc.
Engineering Data

*** OVERVIEW ***

1. Structure design conforms to TIA-222-G Addendum 2 including:
   89 mph Wind Speed (3 second gust, 50 year return period)
   40 mph Ice Wind (50 year return period)
   1.00 in ice thickness
   60.0 mph Basic Wind Speed with no ice for twist and sway
   Exposure Category C
   Structure Classification II
   Topographic Category 1
2. Feedlines are assumed to be placed interior to the pole
3. All microwave assumed to be 2 GHz unless otherwise noted
4. Total pole height is 100.0 ft agl
5. Elevations are measured from top of base plate (approximately 1.0 ft agl)

*** Structure Anchorage Information ***

Pole Height (ft):	99.0	Number of Anchor Bolts:	6
Bolt Circle (in):	30.75	Diameter of Anchor Bolts (in):	1.75
Base Shear (lbs):	4204	Length of Anchor Bolts (in):	66.00
Base Vertical (lbs):	5294	Projection Length (in):	8.50
Base Moment (in-kips):	3053	Template OD (in):	34.25

*** Loading Data***

			Without Ice		With Ice	
Qty	Description	ABP Height (ft)	EPA (ft^2)	Weight (lbs)	EPA (ft^2)	Weight (lbs)
1	3' HP DISH (W/PM)(6GHz)	98.00	9.97	136	13.12	344
1	WHIP (3" X 18') (W/PM)	98.00	7.78	87	19.42	481
1	24" STANDOFF	98.00	2.30	29	4.13	141

BY VALMONT INDUSTRIES FOR: HAYDEN TOWERS 99.0' POLE, SITE: INDEPENDENCE, KS 44294 DATE 04/22/2020
Design Id: 442945-P1 IMPAX 23.1.24.6

*** SUMMARY ***

Design Code: TIA-222-G Addendum 2

---------- DESIGN SUMMARY ----------

Height Above Base Plate	99'- 0.00"	Ground Line Diameter (in)	24.500	Pole Shaft Weight (lbs)	3784
		Top Diameter (in)	12.500		
		Pole Taper (in/ft)	0.12500	Shape:	18 Sides

Connections Between Sections /First/

Height Above Ground	51'- 6.00"
Type	Slip Joint
Overlap Length (in)	45
Maximum Axial Force (lbs)	4830

Section Characteristics	/First/	/Second/
Base Diameter (in)	24.500	18.906
Top Diameter (in)	18.063	12.500
Thickness (in)	0.18750	0.18750
Length	51'- 6.00"	51'- 3.00"
Weight (lbs)	2187	1597
Yield Strength (ksi)	65.00	65.00
Section Shape	18 Sides	18 Sides

---------- ANALYSIS SUMMARY ----------

	Pt. of Fixity	Governing Level Sec.1	Governing Level Sec.2	Pole Top
Governing Load Case	WIND	WIND	WIND	WIND
Height (ft)	0.00	0.00	51.50	99.00
Resultant Moment (in-kips)	3053	3053	971	0
Shear Force (lbs)	4216	4216	2475	0
Axial Force (lbs)	4993	4993	2021	0
Effective Yield Strength (ksi)	76.38	76.38	82.55	82.55
Combined Interaction Value	0.52	0.52	0.27	0.00
Total Deflection (in)	0.00	0.00	17.89	59.05

Note: Diameters are outside, measured across the flats
Forces and moments are reported in the local element coordinate system

BY VALMONT INDUSTRIES FOR: HAYDEN TOWERS 99.0' POLE, SITE: INDEPENDENCE, KS 44294 DATE 04/22/2020
Design Id: 442945-P1 IMPAX 23.1.24.6

*** POLE SHAFT POINT OF FIXITY REACTIONS ***

Loading Case Identifier	Moments About X-Axis (in-kips)	Moments About Y-Axis (in-kips)	Moments Resultant (X & Y) (in-kips)	Moments Torsional (in-kips)	Vertical Force (lbs)	Shear In X-Direction (lbs)	Shear In Y-Direction (lbs)	Shear Resultant (X & Y) (lbs)	Notes
WIND	2339	-1963	3053	9	5003	2703	3221	4204	
ICE + WIND	714	-599	932	3	10337	775	924	1206	
T+S	594	-498	775	2	4046	688	820	1071	

Note: Positive vertical force is downward.
Reactions are considered in the global coordinate system.

BY VALMONT INDUSTRIES FOR: HAYDEN TOWERS 99.0' POLE, SITE: INDEPENDENCE, KS 44294 DATE 04/22/2020
Design Id: 442945-P1 IMPAX 23.1.24.6

*** INPUT LOADS ***

Design Code TIA-222-G Addendum 2
Loading Case WIND

Basic Wind Velocity is 89.00 mph Ice Thickness 0.00
Wind Orientation is 50.0 Degrees Clockwise From +X Axis
Structure Weight Overload Factor is 1.200
Exposure C, Gust Factor 1.10
Structure Category 2, Topographic Category 1, Crest Height 0.00 ft
Orientations are Measured Clockwise From +X Axis
Positive Y Axis is 90 Degrees Clockwise From +X Axis
Foundation Rotation of 0.00 Degrees
Elevation of structure base above surrounding terrain = 1.00 ft

Orientation of System

```
          +******* +X-Axis
        * *       (Transverse)
       *  *
      *   *
(Longitudinal) *    * (Vertical)
     +Y-Axis  *     * +Z-Axis
```

Load Number	Mounting Height	Load Height	Load Eccentricity	Orientation in XY Plane (Degrees)	Force-X (lbs)	Force-Y (lbs)	Force-Z (lbs)	EPA (ft^2)	
1	98.00	98.00	0.00	50.00	274	327	163	9.97	1-3' HP DISH
2	98.00	107.00	2.00	50.00	218	260	104	7.78	1-WHIP (3" X
3	98.00	98.00	1.00	50.00	63	75	35	2.30	1-24" Standof

BY VALMONT INDUSTRIES FOR: HAYDEN TOWERS 99.0' POLE, SITE: INDEPENDENCE, KS 44294 DATE 04/22/2020
Design Id: 442945-P1 IMPAX 23.1.24.6

*** INPUT LOADS ***

Design Code TIA-222-G Addendum 2
Loading Case ICE + WIND

Basic Wind Velocity is 40.00 mph Ice Thickness 1.00
Wind Orientation is 50.0 Degrees Clockwise From +X Axis
Structure Weight Overload Factor is 1.200
Exposure C, Gust Factor 1.10
Structure Category 2, Topographic Category 1, Crest Height 0.00 ft
Orientations are Measured Clockwise From +X Axis
Positive Y Axis is 90 Degrees Clockwise From +X Axis
Foundation Rotation of 0.00 Degrees
Elevation of structure base above surrounding terrain = 1.00 ft

Orientation of System

```
          +******* +X-Axis
        * *       (Transverse)
       *  *
      *   *
(Longitudinal) *    * (Vertical)
     +Y-Axis  *     * +Z-Axis
```

Load Number	Mounting Height	Load Height	Load Eccentricity	Orientation in XY Plane (Degrees)	Force-X (lbs)	Force-Y (lbs)	Force-Z (lbs)	EPA (ft^2)	
1	98.00	98.00	0.00	50.00	46	54	413	13.12	1-3' HP DISH
2	98.00	107.00	2.00	50.00	69	82	577	19.42	1-WHIP (3" X
3	98.00	98.00	1.00	50.00	14	17	169	4.13	1-24" Standof

BY VALMONT INDUSTRIES FOR: HAYDEN TOWERS 99.0' POLE, SITE: INDEPENDENCE, KS 44294 DATE 04/22/2020
Design Id: 442945-P1 IMPAX 23.1.24.6

*** INPUT LOADS ***

Design Code TIA-222-G Addendum 2
Loading Case T+S

Basic Wind Velocity is 60.00 mph Ice Thickness 0.00
Wind Orientation is 50.0 Degrees Clockwise From +X Axis
Structure Weight Overload Factor is 1.000
Exposure C, Gust Factor 1.10
Structure Category 2, Topographic Category 1, Crest Height 0.00 ft
Orientations are Measured Clockwise From +X Axis
Positive Y Axis is 90 Degrees Clockwise From +X Axis
Foundation Rotation of 0.00 Degrees
Elevation of structure base above surrounding terrain = 1.00 ft

Orientation of System

```
          +******* +X-Axis
        * *       (Transverse)
       *  *
      *   *
(Longitudinal) *    * (Vertical)
     +Y-Axis  *     * +Z-Axis
```

Load Number	Mounting Height	Load Height	Load Eccentricity	Orientation in XY Plane (Degrees)	Force-X (lbs)	Force-Y (lbs)	Force-Z (lbs)	EPA (ft^2)	
1	98.00	98.00	0.00	50.00	70	83	136	9.97	1-3' HP DISH
2	98.00	107.00	2.00	50.00	55	66	87	7.78	1-WHIP (3" X
3	98.00	98.00	1.00	50.00	16	19	29	2.30	1-24" Standof

*** Properties ***

Connection Locations	Distance From Base (ft)	Diameter Across Flats (in)	Wall Thickness (in)	D/t Across Flats	w/t Across Flats	Moments of Inertia (in^4)	Area (in^2)
Top of Sect 2	99.00	12.500	0.1875	66.67	9.99	140	7.33
	98.00	12.625	0.1875	67.33	10.11	145	7.40
	94.00	13.125	0.1875	70.00	10.58	163	7.70
	89.00	13.750	0.1875	73.33	11.17	188	8.07
	84.00	14.375	0.1875	76.67	11.76	215	8.44
	79.00	15.000	0.1875	80.00	12.34	244	8.81
	74.00	15.625	0.1875	83.33	12.93	277	9.19
	69.00	16.250	0.1875	86.67	13.52	311	9.56
	64.00	16.875	0.1875	90.00	14.11	349	9.93
	59.00	17.500	0.1875	93.33	14.69	390	10.30
	54.00	18.125	0.1875	96.67	15.28	434	10.67
	51.50	18.438	0.1875	98.33	15.58	457	10.86
Top of Sect 1	51.50	18.063	0.1875	96.33	15.22	429	10.64
	49.00	18.375	0.1875	98.00	15.52	452	10.82
Base of Sect 2	47.75	18.531	0.1875	98.83	15.66	464	10.92
	44.00	19.000	0.1875	101.33	16.10	500	11.20
	39.00	19.625	0.1875	104.67	16.69	552	11.57
	34.00	20.250	0.1875	108.00	17.28	607	11.94
	29.00	20.875	0.1875	111.33	17.87	665	12.31
	24.00	21.500	0.1875	114.67	18.46	728	12.68
	19.00	22.125	0.1875	118.00	19.04	794	13.06
	14.00	22.750	0.1875	121.33	19.63	863	13.43
	9.00	23.375	0.1875	124.67	20.22	937	13.80
	4.00	24.000	0.1875	128.00	20.81	1015	14.17
Pt of Fixity	0.00	24.500	0.1875	130.67	21.28	1080	14.47

Forces and Moments for Pole in the Local Element Coordinate System

Loading Case WIND

Dist. From Base (ft)	Mx (in-kips)	My (in-kips)	Resultant Mx & My (in-kips)	Torsion (in-kips)	Shear X-Dir. (lbs)	Shear Y-Dir. (lbs)	Resultant Shear (lbs)	Axial (lbs)
99.00	0	0	0	0	0	0	0	0
98.00	0	0	0	0	19	22	29	30
98.00	32	-25	41	9	589	701	916	260
94.00	67	-56	87	9	666	792	1035	382
89.00	118	-99	154	9	765	909	1188	543
84.00	177	-148	230	9	866	1030	1346	713
79.00	242	-203	316	9	971	1155	1509	891
74.00	315	-264	411	9	1078	1283	1676	1078
69.00	397	-332	517	9	1188	1414	1847	1274
64.00	486	-407	634	9	1300	1548	2022	1478
59.00	583	-489	760	9	1414	1684	2199	1692
54.00	688	-577	898	9	1531	1823	2381	1912
51.50	744	-624	971	9	1592	1896	2475	2021
51.50	744	-624	971	9	1589	1892	2471	2026
49.00	802	-673	1046	9	1652	1967	2568	2250
47.75	832	-698	1085	9	1680	2002	2613	2368
44.00	924	-775	1206	9	1764	2101	2744	2548
39.00	1055	-885	1376	9	1877	2236	2920	2794
34.00	1193	-1001	1557	9	1989	2370	3094	3048
29.00	1340	-1124	1749	9	2100	2502	3267	3312
24.00	1494	-1254	1950	9	2209	2632	3436	3585
19.00	1656	-1390	2162	9	2314	2757	3600	3866
14.00	1826	-1532	2384	9	2415	2878	3757	4156
9.00	2003	-1680	2614	9	2513	2995	3910	4455
4.00	2187	-1835	2854	9	2615	3116	4068	4761
0.00	2339	-1963	3053	9	2710	3230	4216	4993

Loading Case WIND *** Deflections and Stresses ***

Distance From Base (ft)	Defl. X-Dir (in)	Defl. Y-Dir (in)	Defl. Resultant X & Y (in)	Defl. Z-Dir (in)	Rotation (deg.)	Axial Interaction Term	Flexural Interaction Term	Shear Interaction Term	Torsion Interaction Term	Combined Stress Interaction	Effective Yield Strength (ksi)
99.00	37.9	45.2	59.0	1.9	4.72	0.00	0.00	0.00	0.00	0.01	82.55
98.00	37.3	44.5	58.1	1.8	4.72	0.00	0.00	0.00	0.00	0.01	82.55
98.00	37.3	44.5	58.1	1.8	4.72	0.00	0.02	0.01	0.01	0.02	82.55
94.00	34.8	41.5	54.1	1.7	4.68	0.00	0.05	0.01	0.01	0.05	82.55
89.00	31.7	37.7	49.3	1.5	4.60	0.00	0.08	0.01	0.01	0.08	82.55
84.00	28.6	34.1	44.5	1.3	4.49	0.00	0.11	0.01	0.01	0.11	82.55
79.00	25.6	30.6	39.9	1.1	4.35	0.00	0.13	0.01	0.00	0.13	82.55
74.00	22.8	27.1	35.4	0.9	4.18	0.00	0.16	0.01	0.00	0.16	82.55
69.00	20.0	23.9	31.1	0.8	3.99	0.00	0.18	0.01	0.00	0.19	82.55
64.00	17.4	20.7	27.1	0.6	3.79	0.00	0.21	0.01	0.00	0.21	82.55
59.00	14.9	17.8	23.2	0.5	3.57	0.00	0.23	0.01	0.00	0.24	82.55
54.00	12.6	15.0	19.6	0.4	3.33	0.00	0.26	0.02	0.00	0.26	82.55
51.50	11.5	13.7	17.9	0.3	3.20	0.00	0.27	0.02	0.00	0.27	82.55
51.50	11.5	13.7	17.9	0.3	3.20	0.00	0.28	0.02	0.00	0.28	82.55
49.00	10.4	12.5	16.3	0.3	3.07	0.00	0.29	0.02	0.00	0.29	82.55
47.75	9.9	11.8	15.5	0.3	3.00	0.00	0.30	0.02	0.00	0.30	82.55
44.00	8.5	10.1	13.2	0.2	2.79	0.00	0.31	0.02	0.00	0.32	82.46
39.00	6.7	8.0	10.4	0.2	2.50	0.00	0.34	0.02	0.00	0.34	81.77
34.00	5.1	6.1	8.0	0.1	2.20	0.00	0.36	0.02	0.00	0.37	81.08
29.00	3.7	4.5	5.8	0.1	1.89	0.00	0.38	0.02	0.00	0.39	80.38
24.00	2.6	3.1	4.0	0.0	1.57	0.00	0.41	0.02	0.00	0.41	79.69
19.00	1.6	1.9	2.5	0.0	1.25	0.00	0.43	0.02	0.00	0.44	79.00
14.00	0.9	1.1	1.4	0.0	0.93	0.00	0.45	0.02	0.00	0.46	78.31
9.00	0.4	0.4	0.6	0.0	0.60	0.00	0.47	0.02	0.00	0.48	77.62
4.00	0.1	0.1	0.1	0.0	0.27	0.01	0.49	0.02	0.00	0.50	76.93
0.00	0.0	0.0	0.0	0.0	0.00	0.01	0.51	0.02	0.00	0.52	76.38

Forces and Moments for Pole in the Local Element Coordinate System

Loading Case ICE + WIND

Dist. From Base (ft)	Mx (in-kips)	My (in-kips)	Resultant Mx & My (in-kips)	Torsion (in-kips)	Shear X-Dir. (lbs)	Shear Y-Dir. (lbs)	Resultant Shear (lbs)	Axial (lbs)
99.00	0	0	0	0	0	0	0	0
98.00	0	0	0	0	7	8	11	63
98.00	22	-19	29	3	155	185	241	1217
94.00	32	-27	42	3	183	218	285	1477
89.00	46	-39	61	3	219	260	340	1816
84.00	63	-53	83	3	254	303	396	2170
79.00	83	-70	108	3	291	346	452	2540
74.00	105	-88	137	3	327	389	509	2924
69.00	130	-109	169	3	363	433	565	3322
64.00	157	-132	205	3	399	476	621	3736
59.00	187	-157	244	3	435	519	677	4163
54.00	220	-184	287	3	472	562	734	4604
51.50	237	-199	309	3	491	586	764	4830
51.50	237	-199	309	3	489	583	761	4830
49.00	255	-214	333	3	509	607	792	5283
47.75	264	-221	345	3	518	617	805	5513
44.00	292	-245	382	3	541	645	842	5859
39.00	333	-279	434	3	573	683	892	6331
34.00	375	-315	489	3	604	720	939	6816
29.00	419	-352	548	3	633	754	985	7312
24.00	466	-391	608	3	661	787	1028	7820
19.00	514	-432	672	3	686	818	1068	8337
14.00	565	-474	737	3	710	846	1104	8863
9.00	617	-517	805	3	732	872	1138	9394
4.00	670	-562	875	3	754	899	1173	9925
0.00	714	-599	932	3	780	929	1213	10336

Loading Case ICE + WIND *** Deflections and Stresses ***

Distance From Base (ft)	Defl. X-Dir (in)	Defl. Y-Dir (in)	Defl. Resultant X & Y (in)	Defl. Z-Dir (in)	Rotation (deg.)	Axial Interaction Term	Flexural Interaction Term	Shear Interaction Term	Torsion Interaction Term	Combined Stress Interaction	Effective Yield Strength (ksi)
99.00	11.9	14.2	18.6	0.2	1.52	0.00	0.00	0.00	0.00	0.01	82.55
98.00	11.7	14.0	18.2	0.2	1.52	0.00	0.00	0.00	0.00	0.01	82.55
98.00	11.7	14.0	18.2	0.2	1.52	0.00	0.02	0.00	0.00	0.02	82.55
94.00	10.9	13.0	17.0	0.2	1.50	0.00	0.02	0.00	0.00	0.03	82.55
89.00	9.9	11.8	15.4	0.2	1.46	0.00	0.03	0.00	0.00	0.03	82.55
84.00	8.9	10.7	13.9	0.1	1.42	0.00	0.04	0.00	0.00	0.04	82.55
79.00	8.0	9.5	12.4	0.1	1.37	0.00	0.05	0.00	0.00	0.05	82.55
74.00	7.1	8.5	11.0	0.1	1.32	0.00	0.05	0.00	0.00	0.06	82.55
69.00	6.2	7.4	9.7	0.1	1.25	0.00	0.06	0.00	0.00	0.07	82.55
64.00	5.4	6.4	8.4	0.1	1.19	0.01	0.07	0.00	0.00	0.07	82.55
59.00	4.6	5.5	7.2	0.1	1.11	0.01	0.07	0.00	0.00	0.08	82.55
54.00	3.9	4.7	6.1	0.1	1.04	0.01	0.08	0.00	0.00	0.09	82.55
51.50	3.6	4.2	5.5	0.0	1.00	0.01	0.09	0.00	0.00	0.09	82.55
51.50	3.6	4.2	5.5	0.0	1.00	0.01	0.09	0.00	0.00	0.10	82.55
49.00	3.2	3.9	5.0	0.0	0.96	0.01	0.09	0.01	0.00	0.10	82.55
47.75	3.1	3.7	4.8	0.0	0.93	0.01	0.09	0.01	0.00	0.10	82.55
44.00	2.6	3.1	4.1	0.0	0.87	0.01	0.10	0.01	0.00	0.11	82.46
39.00	2.1	2.5	3.2	0.0	0.78	0.01	0.11	0.01	0.00	0.11	81.77
34.00	1.6	1.9	2.5	0.0	0.68	0.01	0.11	0.01	0.00	0.12	81.08
29.00	1.2	1.4	1.8	0.0	0.58	0.01	0.12	0.01	0.00	0.13	80.38
24.00	0.8	0.9	1.2	0.0	0.49	0.01	0.13	0.01	0.00	0.14	79.69
19.00	0.5	0.6	0.8	0.0	0.39	0.01	0.13	0.01	0.00	0.14	79.00
14.00	0.3	0.3	0.4	0.0	0.29	0.01	0.14	0.01	0.00	0.15	78.31
9.00	0.1	0.1	0.2	0.0	0.18	0.01	0.15	0.01	0.00	0.16	77.62
4.00	0.0	0.0	0.0	0.0	0.08	0.01	0.15	0.01	0.00	0.16	76.93
0.00	0.0	0.0	0.0	0.0	0.00	0.01	0.16	0.01	0.00	0.17	76.38

BY VALMONT INDUSTRIES FOR: HAYDEN TOWERS 99.0' POLE, SITE: INDEPENDENCE, KS 44294 DATE 04/22/2020
Design Id: 442945-P1 IMPAX 23.1.24.6
Forces and Moments for Pole in the Local Element Coordinate System

Loading Case T+S

Dist. From Base (ft)	Mx (in-kips)	My (in-kips)	Resultant Mx & My (in-kips)	Torsion (in-kips)	Shear X-Dir. (lbs)	Shear Y-Dir. (lbs)	Resultant Shear (lbs)	Axial (lbs)
99.00	0	0	0	0	0	0	0	0
98.00	0	0	0	0	5	6	7	25
98.00	9	-8	12	2	149	178	232	272
94.00	18	-15	24	2	169	201	262	374
89.00	31	-26	41	2	193	230	301	507
84.00	46	-39	60	2	219	261	341	646
79.00	63	-52	82	2	245	292	382	792
74.00	81	-68	106	2	272	324	424	944
69.00	102	-85	133	2	300	358	467	1103
64.00	124	-104	162	2	328	391	511	1268
59.00	149	-125	194	2	357	426	556	1439
54.00	175	-147	229	2	387	461	602	1617
51.50	189	-159	247	2	402	479	625	1708
51.50	189	-159	247	2	401	478	625	1708
49.00	204	-171	266	2	417	497	649	1891
47.75	212	-177	276	2	425	506	660	1985
44.00	235	-197	307	2	446	531	694	2126
39.00	268	-225	350	2	475	566	739	2319
34.00	303	-254	395	2	504	600	783	2519
29.00	340	-285	444	2	532	634	828	2725
24.00	379	-318	495	2	560	667	871	2937
19.00	420	-353	549	2	587	700	914	3156
14.00	463	-389	605	2	613	731	954	3382
9.00	508	-426	663	2	639	762	994	3614
4.00	555	-466	725	2	666	793	1036	3852
0.00	594	-498	775	2	690	822	1073	4046

Loading Case T+S *** Deflections and Stresses ***

Distance From Base (ft)	Defl. X-Dir (in)	Defl. Y-Dir (in)	Defl. Resultant X & Y (in)	Defl. Z-Dir (in)	Rotation (deg.)	Axial Interaction Term	Flexural Interaction Term	Shear Interaction Term	Torsion Interaction Term	Combined Stress Interaction	Effective Yield Strength (ksi)
99.00	9.7	11.5	15.0	0.1	1.20	0.00	0.00	0.00	0.00	0.01	82.55
98.00	9.5	11.3	14.8	0.1	1.20	0.00	0.00	0.00	0.00	0.01	82.55
98.00	9.5	11.3	14.8	0.1	1.20	0.00	0.01	0.00	0.00	0.01	82.55
94.00	8.8	10.5	13.8	0.1	1.19	0.00	0.01	0.00	0.00	0.01	82.55
89.00	8.1	9.6	12.5	0.1	1.17	0.00	0.02	0.00	0.00	0.02	82.55
84.00	7.3	8.7	11.3	0.1	1.14	0.00	0.03	0.00	0.00	0.03	82.55
79.00	6.5	7.8	10.1	0.1	1.11	0.00	0.03	0.00	0.00	0.04	82.55
74.00	5.8	6.9	9.0	0.1	1.06	0.00	0.04	0.00	0.00	0.04	82.55
69.00	5.1	6.1	7.9	0.1	1.02	0.00	0.05	0.00	0.00	0.05	82.55
64.00	4.4	5.3	6.9	0.0	0.96	0.00	0.05	0.00	0.00	0.06	82.55
59.00	3.8	4.5	5.9	0.0	0.91	0.00	0.06	0.00	0.00	0.06	82.55
54.00	3.2	3.8	5.0	0.0	0.84	0.00	0.07	0.00	0.00	0.07	82.55
51.50	2.9	3.5	4.5	0.0	0.81	0.00	0.07	0.00	0.00	0.07	82.55
51.50	2.9	3.5	4.5	0.0	0.81	0.00	0.07	0.00	0.00	0.07	82.55
49.00	2.7	3.2	4.1	0.0	0.78	0.00	0.07	0.00	0.00	0.08	82.55
47.75	2.5	3.0	3.9	0.0	0.76	0.00	0.08	0.00	0.00	0.08	82.55
44.00	2.2	2.6	3.3	0.0	0.71	0.00	0.08	0.00	0.00	0.08	82.46
39.00	1.7	2.0	2.6	0.0	0.63	0.00	0.09	0.00	0.00	0.09	81.77
34.00	1.3	1.5	2.0	0.0	0.56	0.00	0.09	0.00	0.00	0.09	81.08
29.00	0.9	1.1	1.5	0.0	0.48	0.00	0.10	0.00	0.00	0.10	80.38
24.00	0.7	0.8	1.0	0.0	0.40	0.00	0.10	0.00	0.00	0.11	79.69
19.00	0.4	0.5	0.6	0.0	0.32	0.00	0.11	0.00	0.00	0.11	79.00
14.00	0.2	0.3	0.3	0.0	0.24	0.00	0.11	0.00	0.00	0.12	78.31
9.00	0.1	0.1	0.1	0.0	0.15	0.00	0.12	0.00	0.00	0.12	77.62
4.00	0.0	0.0	0.0	0.0	0.07	0.00	0.13	0.01	0.00	0.13	76.93
0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.13	0.01	0.00	0.13	76.38

MINIMUM DEFLECTION RATIO // DEFLECTION LIMIT / DEFLECTION // IS

NUMBER OF BOLTS	DIAMETER (IN.)	LENGTH (IN.)	WEIGHT (KIPS)	SHIPPED AS	PROJECTION LENGTH (IN.)	GALVANIZED LENGTH (IN.)	THREAD SIZE
6	1.750	66.00	0.38	BOLTS, TEMPLATES	8.50	66.00	5-UNC-2A

STEEL SPEC. VALMONT	STEEL SPECIF.	MAXIMUM BOLT FORCE (KIPS)	MAXIMUM BOLT SHEAR FORCE (KIPS)	FACTORED NOMINAL TENS. STRENGTH (KIPS)	STRESS AREA (SQ. IN.)	INTERACTION VALUE	CONFIGURATION OF BOTTOM END
S23	A615	58.07	0.70	152.00	1.90	0.39	THREADED WITH HEAVY HEX HEAD NUT

NOTE: BOLT INTERACTION VALUE WAS CALCULATED BY DIVIDING SHEAR FORCE BY FACTOR RELATED TO DETAIL TYPE d) IN EIA-G SPECS.

*** BOLT COORDINATES (IN.) ***

BOLT NO.	X-COORD	Y-COORD	*	BOLT NO.	X-COORD	Y-COORD
1	15.375	0.000	*	2	7.688	13.315

MAX. BOLT CIRCLE = 30.75 IN. TEMPLATE DIAMETER = 34.25 IN.

*** BASE PLATE CHARACTERISTICS GOVERNED BY LOADING CASE WIND ***

BASE PLATE DIAMETER (IN.)	BASE PLATE THICKNESS (IN.)	ACTUAL WEIGHT (KIPS)	RAW MATERIAL WEIGHT (KIPS)	POLE DIAM. (MAJOR DIAM.) (IN.)
35.67	1.50	0.29	0.53	24.50

EFFECTIVE PLATE WIDTH (IN.)	PLASTIC SECTION MOD. (CU. IN.)	MOMENT IN BASE PLATE (IN. -K)	PLASTIC MOMENT (IN. -K)	FACTORED RESISTING MOM. (IN. -K)
12.83	7.22	181.46	360.79	324.71

STEEL SPECIF. VALMONT	STEEL SPECIF. OTHER	EFFECTIVE YIELD STRESS (KSI)	STRESS RATIO
S56	A572	50	0.56

** LOADS AT POLE BASE IN THE GLOBAL COORDINATE SYSTEM ********** LOADING CASES **********

LOADING CASE IDENTIFICATION	WIND	ICE + WIND	T+S	]MAX CRITERION-	LOAD CASE
MOMENT ABT. X-AXIS (IN-KIP)	2338	714	593	]MOMENT ABT. X	WIND
MOMENT ABT. Y-AXIS (IN-KIP)	-1962	-599	-498	]MOMENT ABT. Y	WIND
SHEAR FORCE (LB.)	4204	1205	1070	]RES. MOMENT	WIND
VERTICAL FORCE (LB.)	5003	10337	4046	]SHEAR FORCE	WIND
				]BOLT FORCE	WIND
				]BOLT TENSION	WIND