

Draft Environmental Impact Statement for the Sigurd to Red Butte No. 2 – 345kV Transmission Project

DES 11-22

DOI-BLM-UT-C010-2009-0048-EIS

Case File: UTU 83067



Color Country

May 2011

Volume II of II
Maps



BLM Mission

To sustain the health, diversity, and productivity of the public lands for the use and enjoyment of present and future generations.



Bureau of Land Management

DES 11-22

DOI-BLM-UT-C010-2009-0048-EIS

Case file: UTU 83067



U.S. Department of the Interior Bureau of Land Management

Draft Environmental Impact Statement for the Sigurd to Red Butte No. 2 – 345kV Transmission Project

DES 11-22
DOI-BLM-UT-C010-2009-0048-EIS
Case File: UTU 83067

Volume II of II

Color Country District
Cedar City Field Office
176 East D.L. Sargent Drive
Cedar City, Utah 84721

Cooperating Agencies
U.S. Forest Service (Dixie and Fishlake National Forests)
U.S. Army Corps of Engineers
Utah Public Land Policy Coordination Office
Utah School and Institutional Trust Lands Administration
Counties: Beaver, Iron, Millard, Sevier, and Washington
Communities: Enterprise and St. George

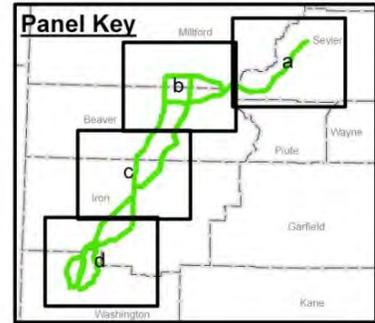
May 2011

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ABOUT THE MAP VOLUME

This map volume accompanies the Draft Environmental Impact Statement (EIS) for the Sigurd to Red Butte No. 2 – 345kV Transmission Project (Project), a proposed transmission line from the existing Sigurd Substation in Sevier County, Utah, to the existing Red Butte Substation in Washington County, Utah.

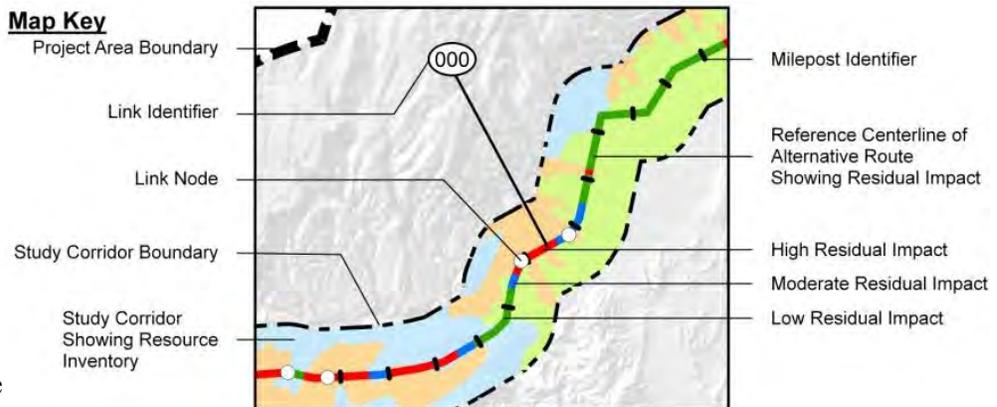
The map volume contains (1) a map showing construction access levels and (2) 15 maps showing resource inventory and impacts. Each map is divided into four panels illustrating four portions of the Project area. The north-easternmost panel (Panel a) illustrates the alternative route from Sigurd Substation to Cove Fort area. Panel b illustrates the alternative routes from the Cove Fort area to the Milford and Minersville area. Panel c illustrates the alternative routes from the Minersville area to the Antelope Range. Panel d illustrates the alternative routes from the Antelope Range to the Red Butte Substation.



Every map includes the same base information such as place and feature names, major highways and roads, and existing linear facilities (e.g., transmission lines and pipelines). Each map also includes certain basic Project information such as the alternative routes and substations.

The alternative routes are delineated on the maps and show the reference centerline, centered in the route corridor. Each route is divided into distinct segments referred to as links, which are numbered generally from northeast to southwest. It should be noted data are documented in a geographic information system (GIS) for every tenth mile and often reported in tables supporting the text in the EIS in tenths of a mile. However, for legibility, each link is marked on the maps at every mile; the markers are referred to as mileposts.

The width of the study corridor inventoried varies depending on the resource being addressed. Earth, water, biological, paleontological, and land use and recreation resources were inventoried within a 2-mile-wide study corridor



(1 mile on either side of the reference centerline). Cultural resources were inventoried within a 4-mile-wide study corridor (2 miles on either side of the reference centerline). Visual resources were inventoried within a 6-mile-wide study corridor (3 miles on either side of the reference centerline). The inventoried baseline data are shown in the study corridor and impacts are shown along the reference centerline.

Each map consolidates and illustrates a variety of different information, and each legend explains the information unique to each map.

List of Maps

MV-1	Construction Access Levels
MV-2	Geological Hazards Inventory and Impacts
MV-3	Mineral Resources Inventory and Impacts
MV-4	Soil Resources Inventory and Impacts
MV-5	Water Resources
MV-6	Vegetation Inventory and Impacts
MV-7	Sensitive Habitats Inventory and Impacts
MV-8	Crucial Big Game Inventory and Impacts
MV-9	Paleontological Resources
MV-10	Landscape Scenery Inventory and Impacts
MV-11	Moderate Sensitivity Viewers Inventory and Impacts
MV-12	High Sensitivity Viewers Inventory and Impacts
MV-13	Visual Resource Management Inventory and Compliance
MV-14	Existing Land Use Inventory and Impacts
MV-15	Future Land Use Inventory and Impacts
MV-16	Recreation Resources Inventory and Impacts

Access Levels

MAP MV - 1a
CONSTRUCTION ACCESS LEVELS

CONSTRUCTION ACCESS LEVELS

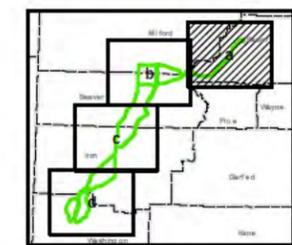
- 1 - Use existing roads
- 2 - Improve existing roads
- 3 - Construct new access, flat to rolling terrain (0 to 8 percent slope)
- 4 - Construct new access, rolling terrain (8 to 15 percent slope)
- 5 - Construct new access, steep terrain (greater than 15 percent slope)

GENERAL REFERENCE FEATURES

- | | |
|--------------------------------|------------------------------|
| Project Area | County Boundary |
| Link Number | U.S. Forest Service Boundary |
| Mile Tick | Township Line |
| Centerline | Interstate Highway |
| Link Node | U.S. Highway |
| Power Plant | State Highway |
| Substation | Railroad |
| 500kV +/- DC Transmission Line | Airport |
| 345kV Transmission Line | River or Stream |
| 230 to 287kV Transmission Line | Lake or Reservoir |
| 138 to 161kV Transmission Line | |
| Pipeline | |

SOURCES:

Resource Data:
Access Level: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 1b
CONSTRUCTION ACCESS LEVELS

CONSTRUCTION ACCESS LEVELS

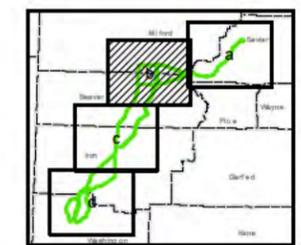
- 1 - Use existing roads
- 2 - Improve existing roads
- 3 - Construct new access, flat to rolling terrain (0 to 8 percent slope)
- 4 - Construct new access, rolling terrain (8 to 15 percent slope)
- 5 - Construct new access, steep terrain (greater than 15 percent slope)

GENERAL REFERENCE FEATURES

- | | |
|--------------------------------|------------------------------|
| Project Area | County Boundary |
| Link Number | U.S. Forest Service Boundary |
| Mile Tick | Township Line |
| Centerline | Interstate Highway |
| Link Node | U.S. Highway |
| Power Plant | State Highway |
| Substation | Railroad |
| 500kV +/- DC Transmission Line | Airport |
| 345kV Transmission Line | River or Stream |
| 230 to 287kV Transmission Line | Lake or Reservoir |
| 138 to 161kV Transmission Line | Pipeline |

SOURCES:

Resource Data:
Access Level: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 1c
CONSTRUCTION ACCESS LEVELS

CONSTRUCTION ACCESS LEVELS

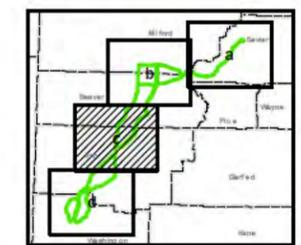
- 1 - Use existing roads
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- 3 - Construct new access, flat to rolling terrain (0 to 8 percent slope)
- 4 - Construct new access, rolling terrain (8 to 15 percent slope)
- 5 - Construct new access, steep terrain (greater than 15 percent slope)

GENERAL REFERENCE FEATURES

- | | |
|--------------------------------|------------------------------|
| Project Area | County Boundary |
| Link Number | U.S. Forest Service Boundary |
| Mile Tick | Township Line |
| Centerline | Interstate Highway |
| Link Node | U.S. Highway |
| Power Plant | State Highway |
| Substation | Railroad |
| 500kV +/- DC Transmission Line | Airport |
| 345kV Transmission Line | River or Stream |
| 230 to 287kV Transmission Line | Lake or Reservoir |
| 138 to 161kV Transmission Line | |
| Pipeline | |

SOURCES:

Resource Data:
Access Level: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 1d
CONSTRUCTION ACCESS LEVELS

CONSTRUCTION ACCESS LEVELS

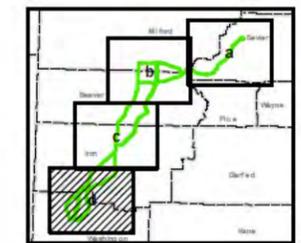
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- 4 - Construct new access, rolling terrain (8 to 15 percent slope)
- 5 - Construct new access, steep terrain (greater than 15 percent slope)

GENERAL REFERENCE FEATURES

- | | |
|--------------------------------|------------------------------|
| Project Area | County Boundary |
| Link Number | U.S. Forest Service Boundary |
| Mile Tick | Township Line |
| Centerline | Interstate Highway |
| Link Node | U.S. Highway |
| Power Plant | State Highway |
| Substation | Railroad |
| 500kV +/- DC Transmission Line | Airport |
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| 138 to 161kV Transmission Line | |
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Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



Earth Resources

MAP MV - 2a
GEOLOGIC HAZARDS
INVENTORY AND IMPACTS

RESOURCE INVENTORY

FAULTS

Quaternary Fault

EARTHQUAKE EPICENTERS

Earthquake Epicenters

LANDSLIDE SUSCEPTIBILITY

Low
Moderate
High

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

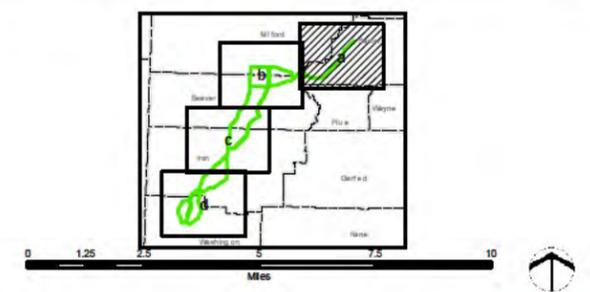
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

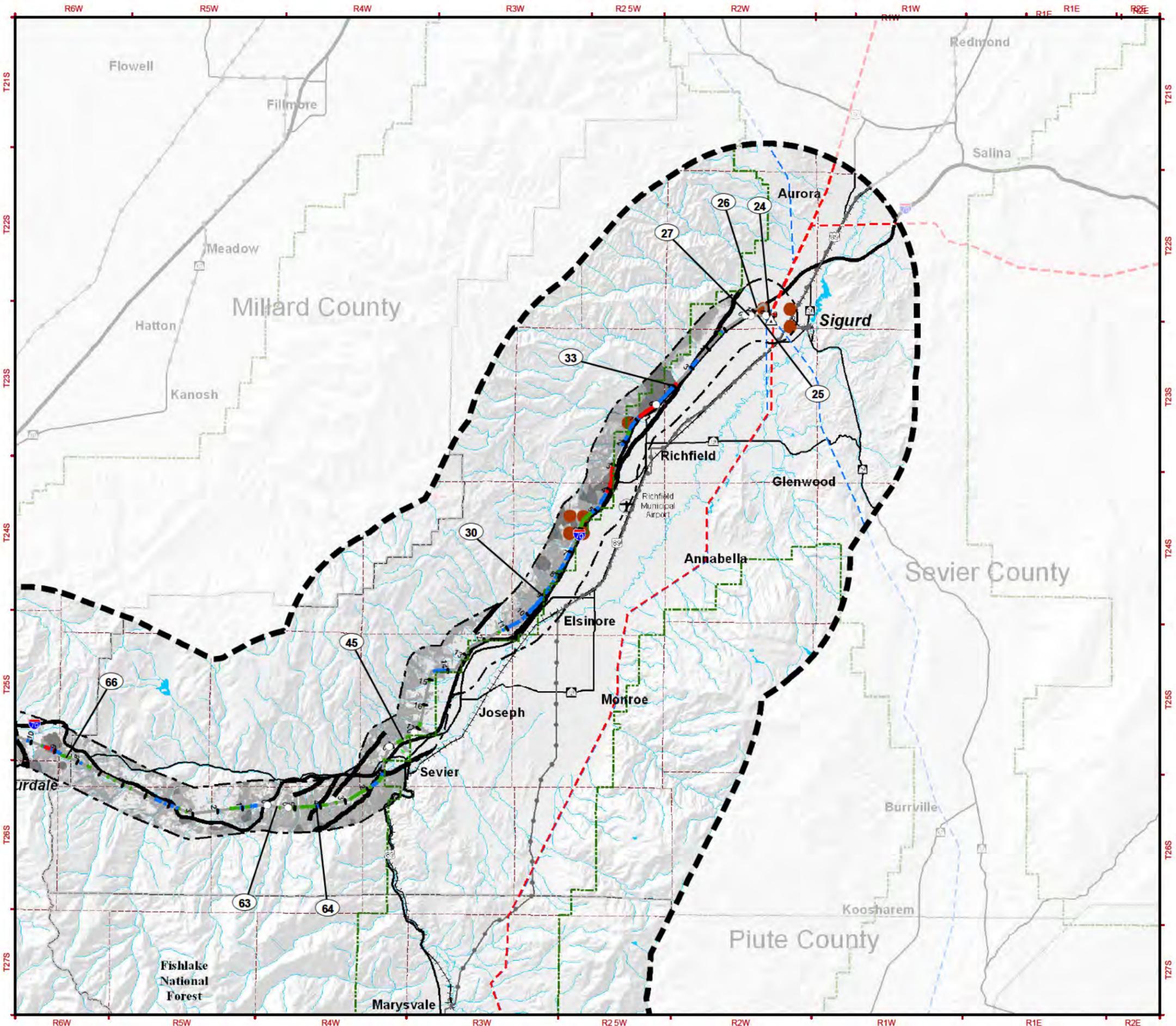
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Quaternary Faults: USGS, 2003
Earthquake Epicenters: USGS, 2000
Landslide Susceptibility: USGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV - 2b
 GEOLOGIC HAZARDS
 INVENTORY AND IMPACTS

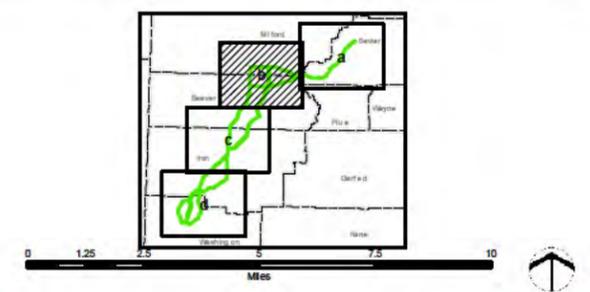
- RESOURCE INVENTORY**
- FAULTS**
- Quaternary Fault
- EARTHQUAKE EPICENTERS**
- Earthquake Epicenters
- LANDSLIDE SUSCEPTIBILITY**
- Low
 - Moderate
 - High
- IMPACT LEVELS**
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport
 - River or Stream
 - Lake or Reservoir

SOURCES:

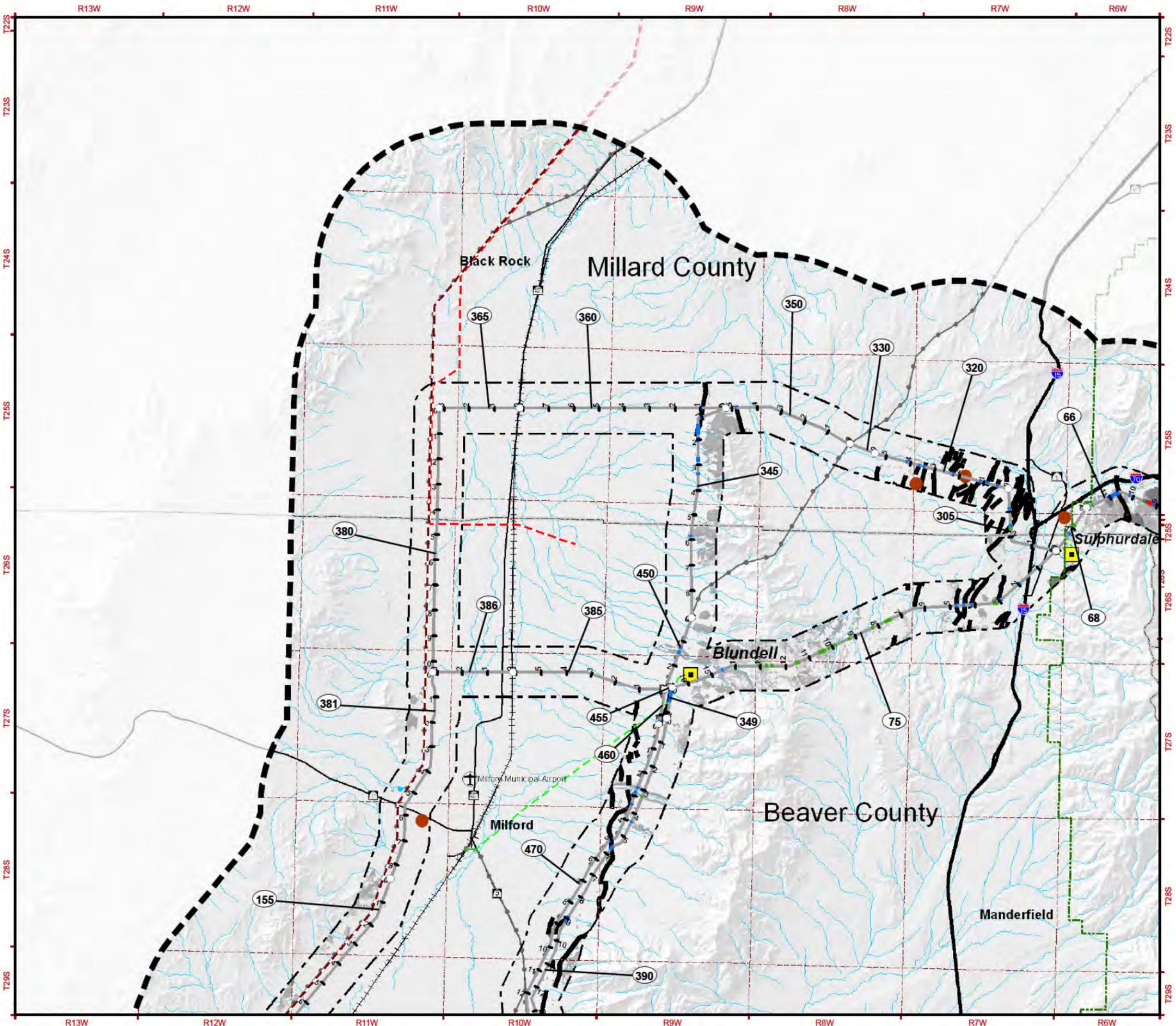
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 Landslide Susceptibility: USGS, 2007

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 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
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 345kV TRANSMISSION PROJECT



MAP MV - 2c
GEOLOGIC HAZARDS
INVENTORY AND IMPACTS

RESOURCE INVENTORY

FAULTS

Quaternary Fault

EARTHQUAKE EPICENTERS

Earthquake Epicenters

LANDSLIDE SUSCEPTIBILITY

Low
Moderate
High

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

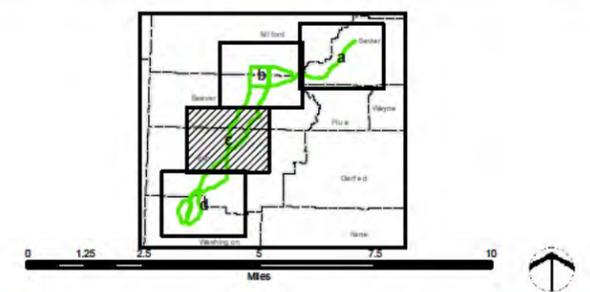
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

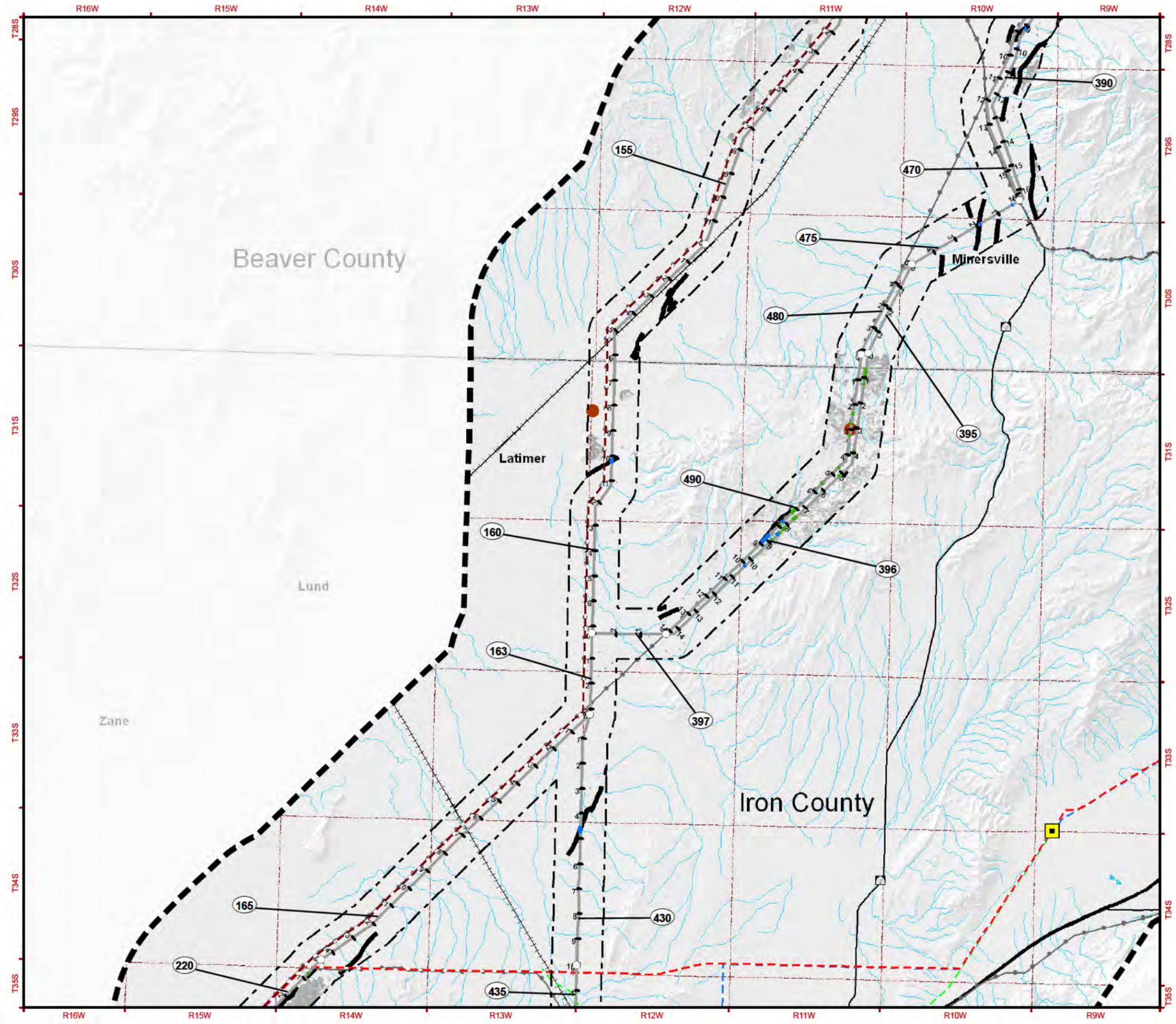
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Earthquake Epicenters: USGS, 2000
Landslide Susceptibility: UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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345kV TRANSMISSION PROJECT



MAP MV - 2d
GEOLOGIC HAZARDS
INVENTORY AND IMPACTS

RESOURCE INVENTORY

FAULTS

Quaternary Fault

EARTHQUAKE EPICENTERS

Earthquake Epicenters

LANDSLIDE SUSCEPTIBILITY

Low
Moderate
High

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

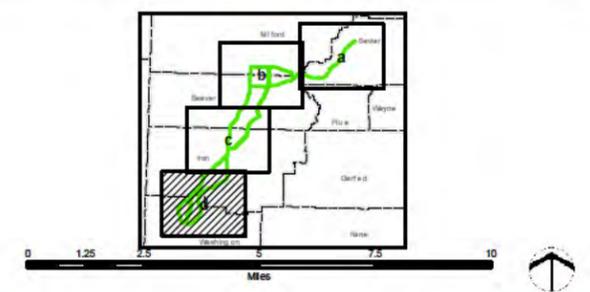
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
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- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
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- Pipeline
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- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

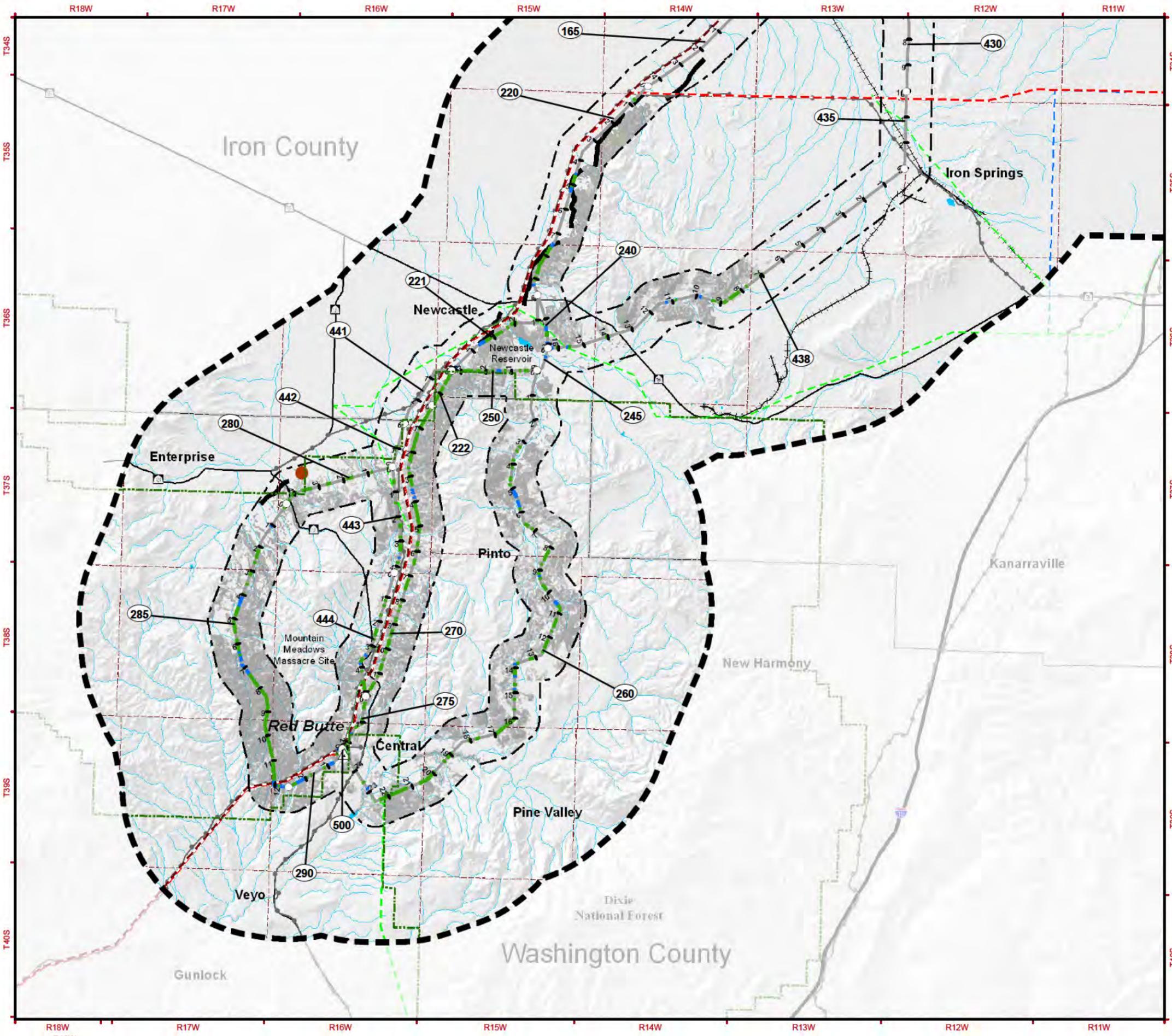
Resource Data:
Impact: EPG, 2010
Quaternary Faults: USGS, 2003
Earthquake Epicenters: USGS, 2000
Landslide Susceptibility: UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 3a
MINERAL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

MINERAL RESOURCES

High Mineral Resources

- Oil Gas Wells, Minerals, CRIB Mineral Locations, Active Mining Claims

Moderate Mineral Resources

- Geothermal, Oil Gas Leases Authorized, Geothermal Agreements Authorized, Geothermal Leases Producing, Oil Gas Leases Authorized

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

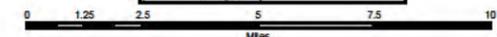
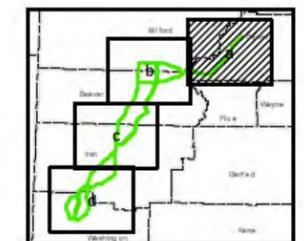
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
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- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Geothermal Resources: UGS, 1999
Oil and Gas Wells: Utah Department of Natural Resources, Oil, Gas, and Mining Division, 2009
Mineral Locations: UGS, 1999; Commodity Resource Information Board, 2001
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Federal Active Mining Claims: BLM, 2009; Federal Oil and Gas Leases: BLM, 2008
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008; U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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345kV TRANSMISSION PROJECT



MAP MV - 3b
MINERAL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

MINERAL RESOURCES

High Mineral Resources

- Oil Gas Wells, Minerals, CRIB Mineral Locations, Active Mining Claims

Moderate Mineral Resources

- Geothermal, Oil Gas Leases Authorized, Geothermal Agreements Authorized, Geothermal Leases Producing, Oil Gas Leases Authorized

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

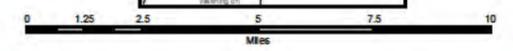
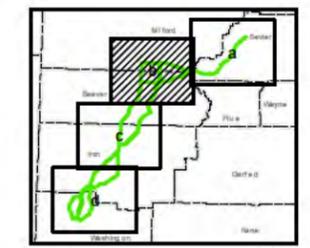
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
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- Link Node
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- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Geothermal Resources: UGS, 1999
Oil and Gas Wells: Utah Department of Natural Resources, Oil, Gas, and Mining Division, 2009
Mineral Locations: UGS, 1998; Commodity Resource Information Board, 2001
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
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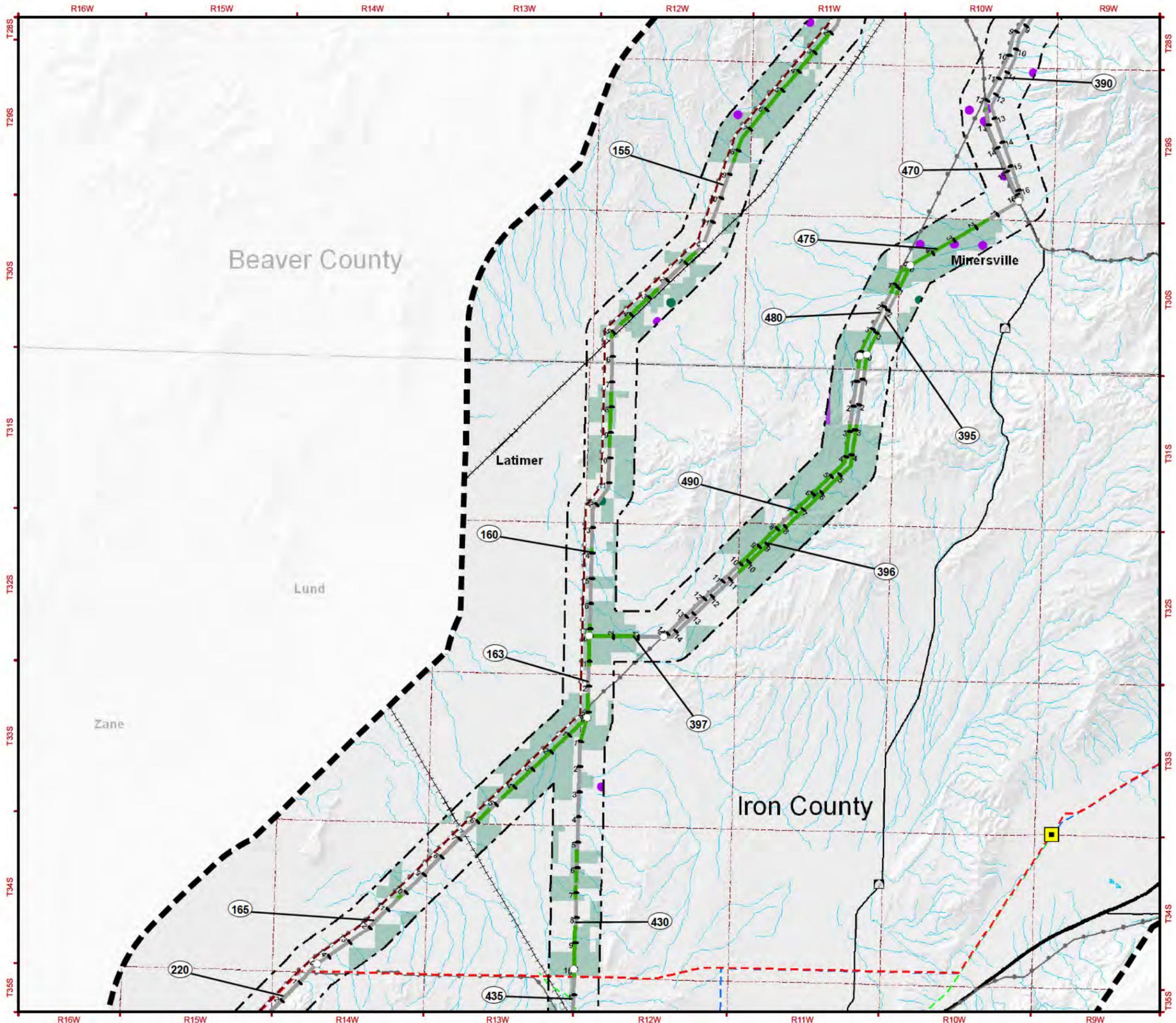
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



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MAP MV - 3c
MINERAL RESOURCES
INVENTORY AND IMPACTS

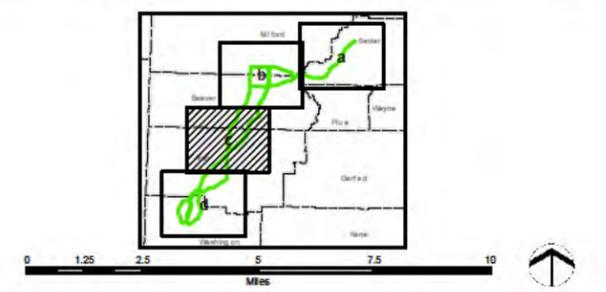
- RESOURCE INVENTORY**
- MINERAL RESOURCES**
- High Mineral Resources**
 - Oil Gas Wells, Minerals, CRIB Mineral Locations, Active Mining Claims
 - Moderate Mineral Resources**
 - Geothermal, Oil Gas Leases
 - Authorized, Geothermal Agreements Au horized, Geothermal Leases Producing, Oil Gas Leases Au horized
- IMPACT LEVELS**
- High
 - Moderate
 - Low
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- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

- GENERAL REFERENCE FEATURES**
- Project Area
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 - Mile Tick
 - Centerline
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 - Power Plant
 - Substation
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 - County Boundary
 - U.S. Forest Service Boundary
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Oil and Gas Wells: Utah Department of Natural Resources, Oil, Gas, and Mining Division, 2009
Mineral Locations: UGS, 1998; Commodity Resource Information Board, 2001
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Federal Active Mining Claims: BLM, 2009; Federal Oil and Gas Leases: BLM, 2008

Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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**SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT**



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MAP MV - 3d
MINERAL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

MINERAL RESOURCES

High Mineral Resources
Oil Gas Wells, Minerals,
CRIB Mineral Locations,
Active Mining Claims

Moderate Mineral Resources
Geothermal, Oil Gas Leases
Authorized, Geothermal
Agreements Au horized,
Geothermal Leases Producing,
Oil Gas Leases Au horized

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

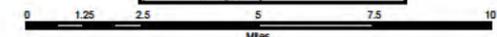
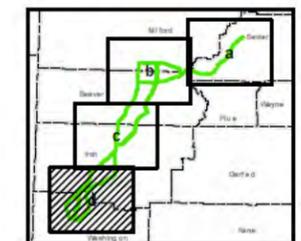
Note: Impact levels shown represent
impacts remaining (residual) after
the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Geothermal Resources: USGS, 1999
Oil and Gas Wells: Utah Department of Natural Resources, Oil, Gas, and Mining Division, 2009
Mineral Locations: USGS, 1988; Commodity Resource Information Board, 2001
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Federal Active Mining Claims: BLM, 2009; Federal Oil and Gas Leases: BLM, 2008
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 4a
SOIL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SOIL CHARACTERISTICS

- Prime farmland
- Not prime farmland
- High Water/High Wind Erosion Susceptibility
- High Water/Low Wind Erosion Susceptibility
- Moderate Water/Moderate Wind Erosion Susceptibility
- Moderate Water/Low Wind Erosion Susceptibility
- Low Water/High Wind Erosion Susceptibility
- Low Water/Low Wind Erosion Susceptibility
- No Water/High Wind Erosion Susceptibility
- No Water/Low Wind Erosion Susceptibility

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

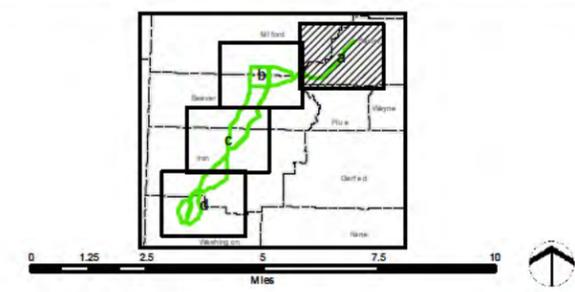
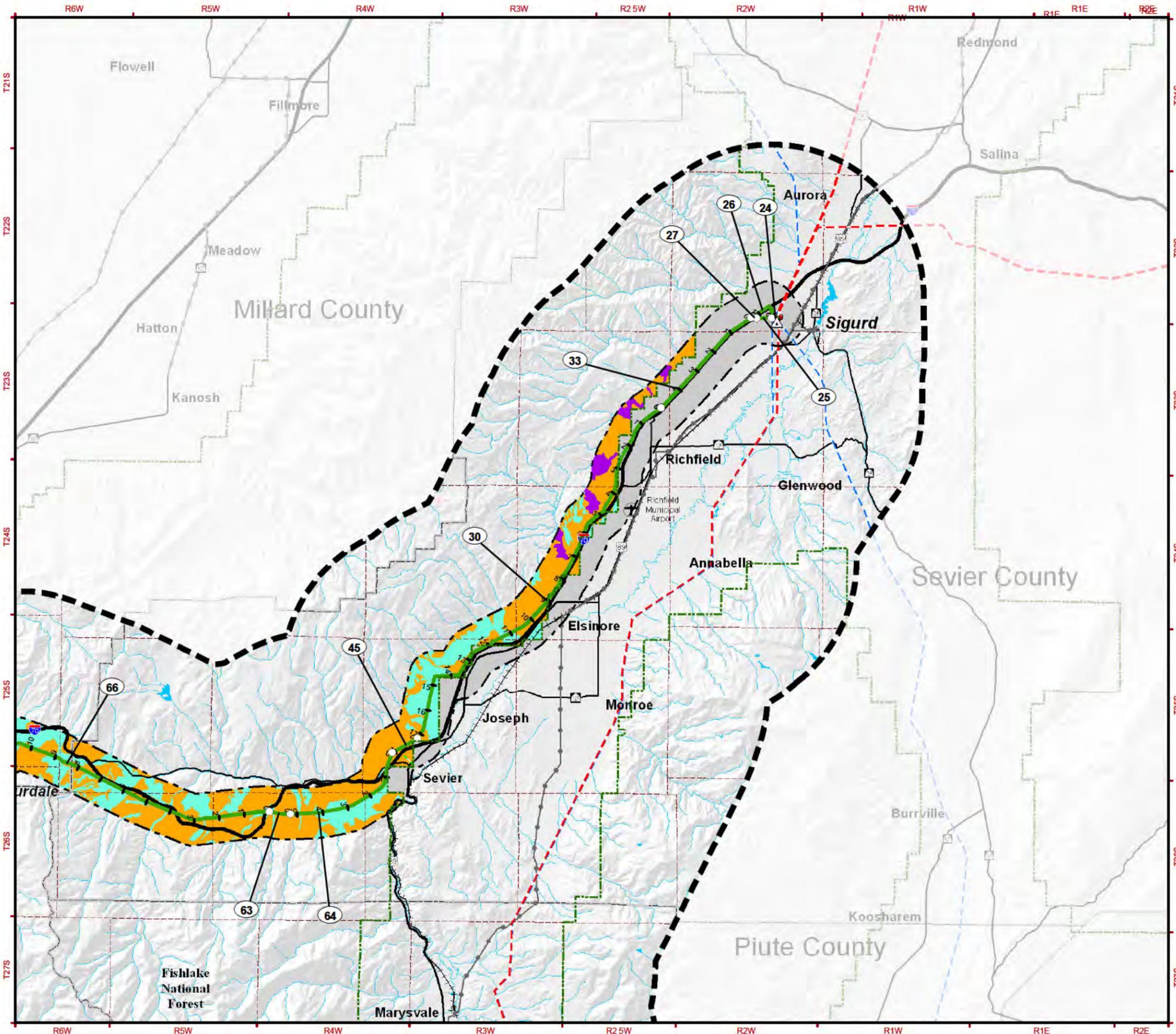
GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Soils: SSURGO and STATSGO, NRCS, 2008, and USFS, 2001

Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 4b
SOIL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SOIL CHARACTERISTICS

- Prime farmland
- Not prime farmland
- High Water/High Wind Erosion Suscep ability
- High Water/Low Wind Erosion Suscep ability
- Moderate Water/Moderate Wind Erosion Suscep ability
- Moderate Water/Low Wind Erosion Suscep ability
- Low Water/High Wind Erosion Suscep ability
- Low Water/Low Wind Erosion Suscep ability
- No Water/High Wind Erosion Suscep ability
- No Water/Low Wind Erosion Suscep ability

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

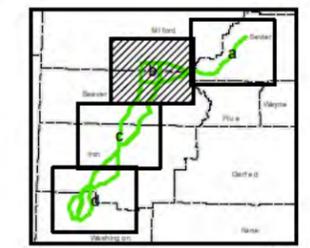
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Soils: SSURGO and STATSGO, NRCS, 2008, and USFS, 2001
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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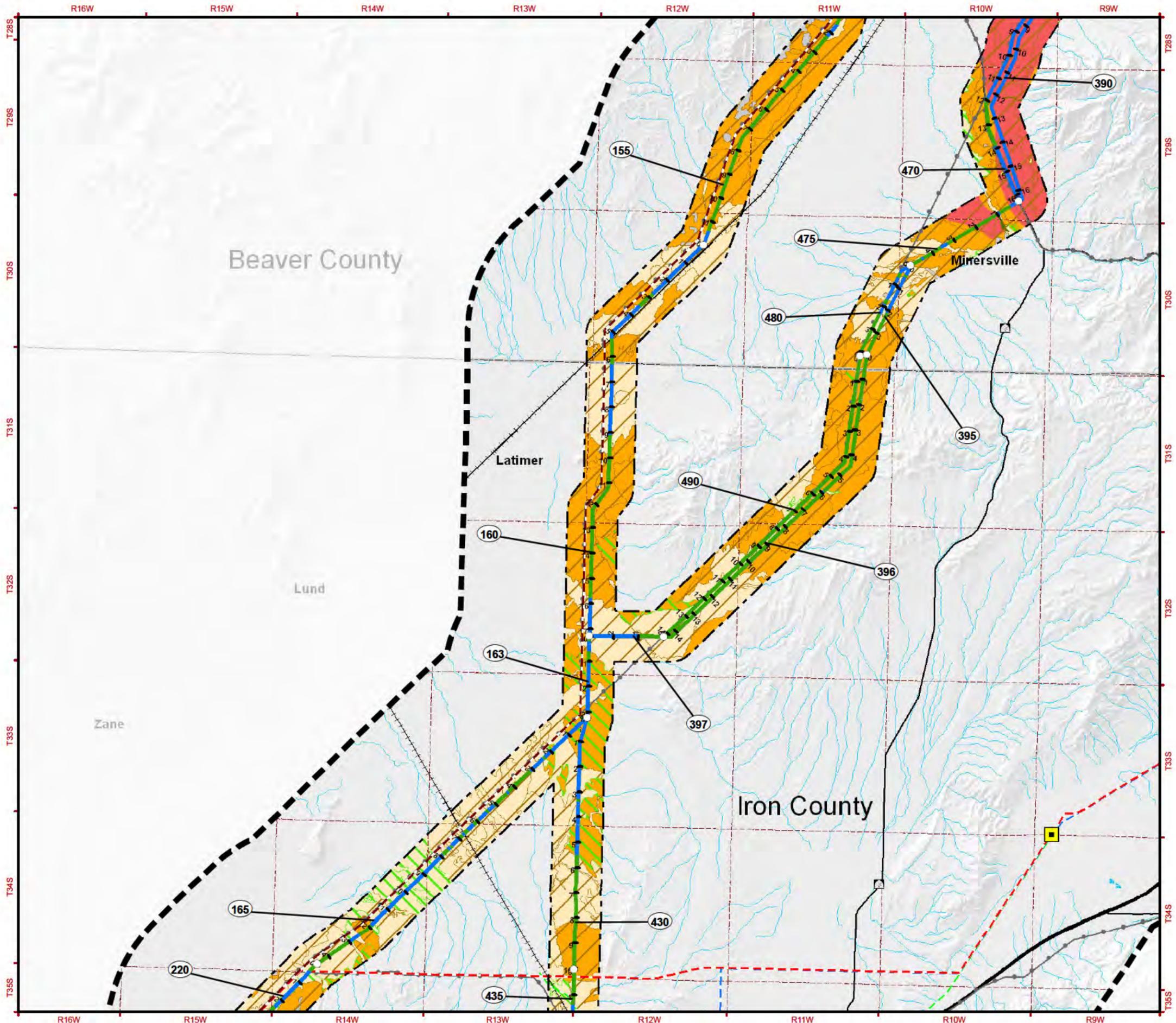


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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT





MAP MV - 4c
SOIL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SOIL CHARACTERISTICS

- Prime farmland
- Not prime farmland
- High Water/High Wind Erosion Susceptibility
- High Water/Low Wind Erosion Susceptibility
- Moderate Water/Moderate Wind Erosion Susceptibility
- Moderate Water/Low Wind Erosion Susceptibility
- Low Water/High Wind Erosion Susceptibility
- Low Water/Low Wind Erosion Susceptibility
- No Water/High Wind Erosion Susceptibility
- No Water/Low Wind Erosion Susceptibility

IMPACT LEVELS

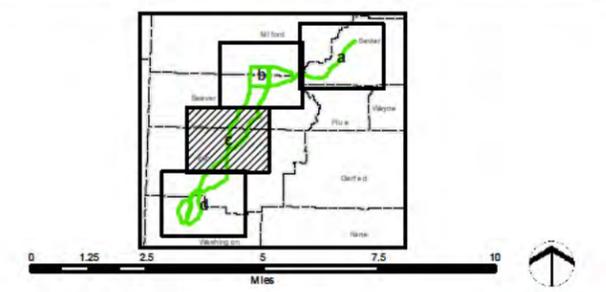
- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:
 Resource Data:
 Impact: EPG, 2010
 Soils: SSURGO and STATSGO, NRCS, 2008, and USFS, 2001
 Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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**SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT**



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MAP MV - 4d
SOIL RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SOIL CHARACTERISTICS

- Prime farmland
- Not prime farmland
- High Water/High Wind Erosion Susceptibility
- High Water/Low Wind Erosion Susceptibility
- Moderate Water/Moderate Wind Erosion Susceptibility
- Moderate Water/Low Wind Erosion Susceptibility
- Low Water/High Wind Erosion Susceptibility
- Low Water/Low Wind Erosion Susceptibility
- No Water/High Wind Erosion Susceptibility
- No Water/Low Wind Erosion Susceptibility

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

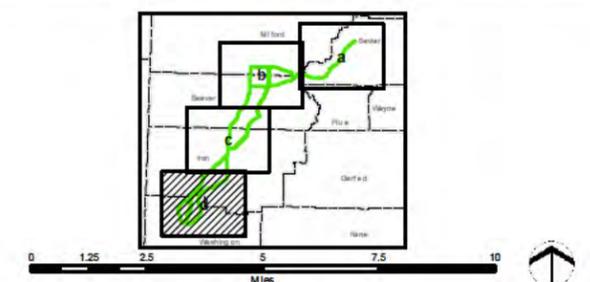
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Soils: SSURGO and STATSGO, NRCS, 2008, and USFS, 2001
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT



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Water Resources

MAP MV - 5a
WATER RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

WATER FEATURES

- Spring
- Well

SHALLOW GROUNDWATER

- 0 Meters
- 10 Meters
- 30 Meters

WATER FEATURES

- River or Stream
- Lake or Reservoir

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

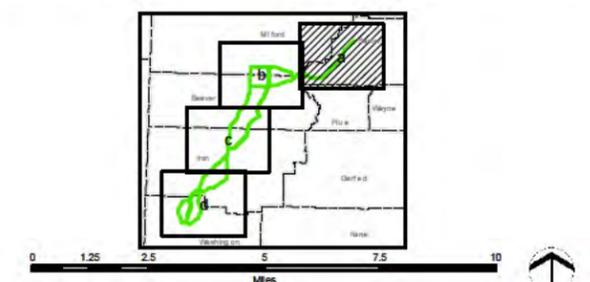
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

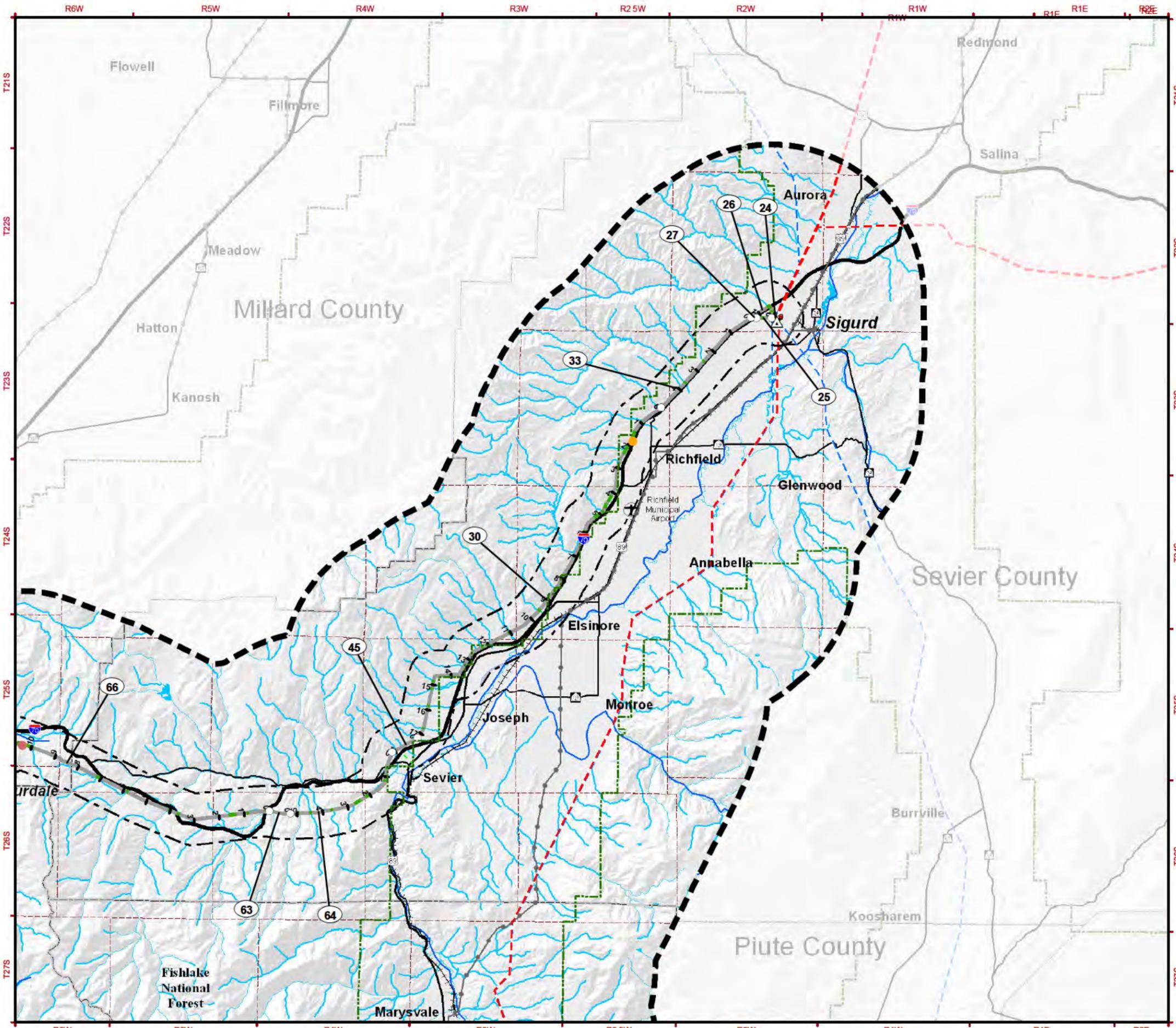
Resource Data:
 Impact: EPG, 2010
 Spring: USGS, UGS, 2010; AGRC, 2009
 Groundwater: AGRC, 2009
 Water, River, Stream: USGS, 2008
 Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 5b
WATER RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

WATER FEATURES

- Spring
- Well

SHALLOW GROUNDWATER

- 0 Meters
- 10 Meters
- 30 Meters

WATER FEATURES

- River or Stream
- Lake or Reservoir

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

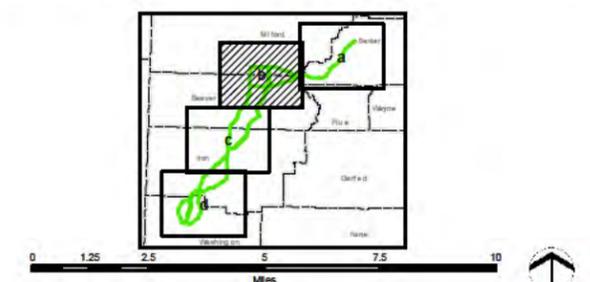
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
Spring: USGS, UGS, 2010; AGRC, 2009
Groundwater: AGRC, 2009
Water, River, Stream: USGS, 2008
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1990; POWERmap, powermap.platts.com
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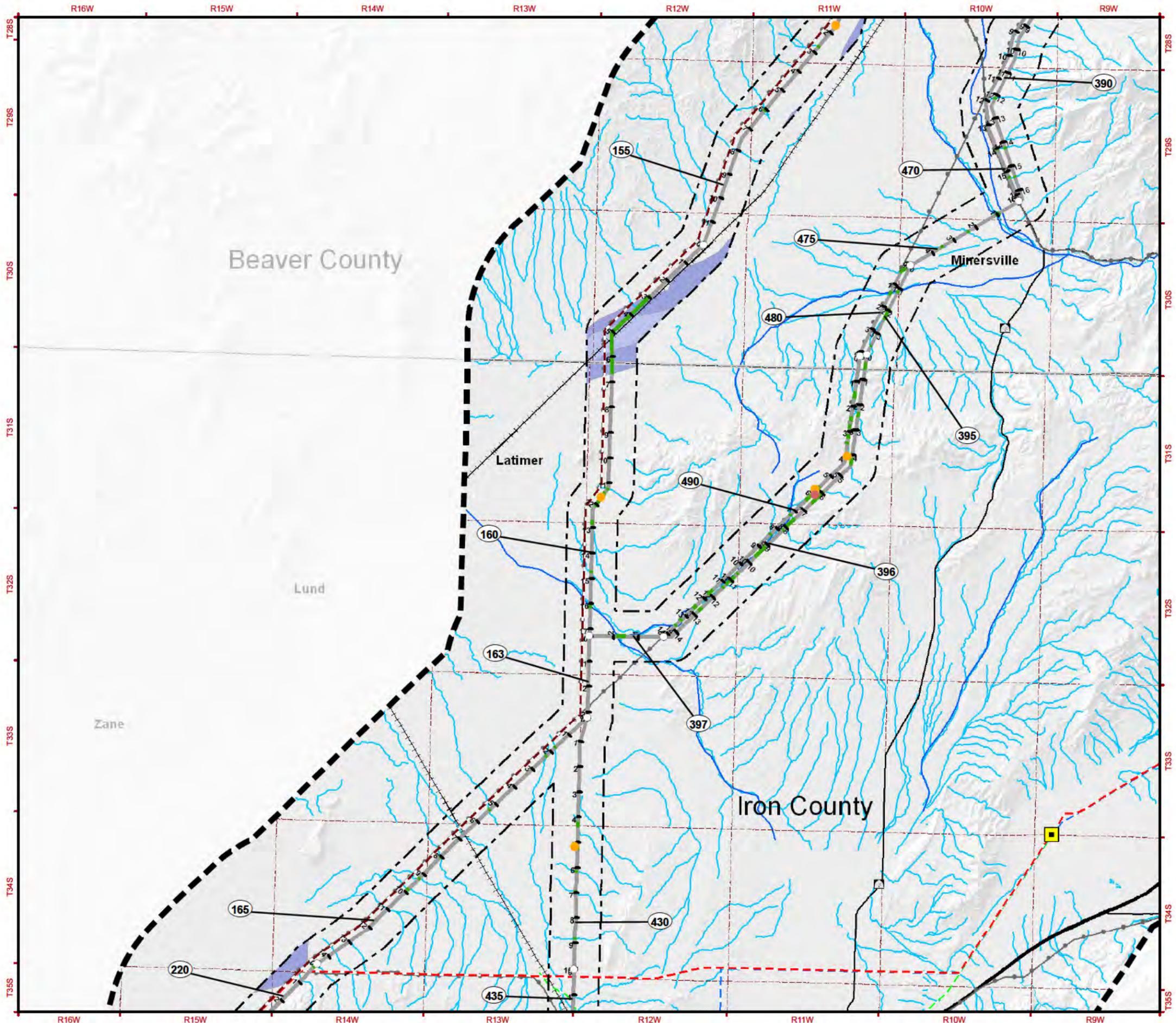


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV - 5c
WATER RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

WATER FEATURES

- Spring
- Well

SHALLOW GROUNDWATER

- 0 Meters
- 10 Meters
- 30 Meters

WATER FEATURES

- River or Stream
- Lake or Reservoir

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

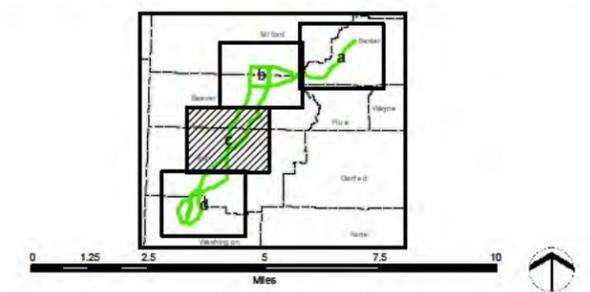
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
 Impact: EPG, 2010
 Spring: USGS, UGS, 2010; AGRC, 2009
 Groundwater: AGRC, 2009
 Water, River, Stream: USGS, 2008
 Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Hillshade: USGS, 1998; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 5d
WATER RESOURCES
INVENTORY AND IMPACTS

RESOURCE INVENTORY

WATER FEATURES

- Spring
- Well

SHALLOW GROUNDWATER

- 0 Meters
- 10 Meters
- 30 Meters

WATER FEATURES

- River or Stream
- Lake or Reservoir

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

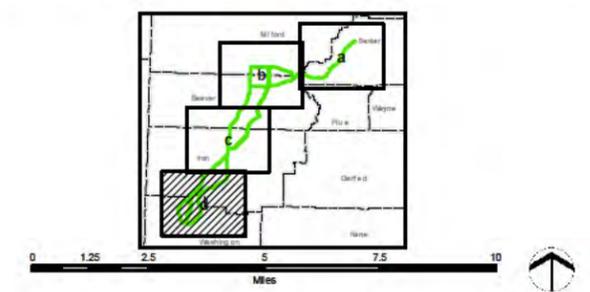
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

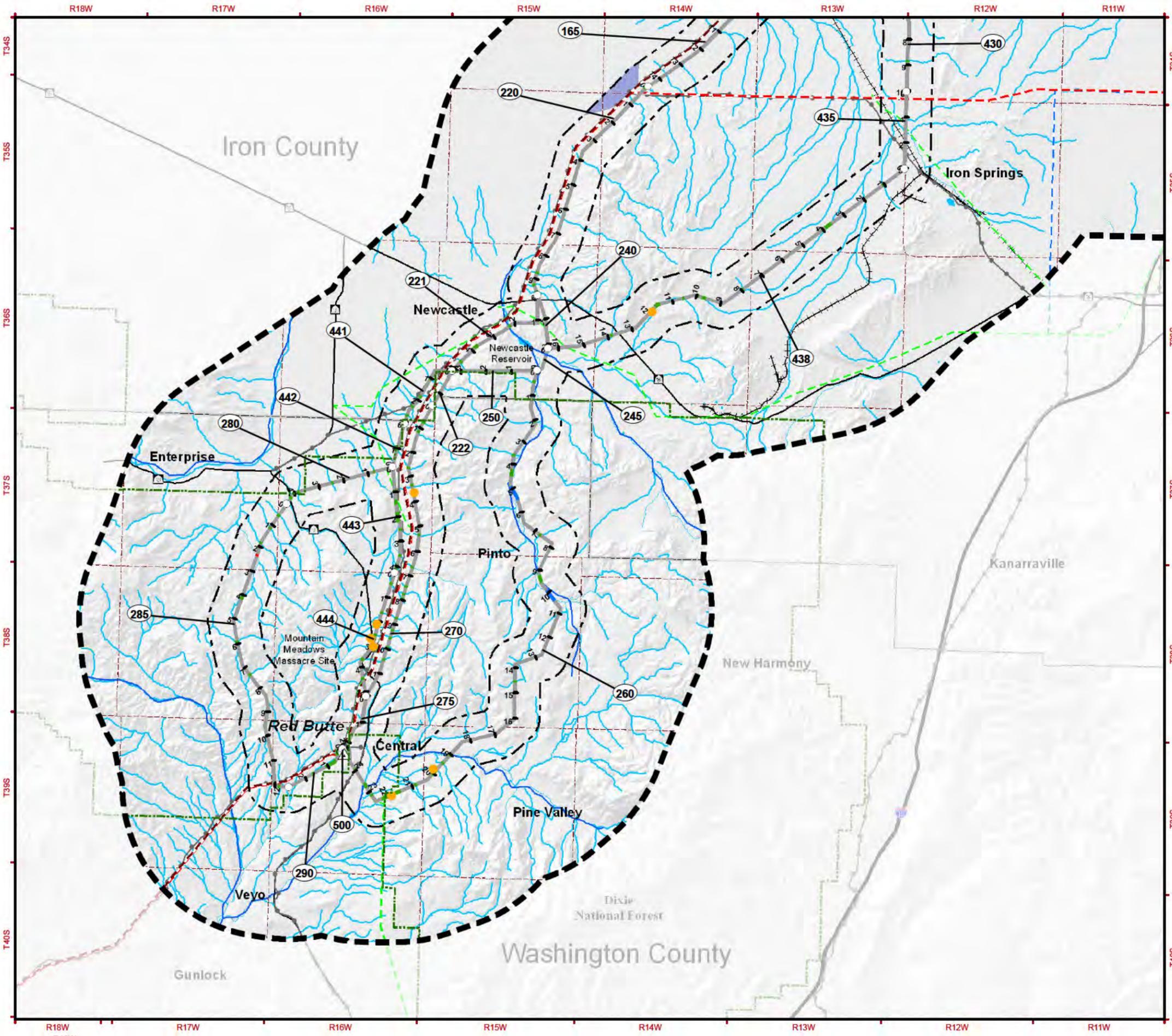
Resource Data:
Impact: EPG, 2010
Spring: USGS, UGS, 2010; AGRC, 2009
Groundwater: AGRC, 2009
Water, River, Stream: USGS, 2008
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT



Biological Resources

MAP MV - 6a
VEGETATION
INVENTORY AND IMPACTS

LEGEND

GAP CLASSES

- Agriculture
- Alpine
- Aspen
- Barren/Sparsely Vegetated
- Big Sagebrush
- Bigtooth Maple
- Desert Shrub
- Disturbed
- Grassland
- Invasive
- Mixed Conifer
- Mountain Shrub
- Noxious
- Pinyon-juniper
- Ponderosa Pine
- Riparian
- Shrub Steppe
- Water
- Wetland
- Wildfire Impacted Areas/Reseeded through
Emergency Stabilization and Rehabilitation Efforts

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

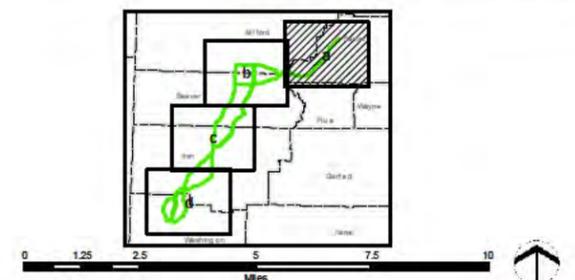
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- BLM Field Office Boundary
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:

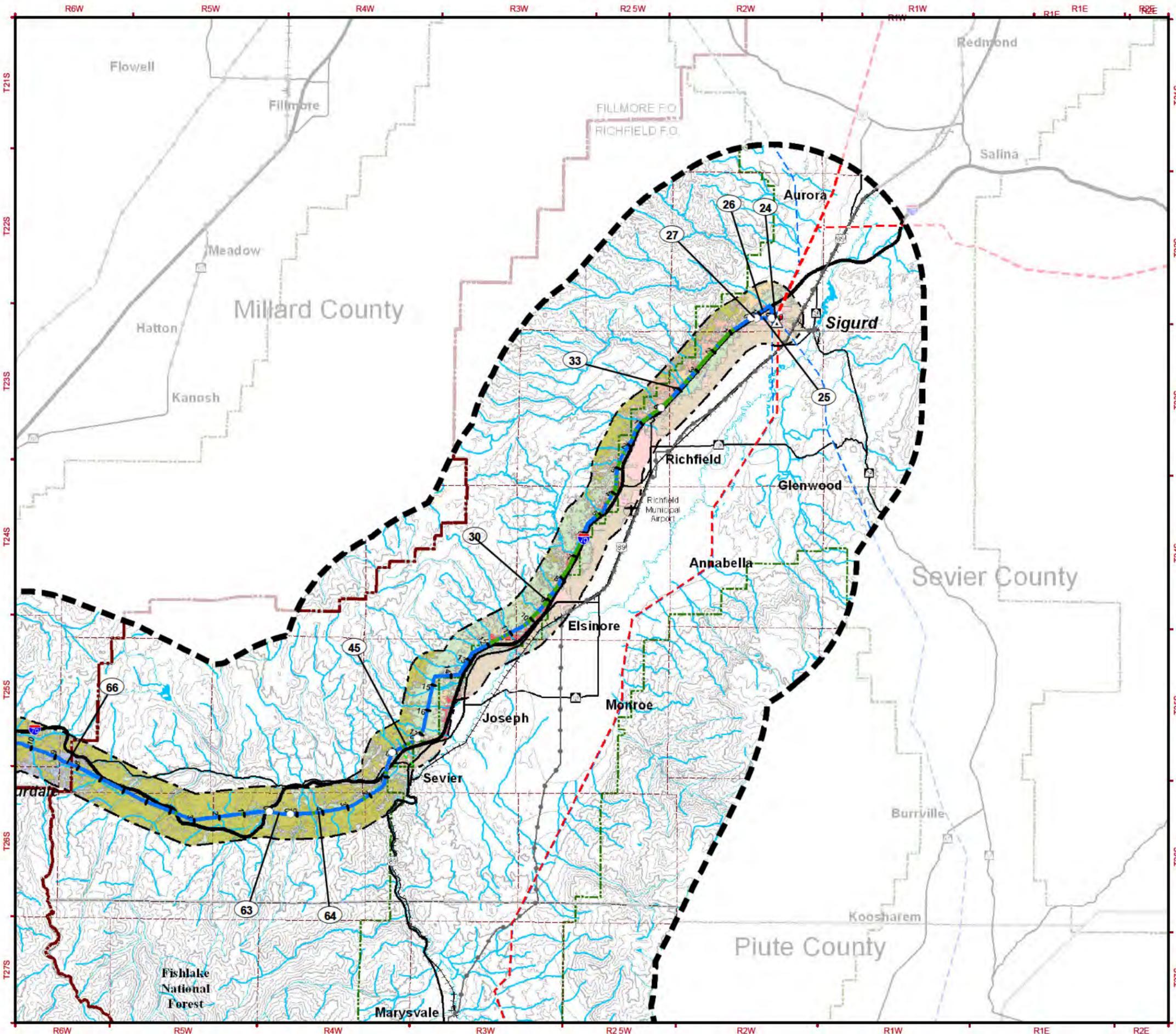
Resource Data:
Impact: EPG, 2010
GAP: USU, 2004
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008; BLM Field Office Boundary: BLM, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008;
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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT



MAP MV - 6b
VEGETATION
INVENTORY AND IMPACTS

LEGEND

GAP CLASSES

- Agriculture
- Alpine
- Aspen
- Barren/Sparsely Vegetated
- Big Sagebrush
- Bigtooth Maple
- Desert Shrub
- Disturbed
- Grassland
- Invasive
- Mixed Conifer
- Mountain Shrub
- Noxious
- Pinyon-juniper
- Ponderosa Pine
- Riparian
- Shrub Steppe
- Water
- Wetland
- Wildfire Impacted Areas/Reseeded through Emergency Stabilization and Rehabilitation Efforts

IMPACT LEVELS

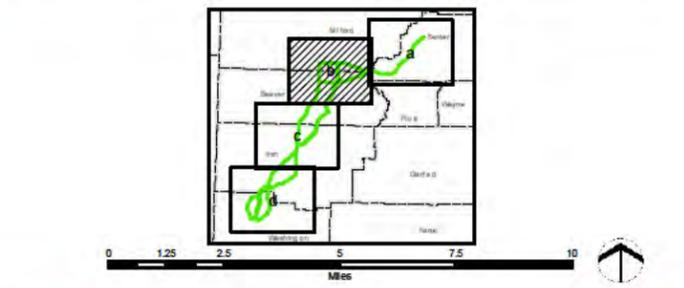
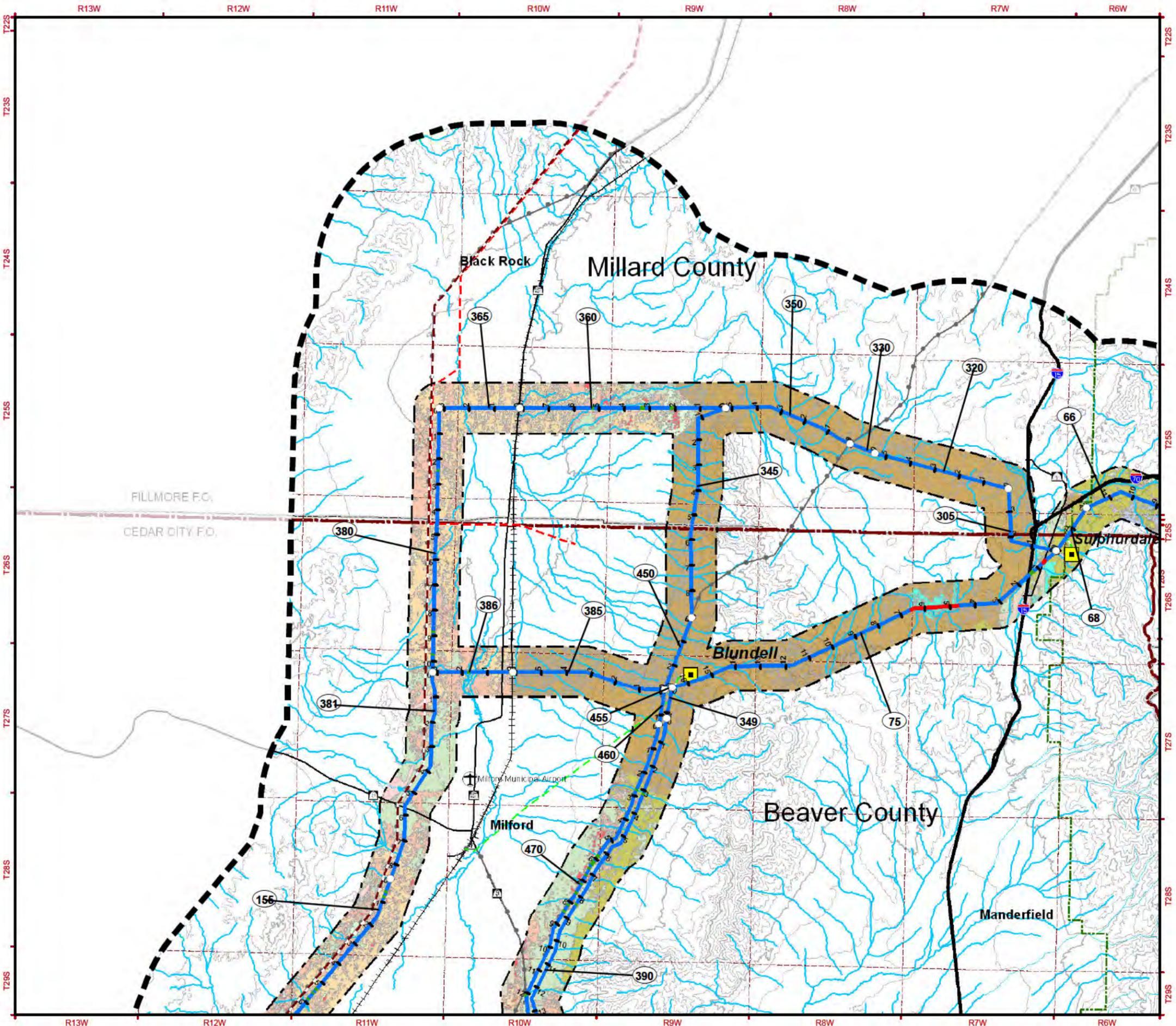
- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- BLM Field Office Boundary
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:
Resource Data:
Impact: EPG, 2010
GAP: USU, 2004
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008; BLM Field Office Boundary: BLM, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008;
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MAP MV - 6c
VEGETATION
INVENTORY AND IMPACTS

LEGEND

GAP CLASSES

- Agriculture
- Alpine
- Aspen
- Barren/Sparingly Vegetated
- Big Sagebrush
- Bigtooth Maple
- Desert Shrub
- Disturbed
- Grassland
- Invasive
- Mixed Conifer
- Mountain Shrub
- Noxious
- Pinyon-juniper
- Ponderosa Pine
- Riparian
- Shrub Steppe
- Water
- Wetland
- Wildfire Impacted Areas/Reseeded through
Emergency Stabilization and Rehabilitation Efforts

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

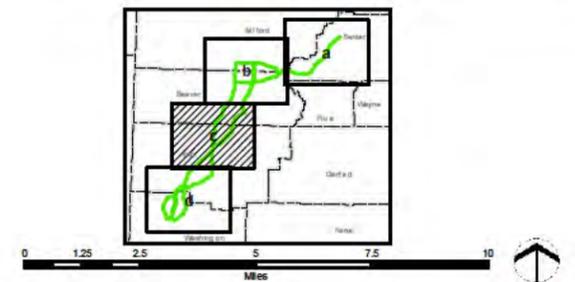
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- BLM Field Office Boundary
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:

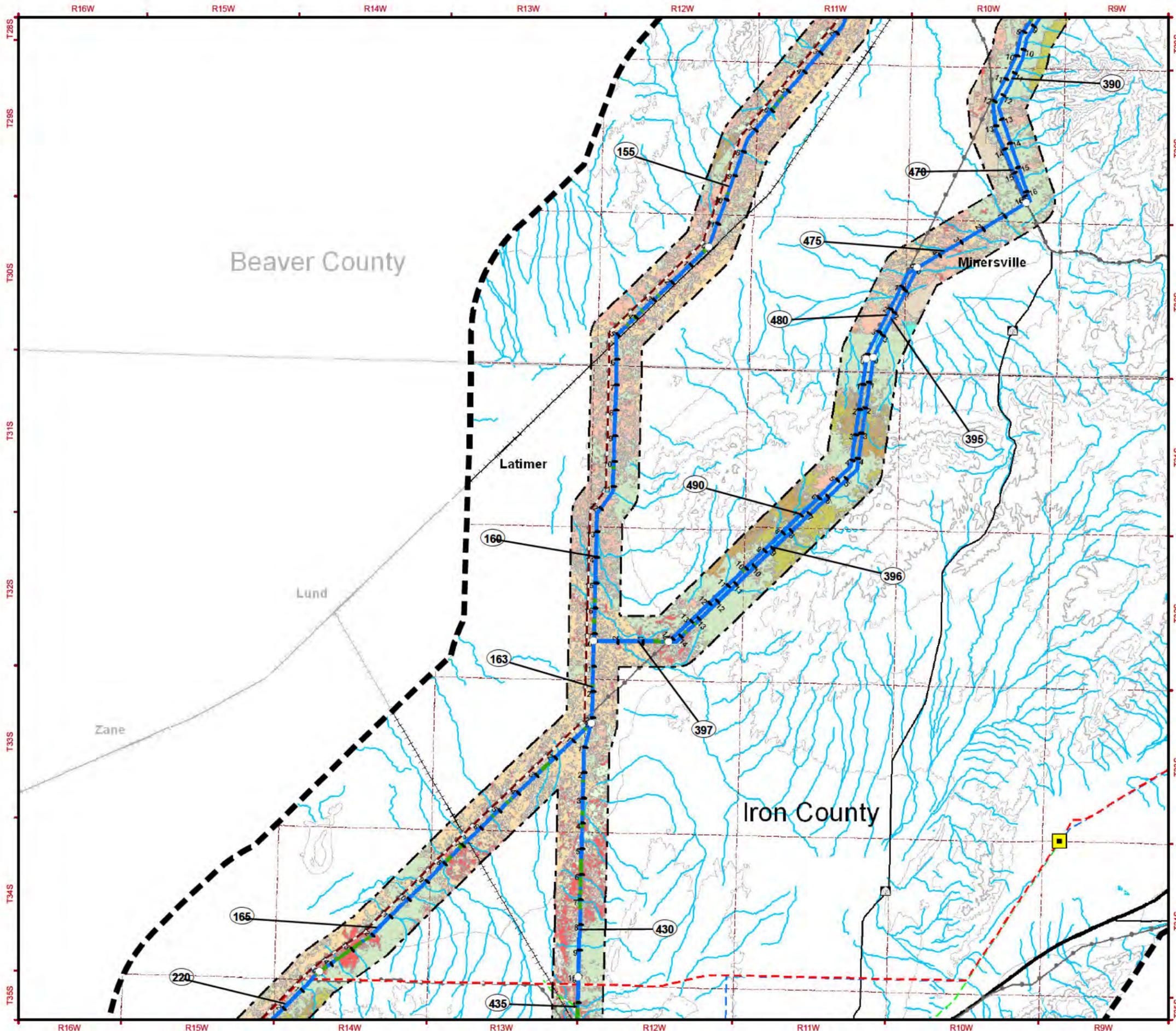
Resource Data:
Impact: EPG, 2010
GAP: USU, 2004
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008; BLM Field Office Boundary: BLM, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008;
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 6d
VEGETATION
INVENTORY AND IMPACTS

LEGEND

GAP CLASSES

- Agriculture
- Alpine
- Aspen
- Barren/Sparsely Vegetated
- Big Sagebrush
- Bigtooth Maple
- Desert Shrub
- Disturbed
- Grassland
- Invasive
- Mixed Conifer
- Mountain Shrub
- Noxious
- Pinyon-juniper
- Ponderosa Pine
- Riparian
- Shrub Steppe
- Water
- Wetland
- Wildfire Impacted Areas/Reseeded through
Emergency Stabilization and Rehabilitation Efforts

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

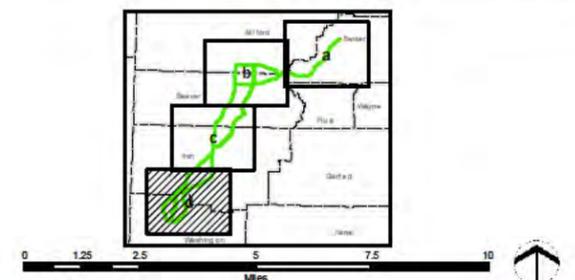
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- BLM Field Office Boundary
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:

Resource Data:
Impact: EPG, 2010
GAP: USU, 2004
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008; BLM Field Office Boundary: BLM, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008;
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345KV TRANSMISSION PROJECT



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MAP MV - 7a SENSITIVE HABITATS INVENTORY AND IMPACTS

RESOURCE INVENTORY

PYGMY RABBIT HABITAT

Potential Habitat

SAGE-GROUSE HABITAT

Crucial Brood-rearing Habitat

SENSITIVE PLANT HABITAT

Elsinore buckwheat, Ward's beardtongue, Utah phacelia
Pinyon penstemon

RAPTOR HABITAT

High quality
Medium quality
Low quality

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

Note: Impact levels shown are derived from sensitive habitats and threatened and endangered species and represent impacts remaining (residual) after the application of mitigation measures.

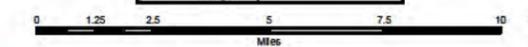
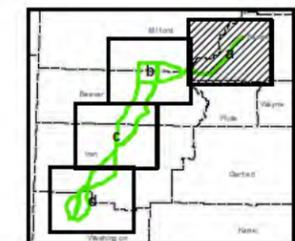
Note: Pre-construction surveys for these species will be conducted for the selected route in 2011-2012.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:

Resource Data:
Impact: EPG, 2010
Sage-Grouse Habitat: UDWR, 2006
Pygmy Rabbit: USU, 2004; Sensitive Plants: State of Utah, 2006
Raptor: UDWR, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD, 2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Water, River, Stream: USGS, 2008
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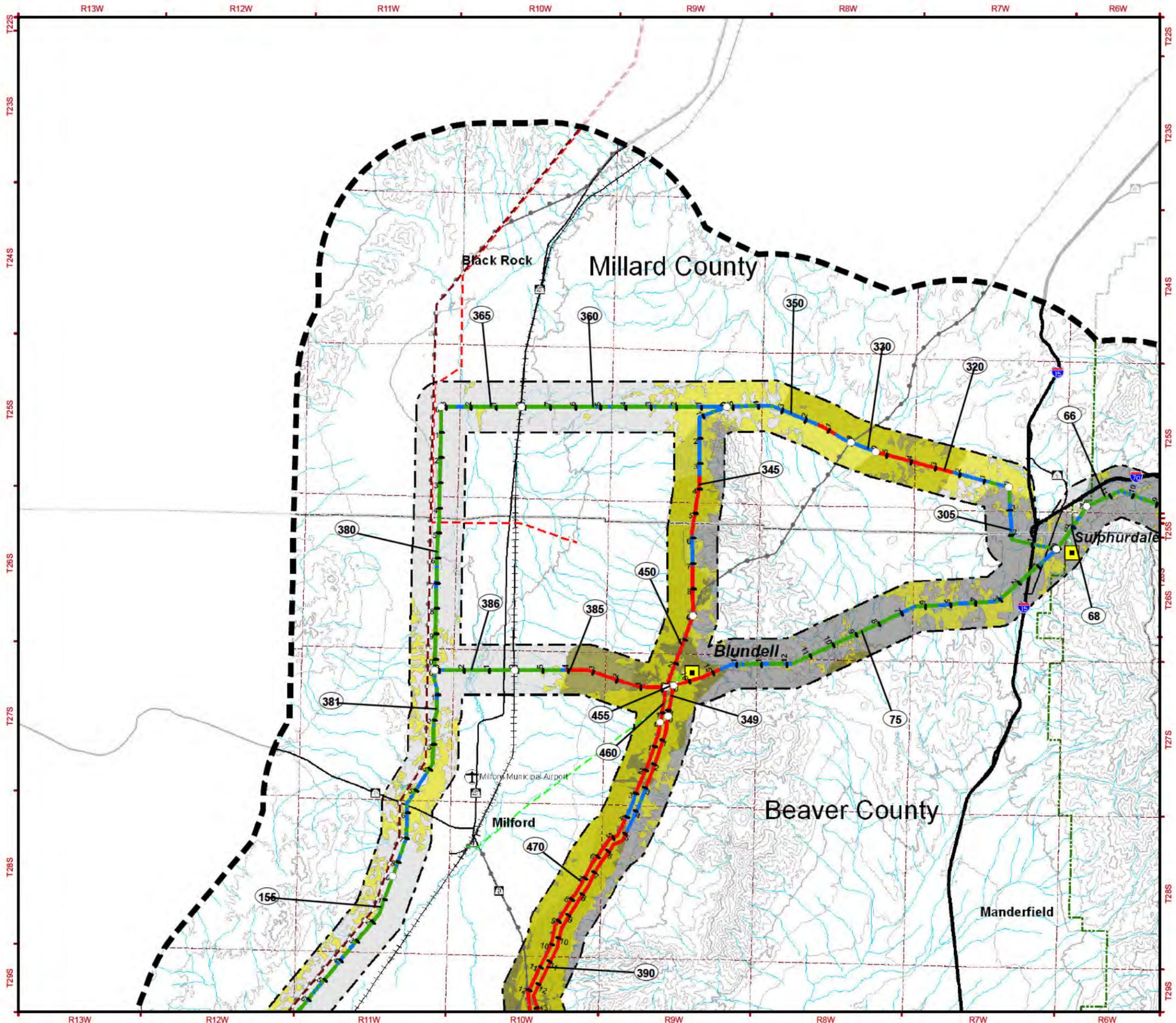
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MAP MV - 7b SENSITIVE HABITATS INVENTORY AND IMPACTS

RESOURCE INVENTORY

- PYGMY RABBIT HABITAT**
 - Potential Habitat
- SAGE-GROUSE HABITAT**
 - Crucial Brood-rearing Habitat
- SENSITIVE PLANT HABITAT**
 - Elsinore buckwheat, Ward's beardtongue, Utah phacelia
 - Pinyon penstemon

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown are derived from sensitive habitats and threatened and endangered species and represent impacts remaining (residual) after the application of mitigation measures.

RAPTOR HABITAT

- High quality
- Medium quality
- Low quality

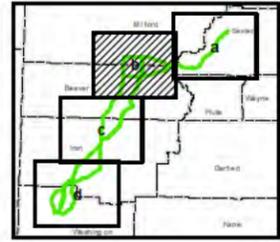
Note: Pre-construction surveys for these species will be conducted for the selected route in 2011-2012.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:

Resource Data:
 Impact: EPG, 2010
 Sage-Grouse Habitat: UDWR, 2006
 Pygmy Rabbit: USU, 2004; Sensitive Plants: State of Utah, 2006
 Raptor: UDWR, 2010
 Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD, 2008; U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Water, River, Stream: USGS, 2008
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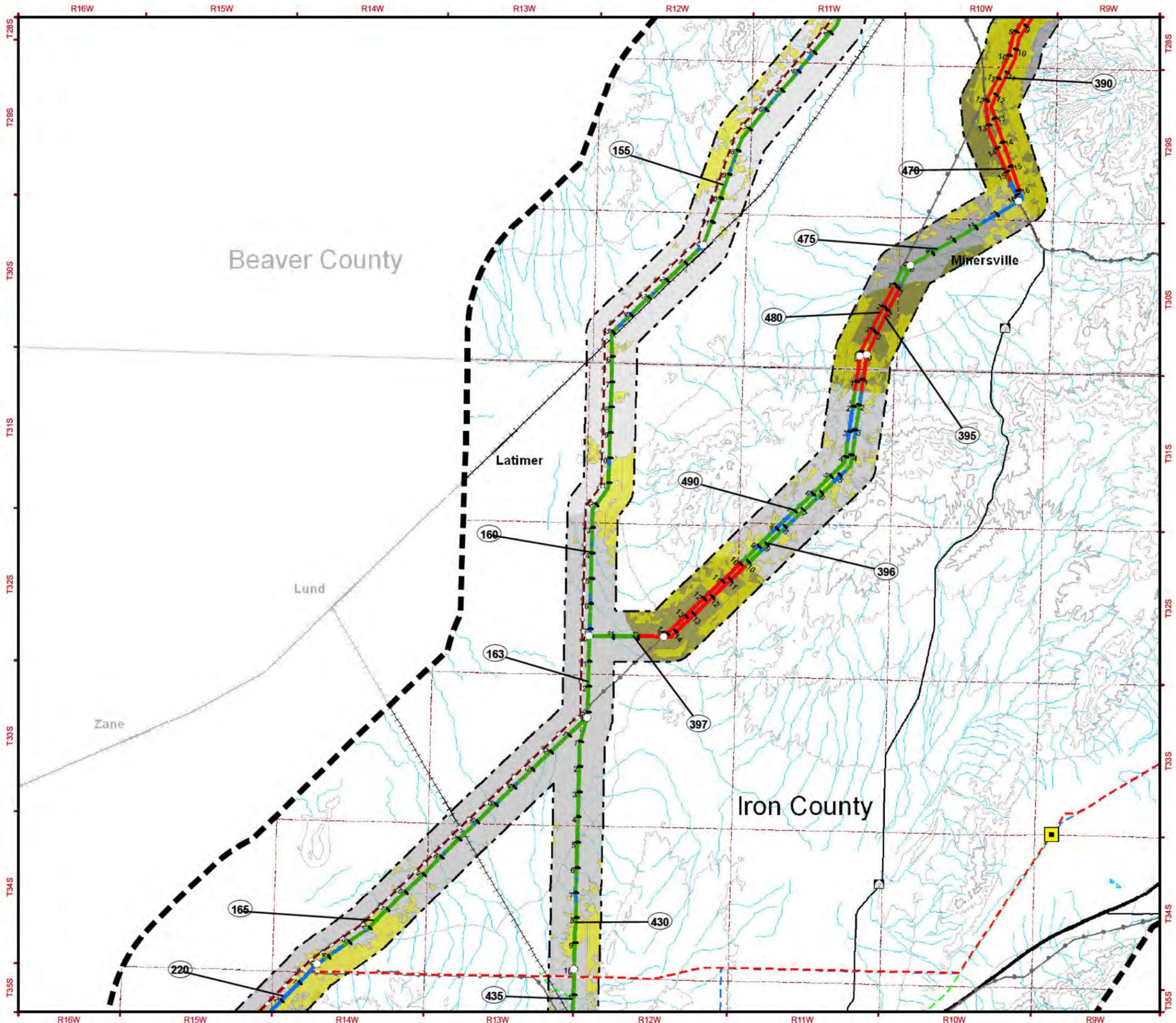
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MAP MV - 7c
SENSITIVE HABITATS
INVENTORY AND IMPACTS

RESOURCE INVENTORY

- PYGMY RABBIT HABITAT**
 Potential Habitat
- SAGE-GROUSE HABITAT**
 Crucial Brood-rearing Habitat
- SENSITIVE PLANT HABITAT**
 Elsinore buckwheat, Ward's beardtongue, Utah phacelia
 Pinyon penstemon

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

Note: Impact levels shown are derived from sensitive habitats and threatened and endangered species and represent impacts remaining (residual) after the application of mitigation measures.

RAPTOR HABITAT

- High quality
- Medium quality
- Low quality

Note: Pre-construction surveys for these species will be conducted for the selected route in 2011-2012.

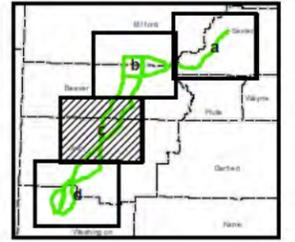
GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:

Resource Data:
 Impact: EPG, 2010
 Sage-Grouse Habitat: UDWR, 2006
 Pygmy Rabbit: USU, 2004; Sensitive Plants: State of Utah, 2006
 Raptor: UDWR, 2010

Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD, 2008; U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Water, River, Stream: USGS, 2008
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 7d
SENSITIVE HABITATS
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PYGMY RABBIT HABITAT

Potential Habitat

SAGE-GROUSE HABITAT

Crucial Brood-rearing Habitat

SENSITIVE PLANT HABITAT

Elsinore buckwheat, Ward's beardtongue, Utah phacelia
Pinyon penstemon

RAPTOR HABITAT

High quality
Medium quality
Low quality

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

Note: Impact levels shown are derived from sensitive habitats and threatened and endangered species and represent impacts remaining (residual) after the application of mitigation measures.

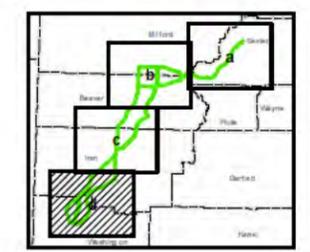
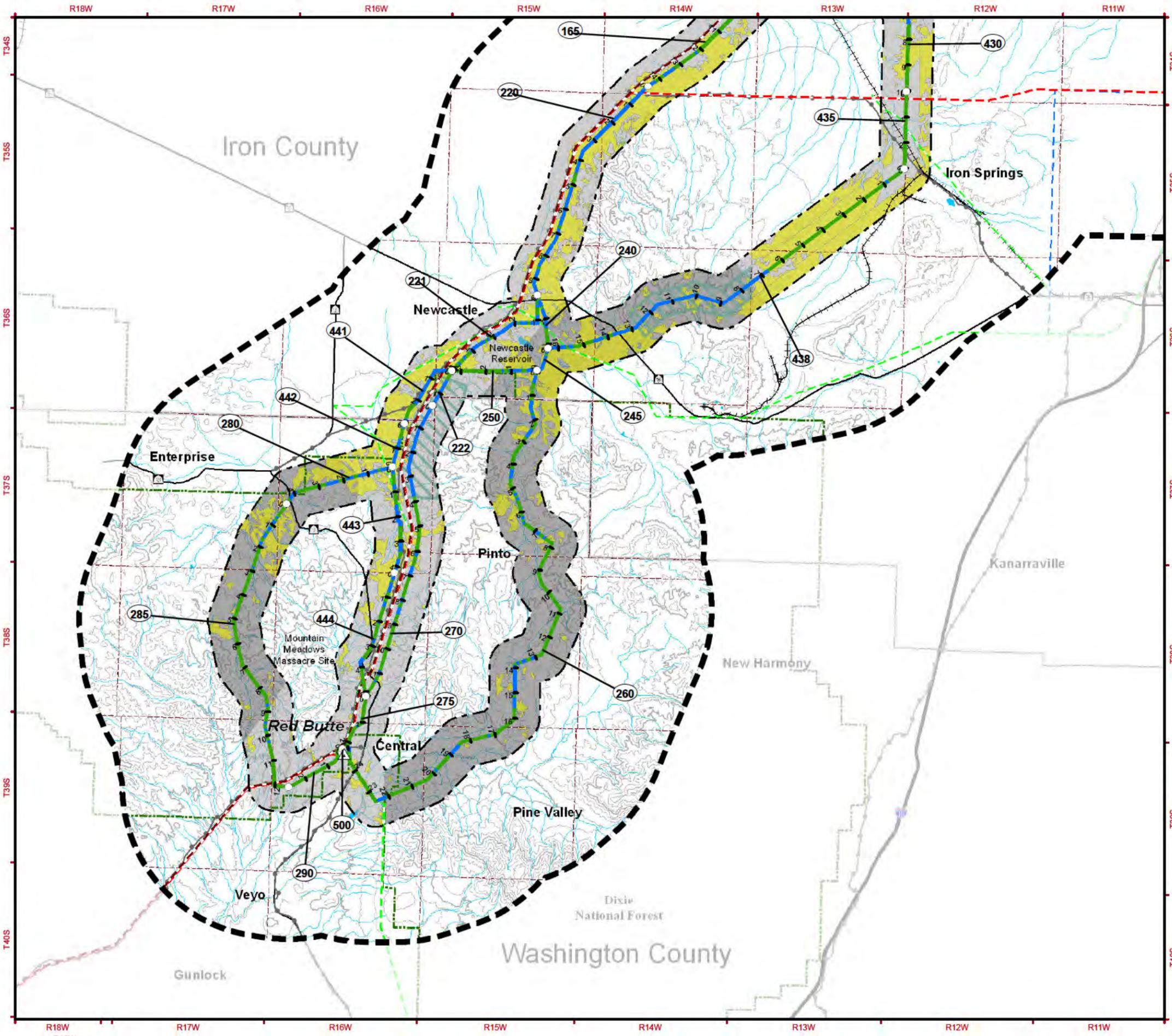
Note: Pre-construction surveys for these species will be conducted for the selected route in 2011-2012.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:

Resource Data:
Impact: EPG, 2010
Sage-Grouse Habitat: UDWR, 2006
Pygmy Rabbit: USU, 2004; Sensitive Plants: State of Utah, 2006
Raptor: UDWR, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Water, River, Stream: USGS, 2008
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345kV TRANSMISSION PROJECT



MAP MV - 8a
CRUCIAL BIG GAME
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PRONGHORN HABITAT
Year-long

MULE DEER HABITAT
Summer
Winter

ELK HABITAT
Winter

IMPACT LEVELS

High
Moderate
Low
Not Identifiable

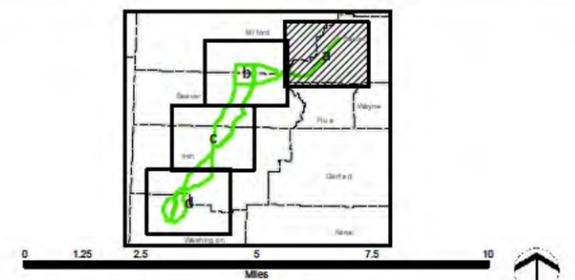
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:

Resource Data:
Impact: EPG, 2010
Elk, Mule Deer: State of Utah, 2008
Pronghorn: State of Utah, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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345KV TRANSMISSION PROJECT



MAP MV - 8b
CRUCIAL BIG GAME
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PRONGHORN HABITAT

Year-long

MULE DEER HABITAT

Summer

Winter

ELK HABITAT

Winter

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

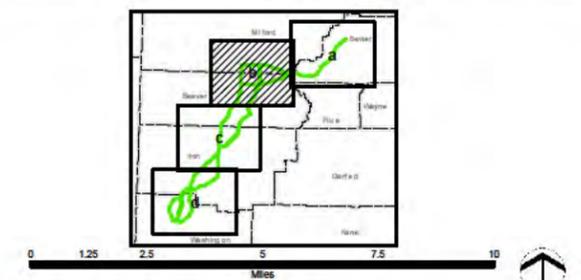
SOURCES:

Resource Data:

Impact: EPG, 2010
Elk, Mule Deer: State of Utah, 2008
Pronghorn: State of Utah, 2010

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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MAP MV - 8c
CRUCIAL BIG GAME
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PRONGHORN HABITAT

Year-long

MULE DEER HABITAT

Summer

Winter

ELK HABITAT

Winter

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

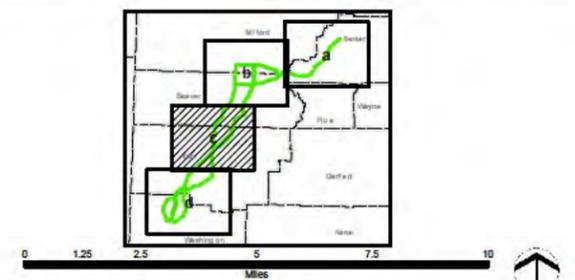
SOURCES:

Resource Data:

Impact: EPG, 2010
Elk, Mule Deer: State of Utah, 2008
Pronghorn: State of Utah, 2010

Base Data:

Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT



MAP MV - 8d
CRUCIAL BIG GAME
INVENTORY AND IMPACTS

RESOURCE INVENTORY

PRONGHORN HABITAT

Year-long

MULE DEER HABITAT

Summer

Winter

ELK HABITAT

Winter

IMPACT LEVELS

High

Moderate

Low

Not Identifiable

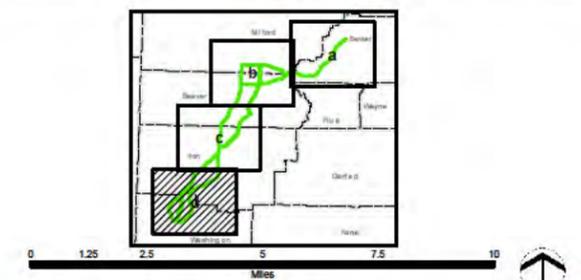
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir
- Index Contour (500-Meter Interval)
- Index Contour (100-Meter Interval)

SOURCES:

Resource Data:
Impact: EPG, 2010
Elk, Mule Deer: State of Utah, 2008
Pronghorn: State of Utah, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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Paleontological Resources

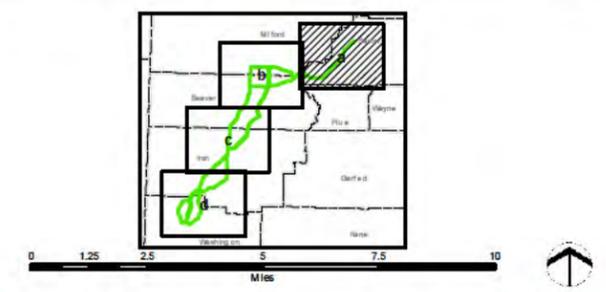
MAP MV - 9a
PALEONTOLOGICAL RESOURCES
INVENTORY AND SENSITIVITY

RESOURCE INVENTORY	SENSITIVITY
POTENTIAL FOSSIL YIELD CLASSIFICATION (PFYC)	High
Very High	Moderate
High	Low
Moderate/Undetermined	Not Identifiable
Low	
Very Low	

GENERAL REFERENCE FEATURES

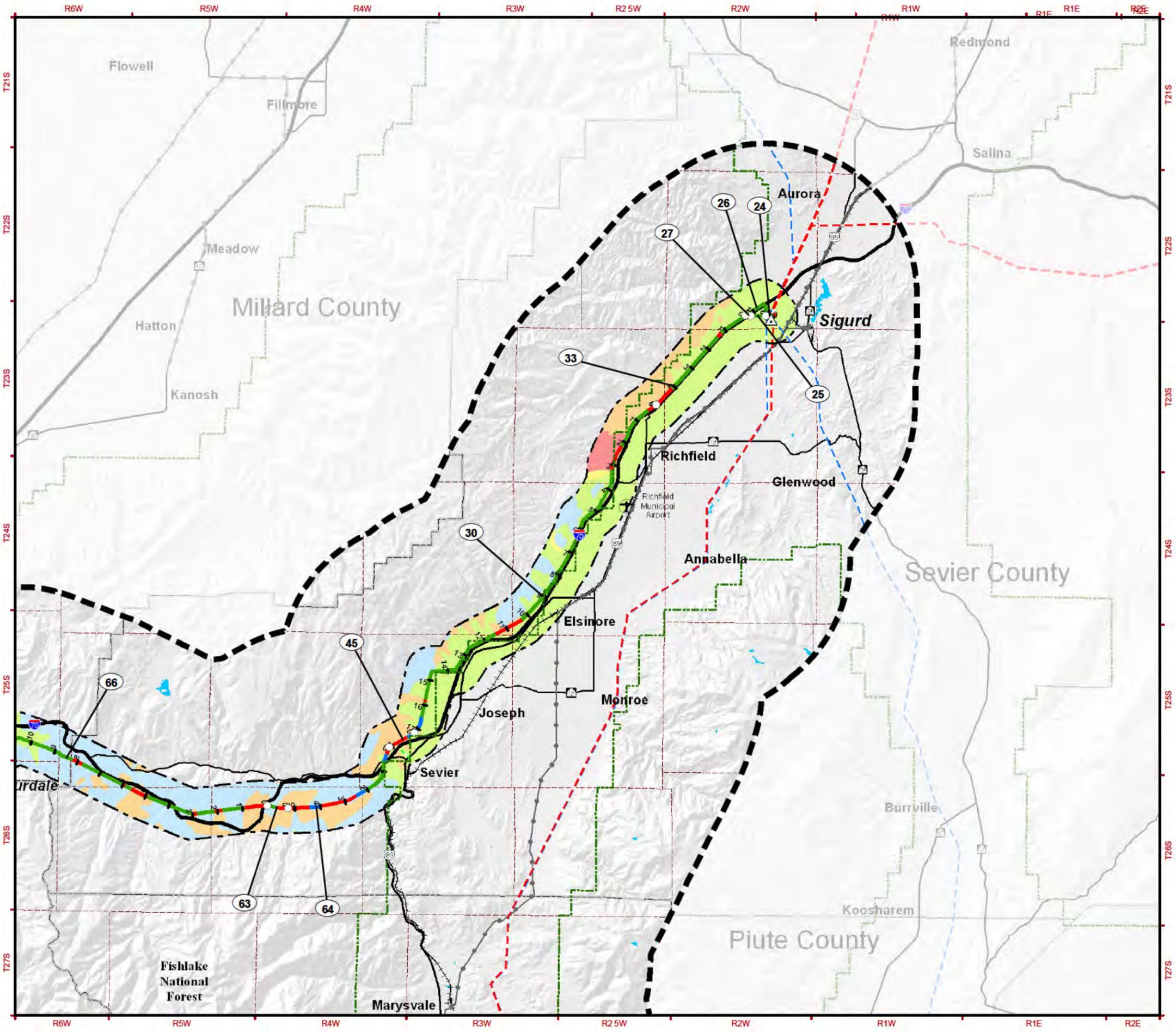
Project Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	River or Stream
345kV Transmission Line	Lake or Reservoir
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

SOURCES:
Resource Data:
Sensitivity: EPG, 2010
Potential Fossil Yield Classification: BLM and UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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345KV TRANSMISSION PROJECT



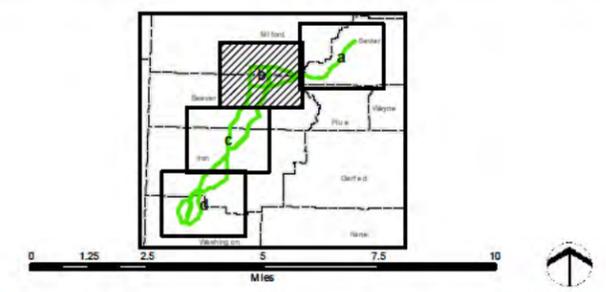
MAP MV - 9b PALEONTOLOGICAL RESOURCES INVENTORY AND SENSITIVITY

RESOURCE INVENTORY		SENSITIVITY	
POTENTIAL FOSSIL YIELD CLASSIFICATION (PFYC)		High	
Very High	(Red)	Moderate	(Blue)
High	(Orange)	Low	(Green)
Moderate/Undetermined	(Yellow)	Not Identifiable	(Grey)
Low	(Light Green)		
Very Low	(Light Blue)		

GENERAL REFERENCE FEATURES

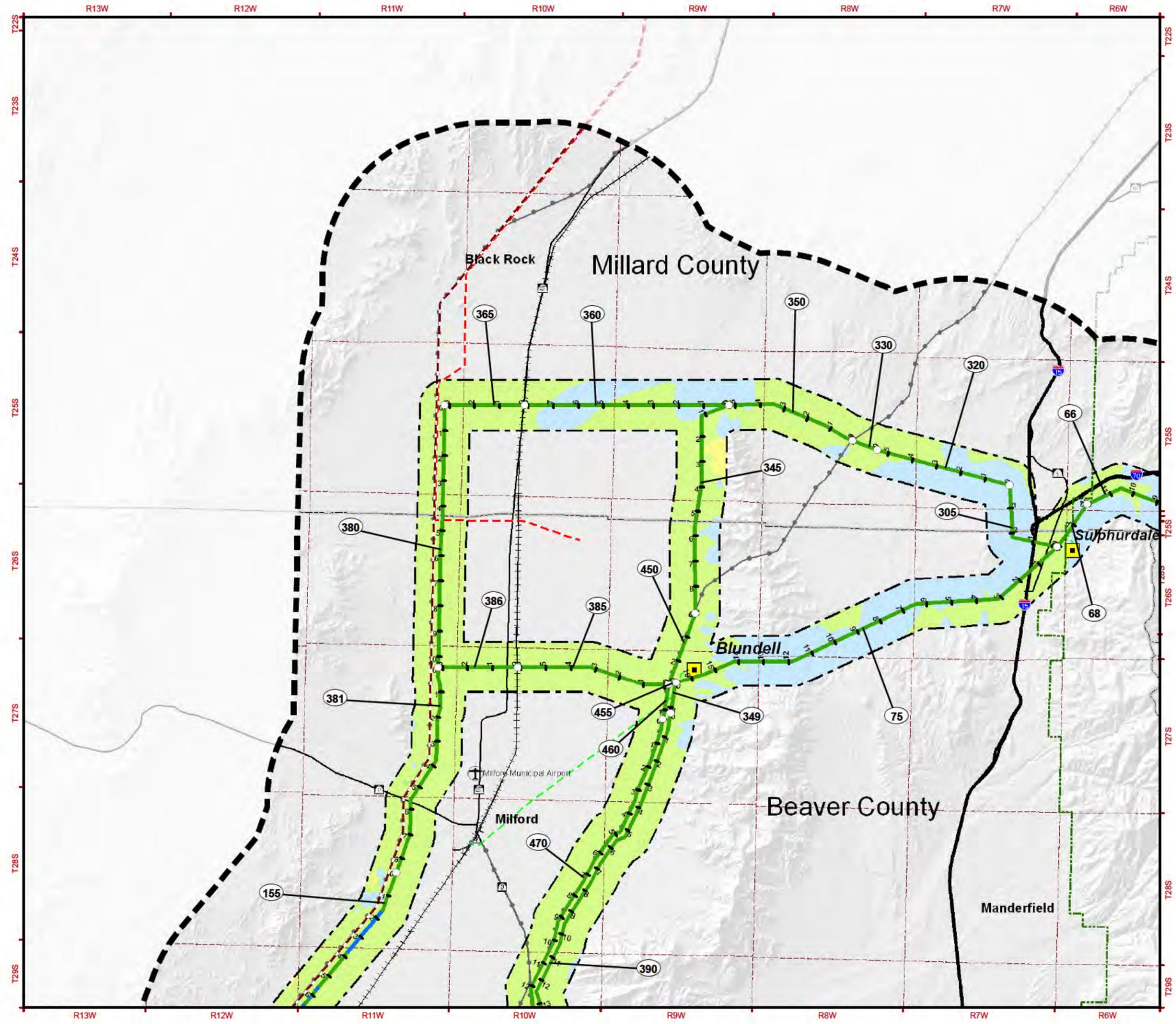
Project Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	River or Stream
345kV Transmission Line	Lake or Reservoir
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

SOURCES:
 Resource Data:
 Sensitivity: EPG, 2010
 Potential Fossil Yield Classification: BLM and UGS, 2007
 Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2 345KV TRANSMISSION PROJECT



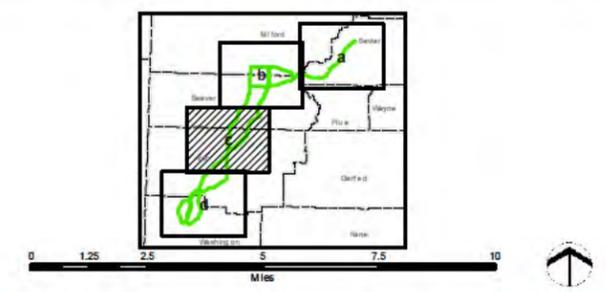
MAP MV - 9c
PALEONTOLOGICAL RESOURCES
INVENTORY AND SENSITIVITY

RESOURCE INVENTORY	SENSITIVITY
POTENTIAL FOSSIL YIELD CLASSIFICATION (PFYC)	High
Very High	Moderate
High	Low
Moderate/Undetermined	Not Identifiable
Low	
Very Low	

GENERAL REFERENCE FEATURES

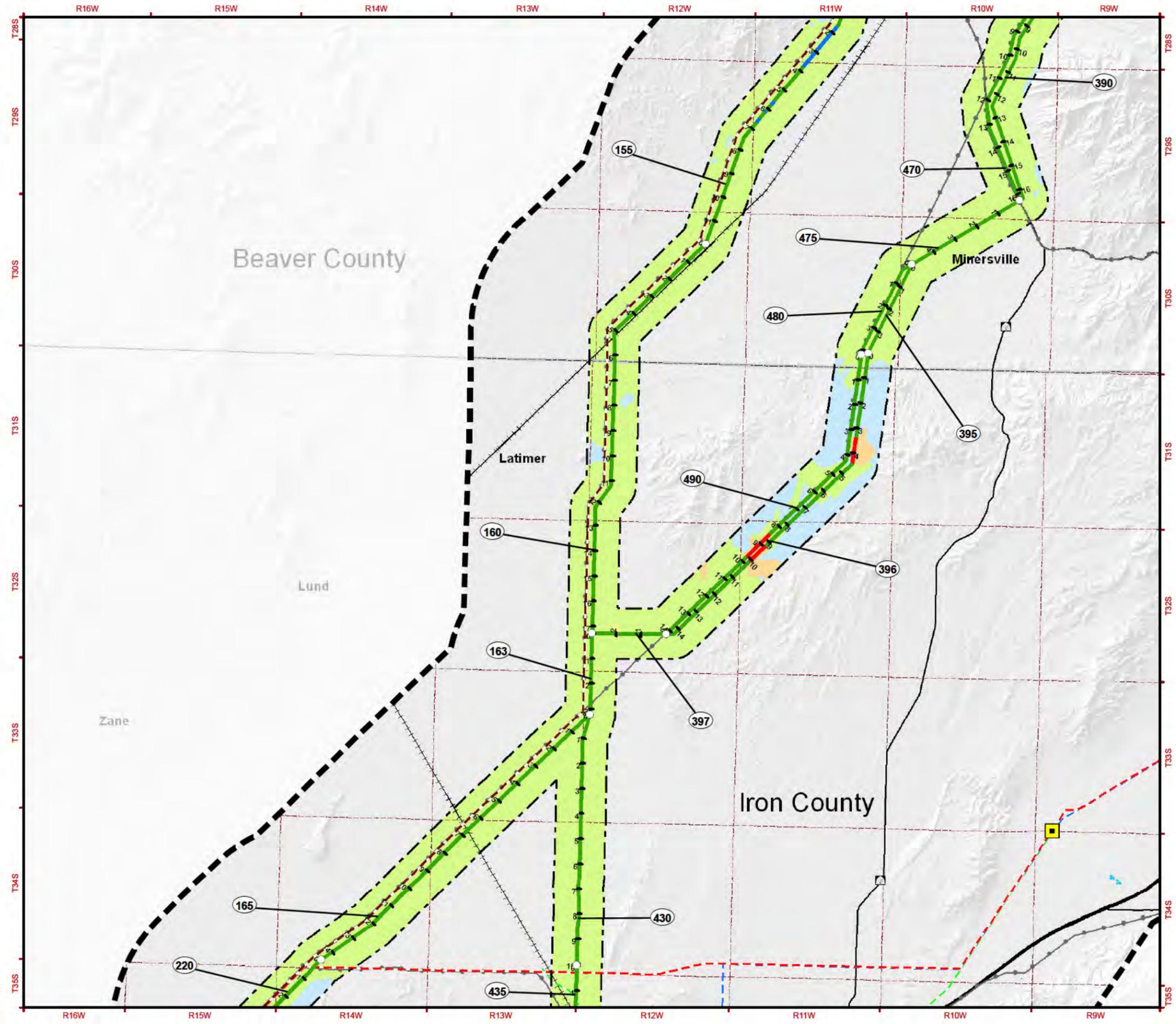
Project Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	River or Stream
345kV Transmission Line	Lake or Reservoir
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

SOURCES:
 Resource Data:
 Sensitivity: EPG, 2010
 Potential Fossil Yield Classification: BLM and UGS, 2007
 Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



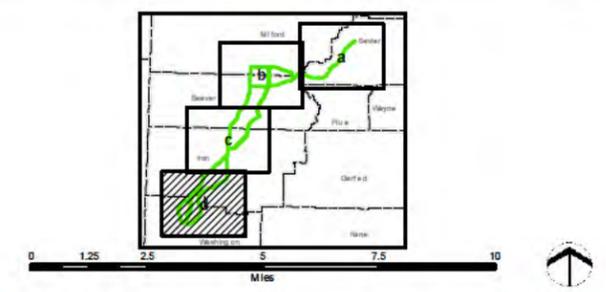
MAP MV - 9d
PALEONTOLOGICAL RESOURCES
INVENTORY AND SENSITIVITY

RESOURCE INVENTORY		SENSITIVITY	
POTENTIAL FOSSIL YIELD CLASSIFICATION (PFYC)			
Very High	High	High	High
High	Moderate/Undetermined	Moderate	Moderate
Moderate/Undetermined	Low	Low	Low
Low	Very Low	Not Identifiable	Not Identifiable
Very Low			

GENERAL REFERENCE FEATURES

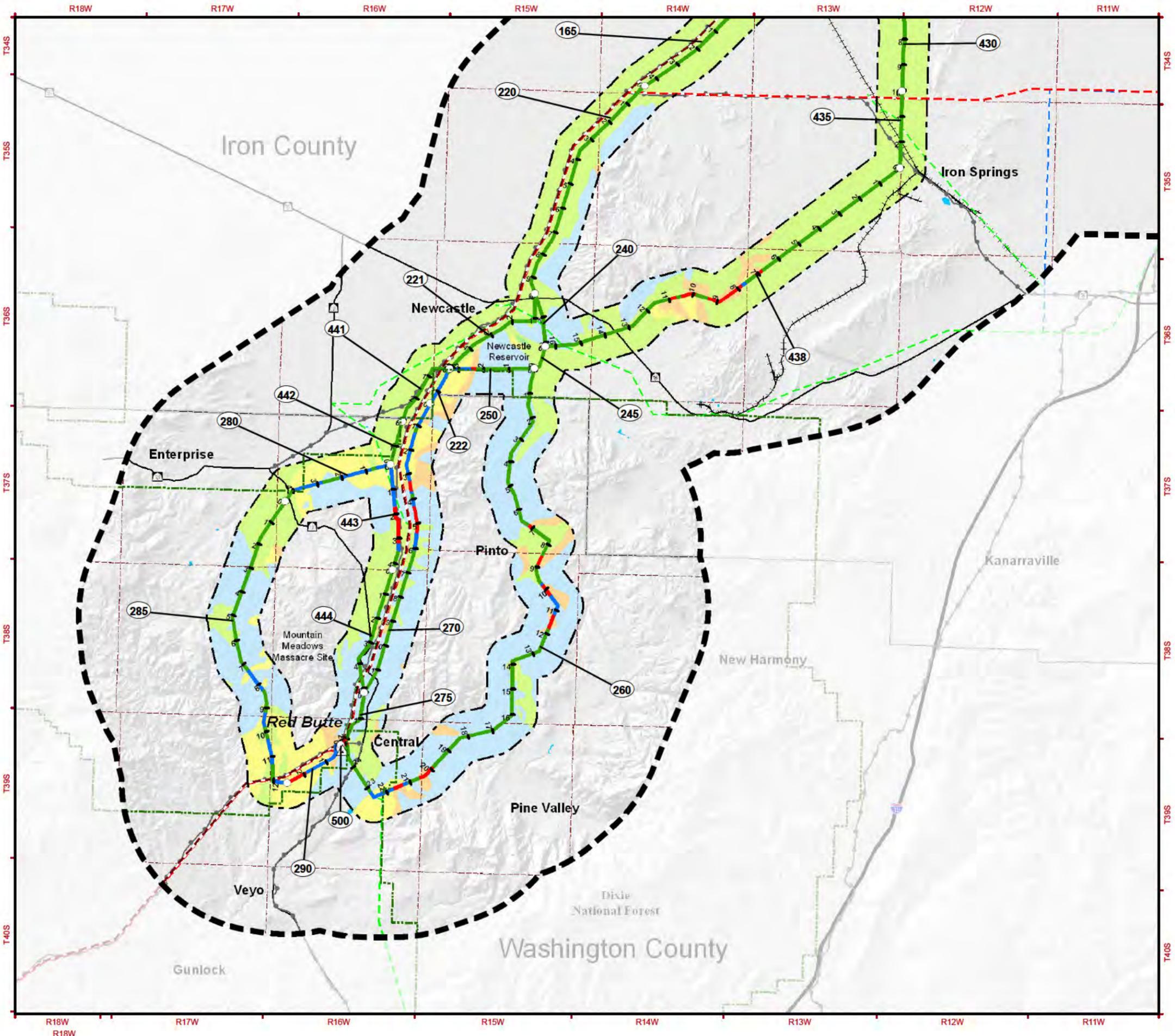
Project Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	River or Stream
345kV Transmission Line	Lake or Reservoir
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

SOURCES:
Resource Data:
Sensitivity: EPG, 2010
Potential Fossil Yield Classification: BLM and UGS, 2007
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT



Visual Resources

MAP MV - 10a
LANDSCAPE SCENERY
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SCENIC QUALITY/
SCENIC ATTRACTIVENESS

- A
- B
- C
- Developed

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low
- Not Identifiable

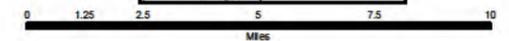
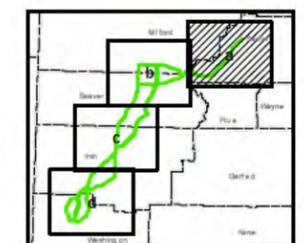
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
Scenic Quality/Scenic Attractiveness: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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345KV TRANSMISSION PROJECT



MAP MV - 10b
LANDSCAPE SCENERY
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SCENIC QUALITY/
SCENIC ATTRACTIVENESS

- A
- B
- C
- Developed

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low
- Not Identifiable

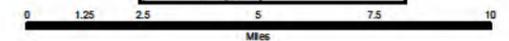
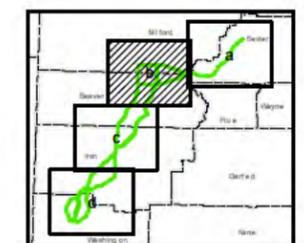
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
Scenic Quality/Scenic Attractiveness: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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345KV TRANSMISSION PROJECT



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MAP MV - 10c
LANDSCAPE SCENERY
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SCENIC QUALITY/
SCENIC ATTRACTIVENESS

- A
- B
- C
- Developed

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low
- Not Identifiable

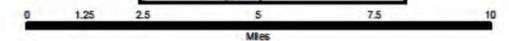
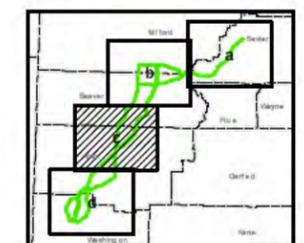
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

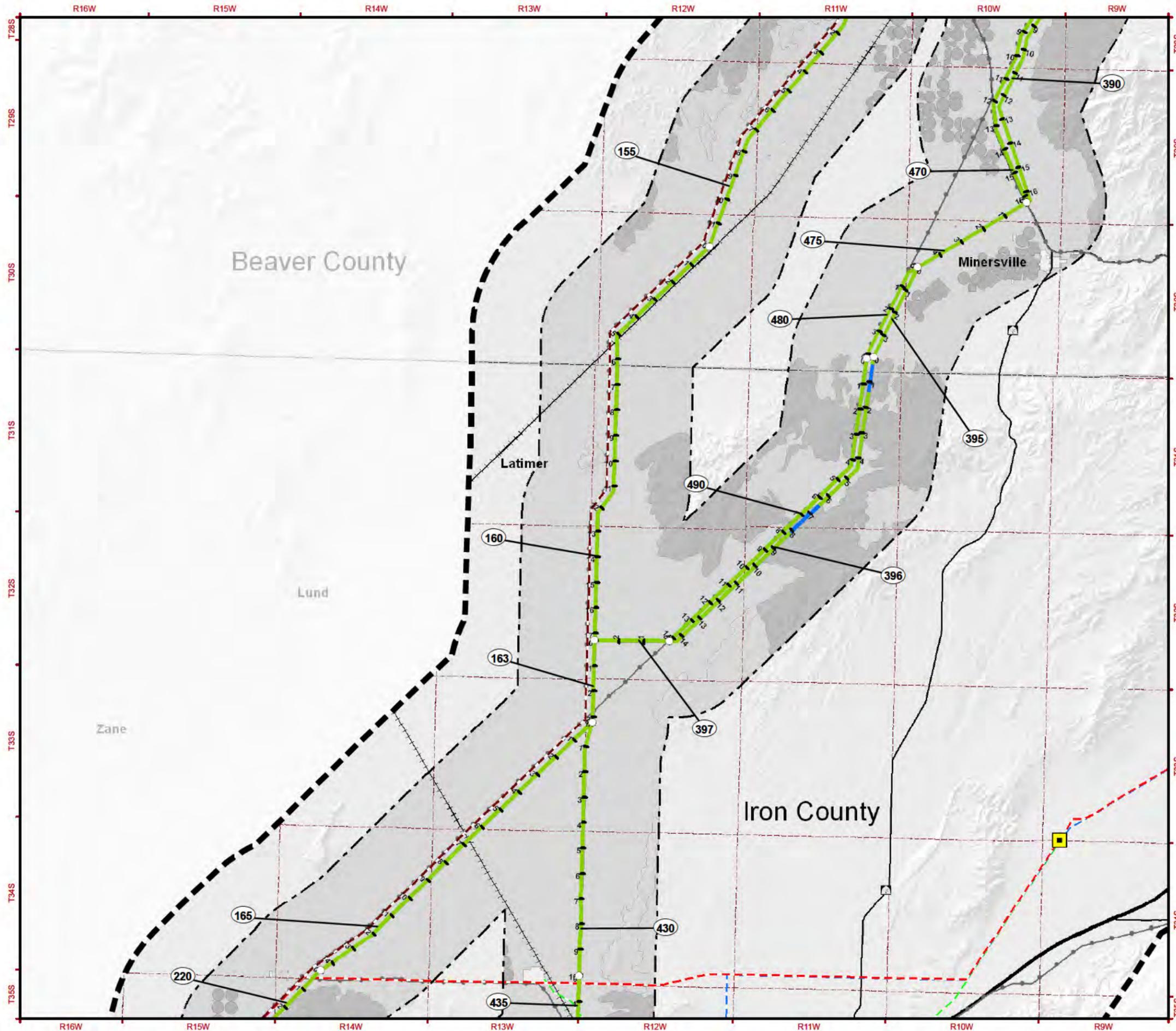
Resource Data:
Impact: EPG, 2010
Scenic Quality/Scenic Attractiveness: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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345kV TRANSMISSION PROJECT



MAP MV - 10d
LANDSCAPE SCENERY
INVENTORY AND IMPACTS

RESOURCE INVENTORY

SCENIC QUALITY/
SCENIC ATTRACTIVENESS

- A
- B
- C
- Developed

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low
- Not Identifiable

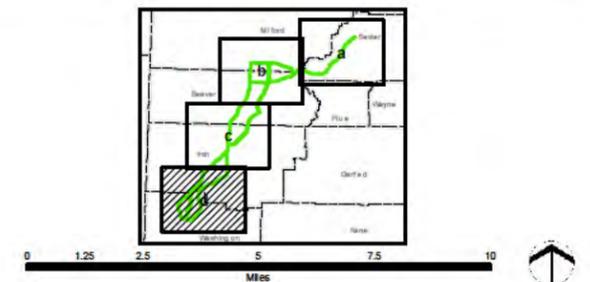
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
Scenic Quality/Scenic Attractiveness: EPG, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
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MAP MV - 11b
MODERATE SENSITIVITY VIEWERS
INVENTORY AND IMPACTS

RESOURCE INVENTORY	IMPACT LEVELS
SENSITIVE VIEWERS	High
DISTANCE ZONES	Moderate/High
0 to 0.25 mile	Moderate
0.25 to 0.5 mile	Low/Moderate
0.5 to 1.0 mile	Low
1.0 to 2.0 miles	
Over 2.0 miles	

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

SENSITIVE VIEWERS LOCATIONS

Moderate

KEY OBSERVATION POINTS

Simulation and Key Observation Point

Key Observation Point Only

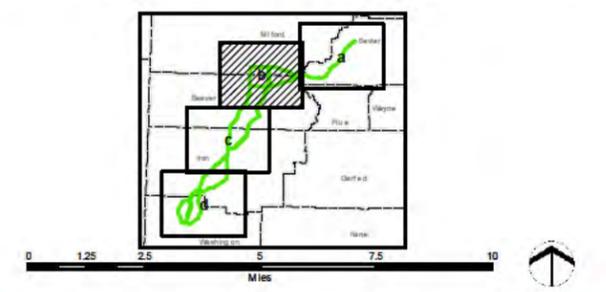
GENERAL REFERENCE FEATURES

Project Area	County Boundary
Study Corridor	U.S. Forest Service Boundary
Link Number	Township Line
Mile Tick	Interstate Highway
Centerline	U.S. Highway
Link Node	State Highway
Power Plant	Railroad
Substation	Airport
500kV +/- DC Transmission Line	
345kV Transmission Line	
230 to 287kV Transmission Line	
138 to 161kV Transmission Line	
Pipeline	

SOURCES:

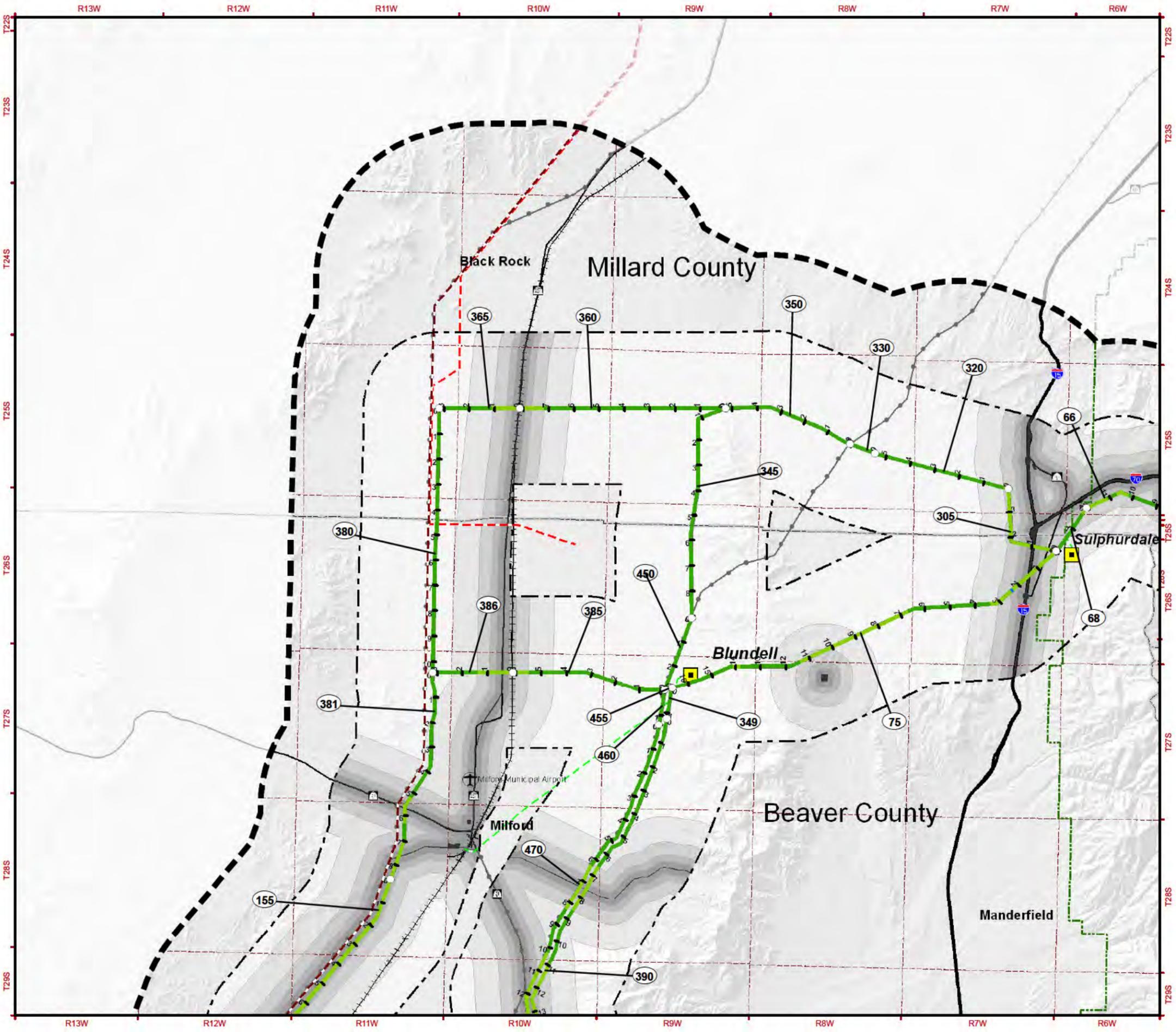
Resource Data:
 Impact: EPG, 2010
 Key Observation Points: EPG, 2010
 Sensitive Viewer: EPG, 2010

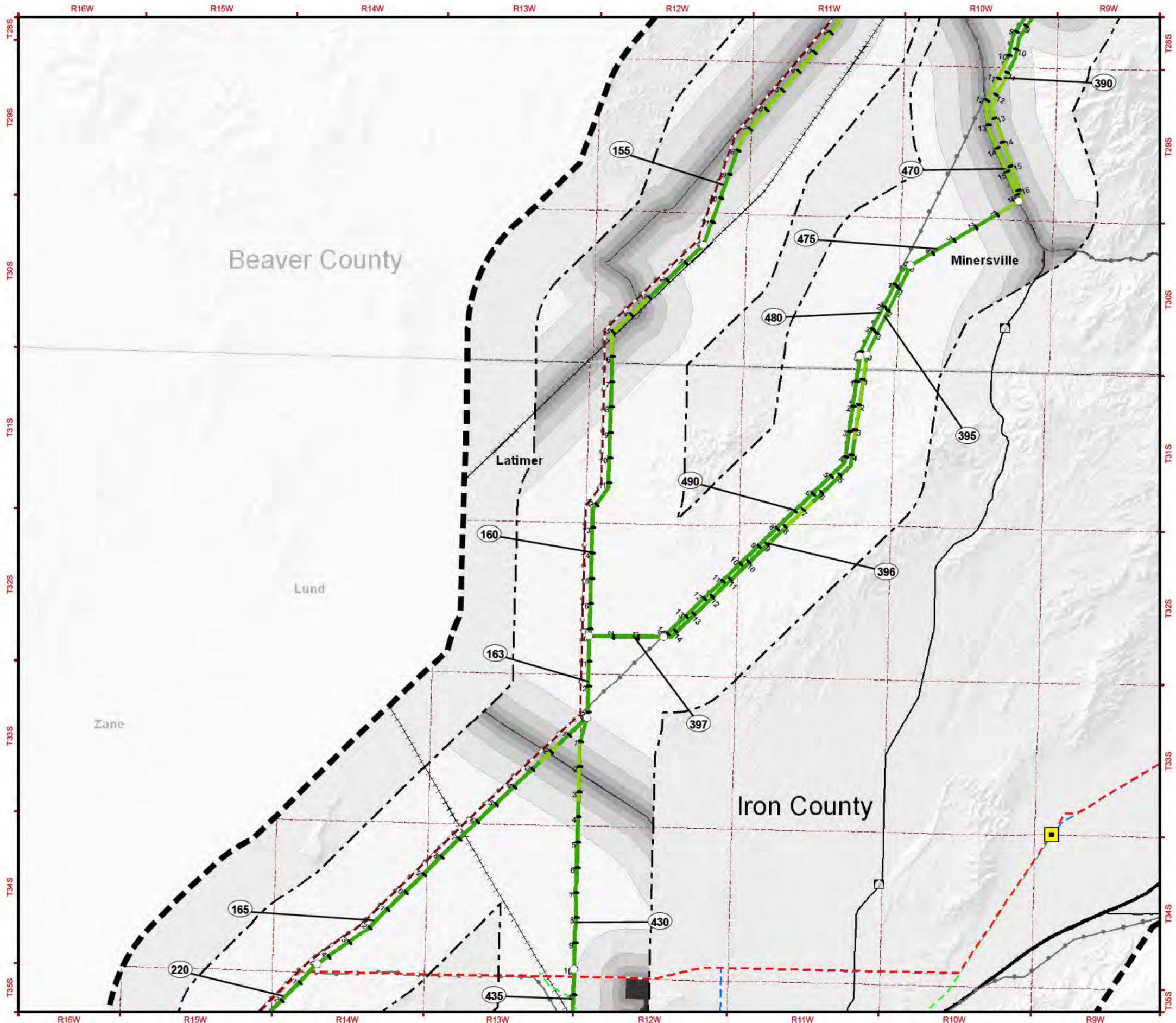
Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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345kV TRANSMISSION PROJECT





MAP MV - 11c
MODERATE SENSITIVITY VIEWERS
INVENTORY AND IMPACTS

- RESOURCE INVENTORY**
- SENSITIVE VIEWERS**
- DISTANCE ZONES**
- 0 to 0.25 mile
 - 0.25 to 0.5 mile
 - 0.5 to 1.0 mile
 - 1.0 to 2.0 miles
 - Over 2.0 miles
- SENSITIVE VIEWERS LOCATIONS**
- Moderate
- IMPACT LEVELS**
- High
 - Moderate/High
 - Moderate
 - Low/Moderate
 - Low
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

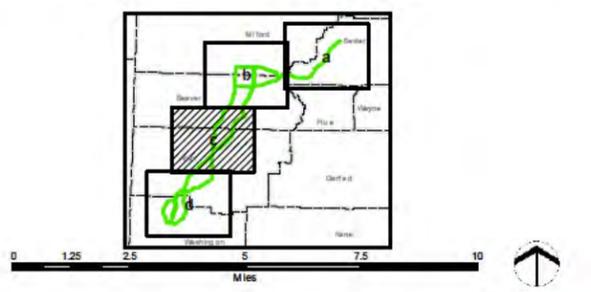
- KEY OBSERVATION POINTS**
- Simulation and Key Observation Point
 - Key Observation Point Only

- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport

SOURCES:

Resource Data:
 Impact: EPG, 2010
 Key Observation Points: EPG, 2010
 Sensitive Viewer: EPG, 2010

Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV - 12a HIGH SENSITIVITY VIEWERS INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWERS DISTANCE ZONES

- 0 to 0.25 mile
- 0.25 to 0.5 mile
- 0.5 to 1.0 mile
- 1.0 to 2.0 miles
- Over 2.0 miles

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

SENSITIVE VIEWERS LOCATIONS

- High

KEY OBSERVATION POINTS

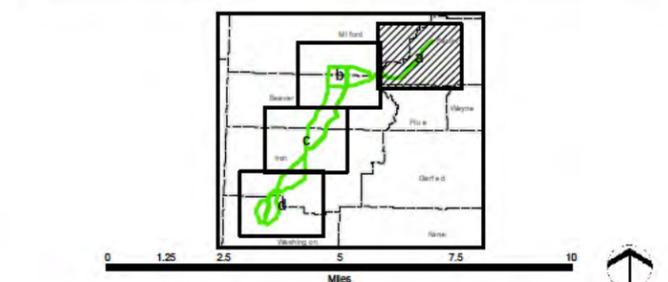
- Simulation and Key Observation Point
- Key Observation Point Only

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
 Impact: EPG, 2010
 Key Observation Points: EPG, 2010
 Sensitive Viewer: EPG, 2010; AGRC, 1998; BLM, 2010
 Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV - 12b HIGH SENSITIVITY VIEWERS INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWERS

DISTANCE ZONES

- 0 to 0.25 mile
- 0.25 to 0.5 mile
- 0.5 to 1.0 mile
- 1.0 to 2.0 miles
- Over 2.0 miles

SENSITIVE VIEWERS LOCATIONS

- High

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

KEY OBSERVATION POINTS

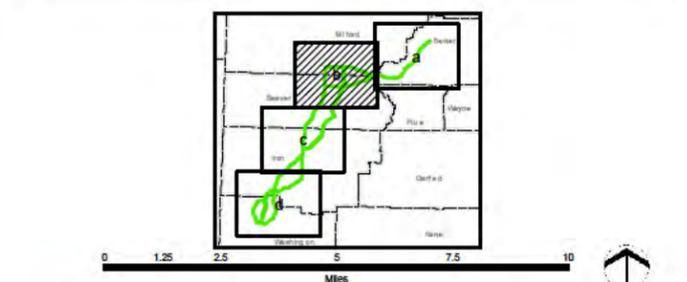
- Simulation and Key Observation Point
- Key Observation Point Only

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
 Impact: EPG, 2010
 Key Observation Points: EPG, 2010
 Sensitive Viewer: EPG, 2010; AGRC, 1998; BLM, 2010
 Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Hillshade: USGS, 1990; POWERmap, powermap.platts.com
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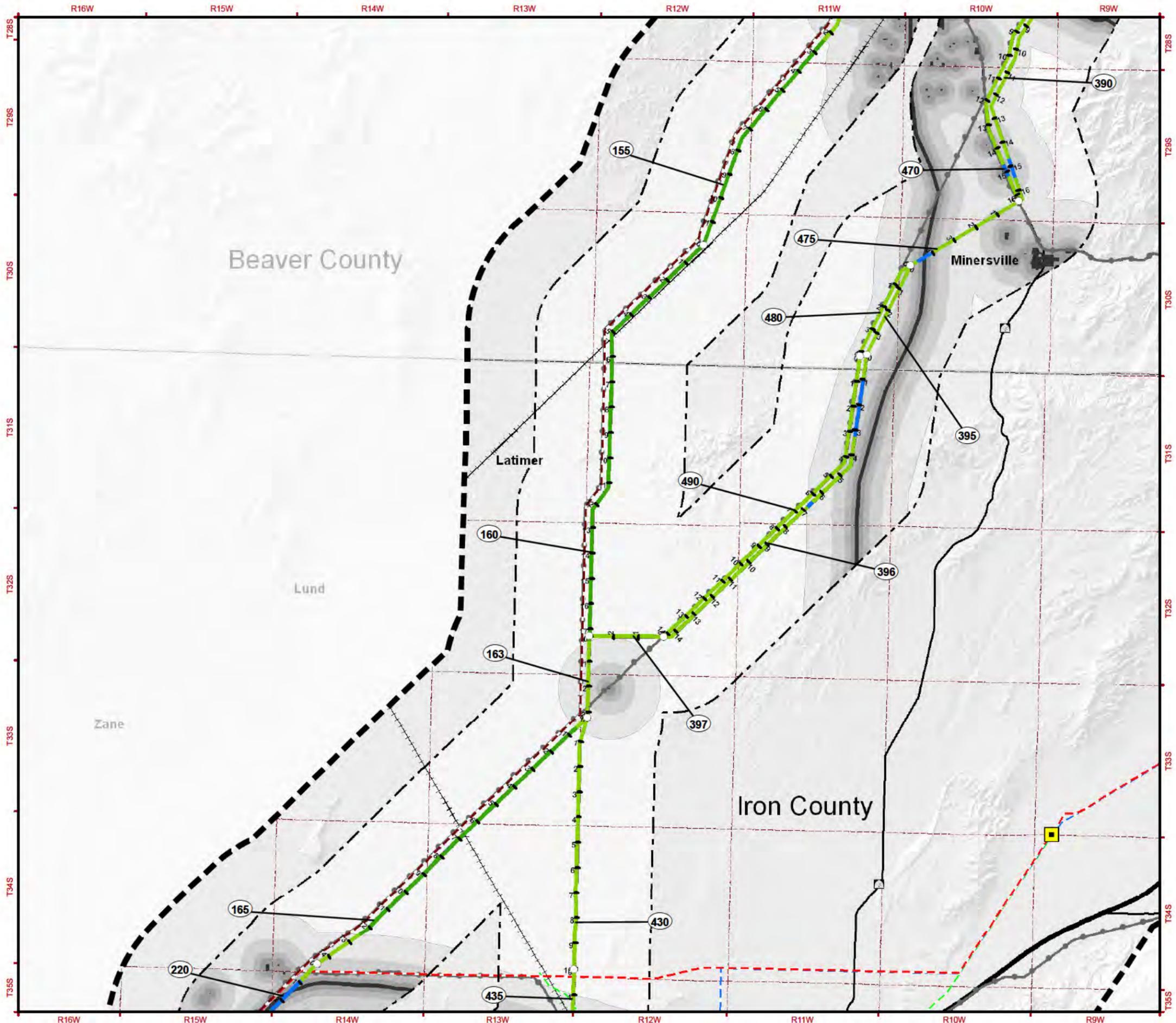
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MAP MV - 12c HIGH SENSITIVITY VIEWERS INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWERS

DISTANCE ZONES

- 0 to 0.25 mile
- 0.25 to 0.5 mile
- 0.5 to 1.0 mile
- 1.0 to 2.0 miles
- Over 2.0 miles

SENSITIVE VIEWERS LOCATIONS

- High

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low

Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

KEY OBSERVATION POINTS

- Simulation and Key Observation Point
- Key Observation Point Only

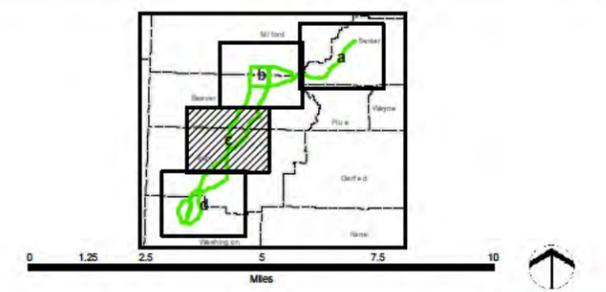
GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
 Impact: EPG, 2010
 Key Observation Points: EPG, 2010
 Sensitive Viewer: EPG, 2010; AGRC, 1998; BLM, 2010

Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV - 12d HIGH SENSITIVITY VIEWERS INVENTORY AND IMPACTS

RESOURCE INVENTORY

SENSITIVE VIEWERS DISTANCE ZONES

- 0 to 0.25 mile
- 0.25 to 0.5 mile
- 0.5 to 1.0 mile
- 1.0 to 2.0 miles
- Over 2.0 miles

SENSITIVE VIEWERS LOCATIONS

- High

KEY OBSERVATION POINTS

- Simulation and Key Observation Point
- Key Observation Point Only

IMPACT LEVELS

- High
- Moderate/High
- Moderate
- Low/Moderate
- Low

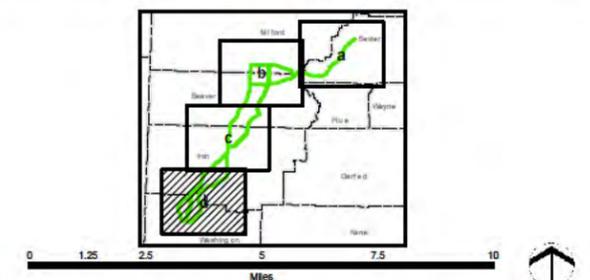
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
Key Observation Points: EPG, 2010
Sensitive Viewer: EPG, 2010; AGRC, 1998; BLM, 2010
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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MAP MV - 13a
VISUAL MANAGEMENT OBJECTIVES
INVENTORY AND CONSISTENCY

RESOURCE INVENTORY

**BLM VISUAL RESOURCE
MANAGEMENT OBJECTIVES (VRM)
OBJECTIVES**

- Class II
- Class III
- Class IV

Note: No VRM Class I land present in Project study area.

**U.S. FOREST SERVICE
SCENIC INTEGRITY
OBJECTIVES (SIO)**

- Very High
- High
- Moderate

Note: Fishlake National Forest SIOs are Draft.

CONSISTENCY

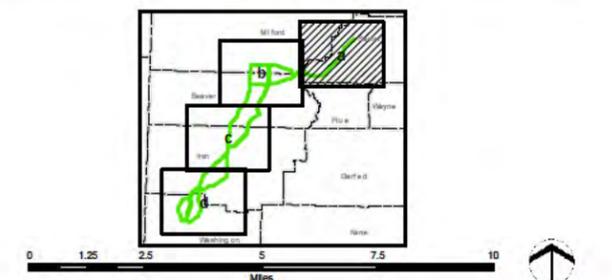
- Consistent
- Not Consistent
- Not Applicable

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- Fishlake National Forest Utility Window
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
VRM: BLM, 2009
SIO: USFS, 2000; USFS, 2007; EPG, 2010
Fishlake National Forest Utility Window: USFS, 2006
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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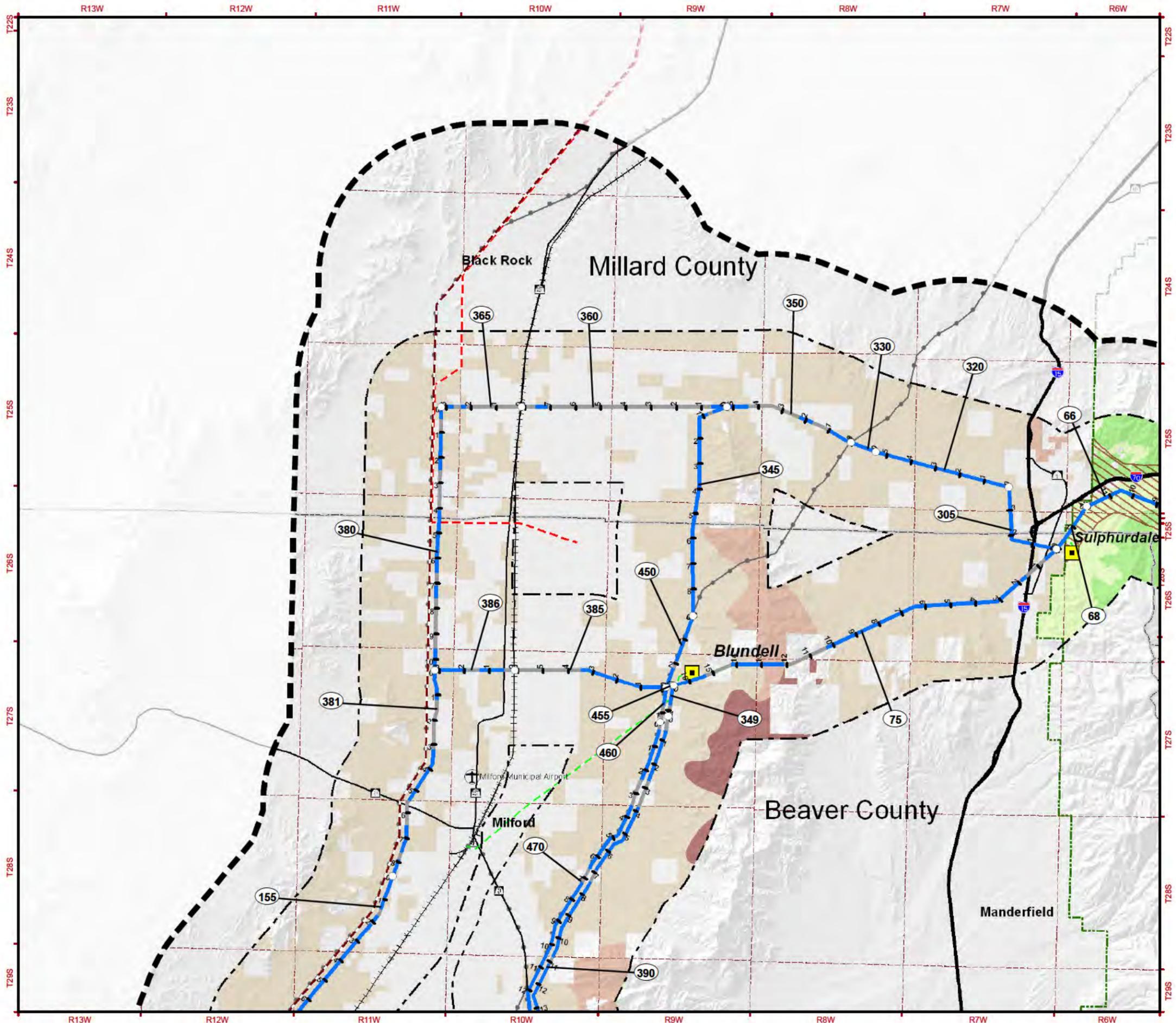


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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT





MAP MV - 13b
VISUAL MANAGEMENT OBJECTIVES
INVENTORY AND CONSISTENCY

- | | |
|--|--------------------|
| RESOURCE INVENTORY | CONSISTENCY |
| BLM VISUAL RESOURCE MANAGEMENT (VRM) OBJECTIVES | Consistent |
| Class II | Not Consistent |
| Class III | Not Applicable |
| Class IV | |

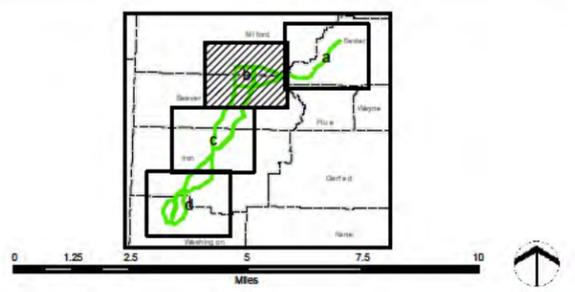
Note: No VRM Class I land present in Project study area.

- U.S. FOREST SERVICE SCENIC INTEGRITY OBJECTIVES (SIO)**
- Very High
 - High
 - Moderate

Note: Fishlake National Forest SIOs are Draft.

- GENERAL REFERENCE FEATURES**
- | | |
|--------------------------------|---|
| Project Area | Fishlake National Forest Utility Window |
| Study Corridor | County Boundary |
| Link Number | U.S. Forest Service Boundary |
| Mile Tick | Township Line |
| Centerline | Interstate Highway |
| Link Node | U.S. Highway |
| Power Plant | Railroad |
| Substation | Airport |
| 500kV +/- DC Transmission Line | |
| 345kV Transmission Line | |
| 230 to 287kV Transmission Line | |
| 138 to 161kV Transmission Line | |
| Pipeline | |

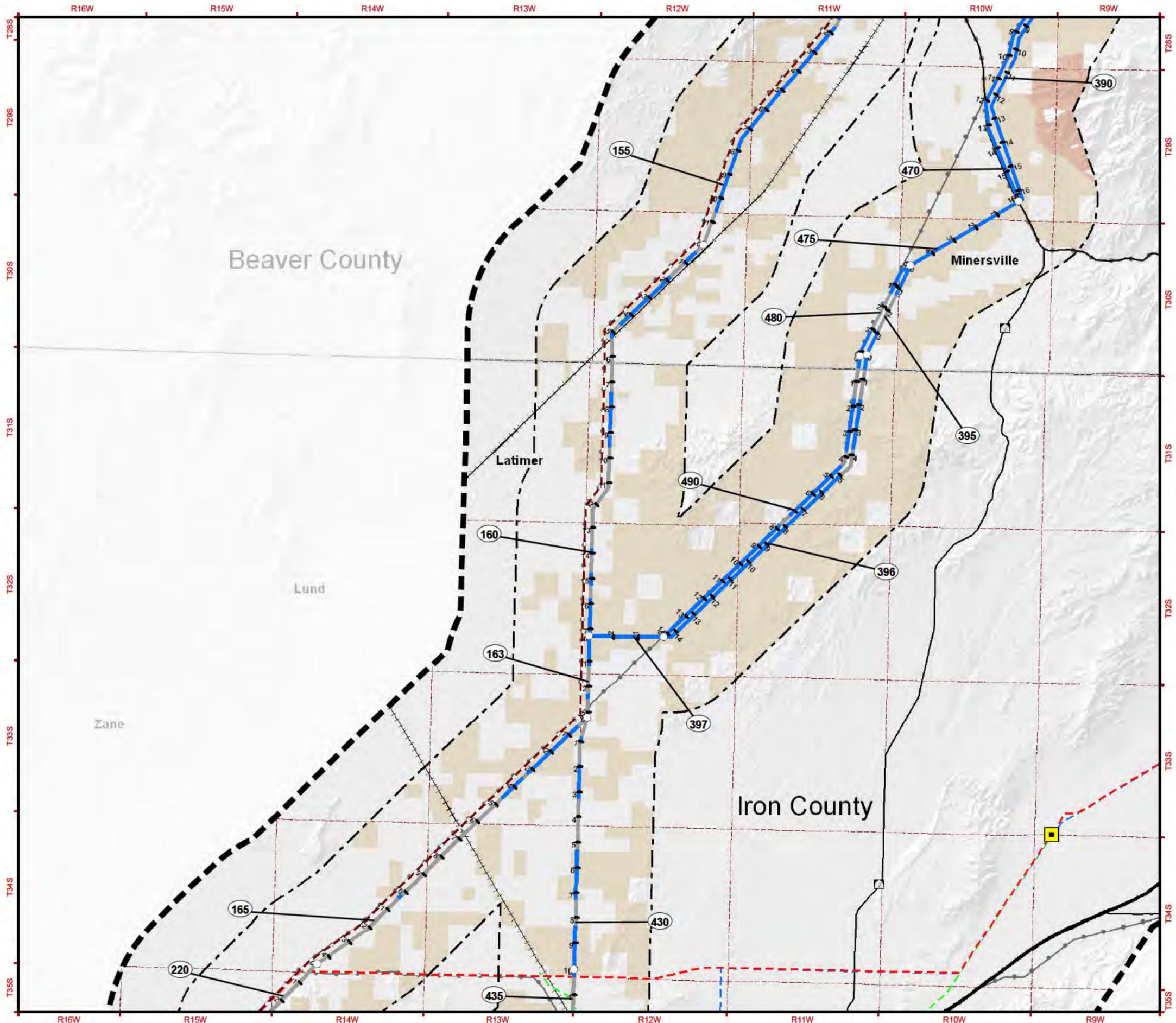
SOURCES:
 Resource Data:
 Impact: EPG, 2010
 VRM: BLM, 2009
 SIO: USFS, 2009; USFS, 2007; EPG, 2010
 Fishlake National Forest Utility Window: USFS, 2006
 Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT





MAP MV - 13c
VISUAL MANAGEMENT OBJECTIVES
INVENTORY AND CONSISTENCY

- RESOURCE INVENTORY**
- BLM VISUAL RESOURCE MANAGEMENT OBJECTIVES (VRM)**
- Class II
 - Class III
 - Class IV
- CONSISTENCY**
- Consistent
 - Not Consistent
 - Not Applicable

Note: No VRM Class I land present in Project study area.

- U.S. FOREST SERVICE SCENIC INTEGRITY OBJECTIVES (SIO)**
- Very High
 - High
 - Moderate

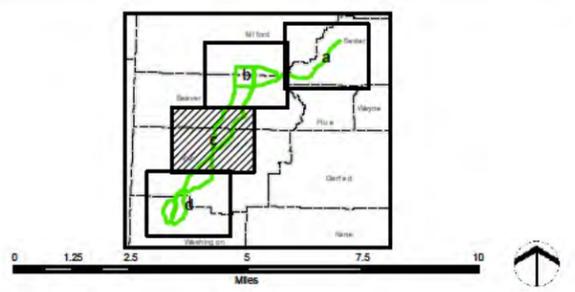
Note: Fishlake National Forest SIOs are Draft.

- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - Fishlake National Forest Utility Window
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport

SOURCES:

Resource Data:
Impact: EPG, 2010
VRM: BLM, 2009
SIO: USFS, 2006; USFS, 2007; EPG, 2010
Fishlake National Forest Utility Window: USFS, 2006

Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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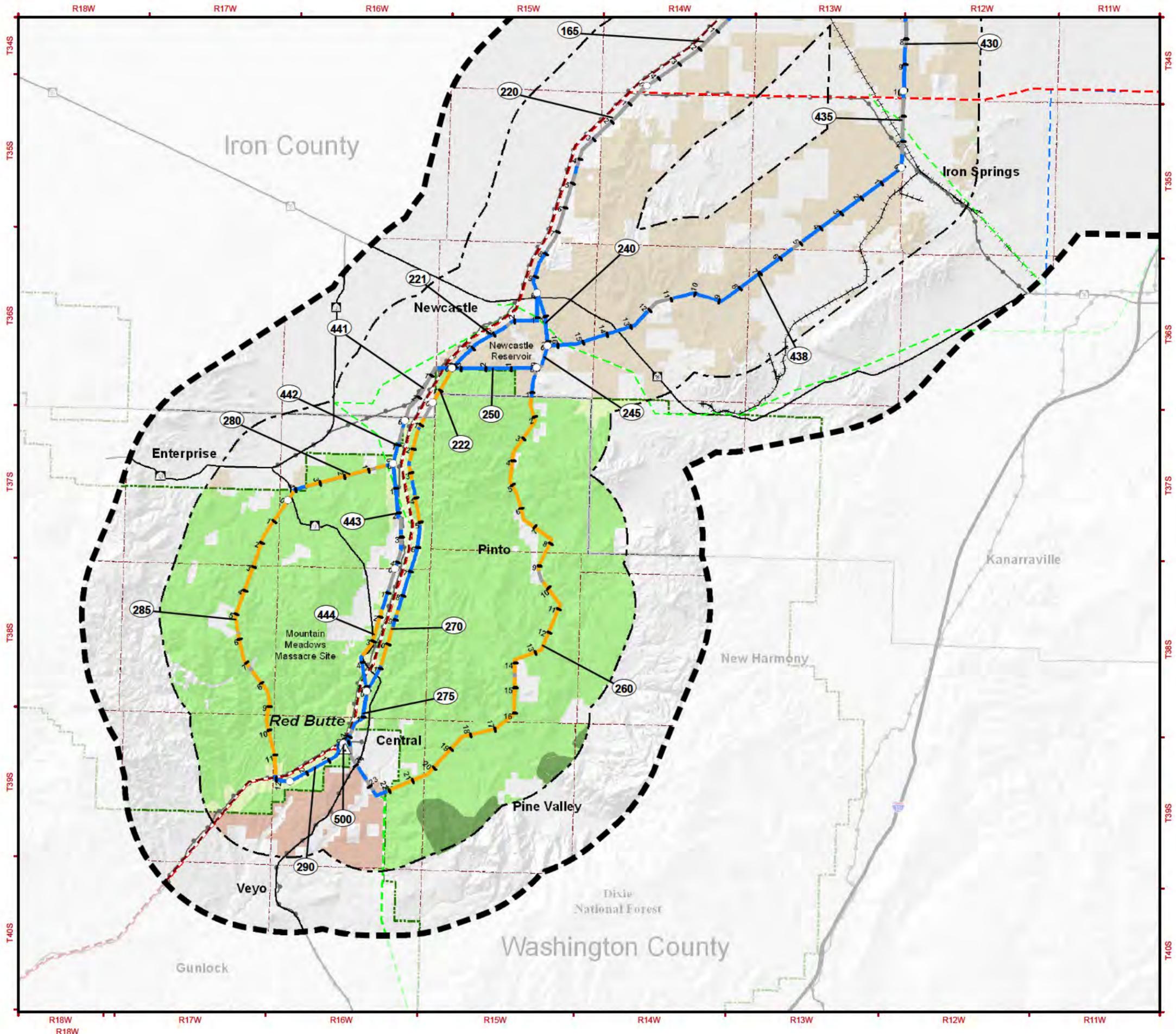


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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



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MAP MV - 13d
VISUAL MANAGEMENT OBJECTIVES
INVENTORY AND CONSISTENCY

- RESOURCE INVENTORY**
- BLM VISUAL RESOURCE MANAGEMENT OBJECTIVES (VRM)**
- Class II
 - Class III
 - Class IV
- CONSISTENCY**
- Consistent
 - Not Consistent
 - Not Applicable

Note: No VRM Class I land present in Project study area.

- U.S. FOREST SERVICE SCENIC INTEGRITY OBJECTIVES (SIO)**
- Very High
 - High
 - Moderate

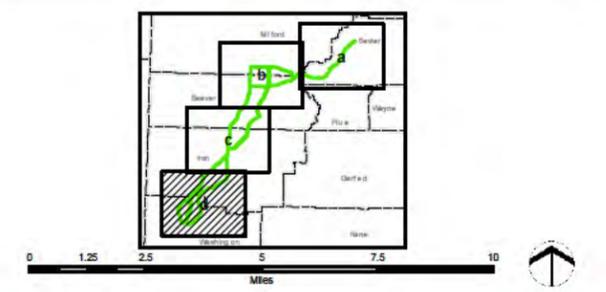
Note: Fishlake National Forest SIOs are Draft.

- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - Fishlake National Forest Utility Window
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport

SOURCES:

Resource Data:
 Impact: EPG, 2010
 VRM: BLM, 2009
 SIO: USFS, 2009; USFS, 2007; EPG, 2010
 Fishlake National Forest Utility Window: USFS, 2006

Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



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Land Use and Recreation Resources

MAP MV - 14a
EXISTING LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

- Agriculture
- Agriculture Protection Area
- Airport/Airstrip
- Airport Conical Zone
- Airport Horizontal Zone
- Commercial
- Communication Facilities
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland (Grazing Allotments)
- Recreation
- Residential
- School/Educational Facility
- Transportation
- Utilities
- Vacant/Undeveloped

SPECIAL MANAGEMENT AREAS

- Wilderness Area
- Inventoried Roadless Area
- Herd Management Area
- Areas of Potential Wilderness (Draft, Forest Service)
- State Wildlife Management Area
- State Park or Recreation Area

UTILITY CORRIDORS

- Millard County Utility Corridor
- WWEC All; Electric-only
- Fishlake NF Utility Window
- Proposed Surface Corridor
- Designated Surface

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

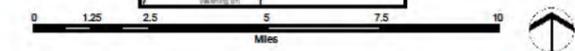
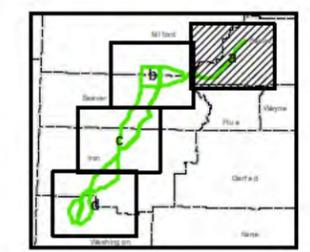
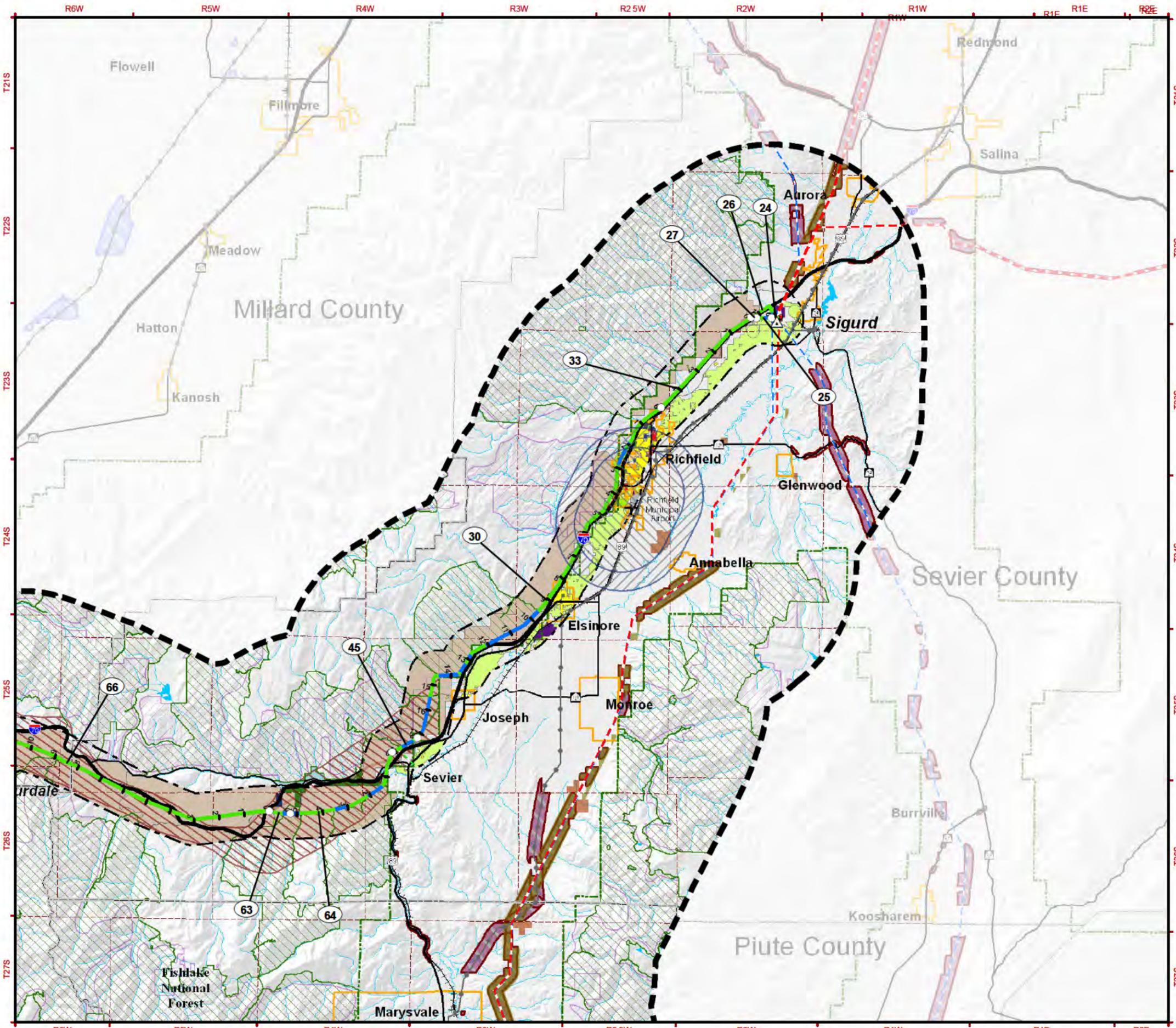
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Existing Land Use: EPG, 2009
Wind Energy Facility: CH2M Hill, 2008
Special Management Areas: EPG, 2009; National Inventoried Roadless Area: USFS, 2000
WWEC Utility Corridor: Argonne National Laboratory, 2008; USFS, 2006; Millard County RMP Utility Corridor: BLM, EPG, 2009
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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345kV TRANSMISSION PROJECT



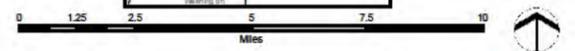
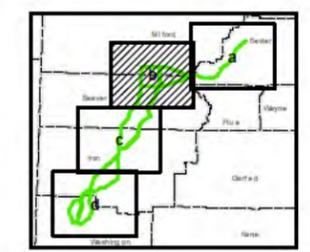
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MAP MV - 14b
EXISTING LAND USE
INVENTORY AND IMPACTS

- RESOURCE INVENTORY**
- EXISTING LAND USE**
- Agriculture
 - Agriculture Protection Area
 - Airport/Airstrip
 - Airport Conical Zone
 - Airport Horizontal Zone
 - Commercial
 - Communication Facilities
 - Industrial
 - Parks/Preservation
 - Public/Quasi-Public
 - Rangeland (Grazing Allotments)
 - Recreation
 - Residential
 - School/Educational Facility
 - Transportation
 - Utilities
 - Vacant/Undeveloped
- SPECIAL MANAGEMENT AREAS**
- Wilderness Area
 - Inventoried Roadless Area
 - Herd Management Area
 - Areas of Potential Wilderness (Draft, Forest Service)
 - State Wildlife Management Area
 - State Park or Recreation Area
- UTILITY CORRIDORS**
- Millard County Utility Corridor
 - WWEC All; Electric-only
 - Fishlake NF Utility Window
 - Proposed Surface Corridor
 - Designated Surface
- IMPACT LEVELS**
- High
 - Moderate
 - Low
 - Not Identifiable

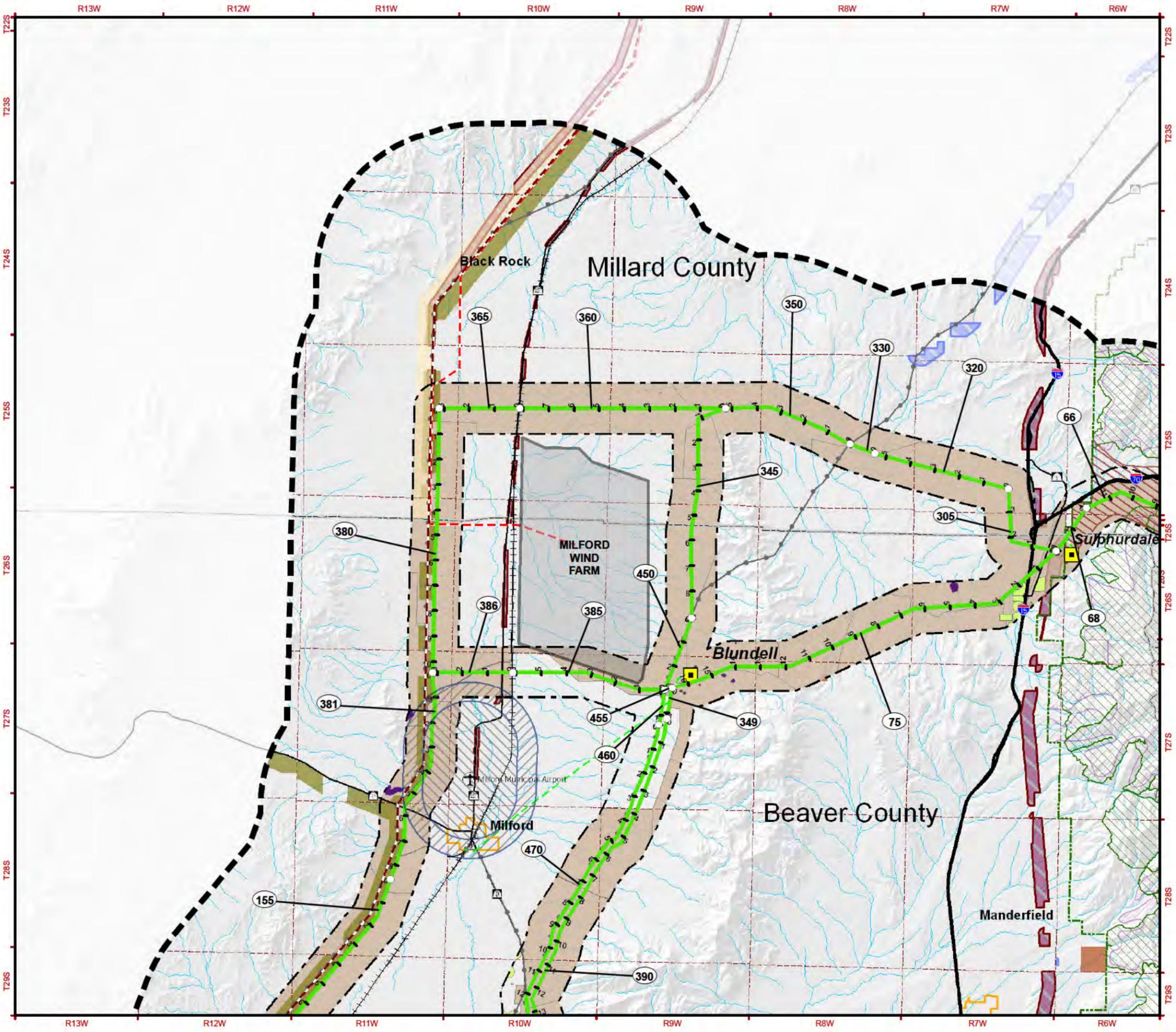
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Municipal Boundary
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport
 - River or Stream
 - Lake or Reservoir
- SOURCES:**
- Resource Data:
Impact: EPG, 2010
Existing Land Use: EPG, 2009
Wind Energy Facility: CH2M Hill, 2008
Special Management Areas: EPG, 2009; National Inventoried Roadless Area: USFS, 2000
WWEC Utility Corridor: Argonne National Laboratory, 2008; USFS, 2006; Millard County RMP Utility Corridor: BLM, EPG, 2009
- Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008; U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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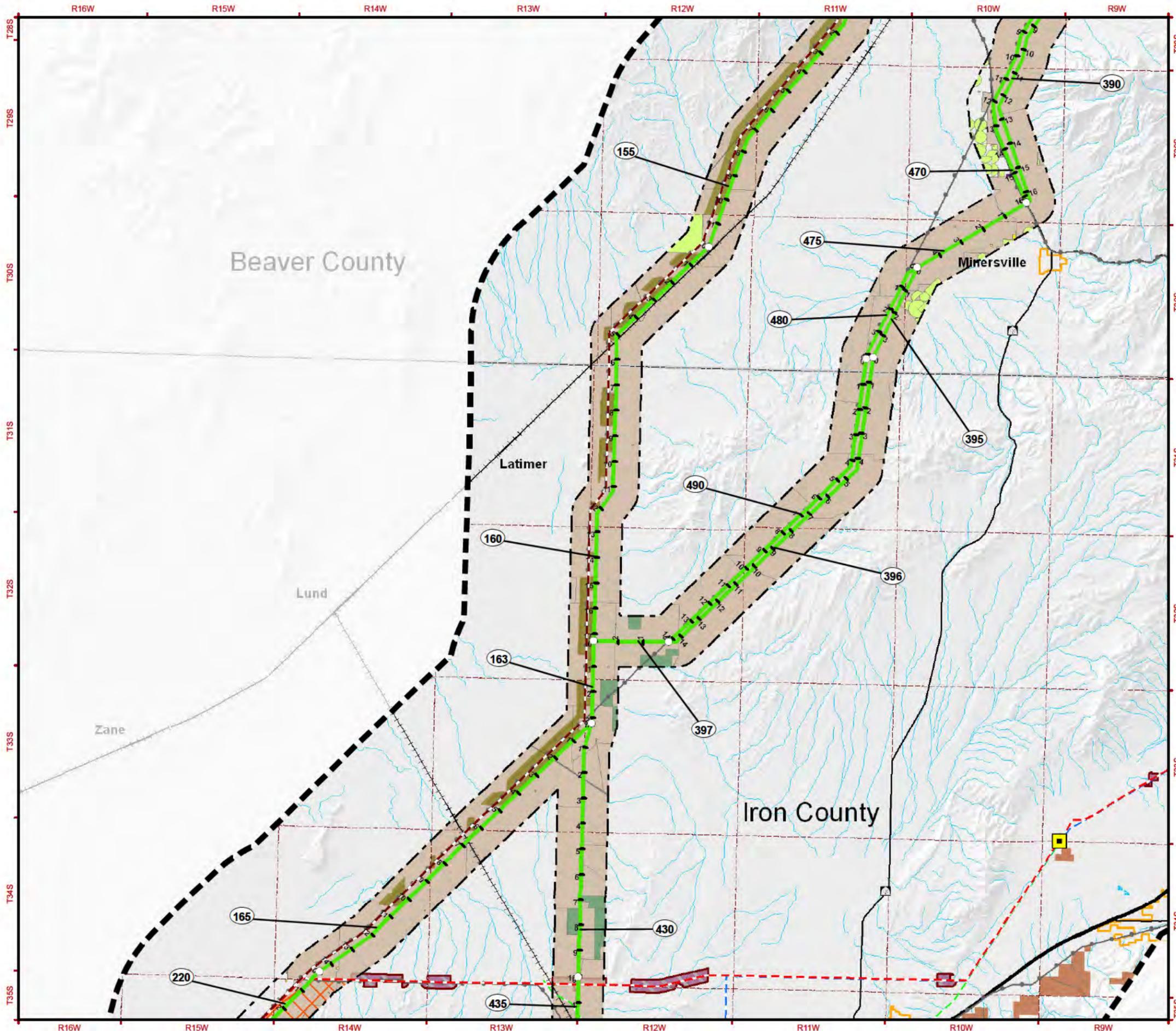


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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT



MAP MV - 14c
EXISTING LAND USE
INVENTORY AND IMPACTS



- RESOURCE INVENTORY**
- EXISTING LAND USE**
- Agriculture
 - Agriculture Protection Area
 - Airport/Airstrip
 - Airport Conical Zone
 - Airport Horizontal Zone
 - Commercial
 - Communication Facilities
 - Industrial
 - Parks/Preservation
 - Public/Quasi-Public
 - Rangeland (Grazing Allotments)
 - Recreation
 - Residential
 - School/Educational Facility
 - Transportation
 - Utilities
 - Vacant/Undeveloped
- SPECIAL MANAGEMENT AREAS**
- Wilderness Area
 - Inventoried Roadless Area
 - Herd Management Area
 - Areas of Potential Wilderness (Draft, Forest Service)
 - State Wildlife Management Area
 - State Park or Recreation Area
- UTILITY CORRIDORS**
- Millard County Utility Corridor
 - WVEC All; Electric-only
 - Fishlake NF Utility Window
 - Proposed Surface Corridor
 - Designated Surface
- IMPACT LEVELS**
- High
 - Moderate
 - Low
 - Not Identifiable

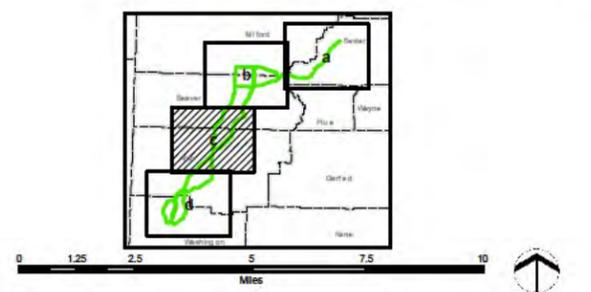
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Municipal Boundary
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport
 - River or Stream
 - Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Existing Land Use: EPG, 2009
Wind Energy Facility: CH2M Hill, 2008
Special Management Areas: EPG, 2009; National Inventoried Roadless Area: USFS, 2000
WVEC Utility Corridor: Argonne National Laboratory, 2008; USFS, 2006; Millard County RMP Utility Corridor: BLM, EPG, 2009

Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



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MAP MV - 14d
EXISTING LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

EXISTING LAND USE

- Agriculture
- Agriculture Protection Area
- Airport/Airstrip
- Airport Conical Zone
- Airport Horizontal Zone
- Commercial
- Communication Facilities
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland (Grazing Allotments)
- Recreation
- Residential
- School/Educational Facility
- Transportation
- Utilities
- Vacant/Undeveloped

SPECIAL MANAGEMENT AREAS

- Wilderness Area
- Inventoried Roadless Area
- Herd Management Area
- Areas of Potential Wilderness (Draft, Forest Service)
- State Wildlife Management Area
- State Park or Recreation Area

UTILITY CORRIDORS

- Millard County Utility Corridor
- WVEC All; Electric-only
- Fishlake NF Utility Window
- Proposed Surface Corridor
- Designated Surface

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

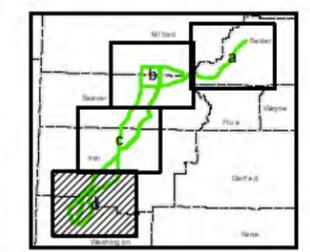
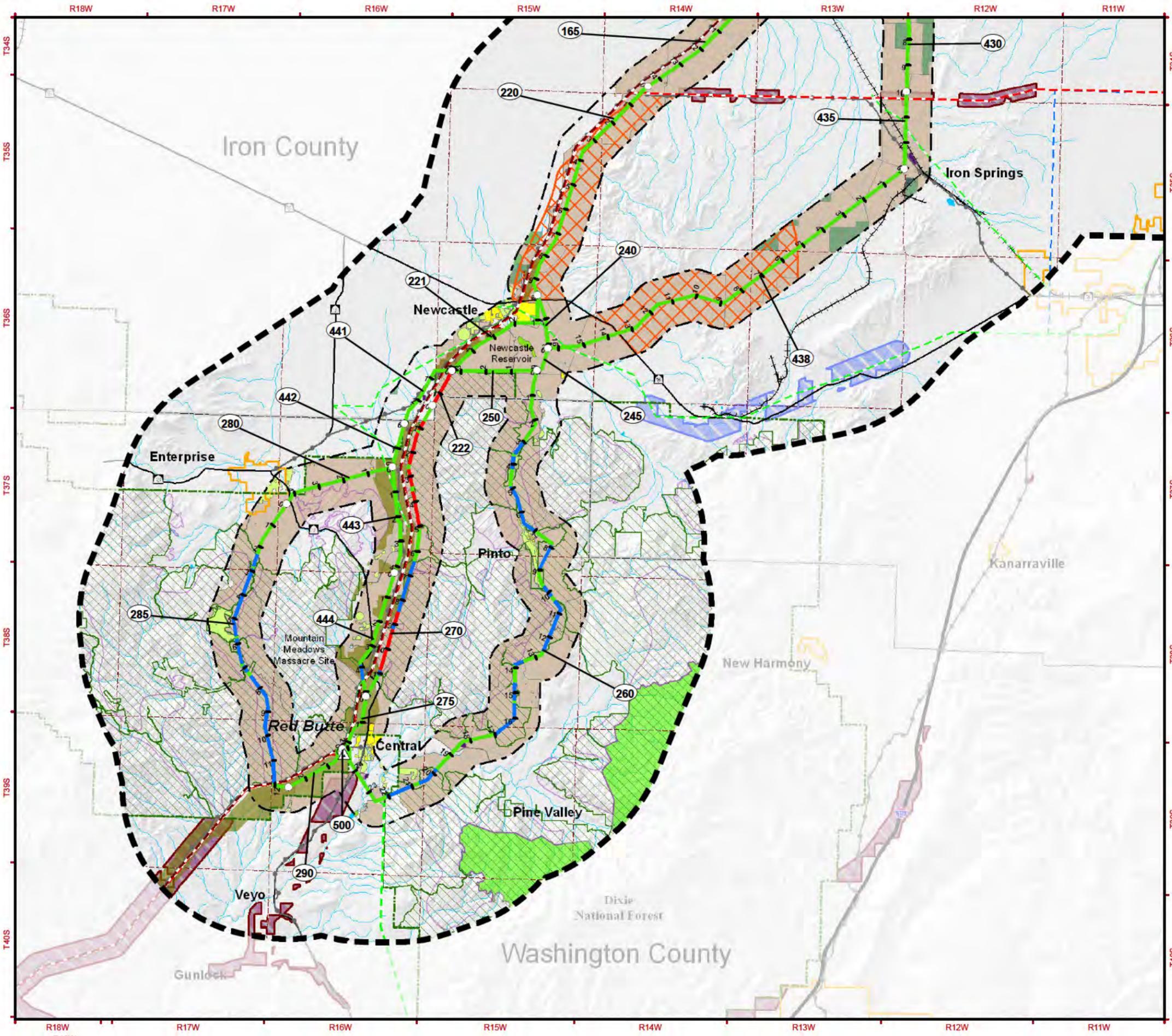
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Existing Land Use: EPG, 2009
Wind Energy Facility: CH2M Hill, 2008
Special Management Areas: EPG, 2009; National Inventoried Roadless Area: USFS, 2000
WVEC Utility Corridor: Argonne National Laboratory, 2008; USFS, 2006; Millard County RMP Utility Corridor: BLM, EPG, 2009
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT



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MAP MV - 15a
FUTURE LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

GENERALIZED ZONING

- Agriculture
- Commercial
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland
- Recreation
- Residential
- Utilities

JURISDICTION

- Bureau of Land Management
- Indian Reservation
- National Park Service
- State of Utah Trust Lands
- State Park
- U.S. Forest Service

PLANNED LAND USE

- Planned Pipeline
- Planned Transmission Line
- Citizen Proposed Wilderness Area
- Geothermal Energy Proposed
- Oil and Gas Lease Area
- Solar Study Area (PEIS)
- Wind Farm Proposed

IMPACT LEVELS

- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

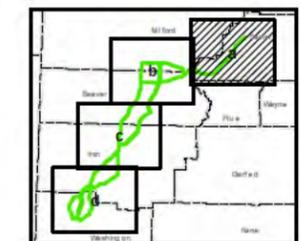
GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Planned Transmission Line: BLM, Comlink Land Services and LLC, 2010
Planned Pipeline: Palladon, 2009; Planned Land Use/Zoning: EPG, 2009; Municipal Boundary: AGRC, 2002
Jurisdiction: BLM, 2009; Special Management Areas: EPG, 2009; Solar Study Areas: BLM, 2009
Citizen Proposed Wilderness Area: Wild Utah Project, 2009
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Geothermal Energy Proposed: EPG, 2009; Wind Farms Proposed: EPG, 2011

Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT



MAP MV - 15b
FUTURE LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

GENERALIZED ZONING

- Agriculture
- Commercial
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland
- Recreation
- Residential
- Utilities

JURISDICTION

- Bureau of Land Management
- Indian Reservation
- National Park Service
- State of Utah Trust Lands
- State Park
- U.S. Forest Service

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

PLANNED LAND USE

- Planned Pipeline
- Planned Transmission Line
- Citizen Proposed Wilderness Area
- Geothermal Energy Proposed
- Oil and Gas Lease Area
- Solar Study Area (PEIS)
- Wind Farm Proposed

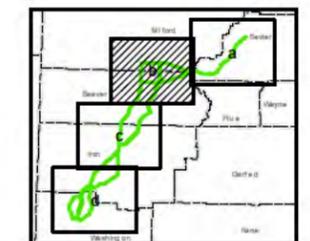
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Planned Transmission Line: BLM, Comlink Land Services and LLC, 2010
Planned Pipeline: Palladon, 2009; Planned Land Use/Zoning: EPG, 2009; Municipal Boundary: AGRC, 2002
Jurisdiction: BLM, 2009; Special Management Areas: EPG, 2009; Solar Study Areas: BLM, 2009
Citizen Proposed Wilderness Area: Wild Utah Project, 2009
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Geothermal Energy Proposed: EPG, 2009; Wind Farms Proposed: EPG, 2011
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345KV TRANSMISSION PROJECT



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MAP MV - 15c
FUTURE LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

GENERALIZED ZONING

- Agriculture
- Commercial
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland
- Recreation
- Residential
- Utilities

JURISDICTION

- Bureau of Land Management
- Indian Reservation
- National Park Service
- State of Utah Trust Lands
- State Park
- U.S. Forest Service

IMPACT LEVELS

- High
- Moderate
- Low
- Not Identifiable

PLANNED LAND USE

- Planned Pipeline
- Planned Transmission Line
- Citizen Proposed Wilderness Area
- Geothermal Energy Proposed
- Oil and Gas Lease Area
- Solar Study Area (PEIS)
- Wind Farm Proposed

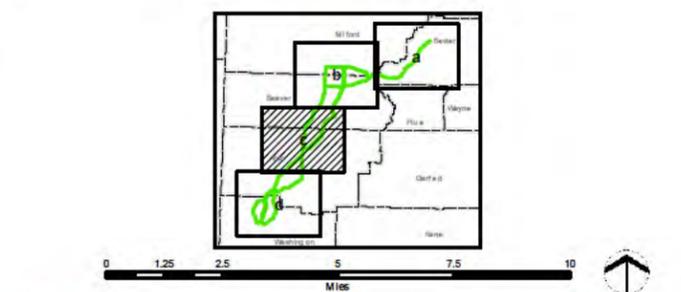
Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Mile Tick
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

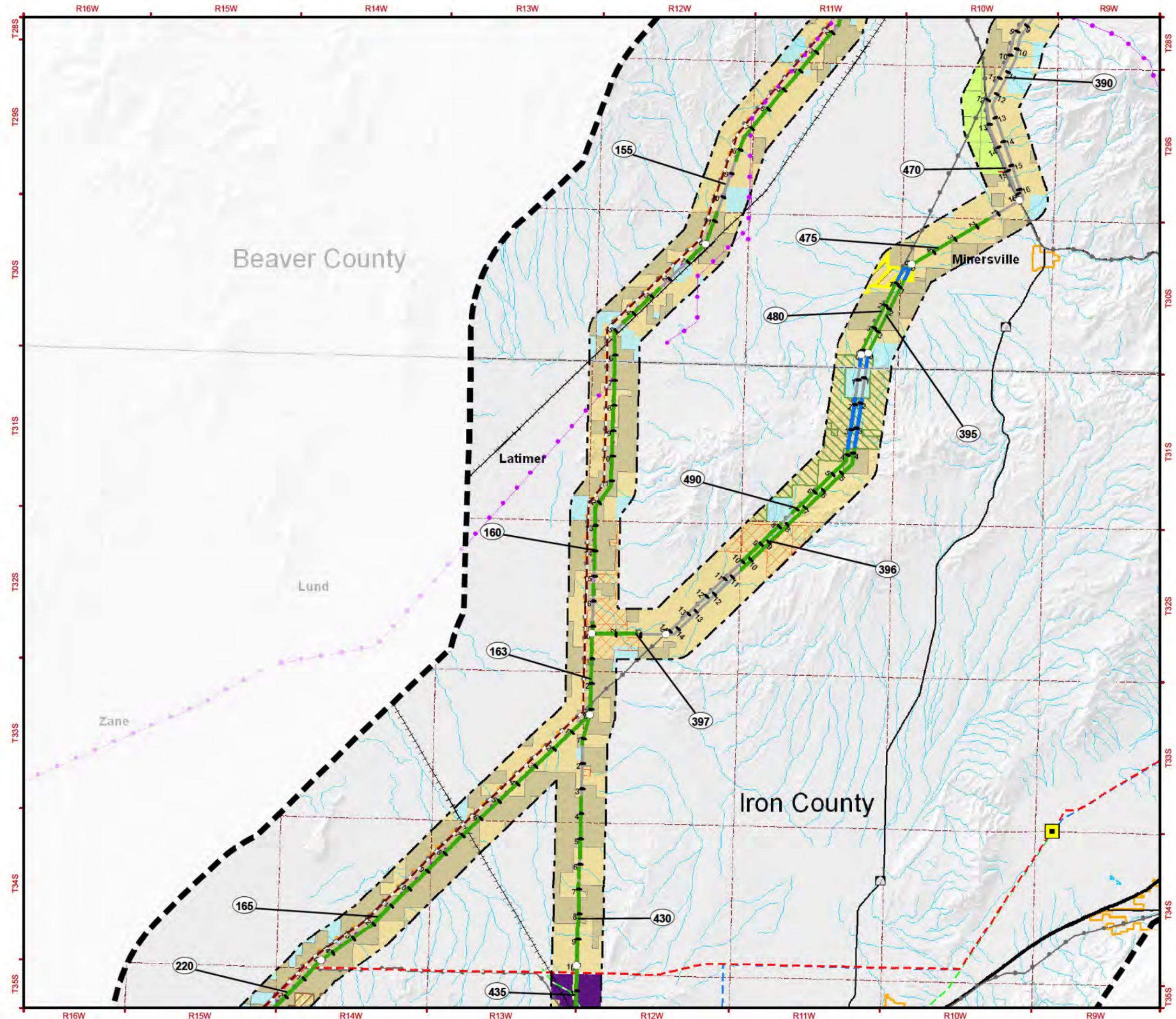
SOURCES:

Resource Data:
Impact: EPG, 2010
Planned Transmission Line: BLM, Comlink Land Services and LLC, 2010
Planned Pipeline: Palladon, 2009; Planned Land Use/Zoning: EPG, 2009; Municipal Boundary: AGRC, 2002
Jurisdiction: BLM, 2009; Special Management Areas: EPG, 2009; Solar Study Areas: BLM, 2009
Citizen Proposed Wilderness Area: Wild Utah Project, 2009
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Geothermal Energy Proposed: EPG, 2009; Wind Farms Proposed: EPG, 2011
Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2
345kV TRANSMISSION PROJECT



MAP MV - 15d
FUTURE LAND USE
INVENTORY AND IMPACTS

RESOURCE INVENTORY

GENERALIZED ZONING

- Agricultural
- Commercial
- Industrial
- Parks/Preservation
- Public/Quasi-Public
- Rangeland
- Recreation
- Residential
- Utilities

JURISDICTION

- Bureau of Land Management
- Indian Reservation
- National Park Service
- State of Utah Trust Lands
- State Park
- U.S. Forest Service

PLANNED LAND USE

- Planned Pipeline
- Planned Transmission Line
- Citizen Proposed Wilderness Area
- Geothermal Energy Proposed
- Oil and Gas Lease Area
- Solar Study Area (PEIS)
- Wind Farm Proposed

IMPACT LEVELS

- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

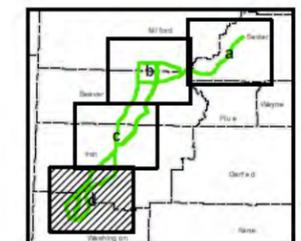
GENERAL REFERENCE FEATURES

- Project Area
- Study Corridor
- Link Number
- Centerline
- Link Node
- Power Plant
- Substation
- 500kV +/- DC Transmission Line
- 345kV Transmission Line
- 230 to 287kV Transmission Line
- 138 to 161kV Transmission Line
- Pipeline
- County Boundary
- U.S. Forest Service Boundary
- Township Line
- Municipal Boundary
- Interstate Highway
- U.S. Highway
- State Highway
- Railroad
- Airport
- River or Stream
- Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Planned Transmission Line: BLM, Comlink Land Services and LLC, 2010
Planned Pipeline: Palladon, 2009; Planned Land Use/Zoning: EPG, 2009; Municipal Boundary: AGRC, 2002
Jurisdiction: BLM, 2009; Special Management Areas: EPG, 2009; Solar Study Areas: BLM, 2009
Citizen Proposed Wilderness Area: Wild Utah Project, 2009
Geothermal Leases (Sulphurdale): Fishlake National Forest, 2010; Oil and Gas Leases: BLM, 2010
Geothermal Energy Proposed: EPG, 2009; Wind Farms Proposed: EPG, 2011

Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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345KV TRANSMISSION PROJECT



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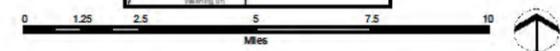
MAP MV - 16a RECREATION RESOURCES INVENTORY AND IMPACTS

- RESOURCE INVENTORY**
- EXISTING LAND USE**
- Parks/Preservation
- SPECIAL MANAGEMENT AREAS**
- State Park or Recreation Area
- RECREATION OPPORTUNITY SPECTRUM**
- Semi-Primitive Non-Motorized
 - Semi-Primitive Motorized
 - Roaded Natural
- RECREATION TRAILS**
- Trails
- SCENIC BYWAYS & BACKWAYS**
- Scenic Backway

- IMPACT LEVELS**
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

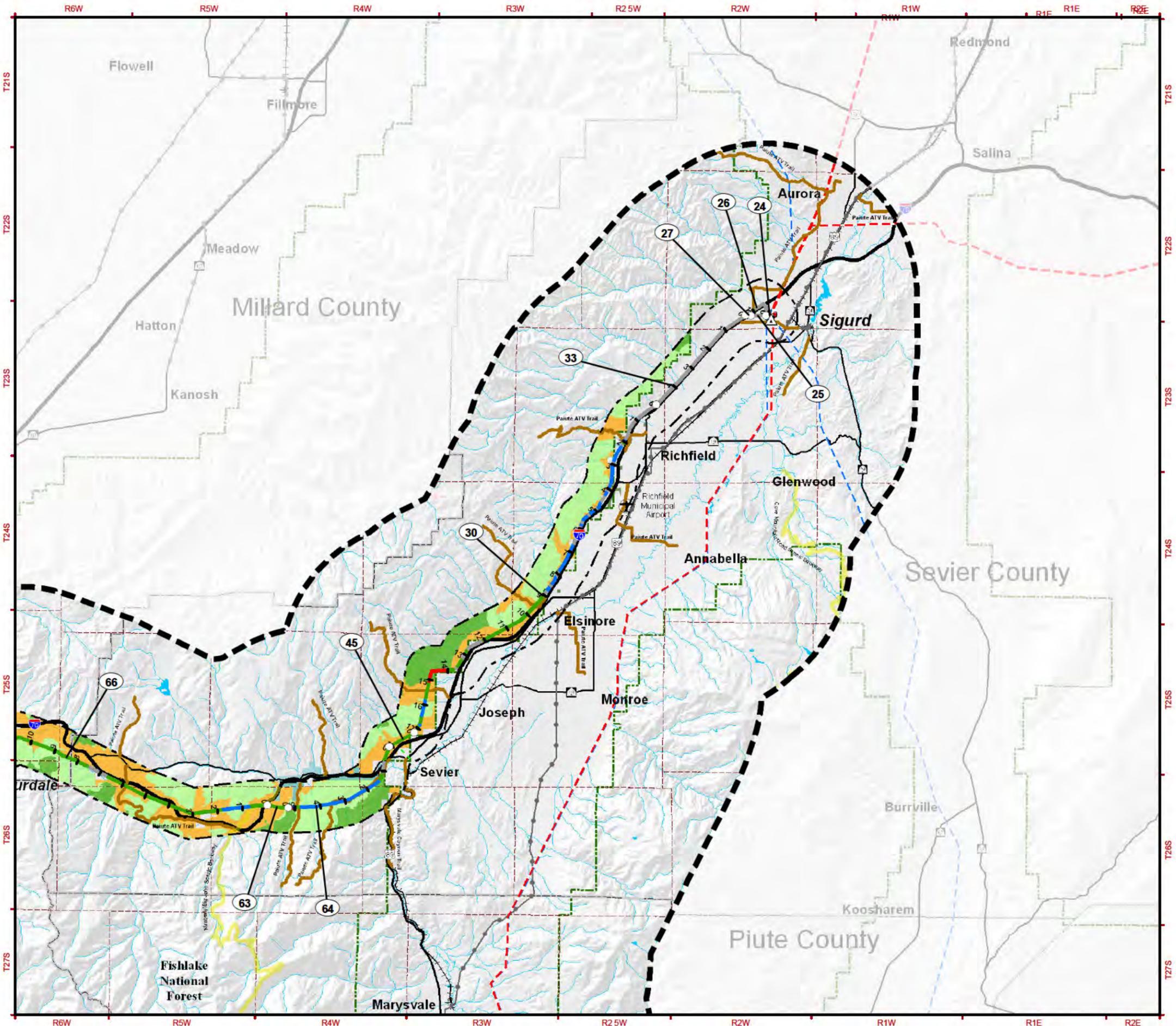
- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport
 - River or Stream
 - Lake or Reservoir

SOURCES:
 Resource Data:
 Impact: EPG, 2010
 Recreation Trail: EPG, 2010
 Scenic Byway: ESRI, 2008
 Existing Land Use: EPG, 2010
 Recreation Opportunity Spectrum: USFS, 2006
 Special Management Areas: EPG, 2009
 National Inventoried Roadless Area: USFS, 2000
Base Data:
 Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
 U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
 Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
 Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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SIGURD TO RED BUTTE NO. 2 345KV TRANSMISSION PROJECT



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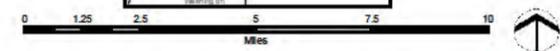
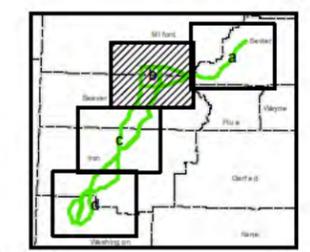
MAP MV - 16b
RECREATION RESOURCES
INVENTORY AND IMPACTS

- RESOURCE INVENTORY**
- EXISTING LAND USE**
- Parks/Preservation
- SPECIAL MANAGEMENT AREAS**
- State Park or Recreation Area
- RECREATION OPPORTUNITY SPECTRUM**
- Semi-Primitive Non-Motorized
 - Semi-Primitive Motorized
 - Roaded Natural
- RECREATION TRAILS**
- Trails
- SCENIC BYWAYS & BACKWAYS**
- Scenic Backway
- IMPACT LEVELS**
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport
 - River or Stream
 - Lake or Reservoir

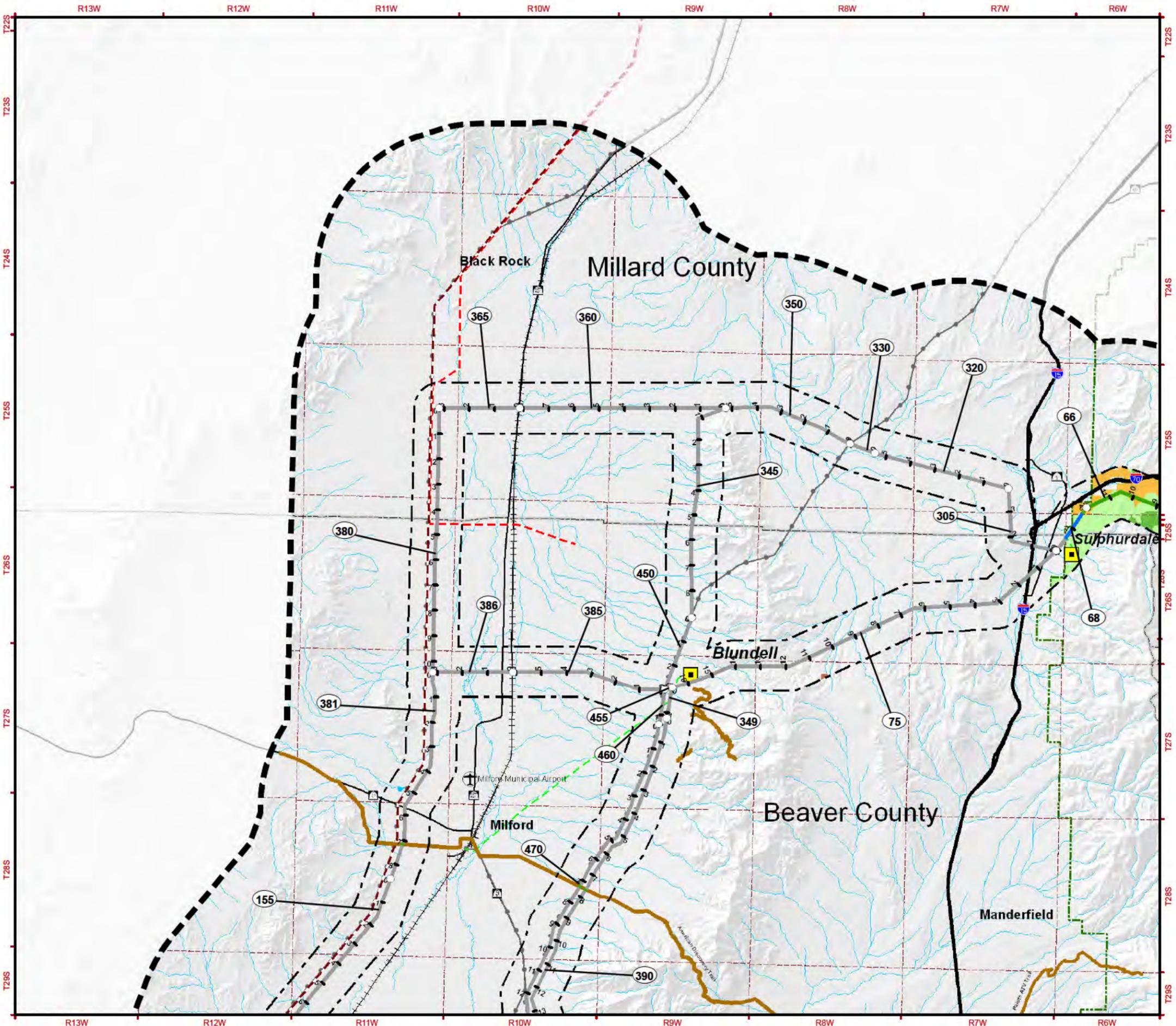
SOURCES:
Resource Data: Impact: EPG, 2010
Recreation Trail: EPG, 2010
Scenic Byway: ESRI, 2008
Existing Land Use: EPG, 2010
Recreation Opportunity Spectrum: USFS, 2006
Special Management Areas: EPG, 2009
National Inventoried Roadless Area: USFS, 2000

Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1990; POWERmap, powermap.platts.com
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345KV TRANSMISSION PROJECT



MAP MV - 16c
RECREATION RESOURCES
INVENTORY AND IMPACTS

- RESOURCE INVENTORY**
- EXISTING LAND USE**
- Parks/Preservation
- SPECIAL MANAGEMENT AREAS**
- State Park or Recreation Area
- RECREATION OPPORTUNITY SPECTRUM**
- Semi-Primitive Non-Motorized
 - Semi-Primitive Motorized
 - Roaded Natural
- RECREATION TRAILS**
- Trails
- SCENIC BYWAYS & BACKWAYS**
- Scenic Backway
- IMPACT LEVELS**
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

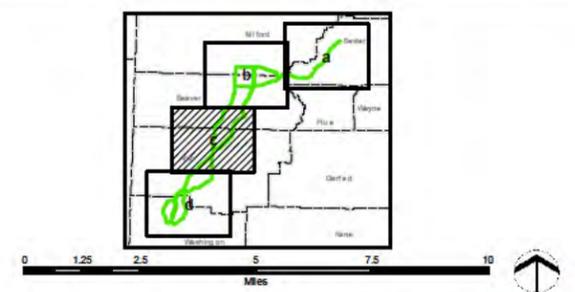
- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
 - Link Node
 - Power Plant
 - Substation
 - 500kV +/- DC Transmission Line
 - 345kV Transmission Line
 - 230 to 287kV Transmission Line
 - 138 to 161kV Transmission Line
 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Interstate Highway
 - U.S. Highway
 - State Highway
 - Railroad
 - Airport
 - River or Stream
 - Lake or Reservoir

SOURCES:

Resource Data:
Impact: EPG, 2010
Recreation Trail: EPG, 2010
Scenic Byway: ESRI, 2008

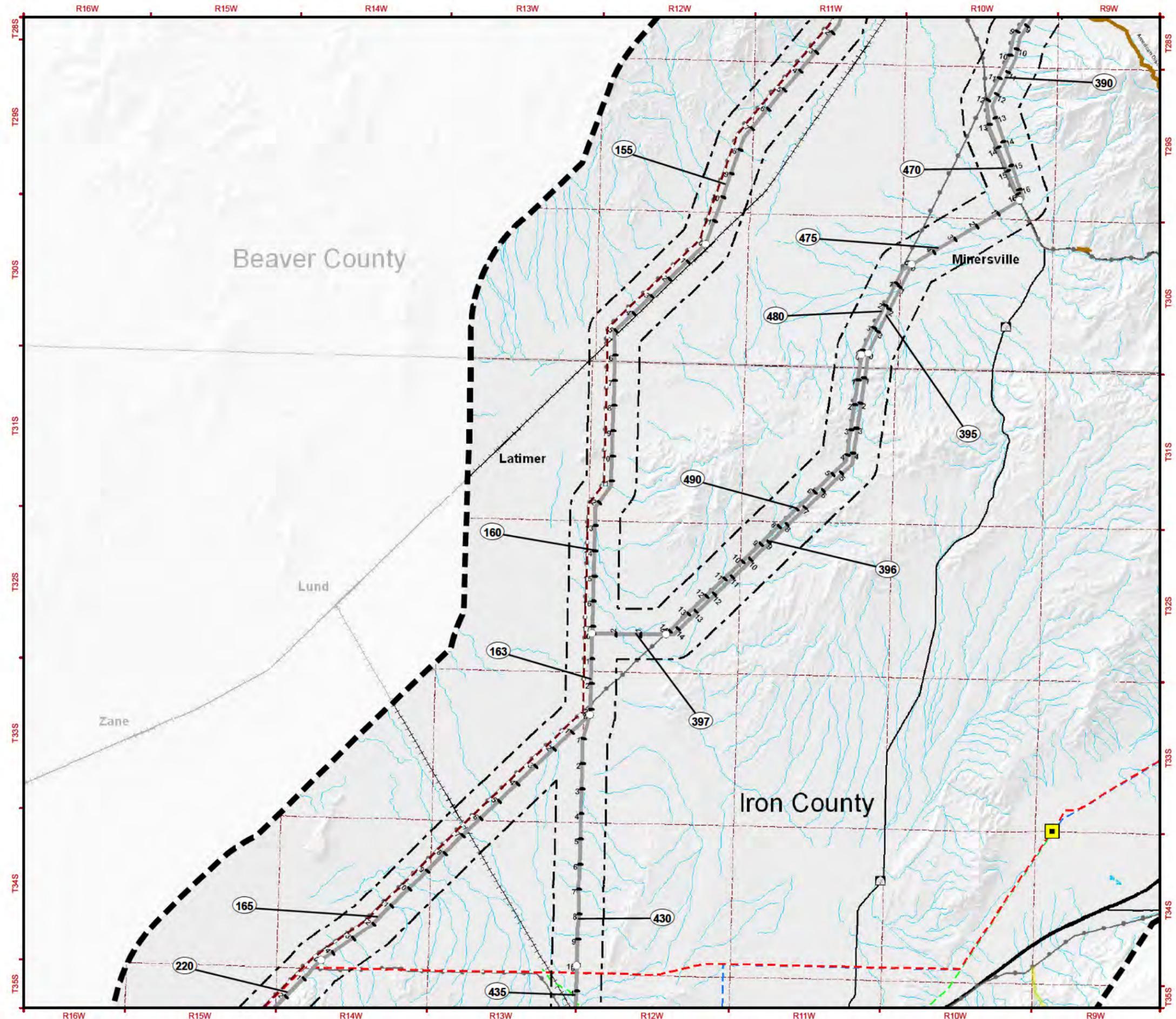
Existing Land Use: EPG, 2010
Recreation Opportunity Spectrum: USFS, 2006
Special Management Areas: EPG, 2009
National Inventoried Roadless Area: USFS, 2000

Base Data:
Transmission Line: EPG, 2009; Roads, County Boundary: ESRI, 2008
U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
Railroad: FRA, 2008; Airport: RITA/BTS, 2008; PLSS: BLM, 2006; Water, River, Stream: USGS, 2008
Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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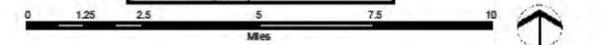
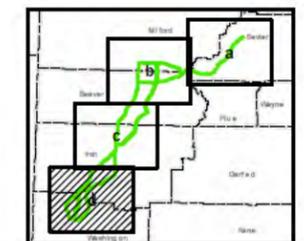
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MAP MV - 16d
RECREATION RESOURCES
INVENTORY AND IMPACTS

- RESOURCE INVENTORY**
- EXISTING LAND USE**
- Parks/Preservation
- SPECIAL MANAGEMENT AREAS**
- State Park or Recreation Area
- RECREATION OPPORTUNITY SPECTRUM**
- Semi-Primitive Non-Motorized
 - Semi-Primitive Motorized
 - Roaded Natural
- RECREATION TRAILS**
- Trails
- SCENIC BYWAYS & BACKWAYS**
- Scenic Backway
- IMPACT LEVELS**
- High
 - Moderate
 - Low
 - Not Identifiable
- Note: Impact levels shown represent impacts remaining (residual) after the application of mitigation measures.

- GENERAL REFERENCE FEATURES**
- Project Area
 - Study Corridor
 - Link Number
 - Mile Tick
 - Centerline
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 - 500kV +/- DC Transmission Line
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 - Pipeline
 - County Boundary
 - U.S. Forest Service Boundary
 - Township Line
 - Interstate Highway
 - U.S. Highway
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 - Airport
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Resource Data:
Impact: EPG, 2010
Recreation Trail: EPG, 2010
Scenic Byway: ESRI, 2008
Existing Land Use: EPG, 2010
Recreation Opportunity Spectrum: USFS, 2006
Special Management Areas: EPG, 2009
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Base Data:
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U.S. Forest Service: USFS, 2006; Transportation: NTAD2008, U.S. Department of Transportation
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Hillshade: USGS, 1999; POWERmap, powermap.platts.com
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