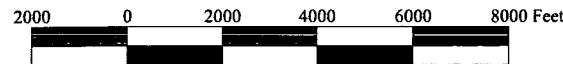
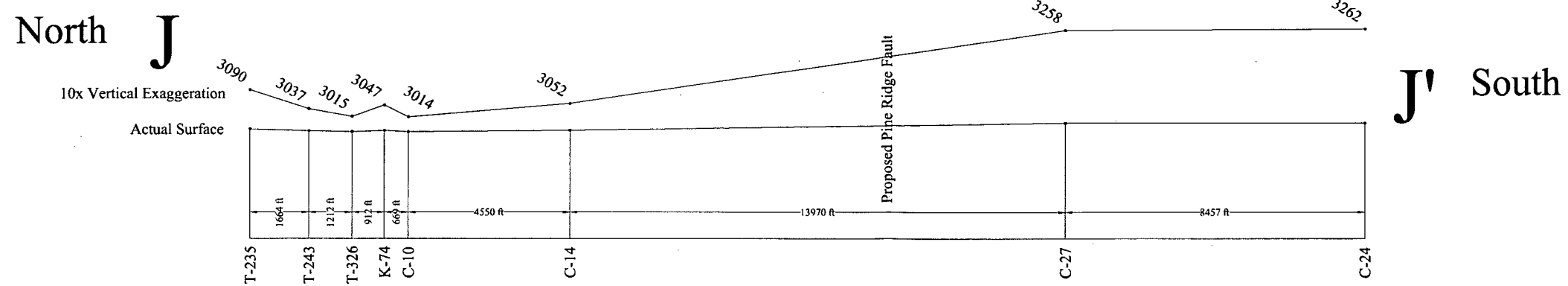
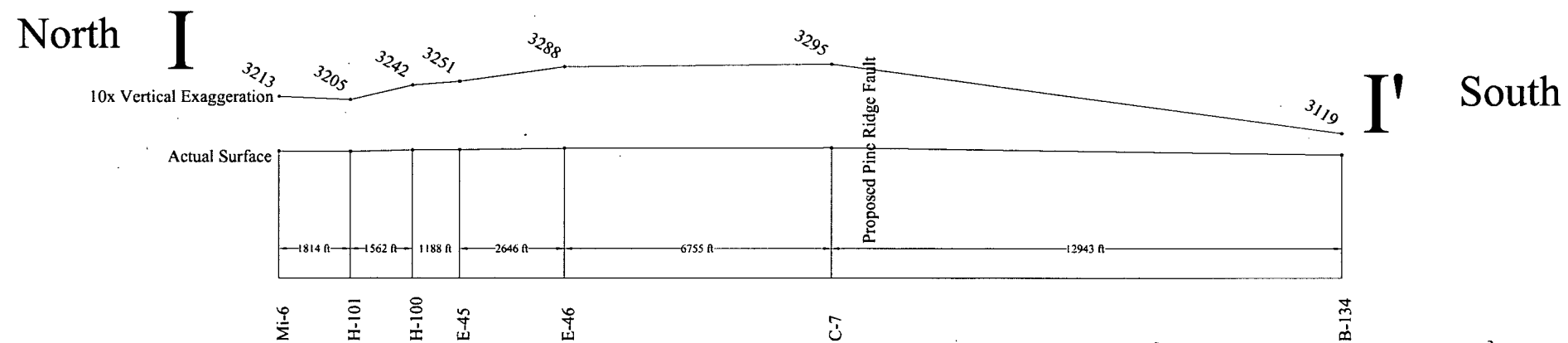
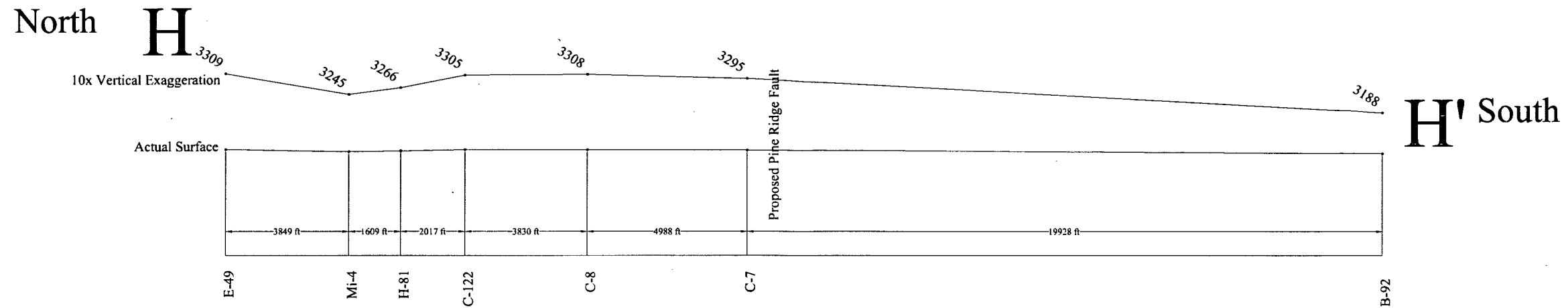


PATH: K:\CIBR\_Projects\CO001396\_ThreeCrow\1\_ACAD\Drawings\Hydro-XS.dwg LAYOUT: ER\_15b\_SAVED DATE/TIME: 04/20/10 9:35 PM



**CROW BUTTE  
RESOURCES, INC.**

**FIGURE 3.3-15b  
THREE CROW STRUCTURAL  
CROSS-SECTIONS H-H', I-I', AND J-J'  
(TOP OF PIERRE SHALE)**

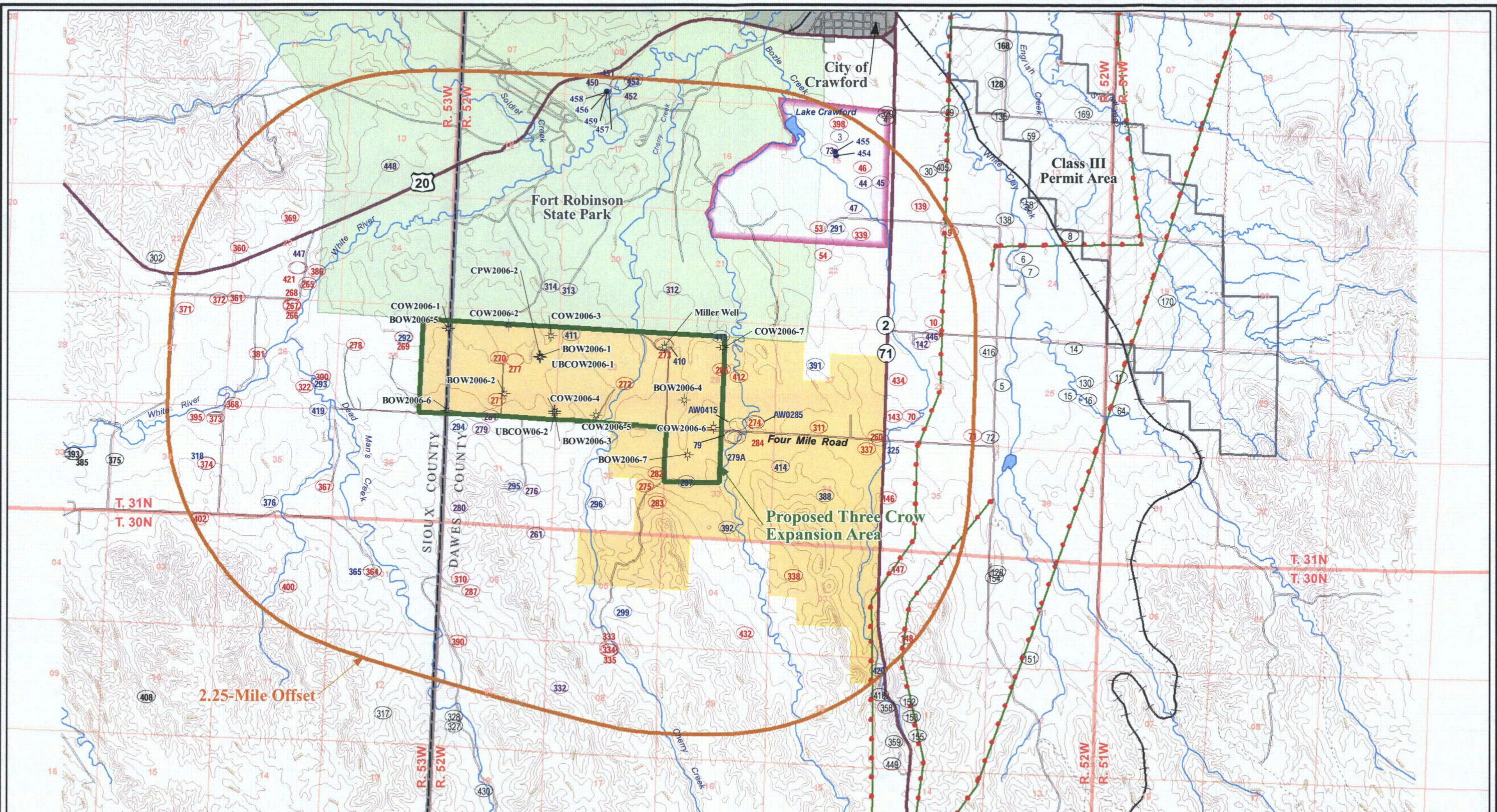
PROJECT: CO001396    MAPPED BY: JC    CHECKED BY: MS



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www.arcadis-us.com



K:\CBR\_P\Projects\CO001396\_ThreeCrow2\_GIS\ArcMaps\0001\_TR\TR Fig. 2-4 GroundwaterWells\_and\_AOR.mxd - 5/5/2010 @ 2:25:08 PM



<b>LEGEND</b>			
☆ Monitoring Well	● Active Public Water Supply Well	— Transmission Line	— Railroad
<b>Private Wells</b>	■ Proposed Three Crow Expansion Area	— Highway	■ Fort Robinson State Park
④ Active Surveyed Well	■ 2.25-Mile Area of Review (AOR)	— County Boundary	■ Leased Area
② Active Unsurveyed Well	— River/Creek	— Elevation Contour (50-Ft Interval)	■ City of Crawford
③ Abandoned Well	— Lake	— Road	■ City of Crawford's Wellhead Protection Area
⑤ Well Located outside of AOR	— Class III Permit Area	⋯ Trail	

0 2,000 4,000  
Scale in Feet

PROJECTION:  
NAD\_1927\_STATEPLANE  
NEBRASKA\_NORTH\_FIPS\_2601  
ALL ELEVATIONS ARE IN FT-AMSL.

**CROW BUTTE RESOURCES, INC.**

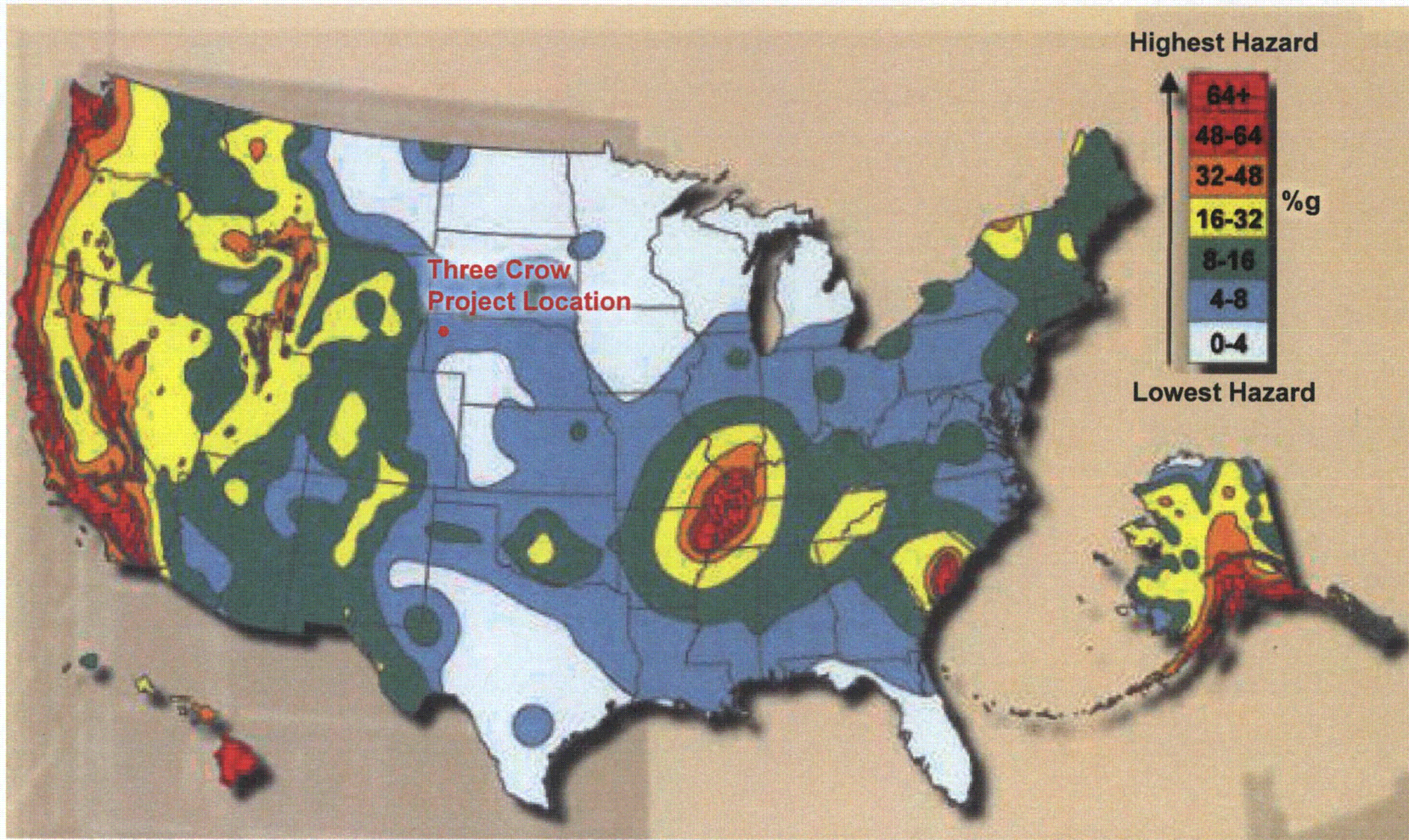
**FIGURE 3.4-1**  
**LOCATION OF GROUNDWATER WELLS IN THE THREE CROW EXPANSION AREA AND 2.25-MILE AREA OF REVIEW**

PROJECT: CO001396.00003      MAPPED BY: JC      CHECKED BY: MS

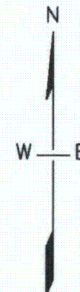
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K:\CBR\_Projects\CO001396\_ThreeCrow\3\_IMAGES\Illustrator\ER Fig\_3\_3-16 Earthquake Hazard Ranking in the US.ai @ 01/13/2010



SOURCE: SD 2008



CROW BUTTE  
RESOURCES, INC.

**FIGURE 3.3-16**  
**EARTHQUAKE HAZARD RANKING**  
**IN THE U.S.**

PROJECT: CO001396.00001

MAPPED BY: JC

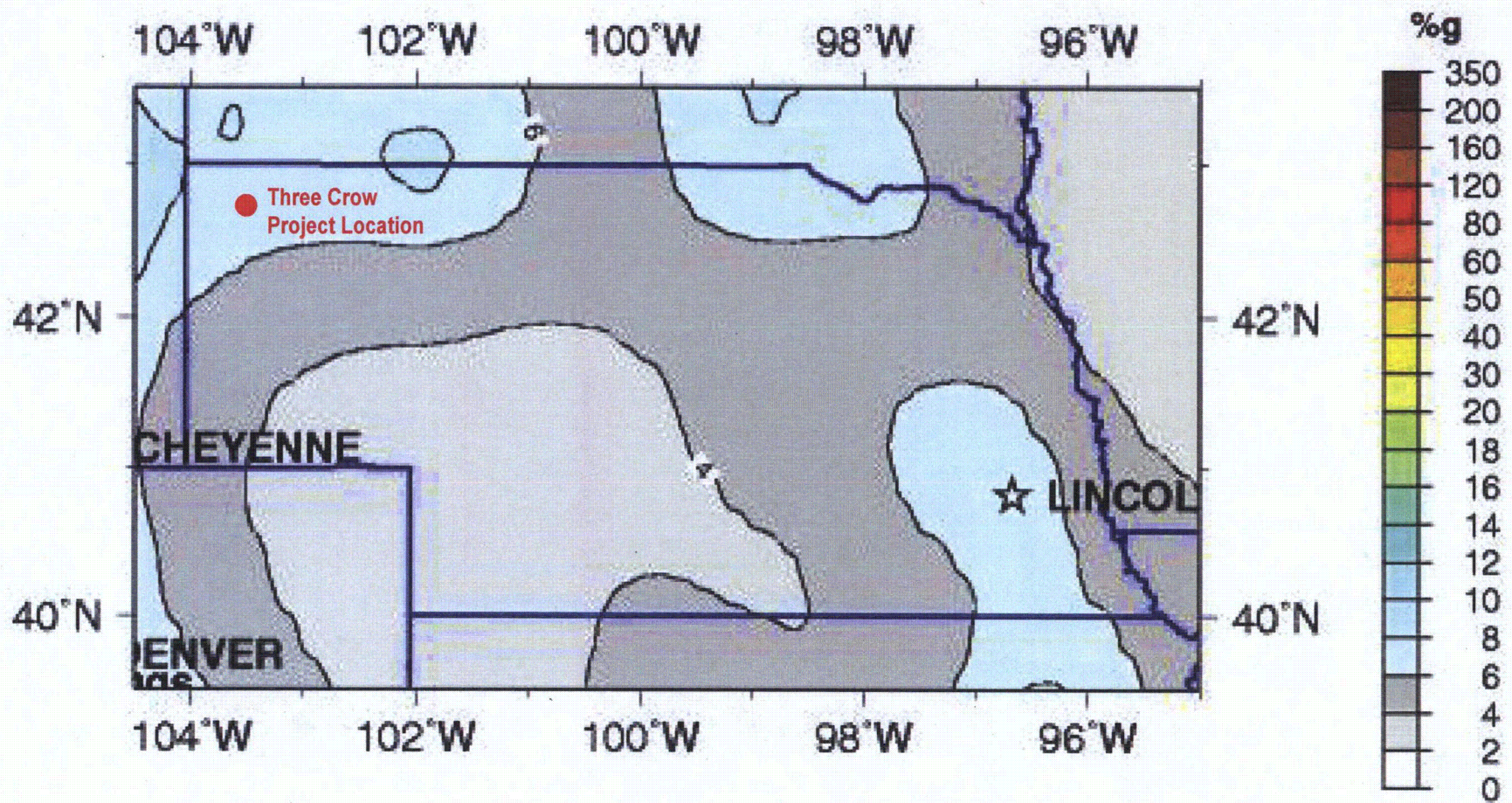
CHECKED BY: JEC



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Highlands Ranch, CO 80129  
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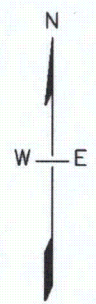



K:\CBR\_Projects\CO001396\_ThreeCrow3\_IMAGES\Illustrator\ER Fig\_3\_3-17 Seismic Hazard Map for Nebraska.ai @ 01/09/2010



Peak Acceleration (%g) with 2% Probability of Exceedance in 50 Years  
Site: NEHRP B-C boundary  
National Seismic Hazard Mapping Project (Peterson, M.D. 2008)


SOURCE: USGS 20009a



 **CROW BUTTE RESOURCES, INC.**

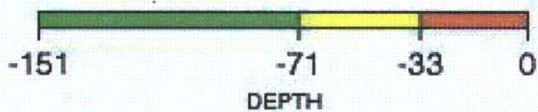
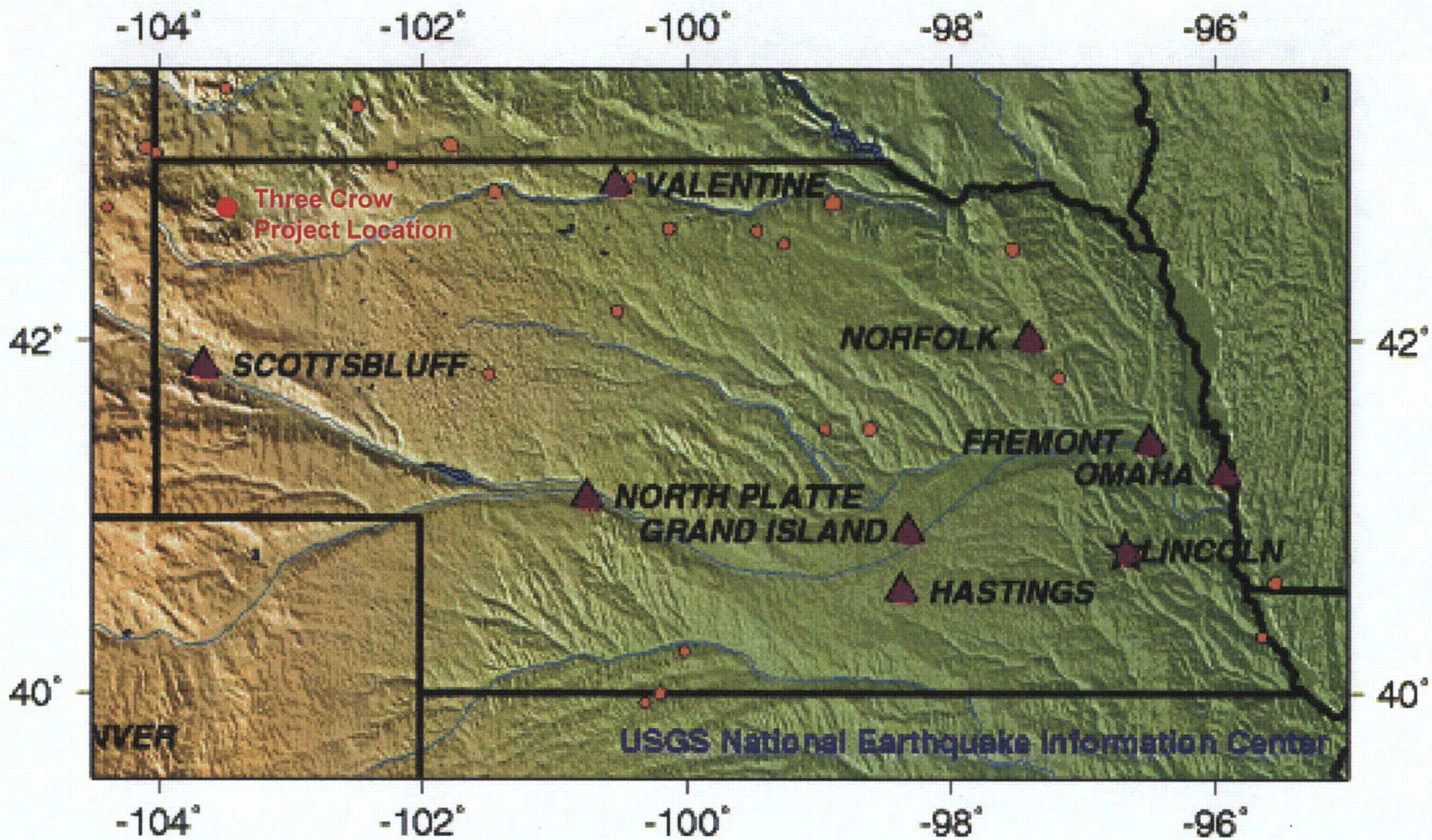
**FIGURE 3.3-17  
SEISMIC HAZARD MAP  
FOR NEBRASKA (2008)**

PROJECT: CO001396.00001    MAPPED BY: JC    CHECKED BY: LW

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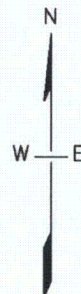


K:\CBR\_Projects\CO001396\_ThreeCrow\3\_IMAGES\Illustrator\ER\_Fig\_3-18 Seismicity of Nebraska 1990-2006.ai @ 01/13/2010



Depth is in kilometers.  
 Purple Triangles: Cities  
 Purple Star: Capital City  
 Circles: Earthquakes (color represents depth range)  
 Earthquake locations are from the USGS/NEIC PDE catalog

SOURCE: USGS 2009e



**CROW BUTTE  
RESOURCES, INC.**

**FIGURE 3.3-18  
SEISMICITY OF NEBRASKA  
1990-2006**

PROJECT: CO001396.00001

MAPPED BY: JC

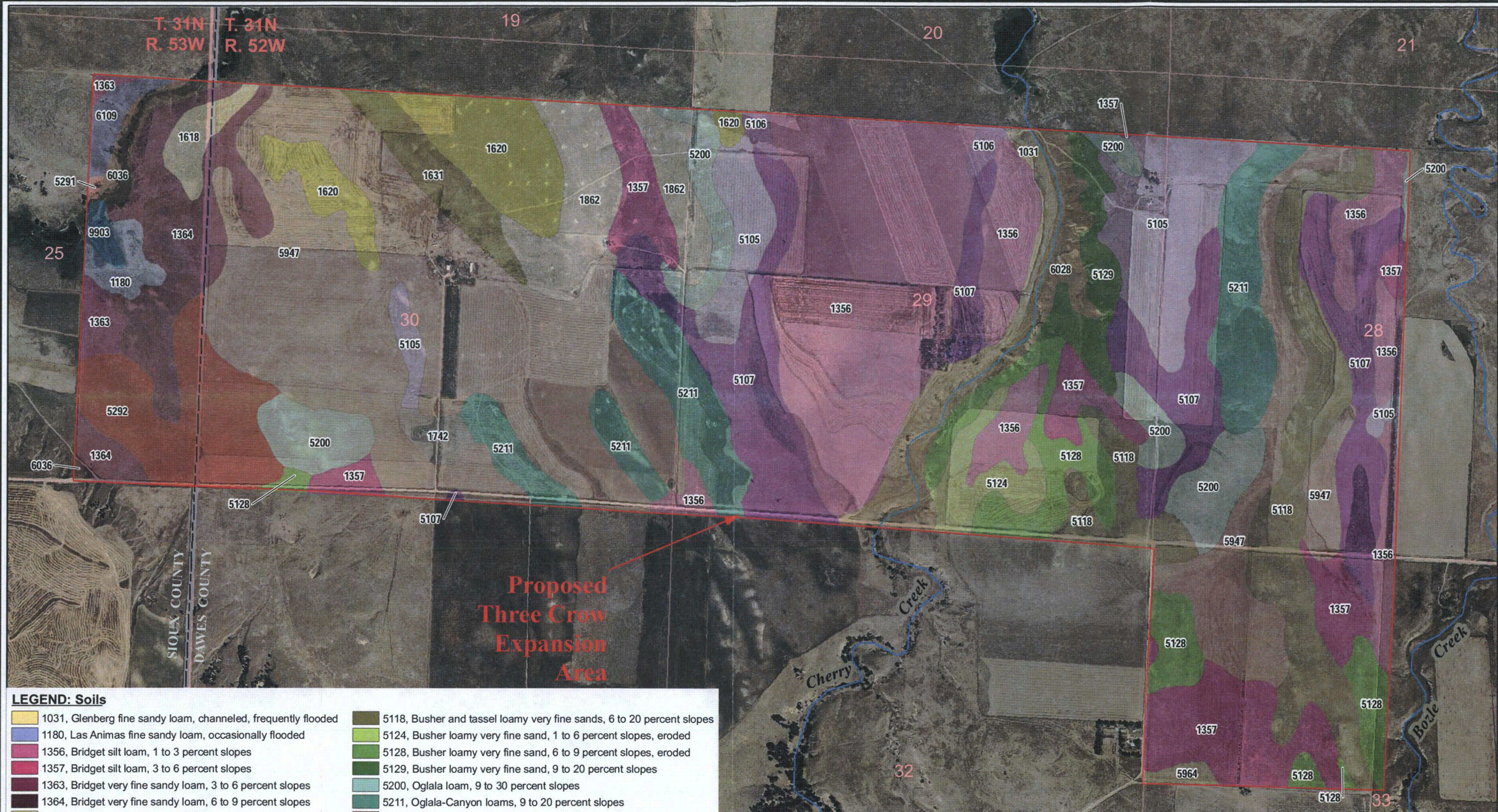
CHECKED BY: LW



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 P: 720-344-3500 F: 720-344-3535  
 www.arcadis-us.com



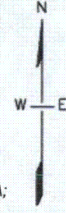
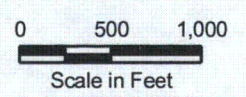
K:\ICBR\_Projects\CO001396\_GIS\ArcMaps\0004\_ERIER Fig\_3\_3-19\_Soil.mxd - 7/19/2010 @ 2:46:38 PM



**Proposed  
Three Crow  
Expansion  
Area**

**LEGEND: Soils**

- |   |   |
|---|---|
| 1031, Glenberg fine sandy loam, channeled, frequently flooded | 5118, Busher and tassel loamy very fine sands, 6 to 20 percent slopes |
| 1180, Las Animas fine sandy loam, occasionally flooded        | 5124, Busher loamy very fine sand, 1 to 6 percent slopes, eroded      |
| 1356, Bridget silt loam, 1 to 3 percent slopes                | 5128, Busher loamy very fine sand, 6 to 9 percent slopes, eroded      |
| 1357, Bridget silt loam, 3 to 6 percent slopes                | 5129, Busher loamy very fine sand, 9 to 20 percent slopes             |
| 1363, Bridget very fine sandy loam, 3 to 6 percent slopes     | 5200, Oglala loam, 9 to 30 percent slopes                             |
| 1364, Bridget very fine sandy loam, 6 to 9 percent slopes     | 5211, Oglala-Canyon loams, 9 to 20 percent slopes                     |
| 1618, Keith loam, 1 to 3 percent slopes                       | 5291, Vetal very fine sandy loam, 1 to 3 percent slopes               |
| 1620, Keith silt loam, 1 to 3 percent slopes                  | 5292, Vetal very fine sandy loam, 3 to 6 percent slopes               |
| 1631, Keith silt loam, 3 to 9 percent slopes                  | 5947, Duroc very fine sandy loam, 1 to 3 percent slopes               |
| 1742, Rosebud-Canyon loams, 3 to 9 percent slopes             | 5964, Jayem and Vetal loamy very fine sands, 6 to 9 percent slopes    |
| 1862, Ulysses silt loam, 9 to 20 percent slopes               | 6028, Tassel soils, 3 to 30 percent slopes                            |
| 5105, Alliance silt loam, 1 to 3 percent slopes               | 6036, Tassel-Busher-Rock outcrop complex, 6 to 30 percent slopes      |
| 5106, Alliance silt loam, 3 to 9 percent slopes               | 6109, Sarben loamy very fine sand, 9 to 30 percent slopes             |
| 5107, Alliance silt loam, 3 to 9 percent slopes, eroded       | 9903, Fluvaquents, sandy, frequently flooded                          |



PROJECTION:  
NAD\_1927\_STATE\_PLANE  
NEBRASKA\_NORTH\_FIPS\_2601  
SOURCE:  
AERIAL - NAIP 2006, SIOUX COUNTY & DAWES COUNTY, NEBRASKA;  
SOILS - NRCS SOIL MART, NE045, NE165



**CROW BUTTE  
RESOURCES, INC.**

**FIGURE 3.3-19  
THREE CROW EXPANSION AREA  
SOILS MAP**

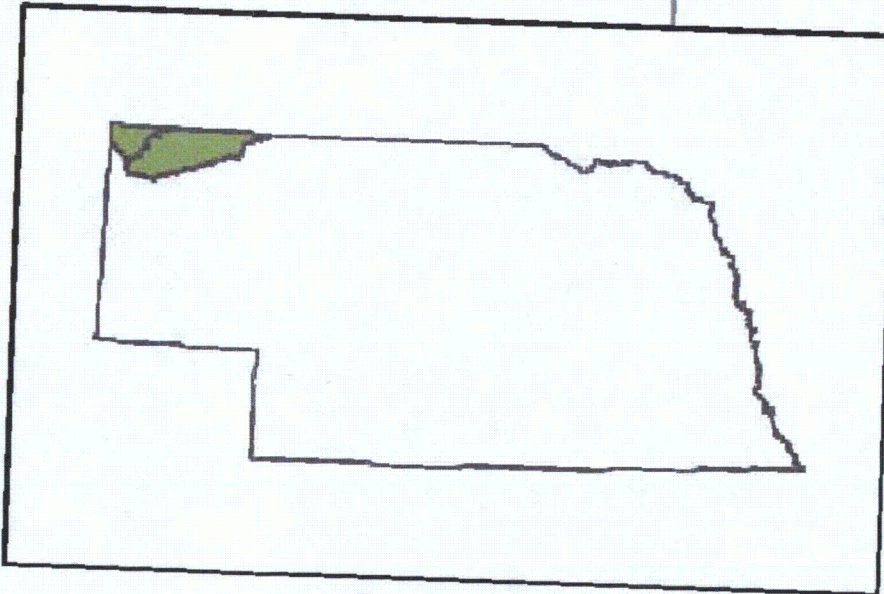
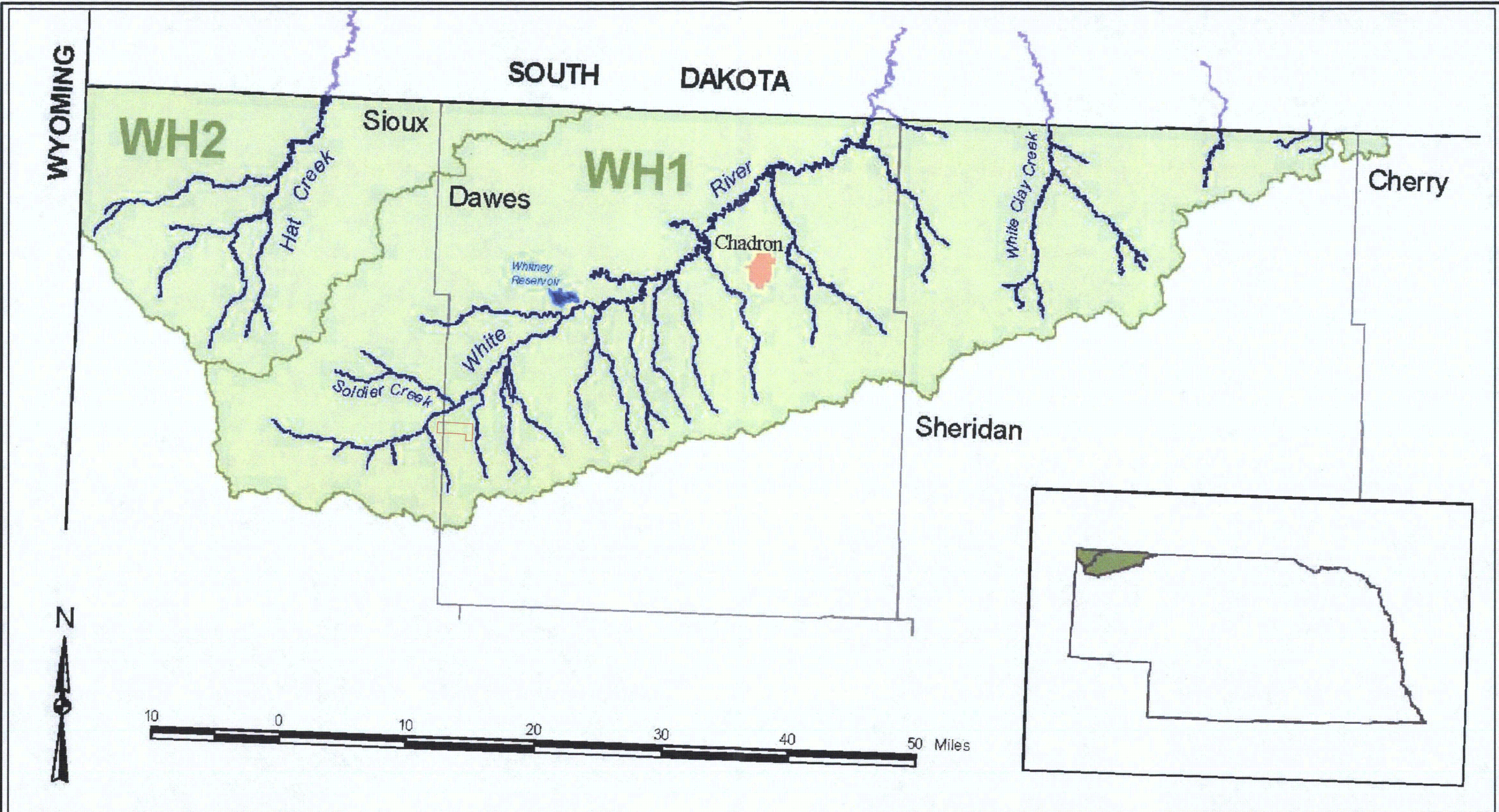
PROJECT: CO001396.00001      MAPPED BY: JC      CHECKED BY: LW



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K:\CIBR\_Projects\CO001396\_ThreeCrow2\_GIS\ArcMaps\0001\_TRITR\Fig\_2\_7-1\_White River Hat Creek Basin.mxd - 5/24/2010 @ 11:30:50 AM



**LEGEND**

 Proposed Three Crow Expansion Area


 CROW BUTTE RESOURCES, INC.

**FIGURE 3.4-2  
WHITE RIVER-HAT CREEK BASIN  
(AND SUBBASINS)**

PROJECT: CO001396.00003

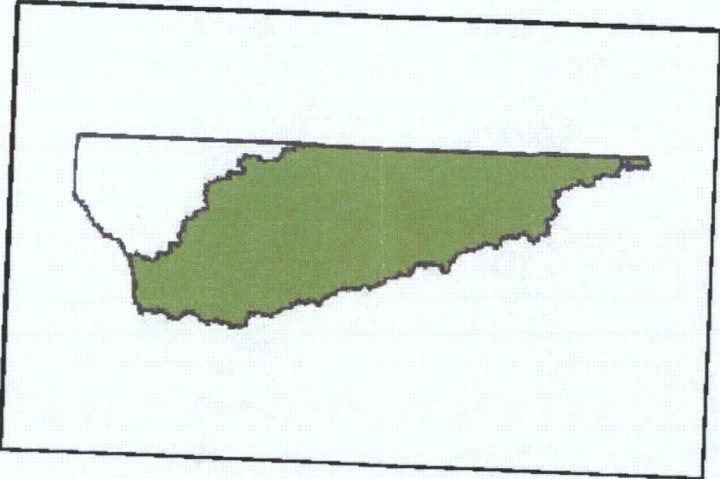
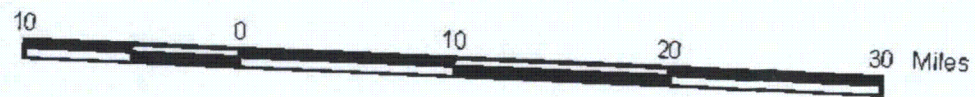
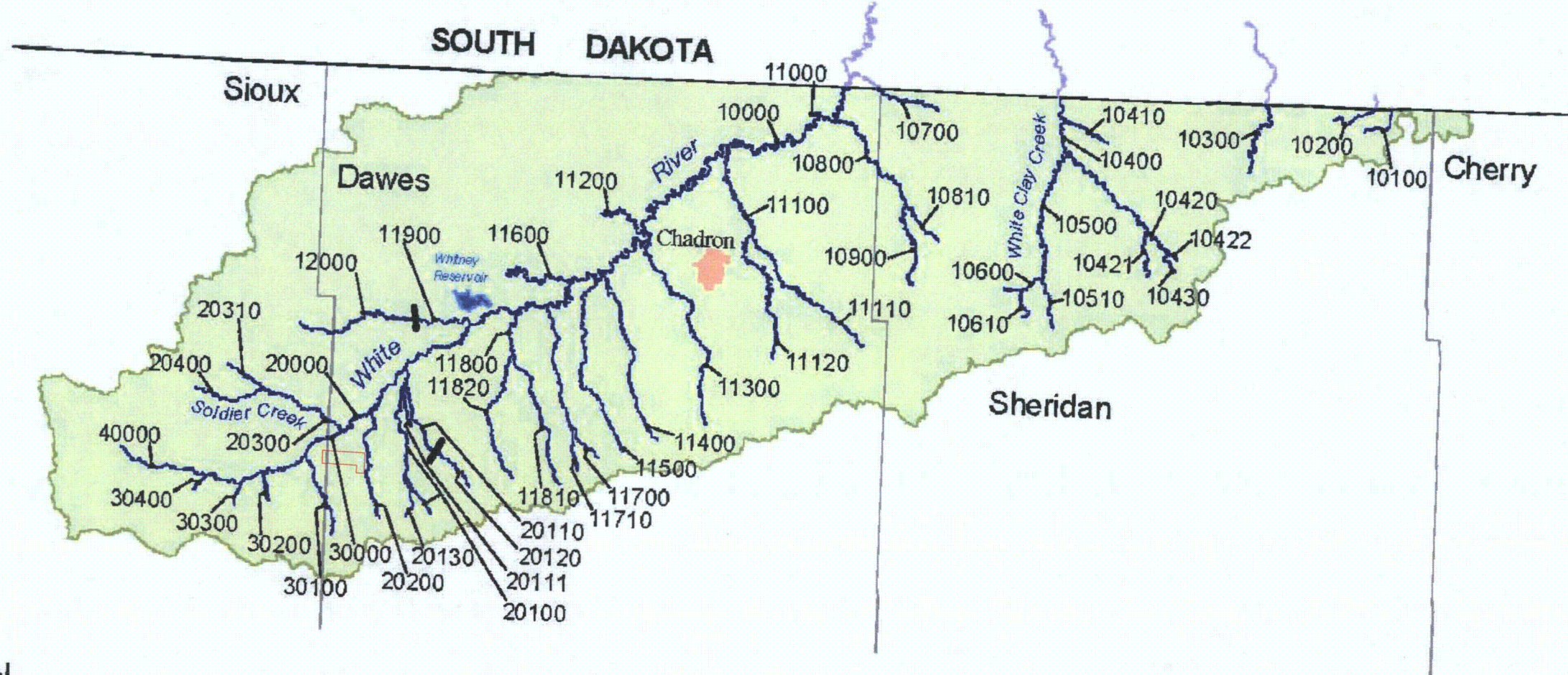
MAPPED BY: MSH

CHECKED BY: JC

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# Subbasin WH1



**LEGEND**

 Proposed Three Crow Expansion Area

 CROW BUTTE RESOURCES, INC.

**FIGURE 3.4-3  
WHITE RIVER-HAT CREEK BASIN  
SUBBASINS WH1**

PROJECT: CO001396.00003

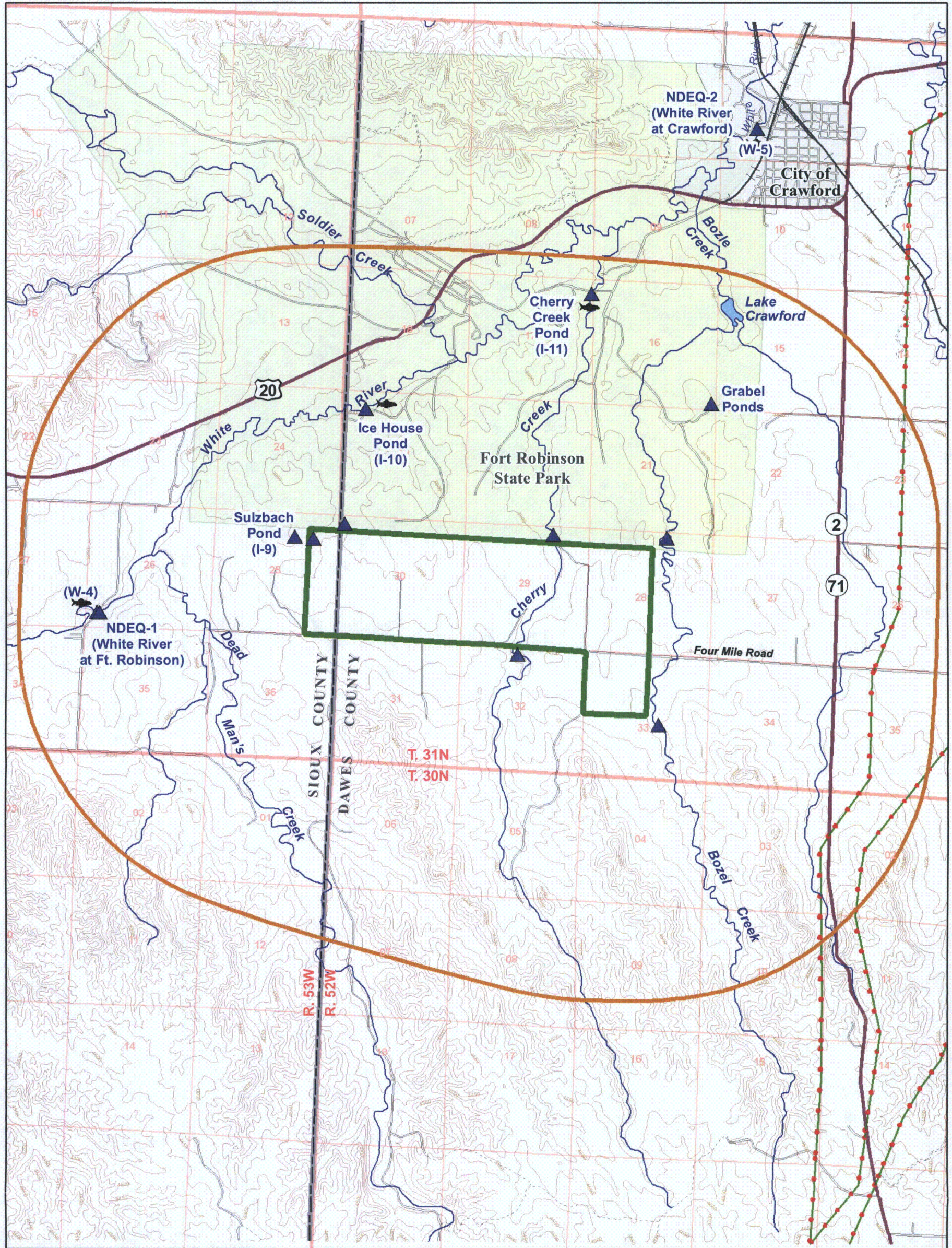
MAPPED BY: MSH

CHECKED BY: JC

 ARCADIS

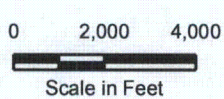
530 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com



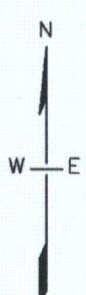


**LEGEND**

- Proposed Three Crow Expansion Area and Class III Permit Boundary
- 2.25-Mile Area of Review (AOR)
- Lake
- River/Creek
- Transmission Line
- County Boundary
- Surface Water Sample Point
- Fish Sampling Location
- Elevation Contour (50-Ft Interval)
- Railroad
- Highway
- Road
- Trail



PROJECTION:  
NAD\_1927\_STATE\_PLANE  
NEBRASKA\_NORTH\_FIPS\_2601  
ALL ELEVATIONS ARE IN FT-AMSL



**CROW BUTTE  
RESOURCES, INC.**

**FIGURE 3.4-4  
THREE CROW AREA  
SURFACE WATER SAMPLING LOCATIONS**

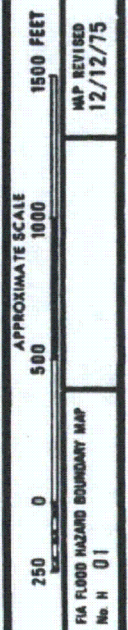
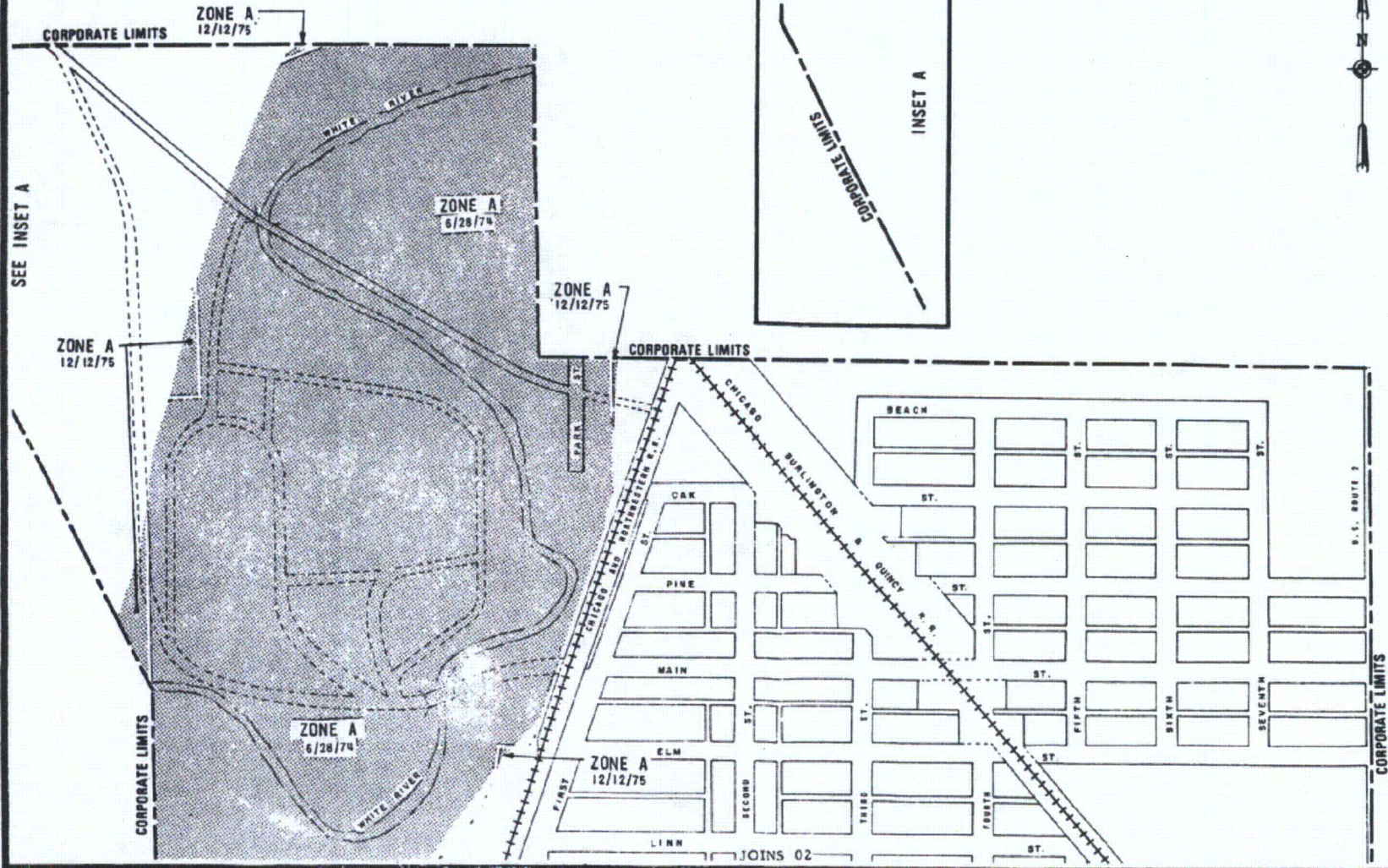
PROJECT: CO001396.00001      MAPPED BY: JC      CHECKED BY: JEC



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Highlands Ranch, CO 80129  
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K:\CIBR\_Projects\CO001396\_ThreeCrow2\_GIS\Map\3960001\_TR1TR Fig\_2\_7-3 3Crow Area Surface Water Sampling.mxd - 7/6/2010 @ 11:18:07 AM





DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
Federal Insurance Administration  
**CITY OF CRAWFORD, NB**  
(DAWES CO.)  
**01**



**CROW BUTTE  
RESOURCES, INC.**

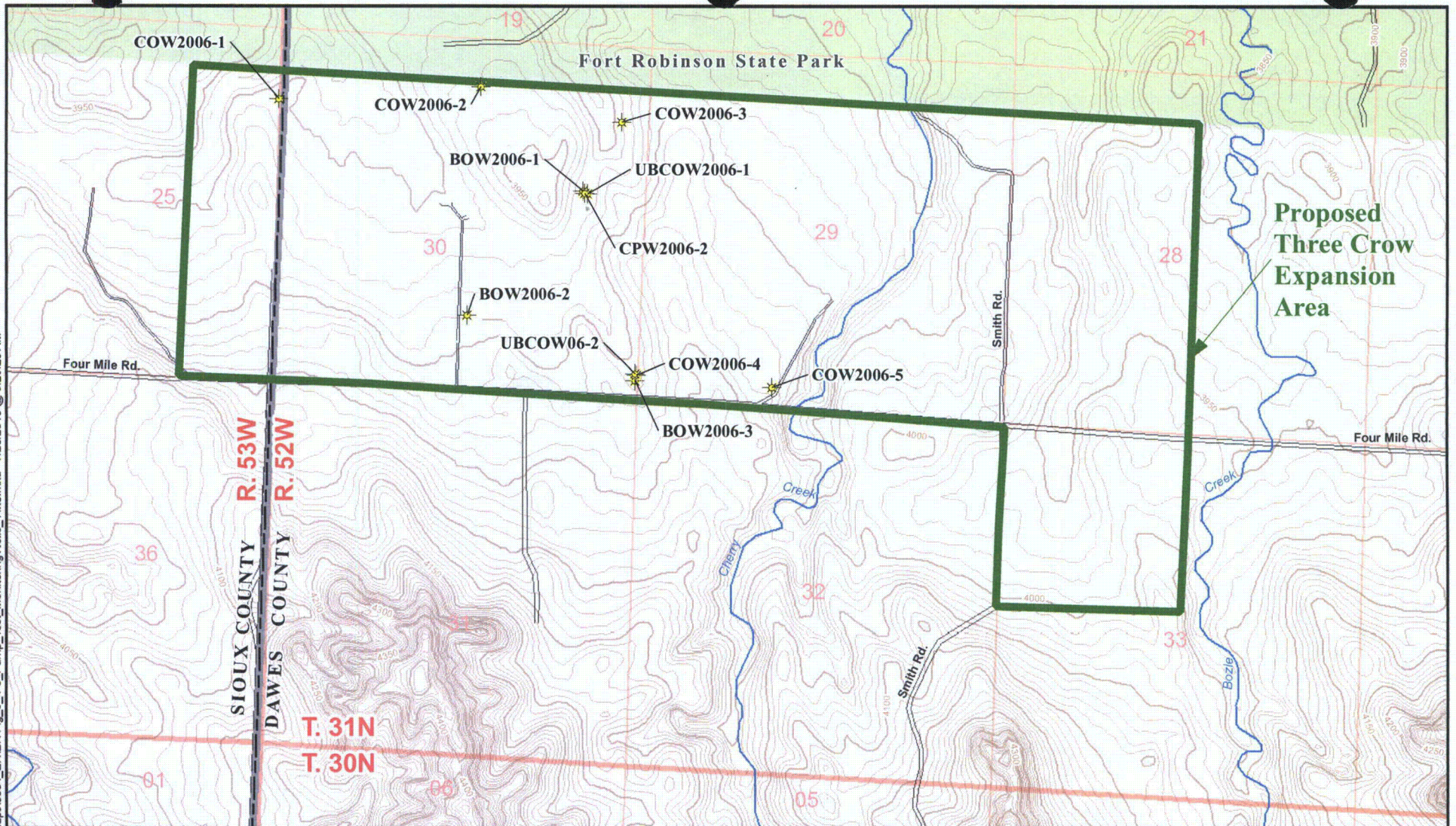
**FIGURE 3.4-5  
FEMA FLOOD MAP**

PROJECT: CO001396.00002      MAPPED BY: JC      CHECKED BY: JEC

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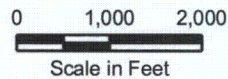


K:\ICBR\_Projects\CO001396\_ThreeCrow2\_GIS\arcmaps\0004\_ER\ER Fig. 3\_4-6\_Pump\_Test\_MonitoringWells\_11x8.mxd - 7/23/2010 @ 9:28:25 AM

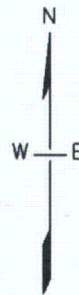


**LEGEND**

- Monitoring Well
- Proposed Three Crow Expansion Area
- Fort Robinson State Park
- River/Creek
- County Boundary
- Elevation Contour (10-Ft Interval)
- Road



PROJECTION:  
NAD 1927, STATE PLANE  
NEBRASKA NORTH FIPS 2601



**CROW BUTTE  
RESOURCES, INC.**

**FIGURE 3.4-6  
LOCATION OF THREE CROW  
PUMPING TEST MONITORING WELLS**

PROJECT: CO001396.00003

MAPPED BY: JC

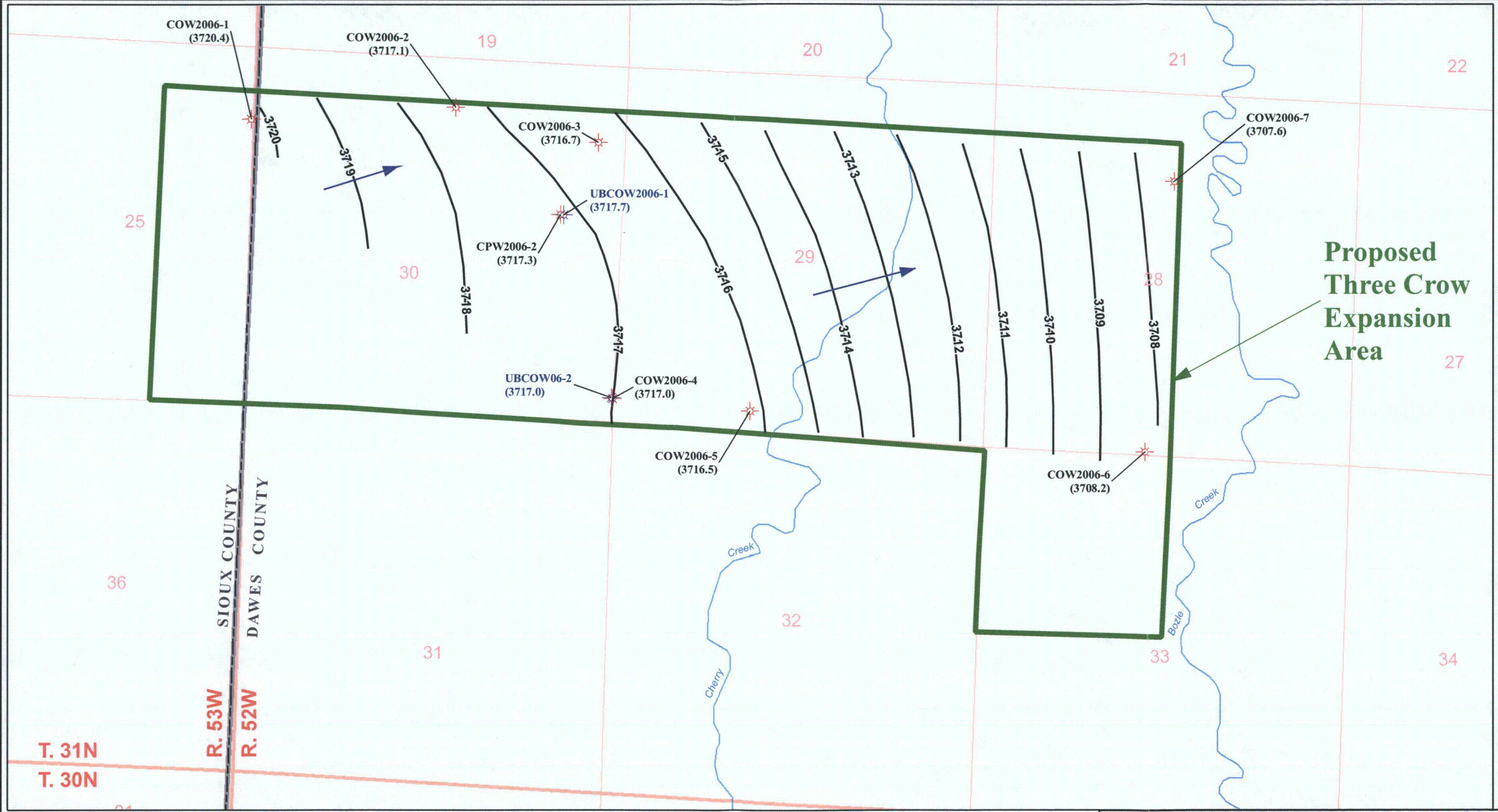
CHECKED BY: MS



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K:\CIBR\_Projects\CO001396\_ThreeCrow2\_GIS\ArcMap\0004\_ERIER\_Fig\_3\_4-7\_PotentiometricSurface\_BasalChadronSandstone.mxd - 7/19/2010 @ 10:16:17 PM



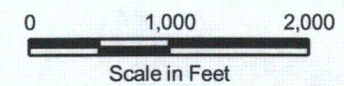
**Proposed  
Three Crow  
Expansion  
Area**

**LEGEND**

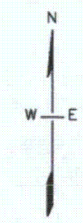
- Lower Basal Chadron Sandstone Monitoring Well
- Upper Basal Chadron Sandstone Monitoring Well
- (3720.5) Groundwater Elevation (FT-AMSL)
- River/Creek
- County Boundary
- Groundwater Flow Direction

Proposed Three Crow Expansion Area

- Notes:
- Groundwater elevations are shown for wells screened in the Upper Basal Chadron Sandstone, but were not included in contouring.
  - All elevations are in ft-amsl.



PROJECTION:  
NAD 1927, STATE PLANE  
NEBRASKA NORTH FIPS 2601



CROW BUTTE  
RESOURCES, INC.

**FIGURE 3.4-7  
THREE CROW EXPANSION AREA  
POTENTIOMETRIC SURFACE -  
BASAL CHADRON SANDSTONE (01/22/2010)**

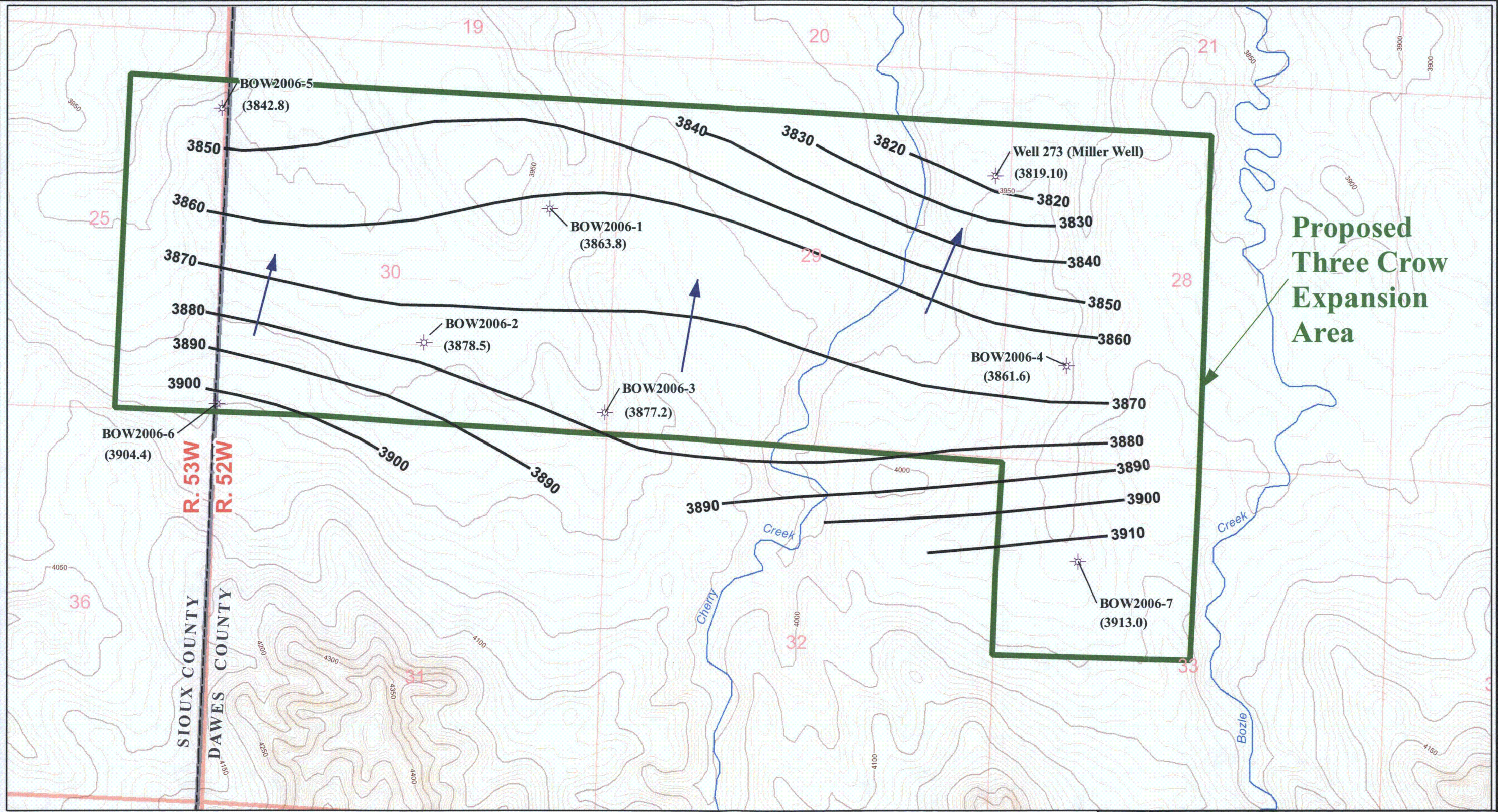
PROJECT: CO001396.0003      MAPPED BY: JC      CHECKED BY: MS



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K:\CIBR\Projects\CO001396\_ThreeCrow2\_GIS\ArcMap\0004\_ERIER\_Fig\_3\_4-8\_PotentiometricSurface\_BruleFm.mxd - 7/19/2010 @ 10:27:45 PM



**Proposed  
Three Crow  
Expansion  
Area**

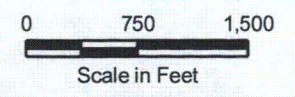
**LEGEND**

- Brule Formation Monitoring Well
- Groundwater Potentiometric Surface (FT-AMSL)
- (3879)** Groundwater Elevation (FT-AMSL)
- Groundwater Flow Direction
- River/Creek
- Elevation Contour (10-Ft Interval)
- County Boundary

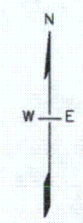
Proposed Three Crow Expansion Area

Notes:

1. Water levels at all well locations were collected on 1/22/2010, with the exception of Well 273 (Miller Well), which was collected on 2/8/10
2. All Elevations are in ft-amsl.



PROJECTION:  
NAD 1927, STATE PLANE  
NEBRASKA NORTH FIPS 2601



CROW BUTTE  
RESOURCES, INC.

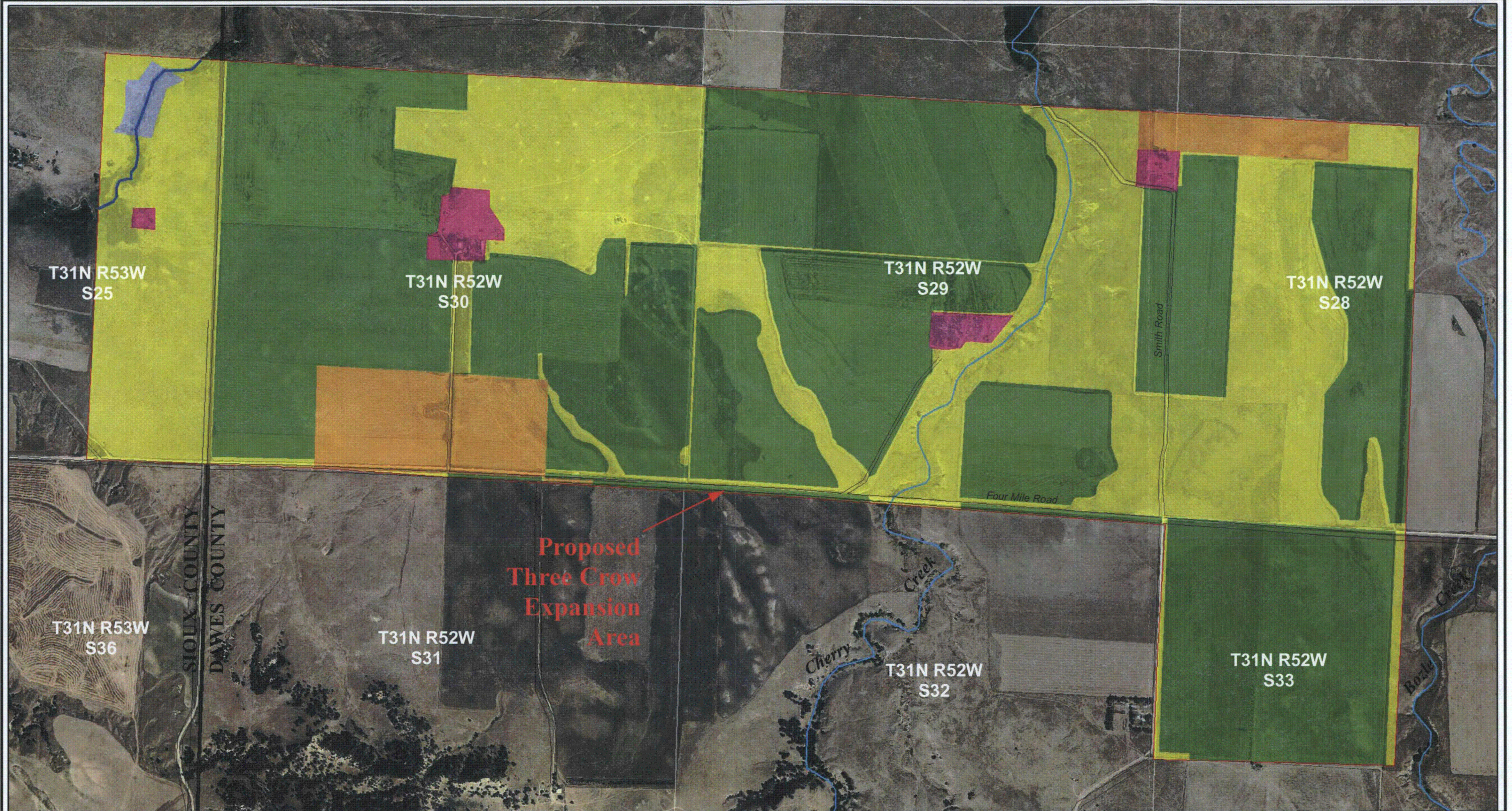
**FIGURE 3.4-8  
THREE CROW EXPANSION AREA WATER LEVEL MAP -  
BRULE FORMATION (01/22/10 & 02/08/10)**

PROJECT: CO001396.00003      MAPPED BY: JC      CHECKED BY: MS

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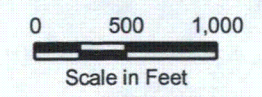


K:\CIBR\_Projects\C0001396\_ThreeCrow2\_GIS\ActMaps\0001\_IRYTR Fig\_2\_B-1\_Habitat.mxd - 5/17/2010 @ 3:27:48 PM



**LEGEND**

- |                                    |                     |                             |
|------------------------------------|---------------------|-----------------------------|
| Drainage                           | <b>Habitat Type</b> | Structure Biotope           |
| Road                               | Riverine            | Deciduous Streambank Forest |
| Proposed Three Crow Expansion Area | Mixed Grass Prairie | Range Rehabilitation        |
|                                    | Cultivated          |                             |



PROJECTION:  
 NAD\_1927\_STATEPLANE,  
 NEBRASKA\_NORTH\_FIPS\_2601  
 SOURCE:  
 AERIAL - NAIP 2006, SIOUX COUNTY & DAWES COUNTY, NEBRASKA;  
 HABITAT - ARCADIS FIELD SURVEY 2006



CROW BUTTE RESOURCES, INC.

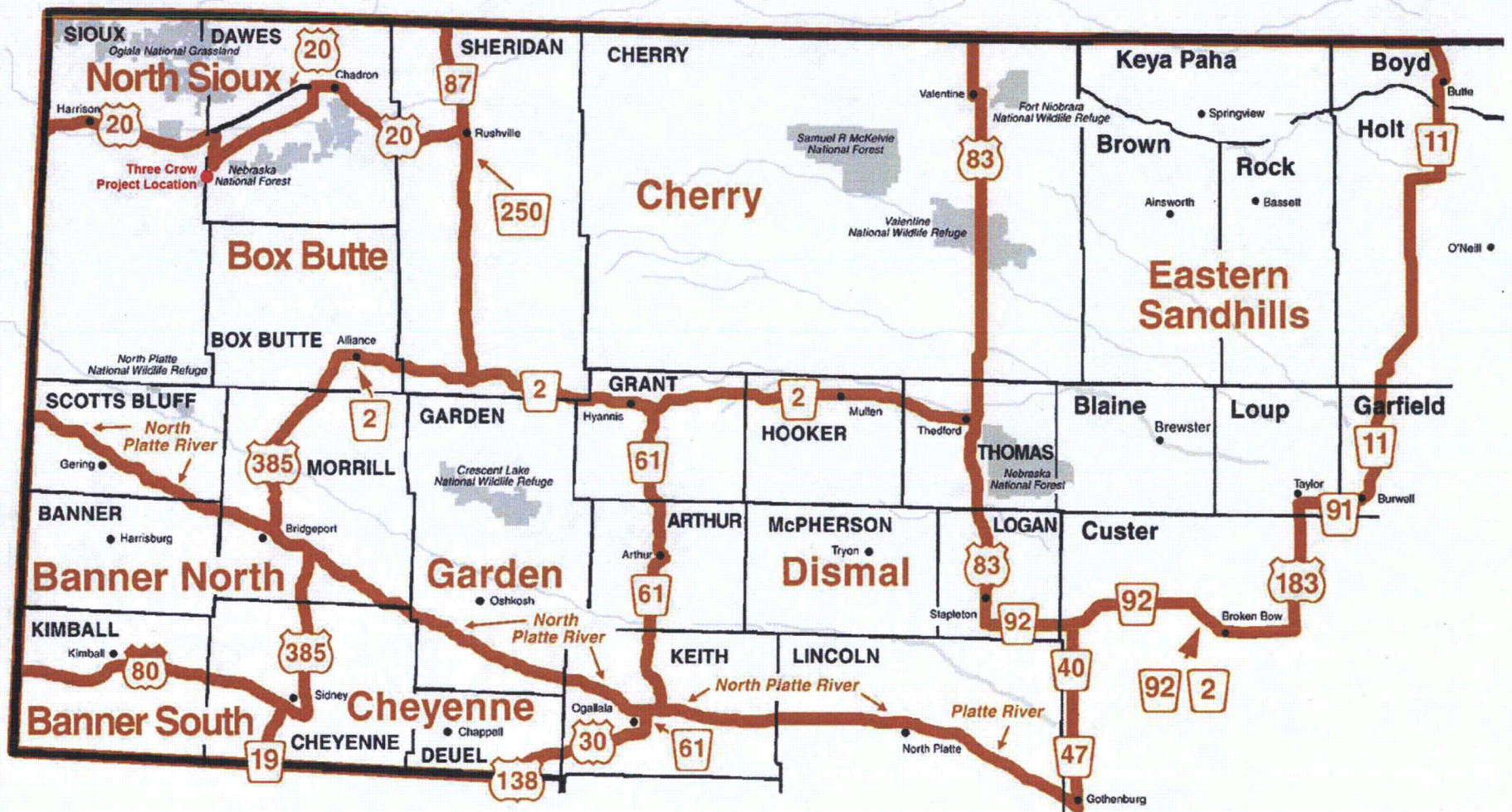
**FIGURE 3.5-1  
 THREE CROW EXPANSION AREA  
 HABITAT MAP**

PROJECT: C0001396.00001      MAPPED BY: JC      CHECKED BY: LW

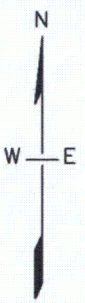
ARCADIS  
 630 Plaza Drive, Ste. 100  
 Highlands Ranch, CO 80129  
 P. 720-344-3500 F. 720-344-3535  
 www.arcadis-usa.com




K:\CIBR\_Projects\CO001396\_ThreeCrow3\_IMAGES\Photoshop\ER Fig. 3\_5-2 NE Pronghorn Hunting Units.psd @ 01/26/2010



SOURCE: NGPC 2010a






**CROW BUTTE  
RESOURCES, INC.**

**FIGURE 3.5-2  
NEBRASKA  
PRONGHORN HUNTING UNITS**

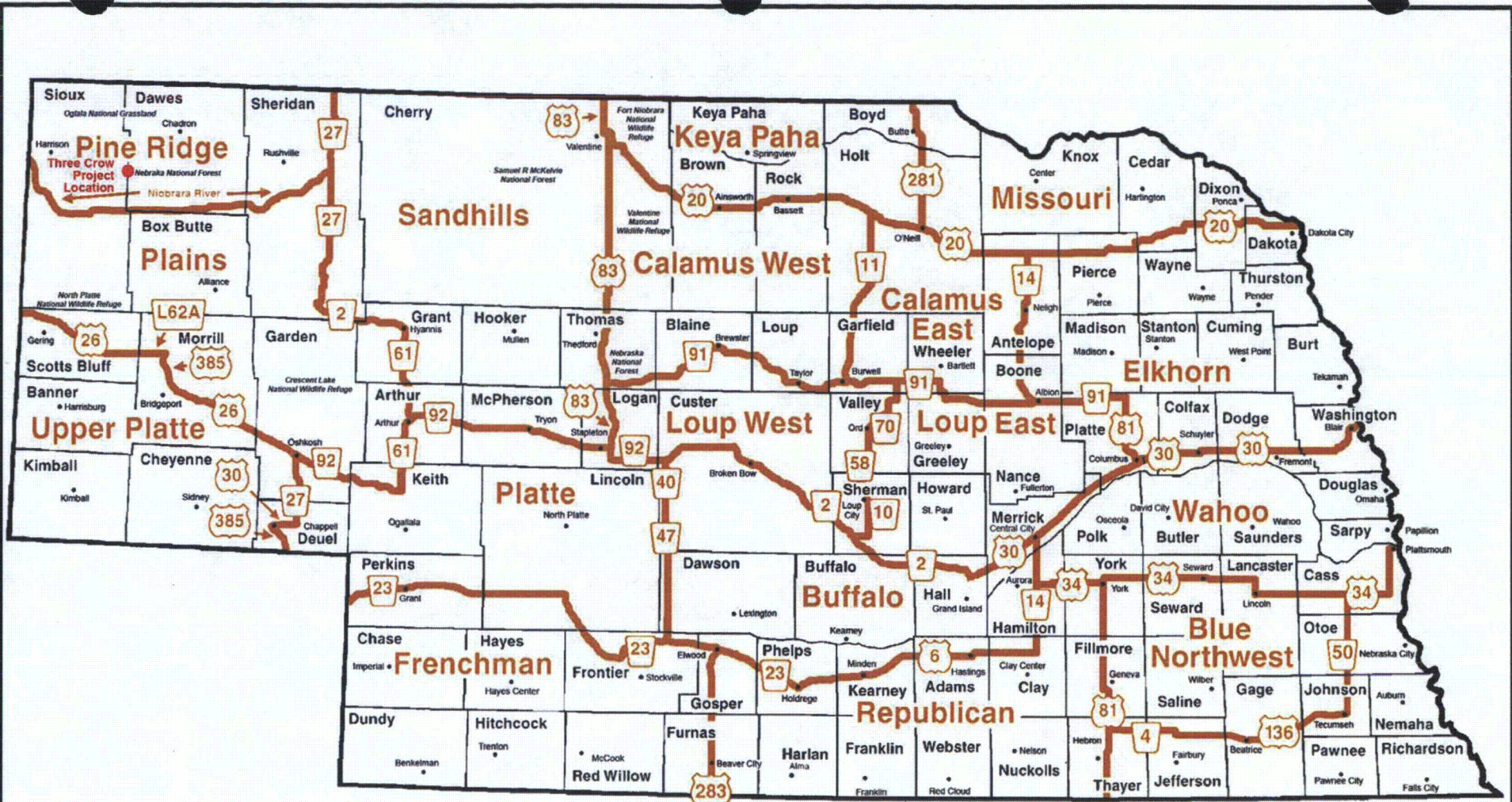
PROJECT: CO001396.00001
MAPPED BY: JC
CHECKED BY: JEC



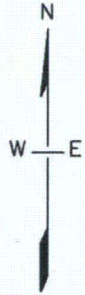
630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
www.arcadis-us.com



K:\CIBR\_Projects\CO001396\_ThreeCrow\3\_IMAGES\Photoshop\ER\_Fig\_3\_5-3\_NE\_Deer\_Hunting\_Units.psd @ 01/26/2010



SOURCE: NGPC 2010b



CROW BUTTE RESOURCES, INC.

FIGURE 3.5-3 NEBRASKA DEER HUNTING UNITS

PROJECT: CO001396.00001 MAPPED BY: JC CHECKED BY: JEC

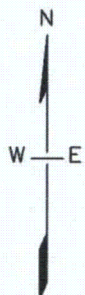
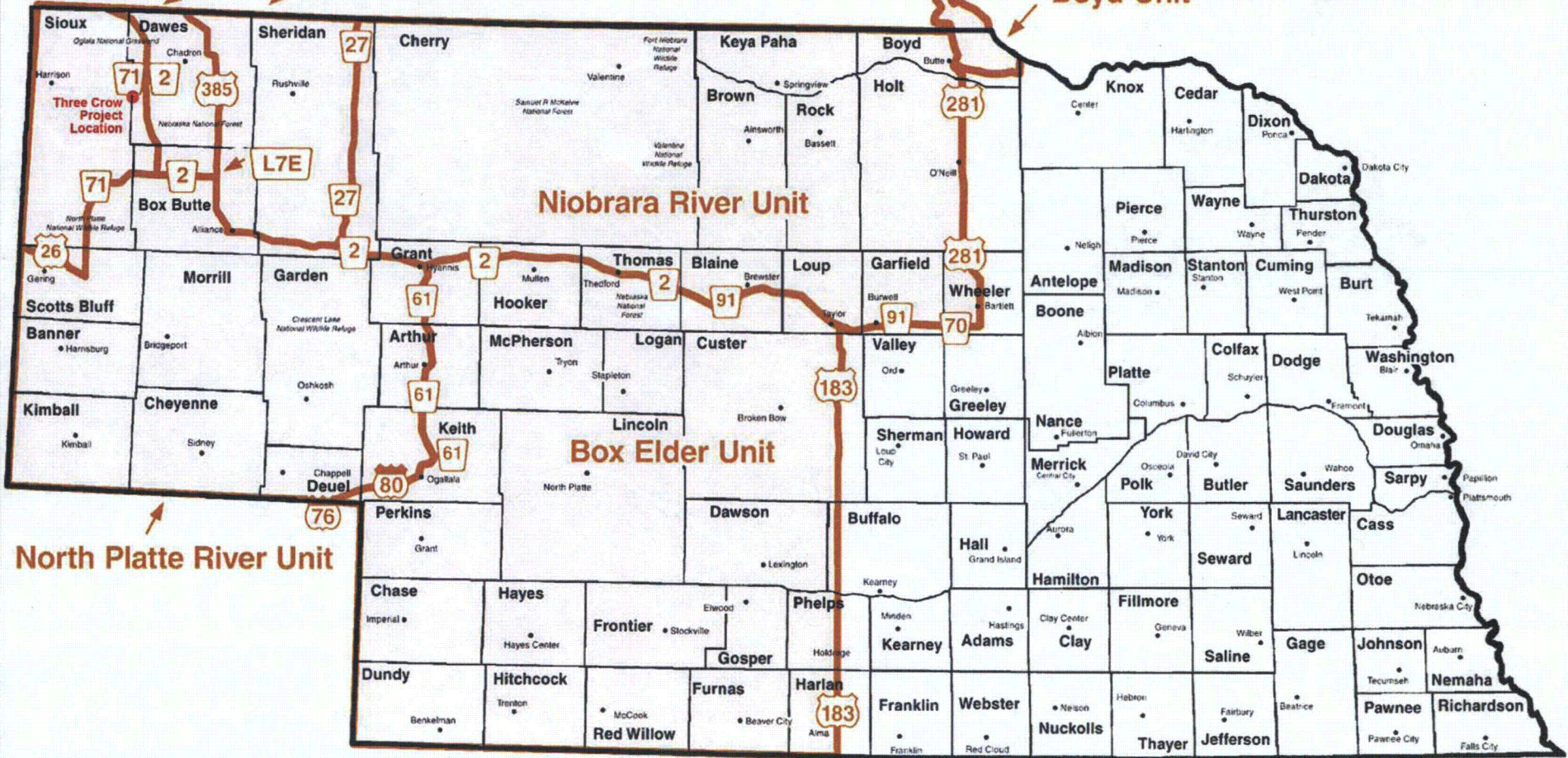
 **ARCADIS**  
 630 Plaza Drive, Ste. 100  
 Highlands Ranch, CO 80129  
 P: 720-344-3500 F: 720-344-3535  
 www.arcadis-us.com



K:\CIBR\_P\Projects\CO001396\_ThreeCrows\IMAGES\Photoshop\ER\_Fig\_3\_5-4\_NE\_Elk\_Hunting\_Units.psd @ 01/26/2010

Hat Creek Unit  
Ash Creek Unit  
Bordeaux Unit

Boyd Unit



CROW BUTTE  
RESOURCES, INC.

**FIGURE 3.5-4  
NEBRASKA  
ELK HUNTING UNITS**

PROJECT: CO001396.00001      MAPPED BY: JC      CHECKED BY: JEC

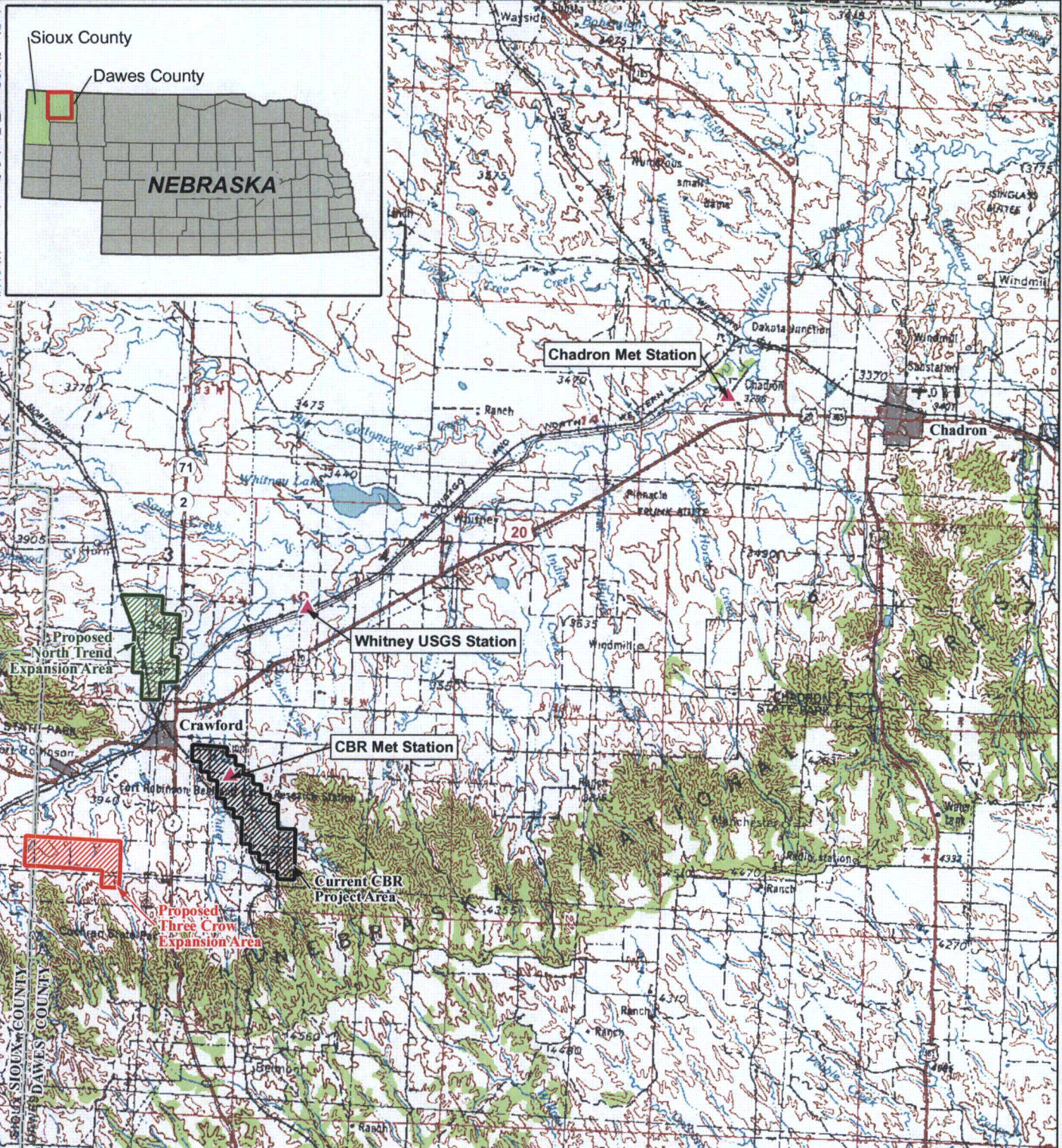


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
SOURCE: NGPC 2010c

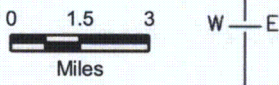


K:\CBR\_Project\001396\_ThreeCrow2\_GIS\ArcMaps\0001\_TR1R\Fig\_2\_5-1\_Regional\_Met\_Stations.mxd - 7/19/2010 @ 1:35:22 PM



**LEGEND**

-  Meteorological Station
-  Proposed Three Crow Expansion Area
-  Proposed North Trend Expansion Area
-  Current CBR Project Area
-  County Boundary



PROJECTION:  
NAD\_1927\_STATE\_PLANE  
NEBRASKA\_NORTH\_FIPS\_2601  
SOURCE: USGS 1:250K DRG -  
ALLIANCE (1980), NE



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RESOURCES, INC.**

**FIGURE 3.6-1  
LOCATION OF  
REGIONAL METEOROLOGICAL STATIONS**

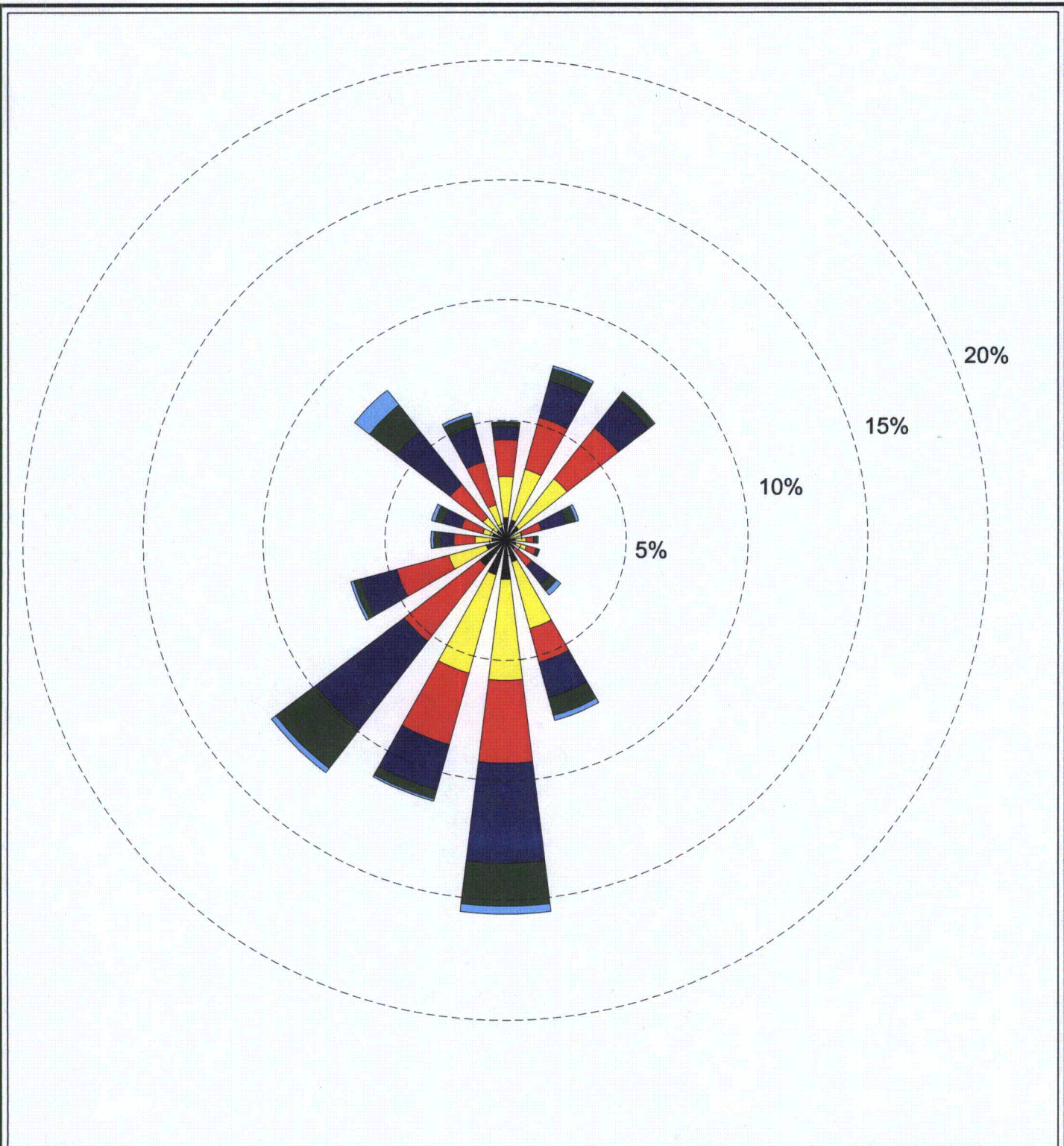
PROJECT: CO001396.00001      MAPPED BY: JC      CHECKED BY: JEC



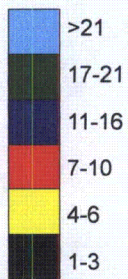
630 Plaza Drive, Ste. 100  
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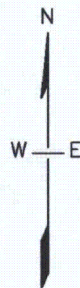
K:\ICBR\_Projects\001396\_ThreeCrow3\_IMAGES\Illustrator\ER Fig\_3.6-2 Wind Rose for Crow Butte.ai @ 05/17/2010



Wind Speed  
(knots)



Average Wind Speed: 8.40 knots  
Percent Calm Winds: 0.3 percent  
Wind Direction: Blowing from  
Data Period: May 1982 - April 1984



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**FIGURE 3.6-2  
WIND ROSE PLOT  
CROW BUTTE**

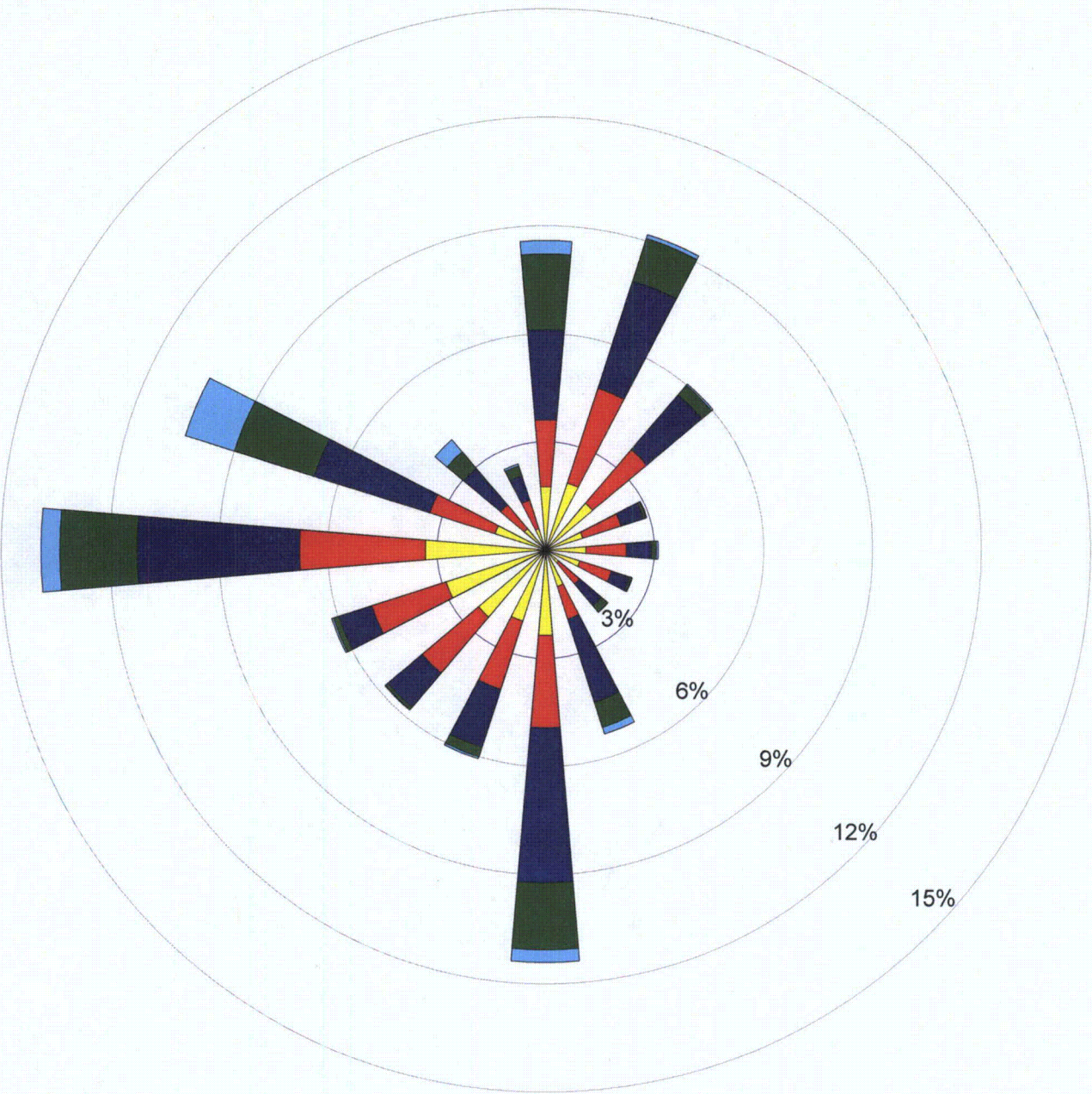
PROJECT: CO001396.00001 MAPPED BY: JC CHECKED BY: JEC



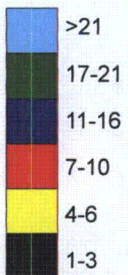
630 Plaza Drive, Ste. 100  
Highlands Ranch, CO 80129  
P: 720-344-3500 F: 720-344-3535  
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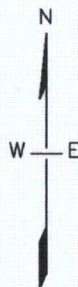
K:\CIBR\_Projects\Cover396\_ThreeCrow3\_IMAGES\Illustrator\Fig\_3\_6-3 Wind Rose for Charon 1982-1984.ai @ 05/18/2010



Wind Speed (knots)



Average Wind Speed: 11.49 knots  
Percent Calm Winds: 0.00 percent  
Wind Direction: Blowing from  
Data Period: April 1982 - May 1984



CROW BUTTE  
RESOURCES, INC.

**FIGURE 3.6-3**  
**WIND ROSE PLOT**  
**CHADRON NE - STATION No.24017**  
**1982 - 1984**

PROJECT: CO001396.00001

MAPPED BY: JC

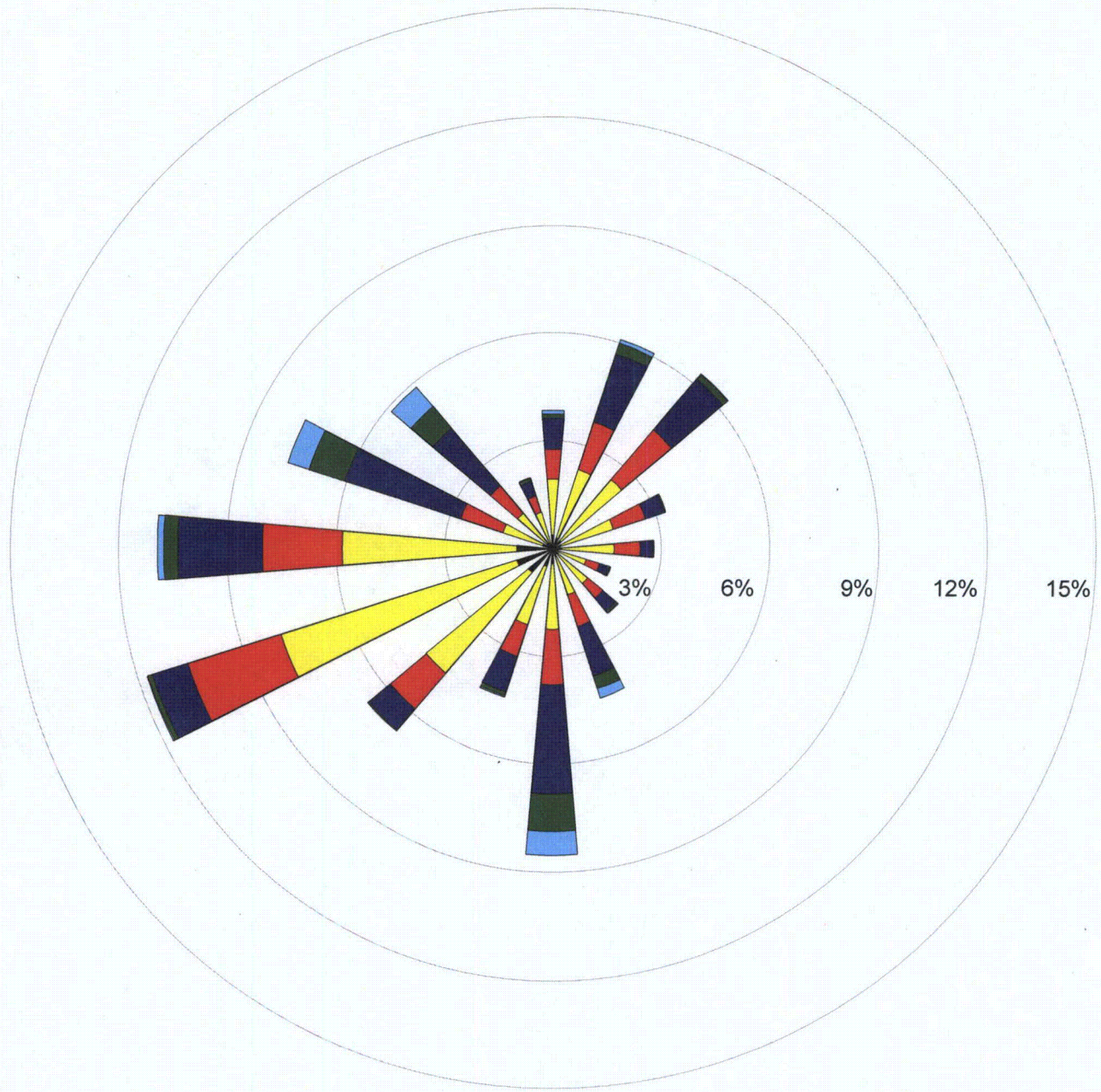
CHECKED BY: JEC



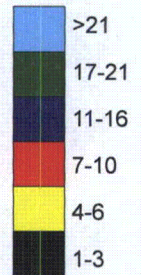
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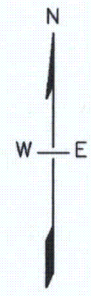
K:\CIBR\_Projects\0001396\_ThreeCrow3\_IMAGES\Illustrator\ER Fig\_3\_6-4 Wind Rose for Chadron 2000-2009.ai @ 05/17/2010



Wind Speed (knots)



Average Wind Speed: 8.22 knots  
 Percent Calm Winds: 11.58 percent  
 Wind Direction: Blowing from  
 Data Period: 2000 - 2004, 2005-2009



**CROW BUTTE  
 RESOURCES, INC.**

**FIGURE 3.6-4  
 WIND ROSE PLOT  
 CHADRON NE - STATION No.24017  
 2000 - 2009**

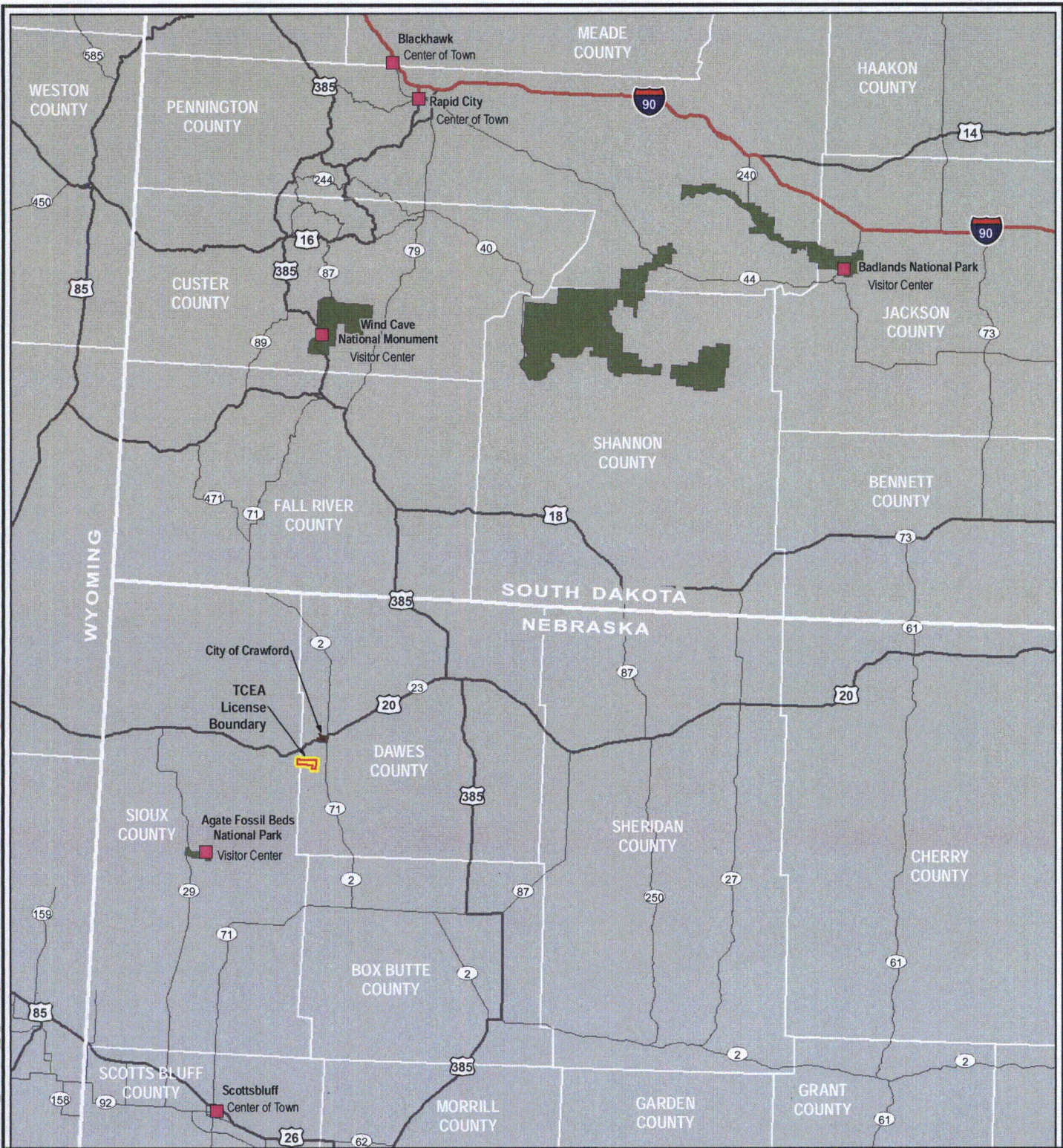
PROJECT: CO001396.00001      MAPPED BY: JC      CHECKED BY: JEC



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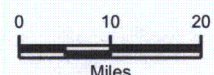


K:\CIBR\_Projects\0001396\_ThreeCrow2\_GIS\ArcMap\0001\_TRITR Fig. 2\_5-5 Regional Ambient Air Monitoring Sites.mxd - 5/16/2010 @ 3:40 PM

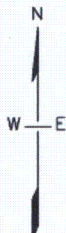


**LEGEND**

- Regional Ambient Air Monitoring Site
- City of Crawford
- National Park/Monument
- Proposed Three Crow Expansion Area (TCEA)
- Interstate Highway
- U.S. Route
- State Highway



PROJECTION:  
NAD 1927 STATE PLANE  
NEBRASKA NORTH FIPS 2601



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RESOURCES, INC.**

**FIGURE 3.6-5  
LOCATION OF REGIONAL AMBIENT  
AIR MONITORING SITES**

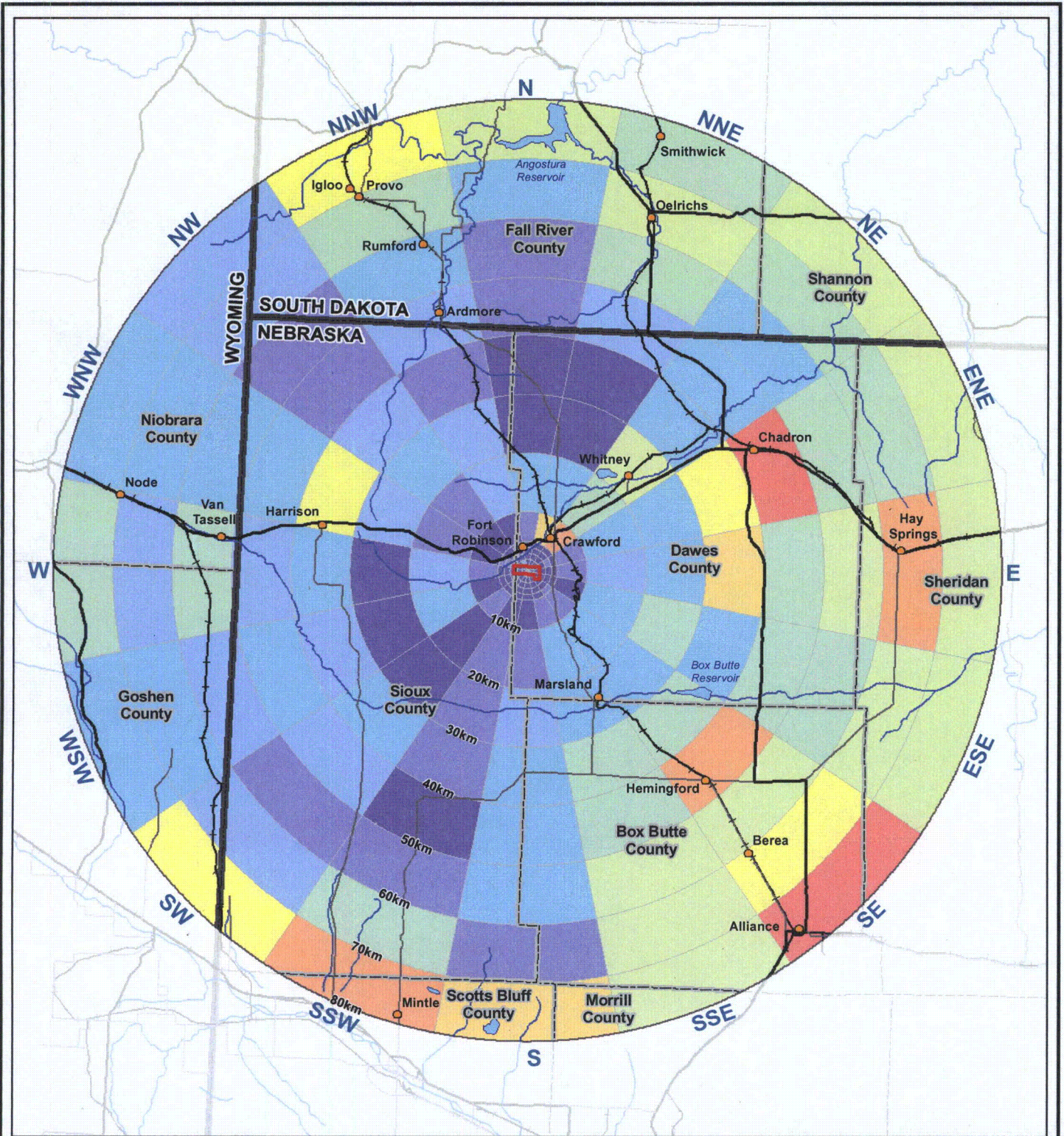
PROJECT: CO001396.00001      MAPPED BY: JC      CHECKED BY: JEC














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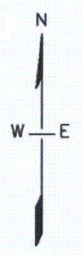
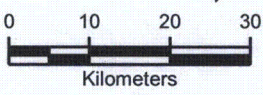


K:\CIBR\_Projects\001396\_ThreeCrow2\_GIS\ArcMaps\0001\_TR\Fig\_2\_3-1\_Pop\_Rose\_byBlock.mxd - 1/19/2010 @ 3:42:51 PM



**Legend**

	Proposed Three Crow Expansion Area
<b>Population (Census 2000)</b>	
	0 - 4
	5 - 13
	14 - 26
	27 - 45
	46 - 91
	92 - 210
	211 - 327
	328 - 551
	552 - 1,155
	1,155 - 9,372



**CROW BUTTE  
RESOURCES, INC.**

**FIGURE 3.10-1  
SIGNIFICANT POPULATION CENTERS WITHIN AN  
80-Km (50 mi) RADIUS OF THE THREE CROW SITE**

PROJECT: CO001396.00001      MAPPED BY: JC      CHECKED BY: LW



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