Department of Transportation
Division of Secretariat
Office of Air, Rail & Transit
700 East Broadway Avenue
Pierre, South Dakota 57501-2586
OFFICE: 605/773-3574
FAX: 605/773-2804

TO: South Dakota Aeronautics Commission

FROM: Colton Stahl, Office of Aeronautics

DATE: February 24, 2016

SUBJECT: Aeronautical Hazard Application

Permit #2015-17719 Faulkton, SD
FAA Aeronautical Study 2015-AGL-17719-17722-OE

The SDDOT is constructing an addition to the existing maintenance shop in Faulkton.
The new structure will be approximately 20.0' above ground level.
The FAA has determined:

- This proposal does not exceed FAA obstruction standards and would not be a hazard to air navigation.

The department is recommending Commission approval.

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2015-AGL-17722-OE

Issued Date: 01/26/2016

Jeff Senst, Region Engineer
South Dakota Department of Transporation
PO Box 1767
Aberdeen, SD 57402-1767

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Building Shop Addition
Location:	Faulkton, SD
Latitude:	45-02-02.52N NAD 83
Longitude:	99-06-53.58W
Heights:	1563 feet site elevation (SE)
	20 feet above ground level (AGL)
	1583 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 L.

This determination expires on 07/26/2017 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates , heights, frequency(ies) and power . Any changes in coordinates , heights, and frequencies or use of greater power will void this determination. Any future construction or alteration , including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

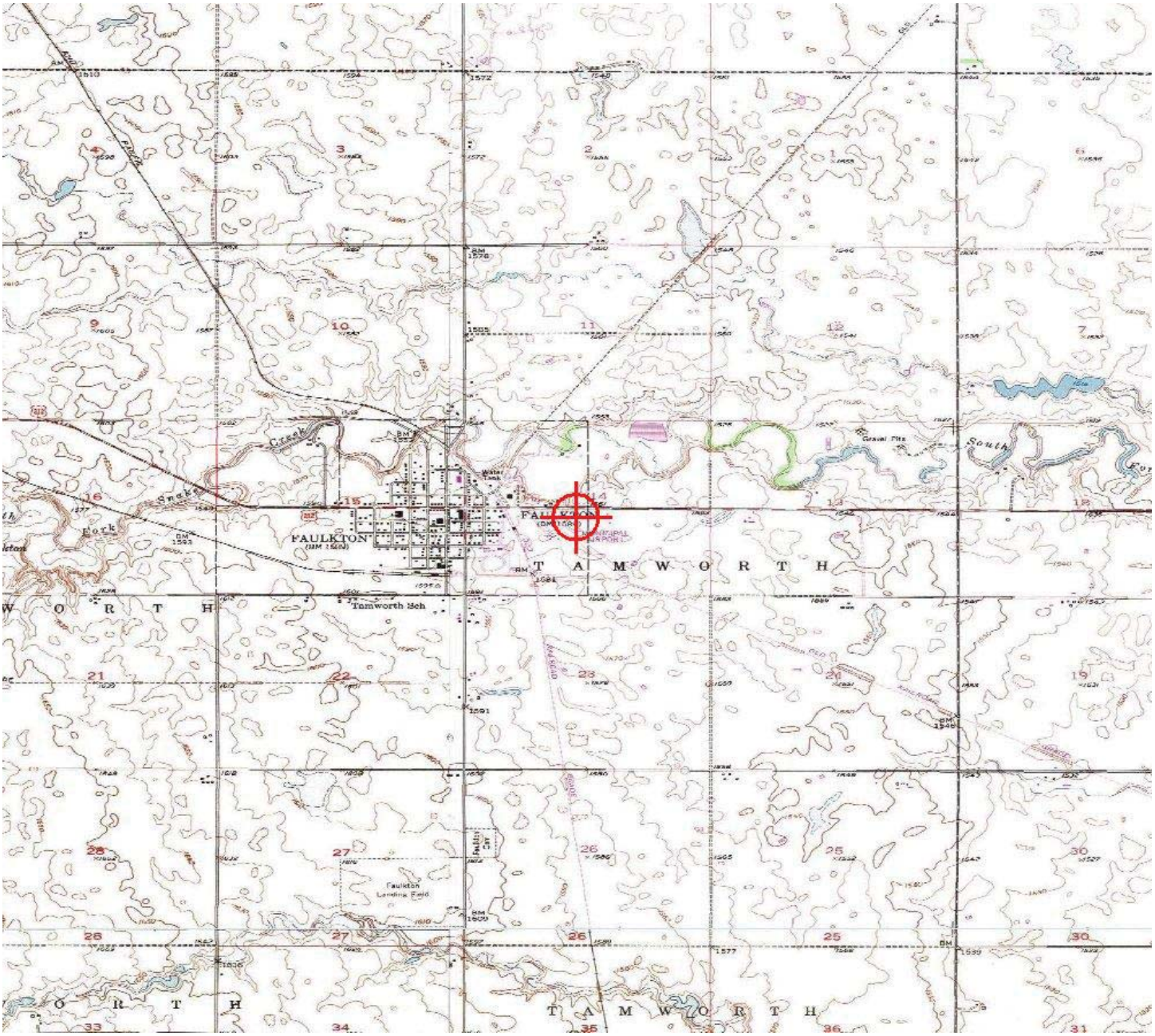
Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

If we can be of further assistance, please contact our office at (847) 294-7458. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2015-AGL-17722-OE.

Signature Control No: 276602504-278797481 (DNE)
Fred Souchet
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2015-AGL-17722-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2015-AGL-17721-OE

Issued Date: 01/26/2016

Jeff Senst, Region Engineer
South Dakota Department of Transporation
PO Box 1767
Aberdeen, SD 57402-1767

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Building Shop Addition
Location:	Faulkton, SD
Latitude:	45-02-02.92N NAD 83
Longitude:	99-06-53.58W
Heights:	1563 feet site elevation (SE)
	20 feet above ground level (AGL)
	1583 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 L.

This determination expires on 07/26/2017 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
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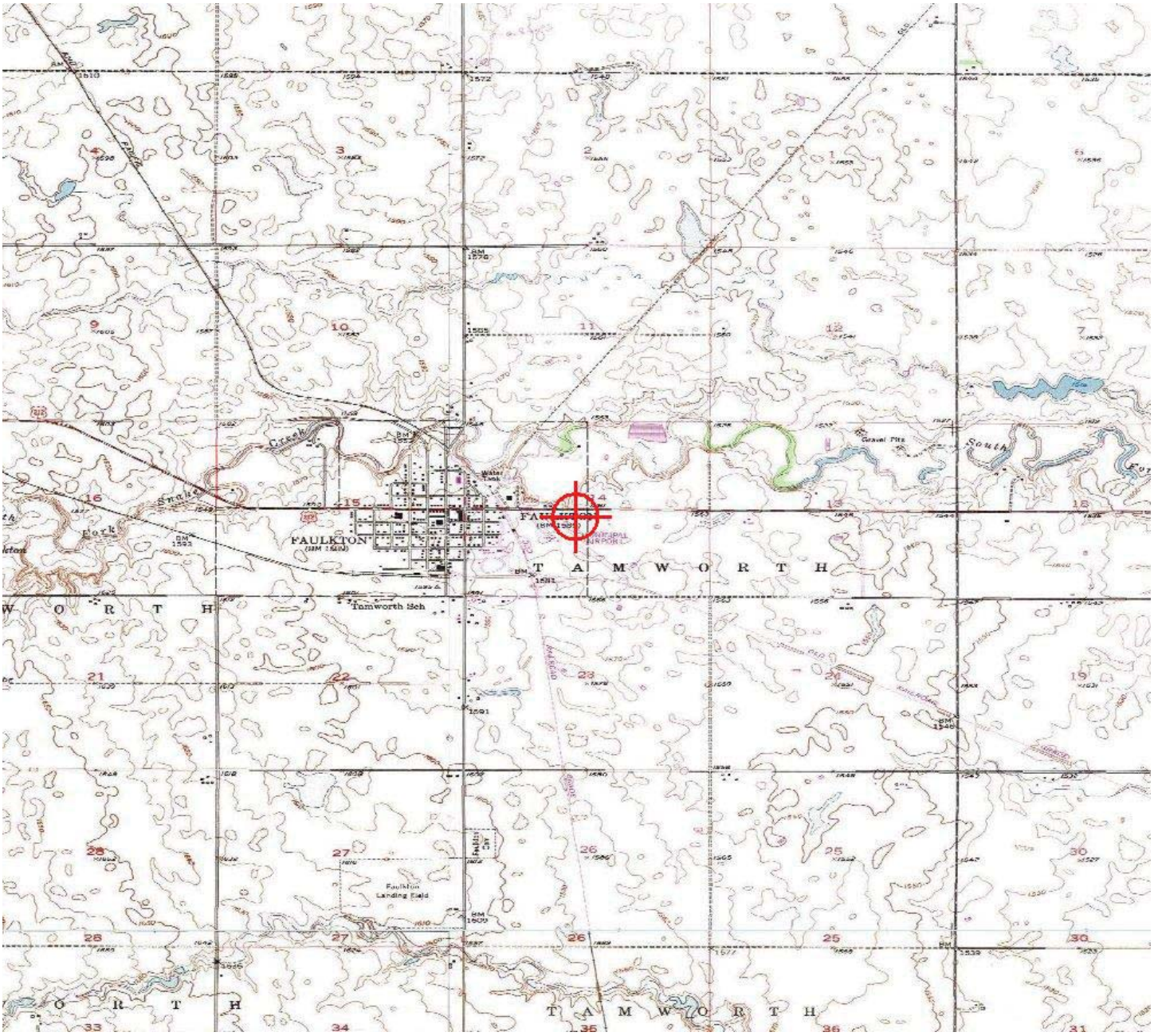
If we can be of further assistance, please contact our office at (847) 294-7458. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2015-AGL-17721-OE.

Signature Control No: 276602503-278797479 (DNE)
Fred Souchet
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2015-AGL-17721-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2015-AGL-17720-OE

Issued Date: 01/26/2016

Jeff Senst, Region Engineer
South Dakota Department of Transporation
PO Box 1767
Aberdeen, SD 57402-1767

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Building Shop Addition
Location:	Faulkton, SD
Latitude:	45-02-02.92N NAD 83
Longitude:	99-06-54.44W
Heights:	1563 feet site elevation (SE)
	20 feet above ground level (AGL)
	1583 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 L.

This determination expires on 07/26/2017 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

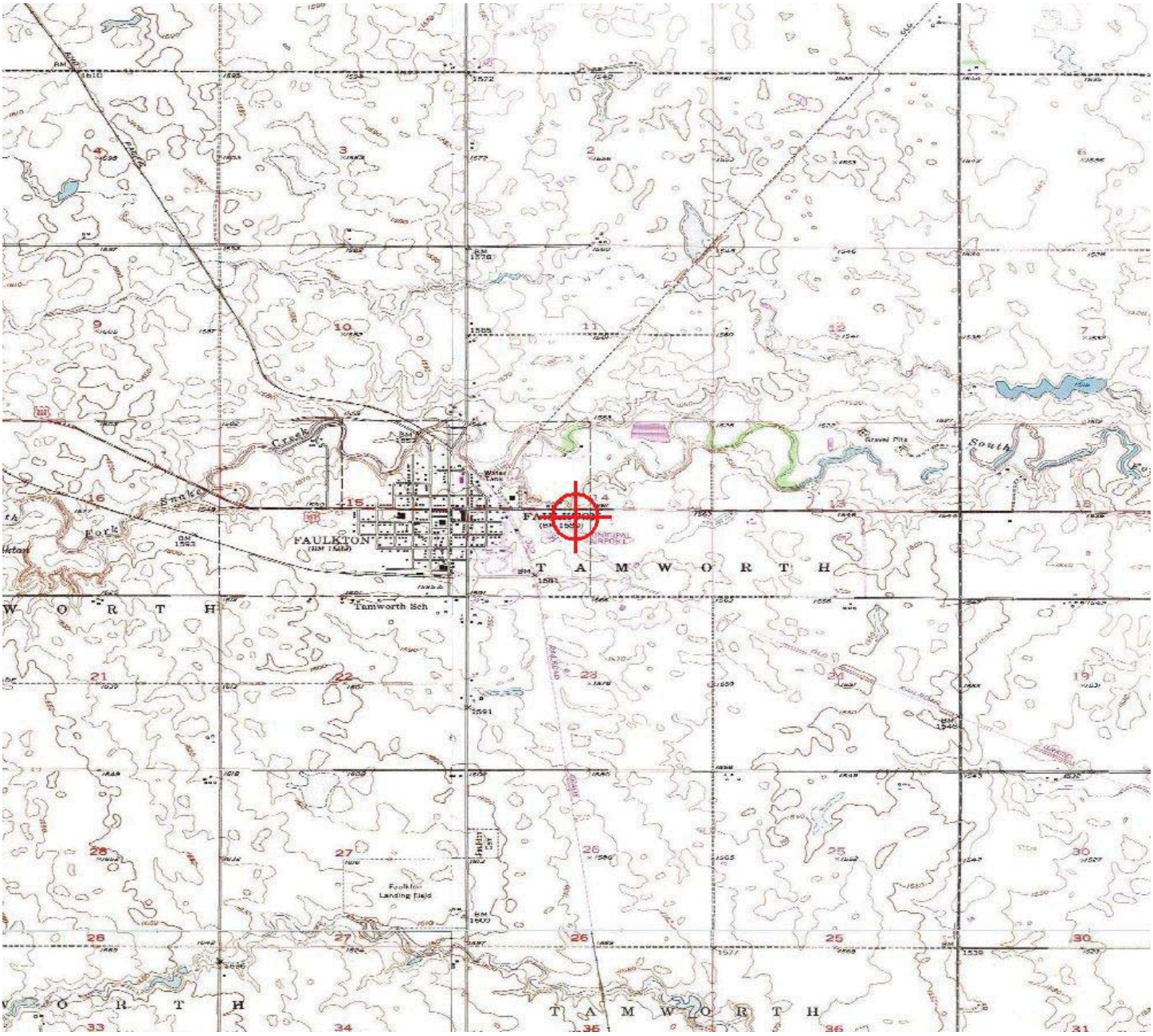
Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

If we can be of further assistance, please contact our office at (847) 294-7458. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2015-AGL-17720-OE.

Signature Control No: 276602502-278797480 (DNE)
Fred Souchet
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2015-AGL-17720-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2015-AGL-17719-OE

Issued Date: 01/26/2016

Jeff Senst, Region Engineer
South Dakota Department of Transporation
PO Box 1767
Aberdeen, SD 57402-1767

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Building Shop Addition
Location:	Faulkton, SD
Latitude:	45-02-02.51N NAD 83
Longitude:	99-06-54.45W
Heights:	1563 feet site elevation (SE)
	20 feet above ground level (AGL)
	1583 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

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(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination is based, in part, on the foregoing description which includes specific coordinates , heights, frequency(ies) and power . Any changes in coordinates , heights, and frequencies or use of greater power will void this determination. Any future construction or alteration , including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

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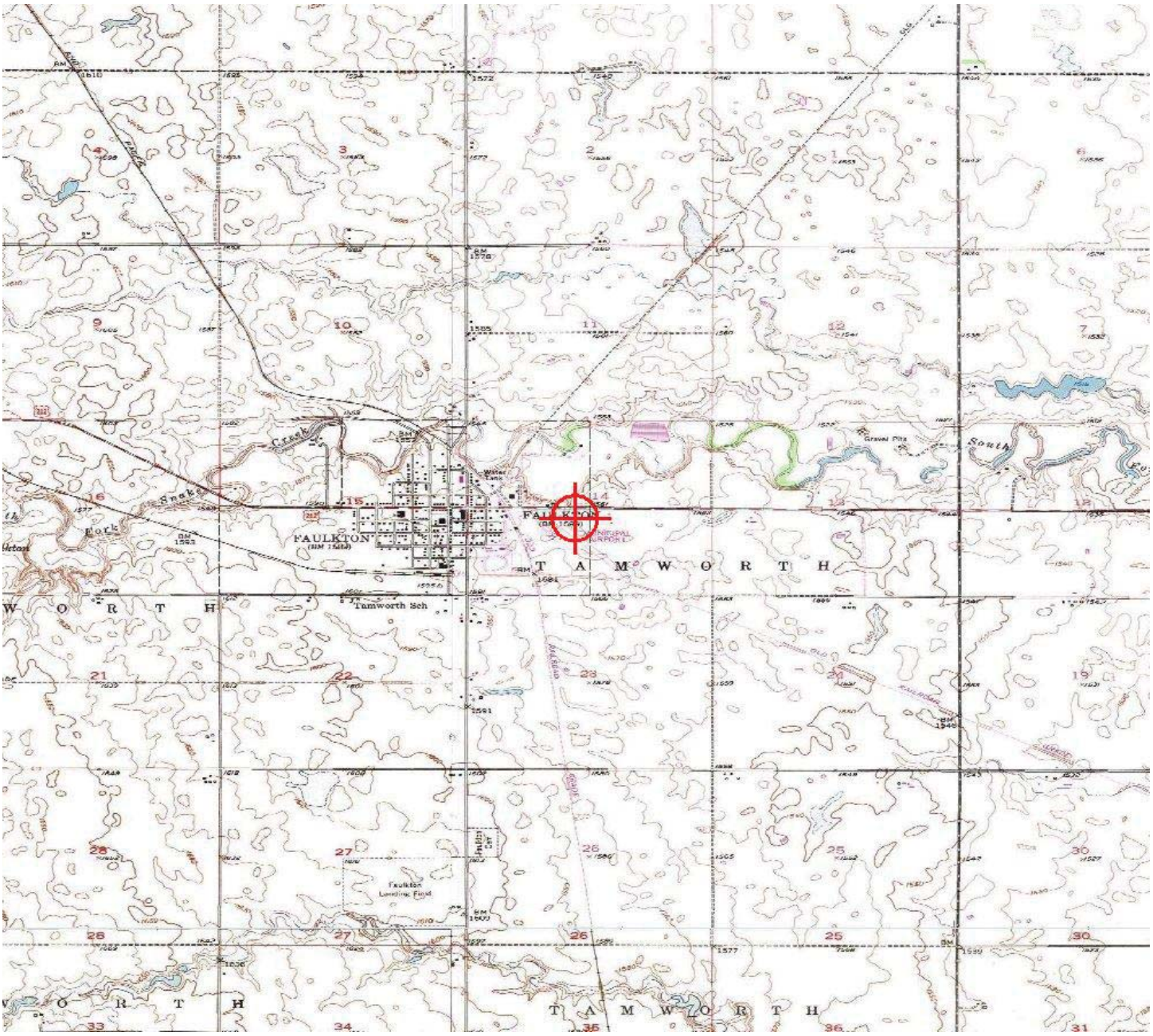
Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

If we can be of further assistance, please contact our office at (847) 294-7458. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2015-AGL-17719-OE.

Signature Control No: 276602501-278797478 (DNE)
Fred Souchet
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2015-AGL-17719-OE




N
52 ft
Google earth
Tour Guide
1997
Imagery Date: 9/26/2014 45°02'04.88" N 99°06'56.66" W elev 1564 ft eye alt 1812 ft

Department of Transportation
Division of Secretariat
Office of Air, Rail & Transit
700 East Broadway Avenue
Pierre, South Dakota 57501-2586
OFFICE: 605/773-3574
FAX: 605/773-2804

TO: South Dakota Aeronautics Commission

FROM: Colton Stahl, Office of Aeronautics

DATE: February 24, 2016

SUBJECT: Aeronautical Hazard Application

Permit #2015-9958 Junction City, SD
FAA Aeronautical Study 2015-AGL-9958-OE

East River Electric Power Cooperative Inc. is replacing an existing Angle leg guyed tower with a new 295.0' tower. This tower will be 130.0' taller than the existing tower. The FAA has determined:

- This proposal does not exceed FAA obstruction standards and would not be a hazard to air navigation.
- Markings and lighting will be required.

The department is recommending Commission approval

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
2601 Meacham Boulevard
Fort Worth, TX 76193

Aeronautical Study No.
2015-AGL-9958-OE

Issued Date: 07/29/2015

Chuck Lohsandt
East River Electric Power Cooperative Inc.
PO Box 227
Madison, SD 57042

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Antenna Tower Rasmussen
Location:	Junction City, SD
Latitude:	42-46-25.30N NAD 83
Longitude:	96-46-02.20W
Heights:	1192 feet site elevation (SE)
	295 feet above ground level (AGL)
	1487 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked/lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, 24-hr med-strobes - Chapters 4,6(MIWOL),&12.

The use of a 24-hour medium intensity flashing white light system in urban/populated areas is not normally recommended due to their tendency to merge with background lighting in these areas at night. This makes it extremely difficult for some types of aviation operations, ie. med-evac and police helicopters to see these structures.

The use of a 24-hour medium intensity flashing white light system in urban and rural areas often results in complaints.

This determination is based, in part, on the foregoing description which includes specific coordinates , heights, frequency(ies) and power . Any changes in coordinates , heights, and frequencies or use of greater power will void this determination. Any future construction or alteration , including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

This aeronautical study included evaluation of a structure that exists at this time. Action will be taken to ensure aeronautical charts are updated to reflect the most current coordinates, elevation and height as indicated in the case description.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (310) 725-6591. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2015-AGL-9958-OE.

Signature Control No: 257084398-259110230 (DNE)
Tameria Burch
Technician

cc: FCC

SD EForm - 0941 V2

APPLICATION FOR LOCATION OF AERONAUTICAL HAZARD

State Permit #: _____

South Dakota Aeronautics Commission
Becker-Hansen Building, 700 E Broadway Avenue
Pierre, South Dakota 57501-9989
Air, Rail and Transit (605)773-3574

FAA Airspace #: 2015-AGL-9958-OE

A. APPLICANT

Proponent:

Company: East River Electric Power Coop., Inc.
Address: 211 Harth Ave. S.
Madison SD 57042
Phone: (605) 256-4536
Fax: (605) 256-8058
Attention: Ronald Golden

Proponent's Representative:

Company:
Address:
Phone:
Fax:
Attention:

B.TYPE OF STRUCTURE

Type:
- ( ) New Construction
- (•) Alteration
- ( ) Existing

Work Schedule Dates:
Begin Date: 03/01/2016
End Date: 09/01/2016

Nature and Complete Description of Structure
(Type of material, obstruction lighting and painting and any special marking):

Rohm Model 48 Angle leg guyed tower, FAA Style D (L-865) marking & lighting 130' addition to existing tower.

C. LOCATION INFORMATION

Latitude: 42d 46m 25.03s
Longitude: 096d 46m 02.20s
Nearest City: Junction City
Dist & Direction to City: 1 mile E and 1 mile S

Nearest Public Use Airport:
Airport/City: ,
Distance & Directions to Airport: Vermillion County Airport -VMR 44940.31 ft 86.02 deg from Str to Airpot

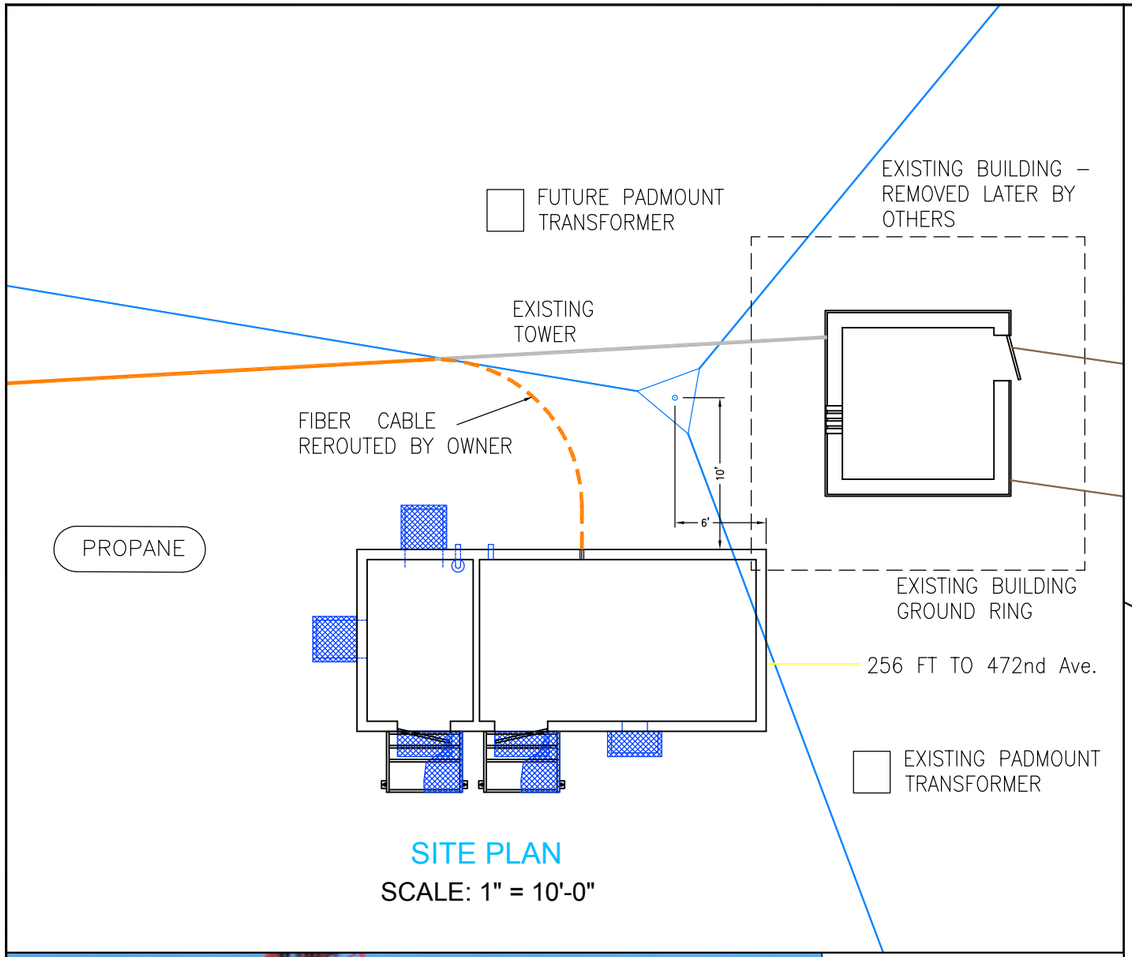
Location Description: 1950 ft South and 260 ft West of the intersection SD Hwy 50 & Union Co. Hwy 21

Height of Structure:
a. Site Elev: ft. (MSL)..... 1192
b. Structure Height: ft. (AGL).. 295
c. Overall Height: ft. (MSL)..... 1487

Nearest State Hwy & Distance to Hwy Centerline:
1950 ft South of SD Hwy 50

THE UNDERSIGNED HEREBY AGREES TO SUCH FURTHER REQUIREMENTS AS THE STATE AERONAUTICS COMMISSION MAY PRESCRIBE RELATING TO MARKING, LIGHTING AND SAFTEY TO THE FLYING PUBLIC AS MAY FROM TIME TO TIME BE ADOPTED BY THE COMMISSION FOR TOWERS 499' AND TALLER.
CERTIFICATION: I hereby certify that all of the above statements made by me are true, complete and correct to the best of my knowledge and belief.

Date: 01/20/2016
Name and Title: Ronald Golden - Land Agent
Signature: Ronald Golden



SITE PLAN

SCALE: 1" = 10'-0"

AERIAL PHOTO OF SITE

SCALE: 1" = 150'

TYPICAL BUILDING EXTERIOR

N
W E
S

RASMUSSEN MICROWAVE SITE

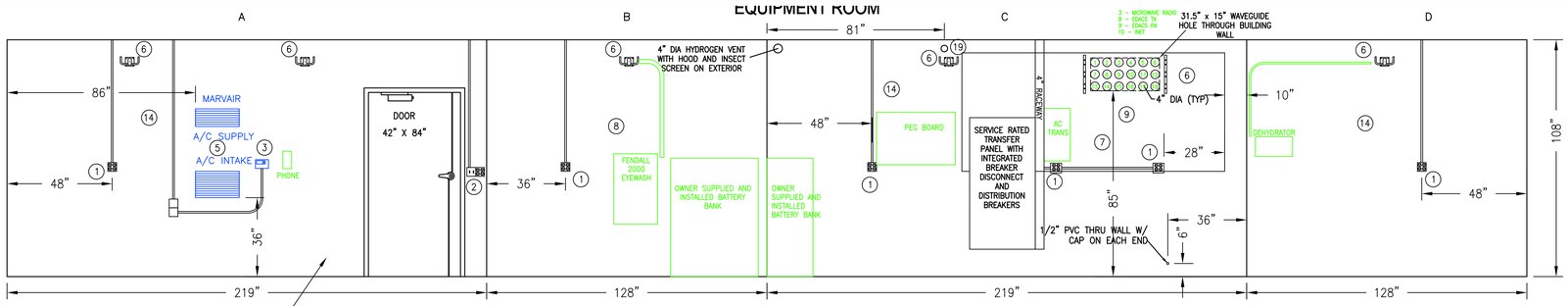
IN THE NE 1/4 OF SEC. 20–50–92
UNION COUNTY, SD
LATITUDE: 42° 46' 25"
LONGITUDE: 96° 46' 01"
31825 472nd Ave Elk Point , SD 57025

REV	DATE	DESCRIPTION	CHKD

DESIGNED BY:		DWG NAME:	RSR006-2
CHECKED BY:		DATE:	1-13-2015
DRAWN BY:	D.A.F.	PCP FILE:	ERTYPLT.ctb
		PLOT SCALE:	1=1
SHEET:	1 of 1	DWG SCALE:	As Shown

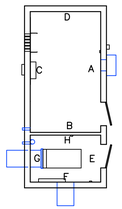
East River ELECTRIC
A Touchstone Energy® Cooperative

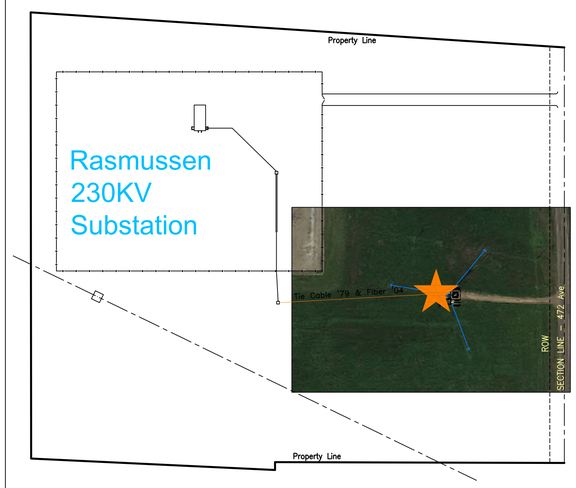
RASMUSSEN MW
12'-0" X 27'-0"
PERMIT PLAN



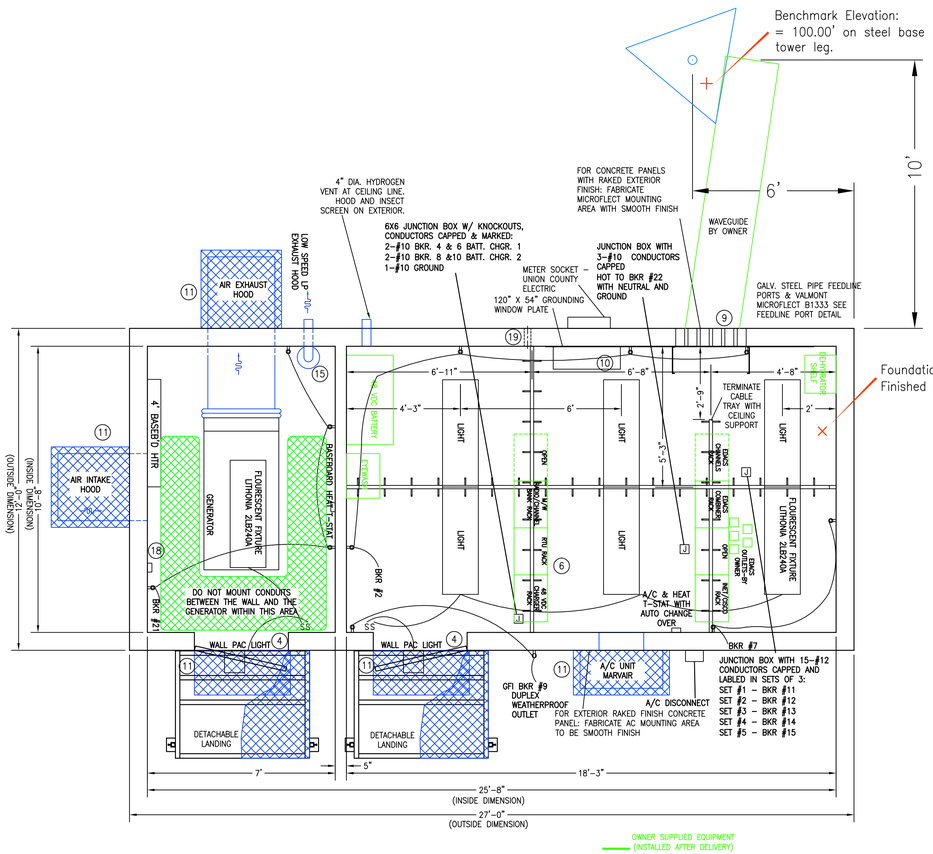
EQUIPMENT:

1. QUAD OUTLET (TYPICAL)
2. GFI OUTLET CONNECTED TO BKR #9
3. AIR CONDITIONER/HEAT T–STAT WITH AUTOMATIC HEAT/COOL CHANGE–OVER
4. EXTERIOR LIGHT: LITHONIA #TWA100S120LPI HIGH PRESSURE SODIUM, 100W WALL PAC OR APPROVED EQUAL.
5. MARVAIR AIR CONDITIONER #AVP24ACA–05C
6. OVERHEAD CABLE TRAY MP HUSKY #A–6–L–4–6 WITH WALL SUPPORTS AND CEILING SUPPORT RODS AS PER MFGR.
7. GROUNDING WINDOW WITH STANDOFF BRACKETS – SEE DETAIL
8. INTERIOR WALL 2X4 STUD, FIBERGLASS INSULATION. FINISHED SURFACE SHALL BE 1/2" PLYWOOD WITH FRP BOTH SIDES.
9. VALMONT MICROFLECT #B1333 BUILDING ENTRY PORT WITH PORT COVER CAPS ON BUILDING EXTERIOR
10. 200 AMP TRANSFER PANEL AND BRANCH CIRCUIT BREAKERS AS PER SPEC
11. GALVANIZED ICE SHIELDS FOR AC UNITS, DOORS AND GEN HOODS. SEE DETAILS.
12. 30" X 30" GEN AIR INTAKE LOUVER
13. BASE BOARD HEATER T–STAT
14. ALL INTERIOR WALLS COVERED WITH WHITE, PEBBLE SURFACE FRP
15. FANTECH FR100 LOW SPEED CONTINUOUS EXHAUST FAN WITH PIPE TO DRAW LP FUMES AT 3" ABOVE FLOOR, INCLUDE EXTERIOR HOOD WITH INSECT SCREEN.
16. 30" X 30" GEN EXHAUST LOUVER
17. WALL THIMBLE FOR GENERATOR EXHAUST. 3" DIA HOLE BY BUILDING MANUFACTURER.
18. MACURCO #CD–2A GAS DETECTOR 6" FROM FLOOR
19. 3" DIAMETER HOLE THROUGH WALL FOR OWNER INSTALLED CONDUIT 8'–8" A.F.F.

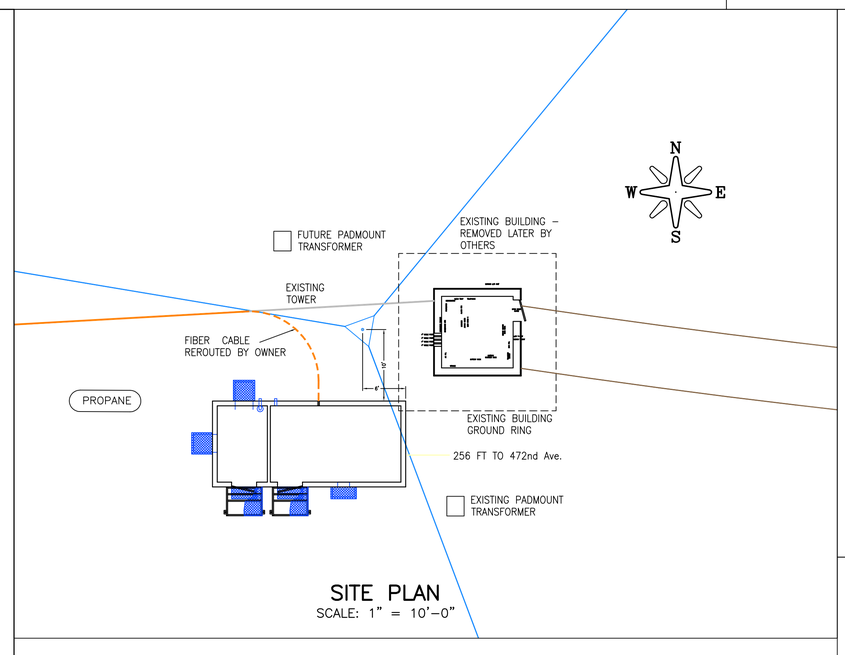




RASMUSSEN MICROWAVE
SITE PLAN
SCALE: NONE



FLOOR PLAN
SCALE: 3/8" = 1'–0"



SITE PLAN
SCALE: 1" = 10'–0"

BUILDING SUPPLIER SHALL INCLUDE ALL COMPONENTS OF THE BUILDING AS SHOWN ON THESE PLAN SHEETS AS WELL AS ALL WORK DESCRIBED IN THE WRITTEN SPECIFICATION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO:

- THE ON–SITE FOUNDATION TO SET FINISHED FLOOR ELEVATION AS SHOWN
- INSTALL GRANULAR FILL AS NEEDED TO SET BUILDING FOUNDATION TO ELEVATION AS SHOWN ON THE PLAN
- ALL TRANSPORTATION COSTS TO DELIVER BUILDING TO THE SITE
- ALL CRANE OFF LOADING COSTS
- BUILDING ANCHORING AND EQUIPMENT SETUP AS PER THIS PLAN
- REMOVE FOUNDATION SPOILS FROM THE SITE UNLESS ARRANGEMENTS MADE WITH OWNER

OWNER WILL:

- INSTALL LP LINE BETWEEN THE LP TANK AND THE GENERATOR LP SHUT OFF VALVE
- INSTALL ELECTRIC POWER TO THE BUILDING
- PROCURE LOCAL BUILDING PERMIT
- INSTALL GRAVEL/ROCK GRADING UPON COMPLETION OF BUILDING INSTALLTION

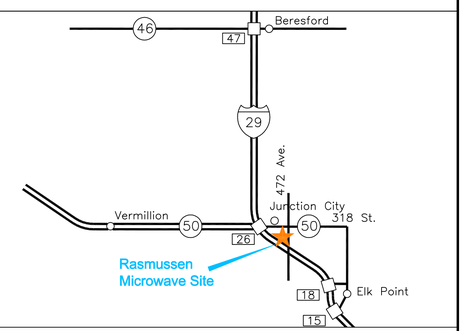
AC PANEL				
BREAKER	TERMINAL	WIRES	BREAKER SIZE	BREAKER TYPE
	MAIN ENTRANCE	BLK–HOT WHT–NEUTRAL BLK OR RED–HOT WHT–NEUTRAL	200	QOM2200VH
1	ROOM LIGHTS	BLK–HOT WHT–NEUTRAL	20	QO120
2	PANEL RECEPTACLES	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
3	GENERATOR BATT CHARGER	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
5	GENERATOR HEATER	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
4 & 6	48 VDC CHARGER RECT #1 & #3	BLK–HOT BLK OR RED–HOT GRN–GROUND	30	QO230
7	EQUIPMENT ROOM RECEPTACLES	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
8 & 10	48 VDC CHARGER RECT #2 & #4	BLK–HOT BLK OR RED–HOT GRN–GROUND	30	QO230
9	GFI RECEPTACLES	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
11	CEILING JUNCTION BOX EDACS CIRCUIT #1	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
12	CEILING JUNCTION BOX EDACS CIRCUIT #2	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
13	CEILING JUNCTION BOX EDACS CIRCUIT #3	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
14	CEILING JUNCTION BOX EDACS CIRCUIT #4	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
15	CEILING JUNCTION BOX EDACS CIRCUIT #5	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
16 & 18	MARVAIR	BLK–HOT BLK OR RED–HOT GRN–GROUND	30	QO230
17 & 19	GEN ROOM BASEBOARD HEATER	BLK–HOT BLK OR RED–HOT GRN–GROUND	30	QO230
20	TOWER LIGHTS	BLK–HOT WHT–NEUTRAL GRN–GROUND	30	QO130
21	GEN ROOM RECEPTACLES	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
22	UPS	BLK–HOT WHT–NEUTRAL GRN–GROUND	30	QO130
23	SPARE		15	QO115
24	GEN ROOM DAMPER	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120
26	GEN ROOM EXHAUST FAN	BLK–HOT WHT–NEUTRAL GRN–GROUND	20	QO120

AC PANEL

MAIN
200A

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
	26

ELECTRICAL PANEL



From Vermillion, go 7 miles east on highway 50 to the junction of I–29 (EXIT #26), 1 mile further east on highway 50 and 1/2 mile south.

RASMUSSEN MICROWAVE SITE
IN THE NE 1/4 OF SEC. 20–50–92
UNION COUNTY, SD
LATITUDE: 42° 46' 25"
LONGITUDE: 96° 46' 01"
31825 472nd Ave Elk Point , SD 57025

CONCRETE BUILDING

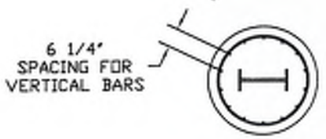
DESIGNED BY:	DATE:	REV	DATE	DESCRIPTION	CHKD
	1-13-15	1	1–13–2015	REVISED BUILDING SIZE	
DRAWN BY:	DRAWING SCALE:				
D.A.F.	As Shown				
CHECKED BY:	PLOT SCALE:				
	1:1				

East River ELECTRIC
A Touchstone Energy® Cooperative

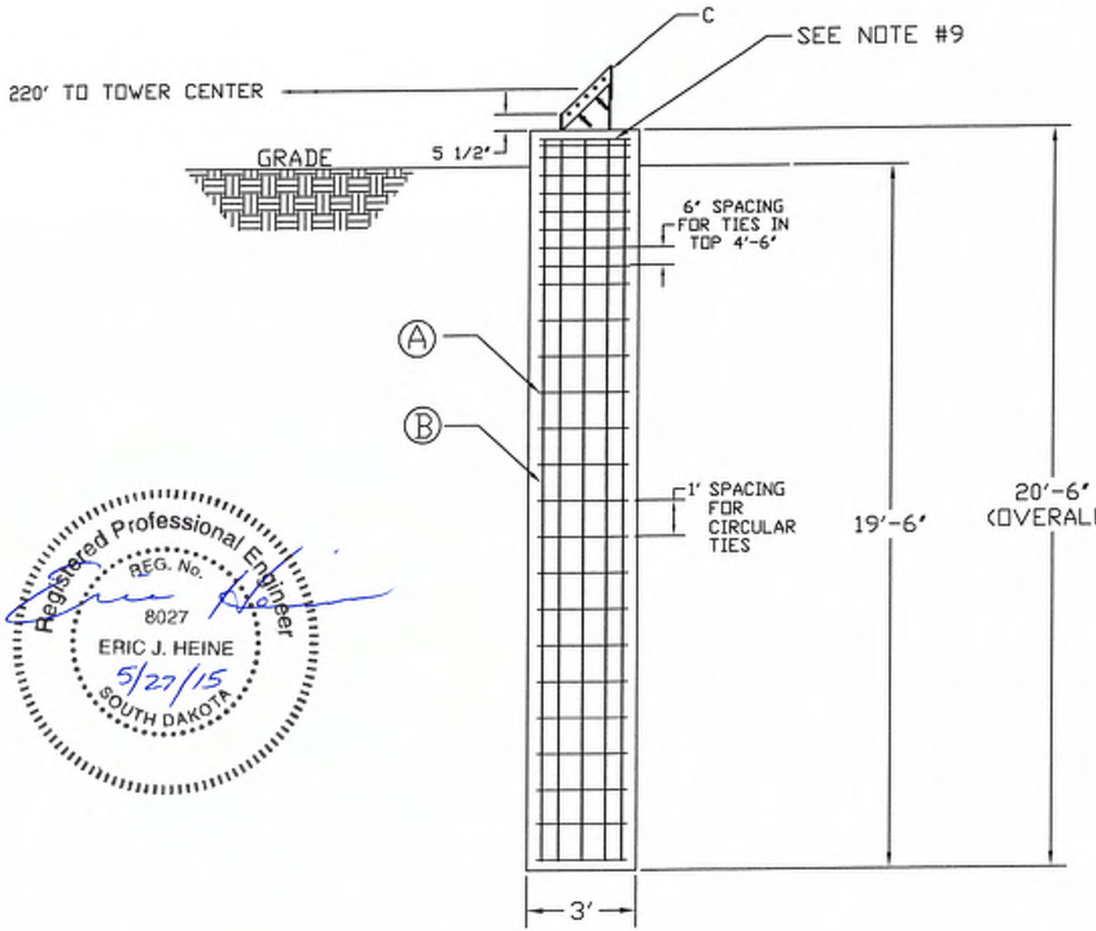
PCP FILE:	SHEET:	DRAWING NO.:
ERTYP.CTB	1 OF 2	RSR006-2

RASMUSSEN MW
10'-8" X 25'-8" BUILDING
CONSTRUCTION PLAN

CONCRETE QTY REQUIRED	TOTAL CONCRETE REQUIRED
5.37 CU YDS EACH	16.11 CU YDS



PLAN VIEW



ELEVATION VIEW

Registered Professional Engineer
REG. No.
8027
ERIC J. HEINE
5/27/15
SOUTH DAKOTA

MATERIAL LIST

	ITEM	QTY	DESCRIPTION	
	A	26	#4 GRADE 40	2'-6" OD — MIN. 16 IN. LAP SPLICE
	B	14	#8 GRADE 60 EVENLY SPACED	20'-0"
*	C	1	11'-2 3/8" LONG ANCHOR BEAM	W16x36#

QUANTITIES SHOWN ARE FOR ONE (1) CAISSON ANCHOR FOUNDATION. TOTAL OF (3) ANCHORS FOUNDATIONS ARE REQUIRED

* - FURNISHED BY EEI. ALL OTHER MATERIAL TO BE SUPPLIED BY CONTRACTOR.

NOTES:

1. CONCRETE SHALL ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
2. REBAR SHALL HAVE A 3" MINIMUM CONCRETE COVER AND SHALL CONFORM TO ASTM A615 GRADES SPECIFIED.
3. TIE AND SECURE ALL REBAR AND ANCHOR STEEL BEFORE PLACING CONCRETE.
4. BASE OF EXCAVATION SHALL BE CLEAN AND FREE OF ALL DEBRIS.
5. CHAMFER ALL EXPOSED CONCRETE EDGES 1" @ 45°.
6. ATTENTION SHALL BE GIVEN TO FINAL SITE DRAINAGE AND COMPACTION OF FILL PLACED AROUND THE FOUNDATION TO MINIMIZE SURFACE WATER INFILTRATION AROUND THE PIER.
7. TEMPORARY CASINGS MAY BE REQUIRED IN ACCORDANCE WITH GEOTECHNICAL REPORT AND APPLICABLE SAFETY REGULATIONS DURING DRILLING.
8. ACI 318 STANDARDS APPLY TO BENDING REINFORCING STEEL.
9. LATERAL REINFORCEMENT, CONSISTING OF (2) HORIZONTAL TIES, SHALL BE DISTRIBUTED WITHIN 5' OF TOP OF COLUMN PER ACI 318, SEC. 7.10.5.7.
10. ANCHOR DESIGN IS BASED ON SOILS REPORT BY SOIL EXPLORATION CO., (PROJECT #620-1324). REFERENCE REPORT FOR ADDITIONAL NOTES AND RECOMMENDATIONS REGARDING INSTALLATION OF FOUNDATIONS.
11. THREE (3) ANCHORS TO BE INSTALLED DIRECTLY OUT FROM APEX OF TOWER AT RADIUS SHOWN AND 120° APART.
12. REFERENCE EEI 'TERMS AND CONDITIONS RELATED TO SALES' SHEET FOR ADDITIONAL NOTES.

SITE: RASMUSSEN, SD

"OUTER" ANCHOR INSTALLATION

EHRESMANN ENGINEERING, INC.
CONSULTING ENGINEERS
4400 W. 31st STREET
YANKTON, SD 57078
PH: (605) 665-7532
FAX: (605) 665-9780

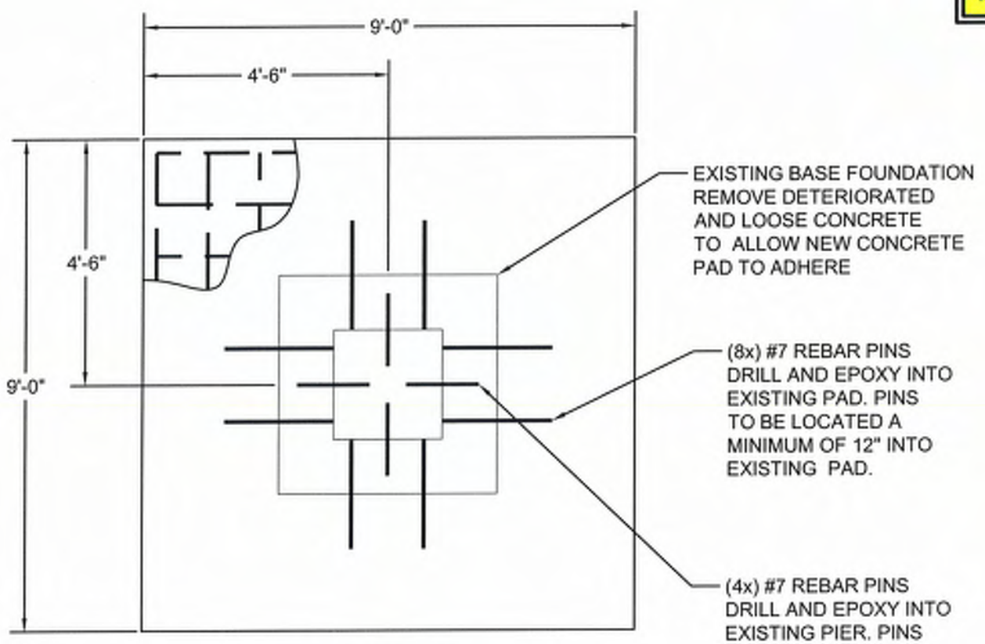
DATE: 5/27/15

BY: EJH

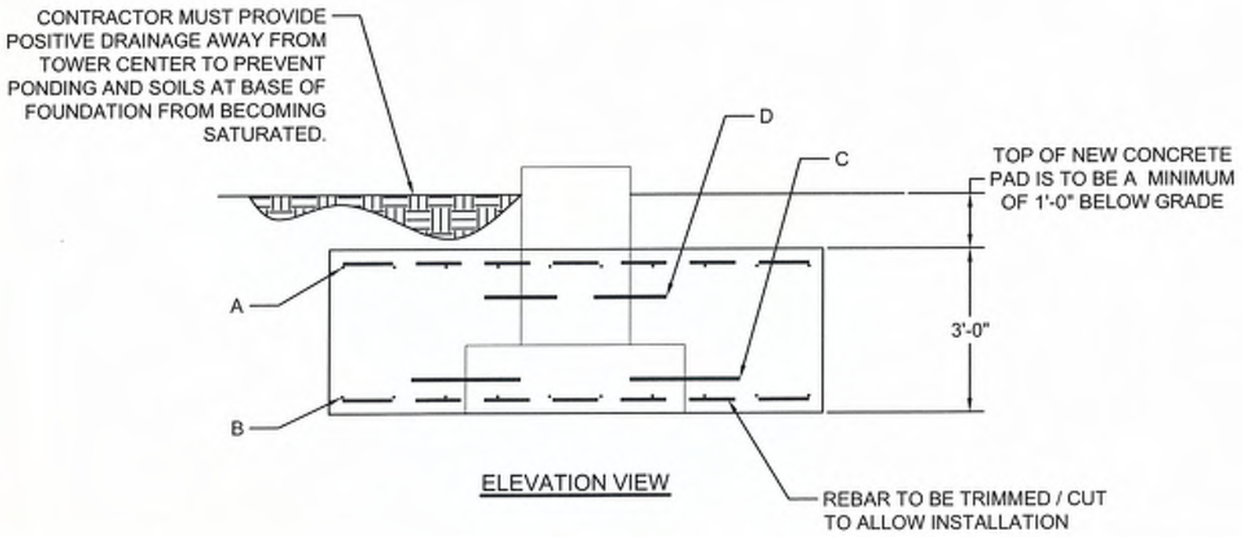
CHECKED:

J.O. 38177 | DWG # 38177E02 | SHT E02 OF

TEMPORARY SUPPORT OF TOWER AND FOUNDATION TO REDUCE RISK OF OVERTURNING DURING CONSTRUCTION IS RESPONSIBILITY OF CONTRACTOR.



PLAN VIEW



ELEVATION VIEW

MATERIAL LIST				
ITEM	QTY	GRADE	DESCRIPTION	
A	20	60 KSI	#6 BARS (10x) EACH WAY (TOP)	8'-6"
B	20	60 KSI	#6 BARS (10x) EACH WAY (BOTTOM)	8'-6"
C	8	60 KSI	#7 BARS	2'-0"
D	4	60 KSI	#7 BARS	1'-4"

Registered Professional Engineer
REG. No. 8027
ERIC J. HEINE
6/3/15
SOUTH DAKOTA

ESTIMATED ADDITIONAL CONCRETE QTY = 8.0 CU YDS

NOTES:

1.) CONCRETE SHALL ATTAIN ULTIMATE COMPRESSION STRENGTH OF 4000 PSI AT 28 DAYS.
2.) REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE SPECIFICATIONS.
3.) 3" MINIMUM CONCRETE COVER ON ALL REINFORCING STEEL.
4.) SIDES OF EXCAVATIONS MAY REQUIRE TO BE BRACED OR SLOPED BACK AS REQUIRED FOR STABILITY AND IN ACCORDANCE WITH ALL APPLICABLE SAFETY REGULATIONS.
5.) REINFORCING STEEL MEMBERS ARE TO BE EVENLY SPACED.
6.) FOLLOW RECOMMENDED PROCEDURES FOR USE AND INSTALLATION OF EPOXY.
7.) IT IS THE CONTRACTORS RESPONSIBILITY TO INSURE THAT ALL PRACTICES AND PROCEDURES UTILIZED DURING WORK REQUIRED ON THE FOUNDATION DO NOT ENDANGER THE SAFETY OF ANY PERSONNEL NOR THE STRUCTURAL INTEGRITY OF THE TOWER.
8.) ALL BACK FILL TO BE PLACED IN 6" LIFTS AND COMPACTED TO ASTM D-1557 STANDARDS.
9.) EXPOSED EDGES OF FOUNDATION TO BE CHAMFERED 1" X 45°.
10.) REFERENCE EEI "TERMS AND CONDITIONS RELATED TO SALES" SHEET FOR ADDITIONAL NOTES.

SITE: RASMUSSEN, SD

FOUDATION REPAIR

EHRESMANN ENGINEERING, INC.
CONSULTING ENGINEERS
4400 WEST 31st. STREET
YANKTON, SD 57078
(605) 665-7532
(605) 665-9780

DATE: 06/03/15
BY: TR
CHECKED:

J.O. 38177 | DWG # 38177E01 | SHT E01 OF

TERMS AND CONDITIONS RELATED TO SALES
Ehresmann Engineering, Inc., 4400 W. 31st Street, Yankton, SD 57078

General: Ehresmann Engineering, Inc. designs and manufactures steel towers and tower components to the most stringent industry standards, and uses the highest quality materials. Certain hazards are inherent in tower work. For this reason, it is imperative that erection of towers and installation of tower components be accomplished in a safe and workmanlike manner, only by experienced and professional contractors.

Materials: Unless the customer specifies otherwise, in writing: or, unless otherwise noted on installation drawings, fabricated items provided by Ehresmann Engineering, Inc. shall meet the following conditions:

1. All fabricated steel shall be hot dip galvanized per ASTM A123.
2. All structural fasteners shall be ASTM A325 or approved equal grade.
3. All hardware shall be hot dip galvanized per ASTM A153.
4. All steel used in fabrication shall conform to ASTM a36 requirements, "Standard Specifications for Structural Steel", (minimum 36 KSI yield point, or higher grade as noted on drawings).

Erection / Installation: When installing items provided by Ehresmann Engineering, Inc., the contractor (person performing the erection or modification) shall comply with the following:

1- All structural work shall be performed in relatively calm weather, with wind velocities not exceeding 15 MPH at any height of the tower.

2- All structural work shall be performed by a competent and reputable contractor with experience in similar tower work.

3- Our drawings indicate the major operations to be performed, but do not show every field condition that may be encountered. Prior to beginning work, the contractor should survey the job thoroughly to eliminate future field problems.

4- It is the contractor's sole responsibility to determine the erection procedure and sequence to insure the stability and safety of the tower and adequacy of temporary or incomplete connections during construction.

5- All nuts shall be tightened to a tight condition to be determined by the 'turn-of-the-nut' method as outlined in AISC Manual of Steel Construction, 9th edition.

6- The contractor shall be responsible to insure that all practices and procedures used during assembly and erection work required on the tower do not endanger the safety of any personnel or the structural integrity of the tower.

7- The contractor shall use only safe and workmanlike procedures when modifying a tower.

8- The contractor shall not correct any errors in manufacturing or design without special permission and written instructions from Ehresmann Engineering, Inc. This means straightening, relocation or reaming of bolt holes, drifting or any other application of force to make the members fit. (This restriction does not apply to diagonal members designed for initial tension or specific 'draw'.) The contractor shall immediately notify Ehresmann Engineering, Inc., through the appropriate channels to effect correction.

9- The contractor shall immediately notify Ehresmann Engineering, Inc. of any material which is damaged during erection or installation. The contractor shall not correct or substitute any member damaged during installation without written consent and instructions from Ehresmann Engineering, Inc.

10- The contractor shall refrain from exerting excessive forces on the tower or on modification material during installation. Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Design assumes competent and qualified personnel will perform the work.

11- All work shall be accomplished in accordance with TIA-222-G, "Structural Standards for Steel Antenna Tower and Antenna Supporting Structures" or as otherwise specified by the customer, in writing.

12- Purchasers shall verify the installation is in conformance with all local, state, and federal requirements for obstruction marking and lighting.

13- If towers are not erected, or modification materials are not installed in accordance with Ehresmann Engineering, Inc. installation drawings and procedures, then all designs are considered invalid, and Ehresmann Engineering, Inc. disclaims any responsibly for said design and/or certification.

14- All field-punched holes shall be touched up with cold galvanizing. Under no circumstances shall the torching of holes be allowed.

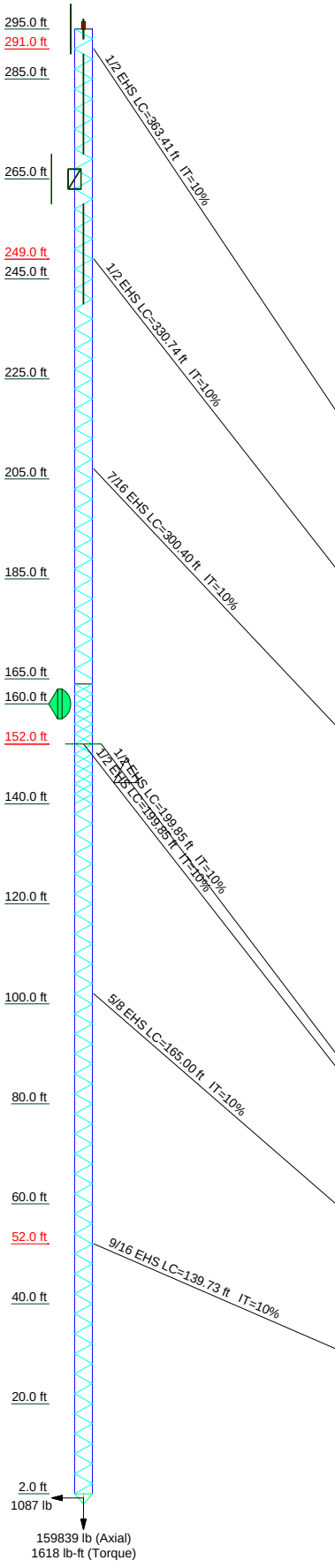
15- The purchaser shall be responsible to inspect condition of underground anchors prior to work on towers, and to furnish any and all soils reports, where required.

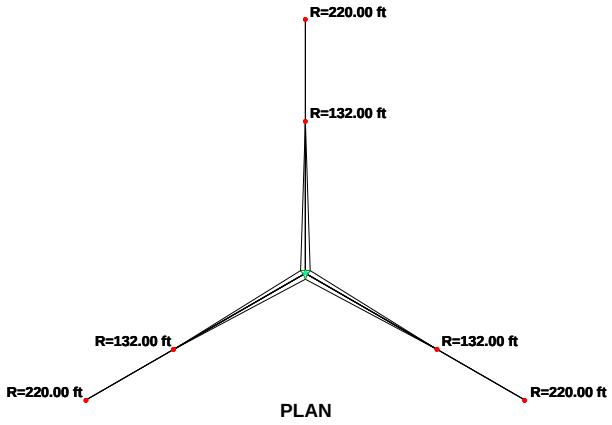
16- Any and all permits, licenses, or payment of taxes required for construction are the sole responsibility of the purchaser.

17- Manufacturer Assistance: Contractors / Erectors may contact Ehresmann Engineering, Inc. at (605) 665-7532 for questions on design, materials, or installation procedures regarding items furnished by Ehresmann Engineering, Inc.

18- Ehresmann Engineering, Inc. is available, upon request, to supervise installation and/or completion of modifications, or to provide on-site inspection after project completion.

Section	Legs	Leg Grade	Diagonals	Diagonal Grade	Top Girts	Face Width (ft)	# Panels @ (ft)	Weight (lb) 12239.4
T1	V4x4x1/4	A572-50	L1 3/4x1 3/4x3/16	A36	A	4	147 @ 2	405.6
T2					N.A.			747.0
T3								747.0
T4								747.0
T5								747.0
T6								747.0
T7								747.0
T8					B			261.4
T9					N.A.			1606.0
T10								747.0
T11								747.0
T12								747.0
T13								747.0
T14								747.0
T15								747.0
T16	V4x4x3/8		L2x2x1/4					1001.9





PLAN

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Flash Beacon Lighting (Proposed)	295	101-90-08-0-03 (10' Whip) (Proposed)	265
Lightning Rod (Proposed)	295	6' Side Arm (Proposed)	265
101-90-08-0-03 (10' Whip) (Proposed)	295	TTA	265
1' Side Arm (Proposed)	295	BCD-87010 (Proposed)	250
BCD-87010 (Proposed)	280	4' Side Arm (Proposed)	250
4' Side Arm (Proposed)	280	Andrew 6' w/Radome	160

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	L2x2x3/16	B	L1 3/4x1 3/4x3/16

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

1. Tower is located in Union County, South Dakota.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. Weld together tower sections have flange connections.
9. Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
10. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
11. Welds are fabricated with ER-70S-6 electrodes.
12. TORQUE ARM ENTERED FOR WEIGHT AND AREA ONLY
13. PROPOSED TOWER EXTENSION FROM 165'-295' IS PRELIMINARY ONLY.
14. NEW OUTER ANCHOR TO BE INSTALLED FOR PROPOSED EXTENSION
15. TOWER RATING: 72.6%

ALL REACTIONS ARE FACTORED

Ehresmann Engineering
4400 W. 31st. Street
Yankton, SD 57078
Phone: (605) 665-7532
FAX: (605) 665-9870

Job:	***38176 - Rasmusssen. SD***		
Project:	***165' Rohn 48 GT (Extended to 295')***		
Client: East River Energy	Drawn by: JS	App'd:	
Code: TIA-222-G	Date: 02/25/15	Scale: NTS	
Path: C:\Jared\RISA Analysis\38176 - Rasmussen, SD.eri		Dwg No. E-1	

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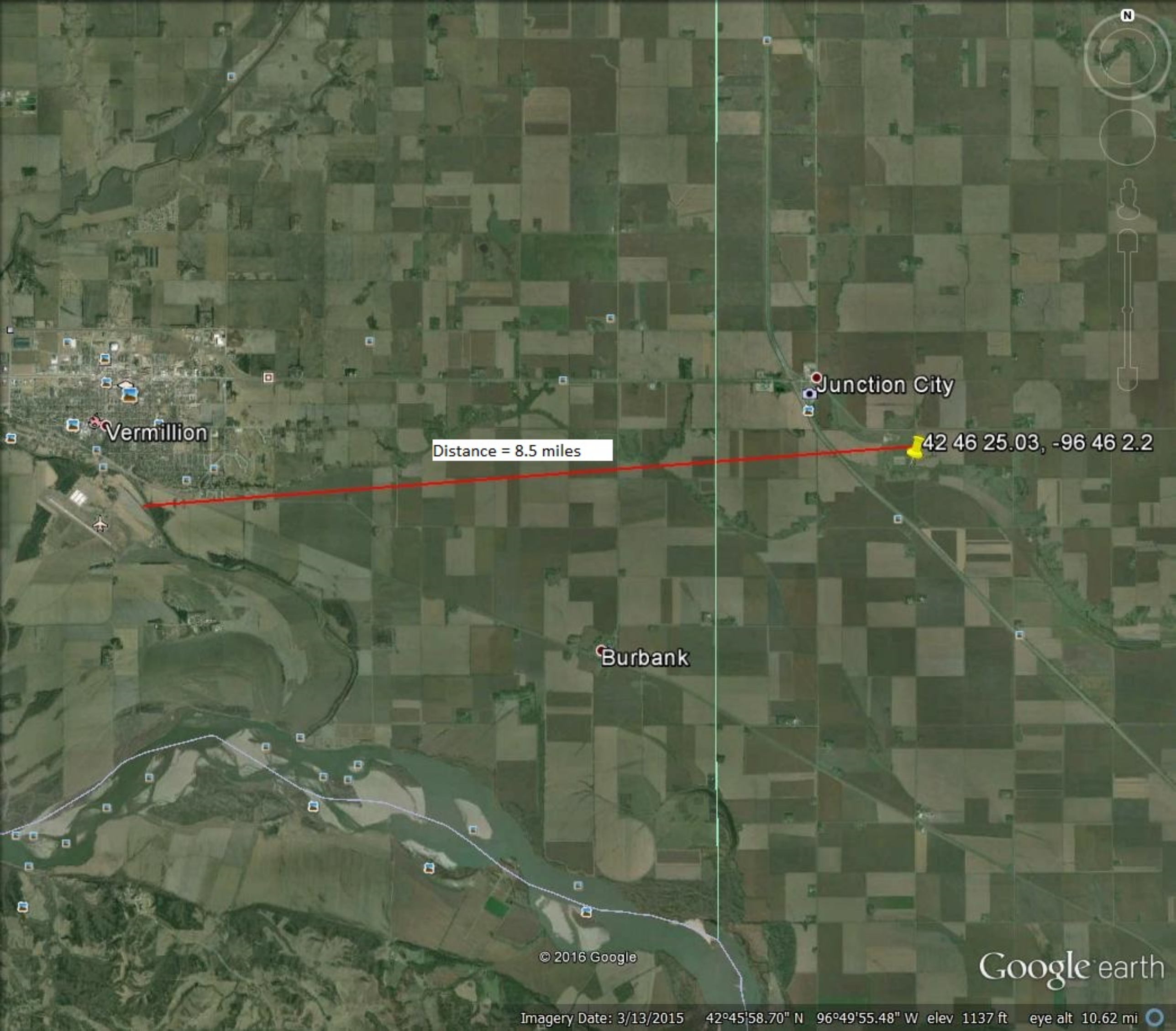
N
Junction City
Vermillion
Distance = 8.5 miles
42 46 25.03, -96 46 2.2
Burbank
© 2016 Google
Google earth
Imagery Date: 3/13/2015 42°45'58.70" N 96°49'55.48" W elev 1137 ft eye alt 10.62 mi

City of Mitchell

612 NORTH MAIN STREET • MITCHELL, SOUTH DAKOTA 57301 • (605) 995-8420 • FAX (605) 995-8410
ENGINEER (605) 995-8435 • WATER PLANT (605) 995-8449 • STREET (605) 995-8465 • WASTE WATER (605) 995-8446
WATER/UTILITIES (605) 995-8498 • PUBLIC WORKS/PLANNING/ZONING/INSPECTOR (605) 995-8433
www.cityofmitchell.org

Airport Manager 605-770-4594

February 8, 2016

ATT:Jennifer Boehm
Mr. John Becker
South Dakota Aeronautics Commission

RE: 2016 Air Venture Cup (Race Launch)

Hi Jennifer,

Once again I am pleased to announce that Mitchell will be hosting the 4th, Air Venture Cup Race \ Launch. Planning is underway regarding various details of the event. The event will be held July 22nd -23rd , with the launch scheduled for Sunday the 24th. I would once again like to invite all members of the Aeronautics commission, and staff to attend. We are planning arrangements similar to last , with great food , lots of fun and the return of the "Young Eagles" program. What a fantastic way to promote aviation in the State of South Dakota.

I would like to ask the Aeronautics commission if they would like to continue to help with some of the associated costs in 2016. This would be very similar to the level of participation with the past events. This would include the noon luncheon for participating pilots , staff, and volunteers. It may include additional advertising and various rentals for the event. I feel a reasonable amount would be up to $2,500. Any participation would be welcome, and receipts will be provided for verification of any reimbursements. Thank you for your time and consideration of this matter. We would like to continue to secure this event for the State of South Dakota.

Sincerely,

Mike Scherschligt
Airport Manager

Department of Transportation
Division of Secretariat
Office of Air, Rail & Transit
700 East Broadway Avenue
Pierre, South Dakota 57501-2586
OFFICE: 605/773-3574
FAX: 605/773-2804

TO: South Dakota Aeronautics Commission

FROM: Jon Becker
Office of Air, Rail, and Transit

DATE: February 23, 2016

SUBJECT: 2016 Air Venture Cup at Mitchell

The 2016 Air Venture Cup race launch will take place July 22nd-23rd at the Mitchell Airport. This event attracts many people and requires considerable effort, preparation and cleanup by the city and airport staff. The city of Mitchell is requesting that the Commission consider supporting this event with a $2,500 grant.