

## **Resource Report 8**

### **Land Use, Recreation, and Aesthetics**



**Resource Report No. 8**

**Land Use, Recreation, and Aesthetics**

**Central Mainline Corridor Expansion Project**

**FERC Docket No. CP26-\_\_-000**

**Volume I - Public**

**April 2026**

**RESOURCE REPORT NO. 8 – LAND USE, RECREATION, AND AESTHETICS  
SUMMARY OF FILING INFORMATION**

MINIMUM REQUIREMENT	LOCATION ADDRESSED
<p>Classify and quantify land use affected by: (§ 380.12(j)(1))</p> <ul style="list-style-type: none"> <li>• Pipeline construction and permanent rights-of-way (§ 380.12(j)(1));</li> <li>• Extra work/staging areas (§ 380.12(j)(1));</li> <li>• Access roads (§ 380.12(j)(1));</li> <li>• Pipe and contractor yards (§ 380.12(j)(1)); and</li> <li>• Aboveground facilities (§ 380.12(j)(1)).</li> </ul> <p>For aboveground facilities provide the acreage affected by construction and operation, acreage leased or purchased, and describe the use of the land not required for operation.</p>	<p>Section 8.1 and Tables 8.1-2, 8.1-6, Appendices 8A to 8D</p>
<p>Identify by milepost all locations where the pipeline right-of-way would at least partially coincide with existing right-of-way, where it would be adjacent to existing rights-of-way, and where it would be outside of existing right-of-way. (§ 380.12(j)(1))</p> <ul style="list-style-type: none"> <li>• This may apply to the offshore as well.</li> </ul>	<p>Section 8.1, tables 8.1-3 and 8.1-7</p>
<p>Provide detailed typical construction right-of-way cross-section diagrams showing information such as widths and relative locations of existing rights-of-way, new permanent right-of-way and temporary construction right-of-way. (§ 380.12(j)(1))</p>	<p>Figures 1-17 and 1-18, Resource Report 1</p>
<p>Summarize the total acreage of land affected by construction and operation of the project. (§ 380.12(j)(1))</p> <ul style="list-style-type: none"> <li>• This applies to the offshore as well.</li> </ul>	<p>Section 8.1 and Tables 8.1-2 and 8.1-6</p>
<p>Identify by milepost all planned residential or commercial/business development and the time frame for construction. (§ 380.12(j)(3))</p> <ul style="list-style-type: none"> <li>• Identify all planned development crossed or within 0.25 mile of proposed facilities.</li> </ul>	<p>Section 8.2</p>
<p>Identify by milepost special land uses (e.g., maple sugar stands, specialty crops, natural areas, national and state forests, conservation land, etc.). (§ 380.12(j)(4))</p> <ul style="list-style-type: none"> <li>• This applies to the offshore as well, where it may include oyster and other shellfish beds, special anchoring or lightering areas, and shipping lanes.</li> </ul>	<p>Section 8.3</p>
<p>Identify by beginning milepost and length of crossing all land administered by Federal, state, or local agencies, or private conservation organizations. (§ 380.12(j)(4))</p> <ul style="list-style-type: none"> <li>• This applies to the offshore as well.</li> </ul>	<p>Section 8.3</p>
<p>Identify by milepost all natural, recreational, or scenic areas and all registered natural landmarks crossed by the project. (§ 380.12(j) (4)&amp;(6))</p> <ul style="list-style-type: none"> <li>• This applies to the offshore as well.</li> <li>• Identify areas within 0.25 mile of any proposed facility.</li> </ul>	<p>Not applicable</p>
<p>Identify all facilities that would be within designated coastal zone management areas. Provide a consistency determination or evidence that a request for a consistency determination has been filed with the appropriate state agency. (§ 380.12(j)(4) and (7))</p>	<p>Not applicable</p>
<p>Identify by milepost all residences and buildings that would be within 50 feet of the construction right-of-way or extra work area. (§ 380.12(j)(5))</p>	<p>Section 8.2 and Table 8.2-1</p>
<p>Identify all designated or proposed candidate National or State Wild and Scenic Rivers crossed by the project. (§ 380.12(j)(6))</p>	<p>Section 8.3.1</p>
<p>Describe any measures to visually screen aboveground facilities, such as compressor stations. (§ 380.12(j)(11))</p>	<p>Not applicable</p>
<p>Demonstrate that applications for rights-of-way or other proposed land use have been or soon will be filed with Federal land-managing agencies with jurisdiction over land that would be affected by the project. (§ 380.12(j)(12))</p>	<p>Not applicable</p>

<b>ADDITIONAL INFORMATION</b>	
Identify all buildings within 50 feet of the construction right-of-way or extra work areas.	Section 8.2 and Table 8.2-1
Describe the management and use of all public lands that would be crossed.	Sections 8.3 and 8.5
Provide a list of landowners by milepost or tract number that corresponds to information on alignment sheets.	Appendix 1C, Resource Report 1 “CUI//PRIV – DO NOT RELEASE”
Provide a site-specific construction plan for residences within 25 feet of construction or as requested by Federal Energy Regulatory Commission staff.	Not applicable

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## Abbreviations and Acronyms

EPA	U.S. Environmental Protection Agency
ETWS	extra temporary workspace
FERC	Federal Energy Regulatory Commission
HDD	horizontal directional drill
ISO	International Organization for Standardization
MAOP	Maximum allowable operating pressure
MP	milepost
Northern	Northern Natural Gas
NPPD	Nebraska Public Power District
NRCS	Natural Resources Conservation Service
PAR	permanent access road
Plan	FERC’s Upland Erosion Control, Revegetation, and Maintenance Plan
Procedures	FERC’s Wetland and Waterbody Construction and Mitigation Procedures
Project	Central Mainline Corridor Expansion Project
ROW	right of way
SHPO	State Historic Preservation Office
SPCC Plan	Spill Prevention, Control, and Countermeasure Plan
SWPPP	Stormwater Pollution Prevention Plan
TAR	temporary access road
TBS	town border station
TWS	temporary workspace
WMA	Wildlife Management Area
USDA-AMS	U.S. Department of Agriculture, Agricultural Marketing Service
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey

## 8.0 RESOURCE REPORT 8 – LAND USE, RECREATION, AND AESTHETICS

Resource Report 8 describes the potential Project construction and operation impacts on existing and proposed land uses, as well as recreational and visual resources in the surrounding area. It summarizes the results of consultation with federal, state, municipal and other local agencies, as appropriate. Resource Report 8 also discusses special construction techniques or other forms of mitigation that will be used to reduce impacts on land use, recreation and aesthetic resources during construction and operation of the proposed Project.

Northern owns and operates a natural gas transmission pipeline system and associated aboveground facilities, including pipelines and facilities in Iowa and Nebraska. Northern is proposing to construct the Project, which will consist of (1) install 9.03 miles of 20-inch-diameter Omaha 3rd branch line loop, (2) install 14.64 miles of 30-inch-diameter Nebraska Public Power District Princeton Road power station branch line, (3) install 2.48 miles extension of the 20-inch-diameter Des Moines C-line, (4) uprate of the 20-inch-diameter Des Moines C-line south loop, (5) install new compressor station near Clarion, Iowa, (6) modify five compressor stations in Iowa and Nebraska allowing bidirectional flow, (7) install Nebraska Public Power District Princeton Road power station meter station, (8) install aboveground facilities including a launcher, receiver, tie-in valve settings and uprate ancillary equipment. All Project components are located in various counties in Nebraska and Iowa.

Table 8.0-1 provides a list of Project components along with their associated counties Iowa or Nebraska counties.

**Table 8.0-1 Project Facilities and Locations**

Component	Project Facility	Facility Description	County, State
Omaha 3rd branch line loop	9.03-mile pipeline	20-inch-diameter loop	Cass and Sarpy, NE
	Palmyra compressor station	Temporary compression site	Otoe, NE
NPPD Princeton Road power station branch line	14.64-mile pipeline	30-inch-diameter branch line	Gage and Lancaster, NE
	Beatrice to Palmyra D-line and Beatrice to Palmyra E-line Block Valve 5 Setting	Temporary compression site	Lancaster, NE
Des Moines C-line branch line extension	2.48-mile pipeline	20-inch-diameter extension	Dallas, IA
	Ogden compressor station	Temporary compression site	Boone, IA
Des Moines C-line south loop uprate	Royal Estates reducing station	Disconnect existing MAOP control valve	Polk, IA
	Grimes Iowa TBS	New MAOP regulator	Polk, IA
	Des Moines A-line launcher	New control valve	Polk, IA
Clarion compressor station	Proposed compressor station	ISO-rated 20,500-HP	Wright, IA
Beatrice compressor station	Facility modification	New scrubber install	Gage, NE
Guthrie Center compressor station	Facility modification	New piping and valves	Guthrie, IA
Oakland compressor station	Facility modification	New piping and valves	Pottawattamie, IA
Ogden compressor station	Facility modification	New piping and valves	Boone, IA
Palmyra compressor station	Facility modification	New piping, valves and regulation	Otoe, NE

## 8.1 LAND USE

Land uses are characterized into seven classifications based on vegetative cover or predominant land use within the Project areas: agricultural, forest/woodland, wetlands, open land, residential, industrial/commercial and open water. Land use classifications were assigned using field observations made in 2025 and interpretation of 2023 aerial imagery. Land use categories are defined below.

- Agricultural – active farmed cropland and specialty crop production
- Forested/woodland – upland mixed hardwood forests, mixed evergreen and hardwood forests
- Wetlands – emergent wetlands and scrub-shrub wetlands
- Open land – upland land including non-forested rangeland, scrub-shrub land, non-agricultural fields, prairie, and open land in the early stages of succession
- Residential – rural and developed residential property
- Industrial/commercial – manufacturing or industrial plants, mines, commercial facilities, roads, railroads, and electric or gas utility stations
- Open water – lakes, ponds and water crossings greater than 100 feet

The total acreage required for temporary construction activities is approximately 529.75 acres. Total permanent operational acreage for the pipelines combined with the aboveground facilities is 160.72 acres. The land use type that will be predominantly disturbed during construction and operation of the Project is classified as agricultural land use category.

### 8.1.1 Project Pipeline Facilities

The Project will consist of the following new and existing pipeline facilities:

- Omaha 3rd branch line loop and new launcher and receiver in Cass and Sarpy counties, Nebraska
- NPPD Princeton Road power station branch line and new launcher, receiver and meter station in Gage and Lancaster counties, Nebraska
- Des Moines C-line branch line extension with a facility removal and relocation of a launcher in Dallas County, Iowa
- Des Moines C-line south loop uprate of existing line with new MAOP regulation in Polk County, Iowa
- New Clarion compressor station in Wright County, Iowa
- Modification at five existing compressor stations in Iowa and Nebraska

Table 8.1-1 lists miles and percent crossed by the proposed pipelines for each land use category impacted. The compressor stations, pipeline uprate and temporary compression sites are not included as they have no proposed pipeline. Table 8.1-2 is a summary of land use acreages affected by construction and operation of the proposed pipelines and facilities by land use category.

**Table 8.1-1 Land Crossed by the Project Pipelines**

Project Component	Agriculture		Forest		Industrial/Commercial		Open Land		Wetlands		Open Water		Total Mile(s)	Total %
	Mile(s)	%	Mile(s)	%	Mile(s)	%	Mile(s)	%	Mile(s)	%	Mile(s)	%		
Omaha 3rd branch line loop	7.06	78.3	0.28	3.1	0.11	1.2	1.16	12.8	0.04	0.4	0.38	4.2	9.03	34.5
NPPD Princeton Road power station branch line	13.59	92.9	0.08	0.5	0.17	1.2	0.75	5.1	0.05	0.3	-	-	14.64	56.0
Des Moines C-line branch line extension	2.40	96.8	-	-	0.04	1.6	0.04	1.6	-	-	-	-	2.48	9.5
<b>Totals</b>	<b>23.05</b>	<b>88.1</b>	<b>0.36</b>	<b>1.4</b>	<b>0.32</b>	<b>1.2</b>	<b>1.95</b>	<b>7.5</b>	<b>0.09</b>	<b>0.3</b>	<b>0.38</b>	<b>1.5</b>	<b>26.15</b>	<b>100.0</b>

Replaces 0.00 acres or 0 percent

**Table 8.1-2 Acreage Affected by Construction and Operation of the Project**

Facility	Agricultural		Forest/Woodland		Industrial/ Commercial		Open Land		Open Water		Residential		Wetlands		Total	
	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper
<b>Three Pipelines</b>																
<b>Omaha 3rd branch line loop</b>																
Pipeline ROW <sup>1,2</sup>	85.06	42.71	0.73	0.13	0.26	0.09	10.69	5.08	0.28	-	0.01	-	0.38	0.27	97.41	48.28
<i>Within Existing Easement</i>	19.59	13.97	-	-	0.09	0.04	0.05	0.05	-	-	0.01	-	0.04	0.03	19.78	14.09
<i>Outside of Existing Easement</i>	65.47	28.74	0.73	0.13	0.17	0.05	10.64	5.03	0.28	-	-	-	0.34	0.24	77.63	34.19
ETWS	23.48	-	0.11	-	0.44	-	12.74	-	-	-	-	-	-	-	36.77	-
<i>Within Existing Easement</i>	5.47	-	-	-	0.11	-	0.07	-	-	-	-	-	-	-	5.65	-
<i>Outside of Existing Easement</i>	18.01	-	0.11	-	0.33	-	12.67	-	-	-	-	-	-	-	31.12	-
Staging Area	19.87	-	-	-	0.06	-	0.31	-	-	-	-	-	-	-	20.24	-
<i>Within Existing Easement</i>	0.56	-	-	-	0.02	-	0.07	-	-	-	-	-	-	-	0.65	-
<i>Outside of Existing Easement</i>	19.31	-	-	-	0.04	-	0.24	-	-	-	-	-	-	-	19.59	-
Temporary Access Roads	7.35	-	0.04	-	4.02	-	2.03	-	-	-	0.80	-	-	-	14.24	-
<i>Within Existing Easement</i>	0.04	-	-	-	0.04	-	-	-	-	-	-	-	-	-	0.08	-
<i>Outside of Existing Easement</i>	7.31	-	0.04	-	3.98	-	2.03	-	-	-	0.80	-	-	-	14.16	-
Proposed Facility <sup>3</sup>	1.53	1.53	-	-	0.07	0.07	0.09	0.09	-	-	-	-	-	-	1.69	1.69
PAR <sup>3</sup>	-	-	-	-	0.07	0.07	-	-	-	-	-	-	-	-	0.07	0.07
Existing Aboveground Facility <sup>4</sup>	-	-	-	-	3.07	3.07	-	-	-	-	-	-	-	-	3.07	3.07
<b>Subtotal</b>	<b>137.29</b>	<b>44.24</b>	<b>0.88</b>	<b>0.13</b>	<b>7.99</b>	<b>3.30</b>	<b>25.86</b>	<b>5.17</b>	<b>0.28</b>	<b>-</b>	<b>0.81</b>	<b>-</b>	<b>0.38</b>	<b>0.27</b>	<b>173.49</b>	<b>53.11</b>
<b>NPPD Princeton Road power station branch line</b>																
Pipeline ROW <sup>1,2</sup>	159.22	78.76	0.71	0.36	1.13	0.08	8.15	3.64	-	-	-	-	0.28	0.11	169.49	82.95
<i>Within Existing Easement</i>	35.70	25.19	0.07	0.05	0.07	0.03	0.48	0.31	-	-	-	-	0.07	0.04	36.39	25.62
<i>Outside of Existing Easement</i>	123.52	53.57	0.64	0.31	1.06	0.05	7.67	3.33	-	-	-	-	0.21	0.07	133.10	57.33
ETWS <sup>6</sup>	54.07	-	0.17	-	2.28	-	5.47	-	-	-	0.03	-	-	-	62.02	-
<i>Within Existing Easement</i>	6.47	-	-	-	0.57	-	0.39	-	-	-	0.01	-	-	-	7.44	-
<i>Outside of Existing Easement</i>	47.60	-	0.17	-	1.71	-	5.08	-	-	-	0.02	-	-	-	54.58	-
Staging Area <sup>3</sup>	41.75	-	-	-	0.31	-	1.19	-	-	-	-	-	-	-	43.25	-
<i>Within Existing Easement</i>	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	-
<i>Outside of Existing Easement</i>	41.63	-	-	-	0.31	-	1.19	-	-	-	-	-	-	-	43.13	-
Temporary Access Roads	6.22	-	0.21	-	0.08	-	0.73	-	-	-	-	-	0.01	-	7.25	-
<i>Within Existing Easement</i>	0.03	-	-	-	-	-	0.04	-	-	-	-	-	-	-	0.07	-
<i>Outside of Existing Easement</i>	6.19	-	0.21	-	0.08	-	0.69	-	-	-	-	-	0.01	-	7.18	-
Proposed Facility	1.86	1.86	-	-	0.01	0.01	0.05	0.05	-	-	-	-	-	-	1.92	1.92
<i>Within Existing Easement</i>	0.45	0.45	-	-	-	-	-	-	-	-	-	-	-	-	0.45	0.45
<i>Outside of Existing Easement</i>	1.41	1.41	-	-	0.01	0.01	0.05	0.05	-	-	-	-	-	-	1.47	1.47
PAR <sup>3</sup>	0.03	0.03	-	-	0.06	0.06	0.01	0.01	-	-	-	-	-	-	0.10	0.10

Facility	Agricultural		Forest/Woodland		Industrial/ Commercial		Open Land		Open Water		Residential		Wetlands		Total	
	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper
<b>Subtotal</b>	<b>263.15</b>	<b>80.65</b>	<b>1.09</b>	<b>0.36</b>	<b>3.87</b>	<b>0.15</b>	<b>15.60</b>	<b>3.70</b>	-	-	<b>0.03</b>	-	<b>0.29</b>	<b>0.11</b>	<b>284.03</b>	<b>84.97</b>
<b>Des Moines C-line branch line extension</b>																
Pipeline ROW <sup>1,2</sup>	29.22	14.59	-	-	0.20	0.10	0.43	0.21	-	-	-	-	0.02	0.02	29.87	14.92
<i>Within Existing Easement</i>	9.92	7.06	-	-	0.01	0.01	0.17	0.11	-	-	-	-	0.01	0.01	10.11	7.19
<i>Outside of Existing Easement</i>	19.30	7.53	-	-	0.19	0.09	0.26	0.10	-	-	-	-	0.01	0.01	19.76	7.73
ETWS	5.44	-	-	-	0.13	-	0.36	-	-	-	-	-	-	-	5.93	-
<i>Within Existing Easement</i>	1.07	-	-	-	-	-	0.07	-	-	-	-	-	-	-	1.14	-
<i>Outside of Existing Easement</i>	4.37	-	-	-	0.13	-	0.29	-	-	-	-	-	-	-	4.79	-
Staging Area	10.67	-	-	-	0.08	-	0.57	-	-	-	-	-	-	-	11.32	-
<i>Within Existing Easement</i>	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	-
<i>Outside of Existing Easement</i>	10.64	-	-	-	0.08	-	0.57	-	-	-	-	-	-	-	11.29	-
Temporary Access Roads	4.69	-	-	-	-	-	0.45	-	-	-	-	-	-	-	5.14	-
<i>Within Existing Easement</i>	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	-
<i>Outside of Existing Easement</i>	4.65	-	-	-	-	-	0.45	-	-	-	-	-	-	-	5.10	-
Proposed Facility	0.35	0.35	-	-	-	-	0.01	0.01	-	-	-	-	-	-	0.36	0.36
<i>Within Existing Easement</i>	0.07	0.07	-	-	-	-	-	-	-	-	-	-	-	-	0.07	0.07
<i>Outside of Existing Easement</i>	0.28	0.28	-	-	-	-	0.01	0.01	-	-	-	-	-	-	0.29	0.29
PAR <sup>3</sup>	-	-	-	-	-	-	0.01	0.01	-	-	-	-	-	-	0.01	0.01
Existing Facility <sup>4,5</sup>	-	-	-	-	0.39	-	-	-	-	-	-	-	-	-	0.39	-
<b>Subtotal</b>	<b>50.37</b>	<b>14.94</b>	-	-	<b>0.80</b>	<b>0.10</b>	<b>1.83</b>	<b>0.23</b>	-	-	-	-	<b>0.02</b>	<b>0.02</b>	<b>53.02</b>	<b>15.29</b>
<b>Des Moines C-line south loop uprate</b>																
ETWS <sup>4</sup>	0.07	-	-	-	0.92	-	0.62	-	-	-	-	-	-	-	1.61	-
<i>Within Existing Easement</i>	-	-	-	-	0.10	-	-	-	-	-	-	-	-	-	0.10	-
<i>Outside of Existing Easement</i>	0.07	-	-	-	0.82	-	0.62	-	-	-	-	-	-	-	1.51	-
TWS <sup>3</sup>	-	-	-	-	2.22	-	0.32	-	-	-	-	-	-	-	2.54	-
<b>Subtotal</b>	<b>0.07</b>	-	-	-	<b>3.14</b>	-	<b>0.94</b>	-	-	-	-	-	-	-	<b>4.15</b>	-
<b>Compressor Stations</b>																
<b>Proposed Clarion compressor station</b>																
ETWS <sup>3</sup>	2.14	-	-	-	-	-	-	-	-	-	-	-	0.62	-	2.76	-
Existing facility <sup>4</sup>	-	-	-	-	1.09	1.09	-	-	-	-	-	-	-	-	1.09	1.09
Proposed facility <sup>3</sup>	4.46	4.46	-	-	-	-	0.05	0.05	-	-	-	-	1.74	1.74	6.25	6.25
PAR <sup>3</sup>	-	-	-	-	-	-	0.01	0.01	-	-	-	-	-	-	0.01	0.01
<b>Existing Beatrice compressor station</b>																
TWS	-	-	-	-	0.57	-	-	-	-	-	-	-	-	-	0.57	-
<b>Existing Guthrie Center compressor station</b>																
TWS <sup>4</sup>	-	-	-	-	1.35	-	0.53	-	-	-	-	-	-	-	1.88	-
<b>Existing Oakland compressor station</b>																

Facility	Agricultural		Forest/Woodland		Industrial/ Commercial		Open Land		Open Water		Residential		Wetlands		Total	
	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper	Const	Oper
TWS <sup>4</sup>	-	-	-	-	0.73	-	-	-	-	-	-	-	-	-	0.73	-
<b>Existing Ogden compressor station<sup>7</sup></b>																
TWS <sup>4</sup>	-	-	-	-	0.51	-	-	-	-	-	-	-	-	-	0.51	-
<b>Existing Palmyra compressor station<sup>7</sup></b>																
TWS <sup>4</sup>	-	-	-	-	1.26	-	-	-	-	-	-	-	-	-	1.26	-
<b>Subtotal</b>	<b>6.60</b>	<b>4.46</b>	-	-	<b>5.51</b>	<b>1.09</b>	<b>0.59</b>	<b>0.06</b>	-	-	-	-	<b>2.36</b>	<b>1.74</b>	<b>15.06</b>	<b>7.35</b>
<i>Project Within Existing Easement</i>	79.56	46.74	0.07	0.05	11.85	4.24	1.87	0.47	-	-	0.02	-	0.12	0.08	93.49	51.58
<i>Project Outside of Existing Easement</i>	377.92	97.55	1.90	0.44	9.46	0.40	42.95	8.69	0.28	-	0.82	-	2.93	2.06	436.26	109.14
<b>PROJECT TOTAL</b>	<b>457.48</b>	<b>144.29</b>	<b>1.97</b>	<b>0.49</b>	<b>21.31</b>	<b>4.64</b>	<b>44.82</b>	<b>9.16</b>	<b>0.28</b>	-	<b>0.84</b>	-	<b>3.05</b>	<b>2.14</b>	<b>529.75</b>	<b>160.72</b>

<sup>1</sup> Construction ROW is based on a 60- to 100-foot-wide temporary ROW in uplands and wetlands. Operational ROW is based on 50-foot-wide corridor in uplands and 10-foot-wide corridor in wetlands. Differing ROW widths are shown on the construction alignment sheets.

<sup>2</sup> Northern also included impacts for a single 6-foot-wide or two 3-foot-wide parallel travel lanes between HDD entry and exit points in the pipeline ROW calculations.

<sup>3</sup> Outside existing easement

<sup>4</sup> Inside existing easement

<sup>5</sup> The existing aboveground appurtenance(s) will be removed.

<sup>6</sup> ETWS for temporary compression site at Beatrice to Palmyra D-line and Beatrice to Palmyra E-line Block Valve 5 Setting is included in ETWS for the NPPD Princeton Road power station branch line

<sup>7</sup> The temporary compression at the Ogden and Palmyra compressor stations will occur in the same footprint as the facility work; the acres for temporary compression are included in that section.

- Represents 0.00 acres

## Land Use Summary

Construction and operation of the Project will impact agricultural, forested/woodland (upland), industrial/commercial, open land, open water, residential, and wetland land use types. Total acreage for temporary construction activities of the Project components is approximately 529.75 acres. Approximately 82.4% (436.26 acres) of the construction footprint for the Project will require new easements while approximately 17.6% (93.49 acres) of the construction footprint will overlap with existing pipeline ROW or existing Northern facilities. Total permanent operational acreage of the Project components is approximately 160.72 acres. Approximately 67.9% (109.14 acres) of the operational footprint for the Project will occur outside of existing permanent ROW while 32.1% (51.58 acres) will overlap with existing operational footprints of other Northern facilities.

### Agricultural Land

Agriculture is the dominant land use impacted by the Project. Approximately 457.48 acres of agricultural land will be impacted by construction of the proposed Project, including TWS, ETWS, staging areas, access roads, and aboveground facilities. Approximately 144.29 acres of agricultural land will be affected by operation and maintenance of the Project facilities.

The agricultural land crossed by the Project is regularly cultivated and used to grow row crops, including corn and soybeans along with limited pasture, wheat and alfalfa fields. Temporary impacts on agricultural land are expected along the proposed construction corridor due to grading and trenching activities during pipeline installation.

The primary impacts on agricultural land during construction will include temporary reductions in agricultural production in areas of cultivated cropland and potentially reduced yields of future crops. Agricultural land in the construction area generally will be taken out of production for one growing season. Depending on construction progress and the specific crops being grown, potential impacts on cultivated cropland will occur only if construction occurs on those lands during the growing season, as defined by the NRCS Water and Climate Center Wetlands Determination Table.

All construction workspaces with the exception of the aboveground facilities will be allowed to revert to agricultural land use after completion of construction; therefore, the pipelines' construction and operation will not result in a long-term impact on farmland. Approximately 8.23 acres of agricultural land will be converted into industrial/commercial land for Northern's proposed facilities and PARs while 0.39 acre of land will be returned to farmland with the removal of the Des Moines north loop receiver. Impacts on prime farmland are discussed in more detail in Resource Report 7. Landowners will be compensated for crop loss resulting from construction, and crops may be planted on top of the new pipeline once land utilized for construction is restored. To avoid or minimize soil impacts, Northern will implement the erosion and sedimentation control and restoration procedures described in the Plan and its Procedures and the Project SWPPPs. The procedures employed ensure that soil productivity is not diminished in agricultural lands by using topsoil segregation measures and alleviating compaction.

Specialty crops include fruits, vegetables, tree nuts, dried fruits, and nursery, floriculture, and horticulture crops (USDA-AMS 2025a). Based on a review of the Organic Integrity Database, aerial photography, field surveys, and Northern's landowner outreach efforts, no specialty crops or organic farms have been identified within the Project area (USDA-AMS 2025b). Northern will work with individual landowners through the easement process to identify any specialty crops, conservation program acreage, or organic farms that may be impacted by the Project and to determine measures

to avoid and minimize impacts on these resources. No specialty crops, including nurseries, vineyards, orchards, citrus groves, dairies, aquaculture, or other tree farms were identified near Project facilities.

Agricultural drain tile systems are used to improve drainage in agricultural areas where the water table is high and/or soil characteristics inhibit proper drainage for crop production. Drain tile systems in agricultural areas are designed to remove water from the top three to four feet of soil to improve soil productivity and crop yield. Construction activities such as trenching and heavy equipment traffic can damage existing drain tile systems. Damage to existing drain tile systems, if not repaired, can result in lower soil productivity and crop yields. Based on available online mapping, there are no known mapped drain tiles within the Project.

If drain tiles are encountered, Northern will communicate with landowners, perform preliminary assessments to identify existing drain tiles, repair damaged drain tiles and monitor the Project area following the completion of construction. For drainage systems, Project-specific impacts on and proposed mitigation measures related to include, but are not limited to:

- contacting affected landowners in advance of construction activities to identify known existing and planned drainage systems traversed by the proposed Project
- providing locational information of any drain tiles discovered in preconstruction surveys or planning onto property maps to landowners requesting them
- repairing drain tile damages that result from construction-related activities so that they are at least equivalent to their preconstruction condition, using materials comparable to those currently in place
- after the replacement of topsoil in the ROW, monitoring drainage systems repaired and replaced within the ROW until restoration is considered successful, to assess any drain tile settling, crop production, and drainage issues

### **Forest/Woodland Land**

Approximately 1.97 acres of forested land will be impacted by construction of the proposed Project, including TWS, ETWS, staging areas, HDDs and access roads. The forested land vegetation consists mostly of bur oak (*Quercus macrocarpa*), eastern red cedar (*Juniperus virginiana*), red-osier dogwood (*Cornus sericea*), white mulberry (*Morus alba*), gray dogwood (*Cornus racemosa*), black walnut (*Juglans nigra*), common hackberry (*Celtis occidentalis*), eastern cottonwood (*Populus deltoides*), box elder (*Acer negundo*), Missouri gooseberry (*Ribes missouriense*), American elm (*Ulmus americana*), Amur honeysuckle (*Lonicera maackii*), coralberry (*Symphoricarpos orbiculatus*), Siberian elm (*Ulmus pumila*), American elm (*Ulmus americana*), sumac (*Rhus* spp.), Osage orange (*Maclura pomifera*), honey locust (*Gleditsia triacanthos*) and green ash (*Fraxinus pennsylvanica*). Trees will be cleared within the construction footprint to provide a safe work area; however, the woody vegetation will be allowed to regrow in areas only used as temporary workspace once construction is completed. Northern plans to complete tree clearing on the Omaha 3rd branch line loop August/September 2027 after the prime bird nesting and bat pup seasons. For the Princeton Road power station branch line, Northern will clear trees fall/winter of 2027, to minimize impacts on proposed, threatened and endangered species. No other Project components require tree clearing.

Approximately 0.19 acre of forested land on the Omaha 3rd branch line loop and 0.02 acre of forested land on the NPPD Princeton Road power station branch line will be crossed via HDD travel lanes that will be utilized by only foot traffic during HDD installation. There will be no ground disturbance

and only minor hand-removal of vegetation in the travel lanes. A total of 0.49 acre of forested/woodland land is shown in the operational footprint of the Project and will be subject to routine maintenance except for the HDD travel lanes.

### **Industrial/Commercial**

Approximately 21.31 acres of industrial/commercial land will be impacted by construction of the Project, including TWS, ETWS, staging areas, access roads and aboveground facilities. Temporary impacts on industrial/commercial land are expected along the proposed construction corridor due to grading and trenching activities during pipeline installation. The temporary construction corridor and ETWS will be allowed to revert to industrial/commercial land use after completion of construction.

Approximately 4.64 acres of industrial/commercial land will be affected by operation and maintenance of the Project facilities. Where vegetation is present, dominant plant species include Kentucky bluegrass (*Poa pratensis*), yellow foxtail (*Setaria pumila*) and smooth brome (*Bromus inermis*).

### **Open Land**

Approximately 44.82 acres of open land will be impacted by construction of the Project, including TWS, ETWS, staging areas, access roads, and aboveground facilities. Temporary impacts on open land are expected along the proposed construction corridor due to grading and trenching activities during pipeline installation. The temporary construction corridor and ETWS will be allowed to revert to open land use after completion of construction.

Approximately 9.16 acres of open land will be affected by operation and maintenance of the Project facilities. The open land consists of fallow land, or former cropland and/or other disturbed areas. Dominant plant species observed in open land include smooth brome (*Bromus inermis*), yellow foxtail (*Setaria pumila*), green foxtail (*Setaria viridis*), giant foxtail (*Setaria faberi*), Kentucky bluegrass (*Poa pratensis*), quack grass (*Elymus repens*), big bluestem (*Andropogon gerardii*), little bluestem (*Schizachyrium scoparium*), Indian grass (*Sorghastrum nutans*), Canada thistle (*Cirsium arvense*), wild carrot (*Daucus carota*), reed canary grass (*Phalaris arundinacea*), common purslane (*Portulaca oleracea*), red clover (*Trifolium pratense*), white clover (*Trifolium repens*), giant ragweed (*Ambrosia trifida*), cup plant (*Silphium perfoliatum*), tall goldenrod (*Solidago altissima*), Canada goldenrod (*Solidago canadensis*), horseweed (*Conyza canadensis*), switchgrass (*Panicum virgatum*), common sunflower (*Helianthus annuus*) and side-oats grama (*Bouteloua curtipendula*). In these open upland areas, routine vegetation maintenance will be conducted on a 50-foot-wide strip centered over the pipeline with a frequency of not more than once every three years. In addition, a 10-foot-wide strip over the pipeline may be maintained in an herbaceous state by mowing, cutting and trimming on an annual basis.

### **Open Water**

Approximately 0.28 acre of open water is included in the Project footprint and is entirely associated with the HDD crossing of the Platte River on the Omaha 3rd branch line loop. No open water will be impacted by construction or operation of the other Project facilities. Northern will utilize a boat or drone to monitor the HDD through the Platte River; no direct impacts are anticipated.

There will be no operational impacts on open water. Open water is discussed in further detail within Resource Report 2, Section 2.2. Methods outlined in the Plan and Northern's Procedures will be implemented to minimize impacts on the open water during construction.

## **Residential**

Approximately 0.84 acre of residential land will be impacted by construction of the proposed Project, including TWS, ETWS and TARs. The residential land that will be impacted by the Project consists of privately owned and maintained yards and lawns that are dominated by Kentucky blue grass, smooth brome and quack grass (*Elymus repens*). All workspaces will be allowed to revert to residential land use after completion of construction.

No residential land will be affected by operation and maintenance of the Project facilities.

## **Wetlands**

Approximately 3.05 acres of emergent wetlands will be impacted by construction of the proposed Project, including TWS, ETWS and access roads. Additional information on the wetland types and common vegetation is provided in Resource Report 2, Section 2.3. Fourteen wetlands will be crossed by the Project; Northern designed the Project to avoid wetland areas where possible and reduced the width of the temporary construction workspace to 75 feet to minimize the construction footprint where practicable. One wetland will be crossed via HDD and 13 wetlands will be crossed by crossed via open-cut or will be temporarily impacted by ETWS or TAR associated with the installation of the three pipelines.

Approximately 2.14 acres of wetland will be affected by operation and maintenance of the Project facilities. In March 2026, the USACE Rock Island District indicated that the 1.74 acres of wetlands at the Clarion compressor station are not Waters of the US and therefore are considered non-jurisdictional. The remaining 0.40 acre of operational wetland impact consists of maintaining emergent wetlands on the three pipeline segments.

For wetlands that will be crossed via open-cut trench, Northern will utilize a 75-foot-wide construction ROW through wetland areas except for two emergent wetlands where Northern will utilize a 100-foot-wide construction corridor. ETWS and TARs will be located in upland areas a minimum of 50 feet from the wetland edge within the exception of one area on the Project where ETWS or TARs will be located within a wetland or a wetland buffer. Resource Report 1, Table 1.3.3 identifies these areas by MP and provides relevant information and justification to construct adjacent to the wetlands or its 50-foot buffer.

Wetlands are discussed in further detail in Resource Report 2, Section 2.3. Methods outlined in the Plan and Procedures will be implemented to minimize impacts on wetlands during construction. Northern's SPCC Plan provides restrictions and mitigation measures to minimize potential impacts associated with the release of fuels, lubricants or other potentially toxic materials used during routine construction. Refueling and storage of hazardous materials will be prohibited within 100 feet of wetlands during construction except for the equipment that cannot be moved out of the buffer, such as the HDD rigs. The refueling buffers will be shown on the Project SWPPP figures. The SPCC plan can be found in Resource Report 2, Appendix 2A.

## **Construction and Permanent ROW**

The pipelines for the Project will be installed within 100-foot-wide nominal<sup>1</sup> construction corridors. In addition to the construction corridor, Northern will be utilizing ETWS, staging areas and new

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<sup>1</sup> Nominal is an industry term that indicates the width of the construction ROW without additional construction workspaces.

and/or to-be-improved temporary access roads during construction. Northern is negotiating with all landowners to acquire easements, where needed.

Northern will follow FERC Plan and their (Northern's) Procedures for post-construction maintenance activities found in Resource Report 1. As part of post-construction maintenance, a corridor approximately 50 feet wide will be maintained in upland areas. Some of the permanently maintained ROW would be allowed to revert to preconstruction conditions (primarily agricultural, industrial/commercial, open land, and residential) following construction. Maintenance clearing over the full width of the permanent ROW will not be performed more frequently than every three years; however, a corridor approximately ten feet in width and centered over the pipeline may be maintained annually in an herbaceous state. In wetlands, a 10-foot-wide corridor centered on the pipeline may be cleared at a frequency necessary to maintain an herbaceous state. In addition, trees within 15 feet of a corridor centered over the pipeline with roots that could compromise the integrity of pipeline coating will be selectively removed from the ROW. Northern will not conduct any routine vegetation mowing or clearing in between HDD entry and exit points in riparian or wetland environments.

Resource Report 1, Figure 1-9, provides cross-sectional diagrams of typical pipeline construction ROW and a ROW within a wetland; Figure 1-10 depicts an open-cut crossing of a wetland. Resource Report 1, Section 1.2, land requirements, contains additional information regarding the workspace requirements for the Project.

### **Existing ROW**

Northern has designed the Project to utilize existing ROW where practicable. The three proposed pipelines were designed to parallel existing Northern pipelines. The Omaha 3rd branch line loop and the Des Moines C-line branch line extension parallel for their entirety while the Princeton Road power station branch line parallels the first half of the route; however, specific locations have offsets greater than 25 feet to minimize landowner and environmental impacts and to optimize HDD construction set-up. The offsets for the Project are detailed below in Table 8.1-3.

### **Access Roads and Permanent Access Roads**

Northern will build temporary construction entrances from existing public and private roads to gain access to construction workspaces for the Project. In addition, Northern will construct or improve 31 TARs for the three pipeline segments and facilities, which will result in 26.63 acres of temporary impact on primarily agricultural, industrial/commercial and open land. The TARs and construction entrances (road approaches) will be underlain with a geotextile fabric, where applicable.

Following construction, Northern will remove gravel and geotextile from any TARs or construction entrances that required placement of new gravel. Soil will be decompacted in agricultural land and contours restored to preconstruction conditions.

Six new permanent access roads are planned for the Project totaling 0.19 acre. Northern also will utilize entrances at the existing facilities and compressor stations. These facility entrances are included as ETWS. Appendix 8B lists the TARs planned for the Project.

### **Staging Areas and ETWS**

Northern has identified 22 staging areas, totaling 74.81 acres, that will be used for construction of the Project. The staging areas will impact agricultural, industrial/commercial and open land. The staging areas are generally adjacent to TWS and ETWS and will be utilized by the contractor(s) for

pipe and equipment storage, staging of crews, equipment parking, welding, and fabricating. Staging areas will either undergo full ROW topsoil removal, be overlain by timber mats, or be covered with rock.

Northern has identified multiple ETWS areas, totaling 109.09 acres, along the pipeline routes. The ETWS areas will impact primarily agricultural, industrial/commercial and open land and are generally adjacent to the TWS. These areas will be used to facilitate construction at waterbody/wetland crossings, road crossings, tie-in locations, points of inflection, equipment storage and pipe stringing on the ROW. The size and land use impacts for the staging and ETWS areas for the Project are included in Appendix 8A.

### **8.1.2 Project Temporary Compression Sites**

Northern will utilize three temporary compression sites to complete the tie-ins for the three pipelines. The three temporary compression sites will require small areas of workspace (both TWS and ETWS); no ground disturbance will occur at these locations as the temporary compression will be brought to site on trailers/skids and parked. Resource Report 1, Table 1.4-1 identifies the land requirements, including ETWS that will be disturbed at the three temporary compression sites. The detailed topographic maps and aerial based imagery are provided in Resource Report 1, Figure 1-11.

To gain access to the work area at the temporary compression sites, Northern will primarily use existing public roads and the existing driveways into its facilities as described in Resource Report 1, Section 1.4. Existing roads are in a condition that can accommodate construction traffic without modification or improvement. Upon completion of construction activities, any disturbed areas will be restored to preconstruction conditions.

### **8.1.3 Des Moines C-line South Loop Uprate**

Land required for the Des Moines C-line south loop uprate includes ETWS at three facilities: the Royal Estates reducing station, the Grimes Iowa TBS and the Des Moines A-line launcher facility. In total, the uprate of the C-line will affect approximately 4.15 acres of land (2.54 acres of TWS and 1.61 acres of ETWS). Facility modifications at the three locations to update the regulation on the C-line. With the exception of foot traffic for leak detection surveys, no other work along the pipeline ROW will be required for the uprate. Resource Report 1, Table 1.2-1 identifies the land requirements, including ETWS that will be disturbed at the disconnect sites and the temporary compression site.

### **8.1.4 Project Pipelines**

The land disturbed by construction of the three pipelines includes the construction ROW for installation of the pipelines. These ROW widths will accommodate large equipment movement, pipe stringing, welding, trenching and the separate storage of topsoil and subsoil.

The pipelines will be installed utilizing a 25-foot offset from existing pipelines, where practicable. The proposed pipelines will be offset greater than 25 feet from the existing lines at multiple locations to optimize the pipeline design and to reduce environmental and landowner impacts. The deviations are required to reduce the potential for night-time construction by reducing the number of pull-back sections on HDDs and avoid residences, new infrastructure, and wetlands. Table 8.1-3 below shows locations along the Project where installation would be more than 25 feet from existing Northern pipelines.

**Table 8.1-3 Project Locations Where Installation Would be More than 25 Feet from Existing Pipelines**

Project Component	MP	Max Deviation Distance (feet)	Named Pipeline	Justification
Omaha 3rd branch line loop	4.38-8.65	5,650	Existing Omaha 3rd BL	To avoid residential impacts
NPPD Princeton Road power station branch line	0.00-0.28	145	Existing Sheldon BL	To avoid farmstead
	0.71-0.78	70	Existing Sheldon BL	To cross the road at 90 degrees
	1.78-1.96	175	Existing Sheldon BL	To avoid a house
	7.52-7.98	250	Existing Schuyler BL	To avoid wetlands
	9.71-14.63	11,640	Existing Sheldon BL	To avoid a substation, solar farms, new electric overhead power, and other infrastructure
Des Moines C-line branch line extension	18.25-18.32	105	Existing Des Moines B-Line BL	To avoid power poles in the original centerline

Temporary disturbances include the pipeline construction corridor (TWS), ETWS, travel lanes, TARs and staging areas. Permanent disturbances include the 50-foot-wide permanently maintained ROW centered on the new pipelines, and the operational footprints of the new facilities. Some of the permanently maintained ROW would be allowed to revert to preconstruction conditions (primarily agricultural use) following construction.

Pursuant to U.S. DOT requirements, the pipelines will have a minimum of 30 to 36 inches of cover from the top of the pipeline to the natural ground surface in normal soil conditions and a minimum of 36 inches of cover in agricultural land. The pipelines will have a minimum of 48 inches of cover from the top of the pipelines to the natural ground surface in irrigated agricultural lands. Northern will follow the specifications in section IV.A.2 of the Plan regarding the width of construction ROW; all planned workspaces are currently depicted on the Project alignment sheets and aerial overview. Additional depth of cover to address landowner concerns (e.g., for agricultural lands) will be determined during the ROW negotiation process. At this time, Northern is not aware of any landowner concerns that would require extra construction ROW other than those workspaces depicted on the alignment sheets and aeriels.

In total, construction of the three pipelines will affect approximately 510.54 acres of land. Approximately 153.37 acres will be required for permanent operational pipeline ROW. The temporary construction corridor, ETWS, staging areas and TARs will be temporarily disturbed during construction of the three pipelines but will be reclaimed and restored to preconstruction land cover after the completion of construction.

### 8.1.5 Project Aboveground Pipeline Facilities

The Project will require installation of a new compressor station, a new meter station, new launchers and receivers, relocation of one receiver facility, and minor modifications inside five existing compressor station facilities. Northern will remove one existing facility as part of the Project. The affected acreage for each of the aboveground facilities by existing land use type is detailed in Table 8.1-4 below.

**Table 8.1-4 Project Aboveground Pipeline Facilities**

Facility Name	MP	Proposed Activity	Associated Project Component	Existing Land Use	Total Construction Acres <sup>1</sup>	Total Operational Acres <sup>1</sup>
Clarion compressor station	NA	New compressor station	Stand-alone component	Agricultural 4.46	7.35	7.35
				Open land 0.06		
				Wetland 1.74		
				Industrial/Commercial 1.09		
Omaha 3rd branch line tie-over regulator	0.00	Expanded lot, new valve and launcher	Omaha 3 <sup>rd</sup> branch line loop	Agricultural 0.54	1.31	1.31
				Open land 0.09		
				Industrial/commercial 0.61		
Omaha 3rd branch line loop receiver facility	9.03	New facility with receiver and valve	Omaha 3 <sup>rd</sup> branch line loop	Agricultural 0.99	1.04	1.04
				Industrial/commercial 0.05		
Omaha 3rd branch line odorizer		Existing facility	Omaha 3 <sup>rd</sup> branch line loop	Industrial/commercial	2.48	2.48
NPPD Princeton Road power station launcher facility	0.00	New facility with launcher and valves	NPPD Princeton Road power station branch line	Agricultural 1.00	1.13	1.13
				Open land 0.06		
				Industrial/commercial 0.07		
NPPD Princeton Road power station meter station	14.64	New meter station, receiver, valves and associated equipment	NPPD Princeton Road power station branch line	Agricultural	0.89	0.89
Existing Des Moines north loop receiver (to be removed)	16.07	Relocated receiver remove valves and piping	Des Moines C-line branch line	Industrial/commercial	0.39	0.00
Proposed Des Moines north loop receiver	18.55	New facility with relocated receiver and new valves and piping	Des Moines C-line branch line	Agricultural 0.35	0.37	0.37
				Open land 0.02		

Facility Name	MP	Proposed Activity	Associated Project Component	Existing Land Use	Total Construction Acres <sup>1</sup>	Total Operational Acres <sup>1</sup>
Royal Estates reducing station	18.55	Disconnect control valve from the Des Moines C-line branch line	Des Moines C-line south loop uprate	Agricultural 0.07	1.81	0.00
				Open land 0.84		
				Industrial/commercial 0.90		
Grimes Iowa TBS		Install a MAOP regulators, valves and small building	Des Moines C-line south loop uprate	Industrial/commercial	0.66	0.00
Des Moines A-line launcher facility	25.38	Install control valves and small building	Des Moines C-line south loop uprate	Open land 0.10	1.68	0.00
				Industrial/commercial 1.58		
Beatrice compressor station	NA	New scrubber install	Stand-alone component	Industrial/commercial	0.57	0.00
Guthrie Center compressor station	NA	New piping and valves	Stand-alone component	Open land 0.53	1.88	0.00
				Industrial/commercial 1.35		
Oakland compressor station	NA	New piping and valves	Stand-alone component	Industrial/commercial	0.73	0.00
Ogden compressor station	NA	New piping and valves	Stand-alone component	Industrial/commercial	0.51	0.00
Palmyra compressor station	NA	New piping, valves and regulation	Stand-alone component	Industrial/commercial	1.26	0.00
<b>Project Total</b>					<b>24.06</b>	<b>14.57</b>

<sup>1</sup> Includes permanent access road(s)

### 8.1.6 Land Use Impact Mitigation

Construction of the Project will result in temporary and permanent impacts on the lands that it crosses. To reduce these impacts, Northern will restore lands affected by Project construction and perform appropriate reclamation in accordance with the Plan and its Procedures. In doing so, impacts on existing land use caused by the construction, operation and maintenance of the Project will either be temporary or confined to the permanent 50-foot-wide ROW. The majority of the permanent ROW will be allowed to revert to original land use (e.g., agricultural land). However, portions of the vegetated permanent ROW will be maintained following construction. In wetlands, the permanent impact will be limited to a 10-foot-wide corridor centered over the pipelines. These facilities are sited in a way that is compatible, to the extent possible, with any existing regulations, plans and standards for the county where they are located.

Temporary impacts on land use include clearing new ROWs, expanding existing ROWs and short-term construction impacts on land uses. Impacts are considered short term if, after one to five growing seasons, the revegetated disturbed areas resemble adjacent undisturbed lands. Areas within

the Project footprint with vegetation types that have the potential for revegetation within one to five growing seasons include agricultural, forested, wetland, open land, residential and industrial/commercial.

## **8.2 RESIDENTIAL AREAS**

### **8.2.1 Planned Residential and Commercial Areas**

To determine reasonably foreseeable actions, Northern consulted with Boone, Dallas, Guthrie, Polk, Pottawattamie, and Wright counties, Iowa, and Cass, Gage, Lancaster, Otoe and Sarpy counties, Nebraska, to identify planned developments within 0.25 mile of the Project. As part of Northern's consultations with the above-referenced counties, Northern requested information to identify other reasonably foreseeable actions within the Hydrologic Unit Code 12 watersheds and within a one-mile radius of the Project. Furthermore, Northern reviewed past and reasonably foreseeable projects that have been or would be completed under its existing blanket certificates and that fall within the geographic scopes listed in Resource Report 1, Table 1.9-1. Outreach to local town and county planners and administrators, to date, identified one action that would occur within 0.25 mile of Northern's Project, proposed Panama solar farm near the NPPD Princeton Road power station branch line. Northern is coordinating with the developers of the solar farm to understand the full scope of the project. No other planned residential or commercial developments are known at this time. Copies of agency correspondence are included in Resource Report 1, Appendix 1E.

### **8.2.2 Existing Residences and Buildings**

No residences or buildings are located within 25 feet of the proposed Project.

## **8.3 PUBLIC LAND, RECREATION, AND OTHER DESIGNATED AREAS**

Recreation and special land use generally include: federal, state or county/city parks and forests; conservation lands; WMA; hunting management areas; natural landmarks; scenic byways; designated trails; recreational rivers; and campgrounds. A search for these and other designated areas and sensitive receptors including churches, schools, cemeteries, and hospitals was conducted within 0.25 mile of the Project.

### **8.3.1 Public, Recreation or Conservation Lands**

The Nebraska Game and Parks manages the Platte River State Park, which is located on the south side of the Platte River on the Omaha 3rd branch line loop. Northern has designed workspace for the HDD of the Platte River that is located on state park lands (between MP 7.43 and 7.68). The former sand pits on the north side of the Platte River are owned by the Nebraska Board of Educational Lands and Funds. Northern is in consultation with Nebraska Game and Parks and State of Nebraska. Additional public, recreation or conversation lands within one mile of the Project are as follows. Figure 8-1 depicts the state-owned land within the workspaces of the Omaha 3rd branch line loop.

- The Louisville State Recreation Area, which consists of a campground, playground, and public river access, is located over 0.7 mile east of HDD point on the south side of the Platte River. The buffer is sufficient to minimize Project impacts to this area.
- A private Farm and Ranchland Protection Program property is located on the west side of Barr Lane (private driveway) on the north side of the Platte River and will not be directly impacted.

The west end of the NPPD Princeton Road power station branch line is over 0.8 mile from a wetland reserve program property to the northwest and the Salt Creek Reservoir, a unique landscape for saline wetland habitat, to the southwest. Based on its current construction plan, Northern will have no direct or indirect impacts on these two features. These two features are shown on Figure 1-3 in Resource Report 1.

The Grimes Iowa TBS is located approximately 0.5 mile north of the Beaver Creek Greenbelt, a 73-acre park owned by Polk County that is open to the public. The greenbelt contains no developed trails. Northern's proposed work at this location is of limited scope and a significant distance from the park, in addition to being separated by Highway 141. No impacts on the Beaver Creek Greenbelt are anticipated.

No other special or unique scenic features were identified near the Project, nor are there any designated scenic areas or viewsheds. Construction activities will be relatively short term, and long-term changes will be relatively minor. Visual impacts with respect to cultural resources are discussed in more detail in Resource Report 4.

### **8.3.2 Other Designated Areas**

There are two churches located within 0.25 mile of the Omaha 3rd branch line loop. The Crossroads Bible Church is located approximately 0.22 mile east of the pipeline at MP 1.41 and will not be impacted by the Project. At milepost 4.38 on the Omaha 3rd branch line loop, Northern's proposed pipeline is located approximately 190 feet west of the Immanuel Lutheran Church and Immanuel Lutheran Church Cemetery. No other churches, schools, cemeteries, or hospitals are located within 0.25 mile of the Project. The Project does not cross any areas used as landfills, hazardous waste sites or quarries.

### **8.3.3 Impacts and Mitigation**

Construction of the Project will alter visual aesthetics by removing existing vegetation and disturbing soils. Construction activities may temporarily disrupt recreational access and use of these areas primarily as a result of construction-related traffic. Construction also will generate dust and noise that may be a nuisance to recreational users. Noise and air impacts and mitigation for the Project are discussed in more detail in Resource Report 9. Construction may also interfere with, or diminish, the quality of the recreational experience by affecting wildlife movements.

Resource Report 1 describes special construction techniques that will be implemented during construction of the Project. In addition, implementation of the various Project-specific plans will assist in mitigating potential impacts. Impacts will be short term and limited to the period of active construction. Following construction, Northern will conduct post-construction reclamation of the ROW to preconstruction conditions.

## **8.4 VISUAL RESOURCES**

Private lands crossed by the Project are not subject to federal or state visual management standards. Visual resources on private lands are a function of geology, climate and historical processes, and are influenced by topographic relief, vegetation, water, wildlife, land use, human uses, and development. The topography of the areas affected by the Project is generally flat with rural and residential developments, numerous roadways, and utility ROWs and facilities.

Northern either owns, holds easements, will obtain easements, or will have temporary agreements in-place with landowners for the use of Project workspaces and new aboveground facilities. No tribally owned or reservation land will be crossed or affected by the Project.

A list of affected landowners is provided in Resource Report 1, Appendix 1C and is labeled “CUI//PRIV – DO NOT RELEASE.”

#### **8.4.1 Pipelines**

Temporary visual impacts associated with the construction phase of the Project will be primarily limited to areas requiring extra workspaces. Visual impacts associated with the Project include the removal of existing vegetation and the exposure of bare soils within construction workspaces, as well as grading, trenching and equipment storage. Visual impacts due to construction are considered temporary for underground pipeline once the land has reverted to its original uses.

Northern proposes to use a standard construction ROW. Construction in flat, open terrains will temporarily disrupt and dominate the foreground and middle ground views with the introduction of equipment, materials, trenches, and spoil piles.

Construction and operation of the pipelines will cause temporary visual impacts; however, it will not result in any long-term impacts. To minimize impacts on visual resources, Northern aligned the proposed pipeline routes, where feasible, adjacent to existing pipeline and road ROW. Northern also attempted to align the pipeline to avoid aesthetic features to the extent possible.

#### **8.4.2 Aboveground Pipeline Facilities**

The new facilities proposed on the three pipelines include a new meter station, new launchers and receivers, relocation of one receiver facility, minor modifications inside five existing compressor station facilities, and removal of one existing receiver facility. Northern will install several small buildings/sheds on the Project which will be less than 12 feet in height. All other equipment will be less than eight feet in height. Northern is planning to install visual screening (consisting of trees and pollinator seed mix) on the north, west and east sides of its Omaha 3rd branch line loop receiver facility to minimize visual impacts on the adjacent public access trail. Based on the location and height of the new aboveground facilities, minimal permanent visual impacts will occur in the vicinity of the pipelines or the uprate.

Construction of the new Clarion compressor station will not create a substantial change in the long-term visible impact of the site, which is located in a rural area in Wright County, Iowa, adjacent to an existing Northern facility. The nearest residences are located 2,800 feet to the west and 3,500 feet to the east. The exhaust stacks for the Clarion compressor station will be less than 62 feet in height and the two new buildings will be less than 45 feet in height. Based on the rural location of the proposed site and adjacent quarry operations, no significant permanent impact on visual resources will occur due to the proposed Clarion compressor station facilities. Northern consulted with Wright County Planning and Zoning on March 2, 2026. Wright County is not requiring any landscaping or screening at the facility. A copy of the correspondence is included in Appendix 8A.

The minor facility modification work inside Northern’s existing Beatrice, Guthrie Center, Oakland, Ogden and Palmyra compressor stations will not create a change in the long-term visible impact of the facilities.

## **8.5 APPLICATION FOR RIGHTS OF WAY AND OTHER LAND USES**

The Omaha 3rd branch line loop crosses the Platte River State Park, which is located on the south side of the Platte River and managed by the Nebraska Game and Parks and the north side of the Platte River, which is owned by State of Nebraska. No ROW applications are anticipated for either agency. Northern has initiated coordination with the state park and State of Nebraska (Board of Educations Lands and Funds) to obtain the necessary workspace easements. No other applications for ROWs or other proposed land use from federal or state land-managing agencies will be needed to complete the Project.

## 8.6 REFERENCES

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## **Resource Report 8**

### **Figures**

**Figure 8-1**  
**State Land Crossed by the Project**

U:\17260922103\_data\gis\_cad\gis\ArcPro\172609221\_Central\_Mainline\_ResourceReports.aprx Central\_Mainline\_ResourceReports.aprx Revised: 2026-03-20 By: safoster

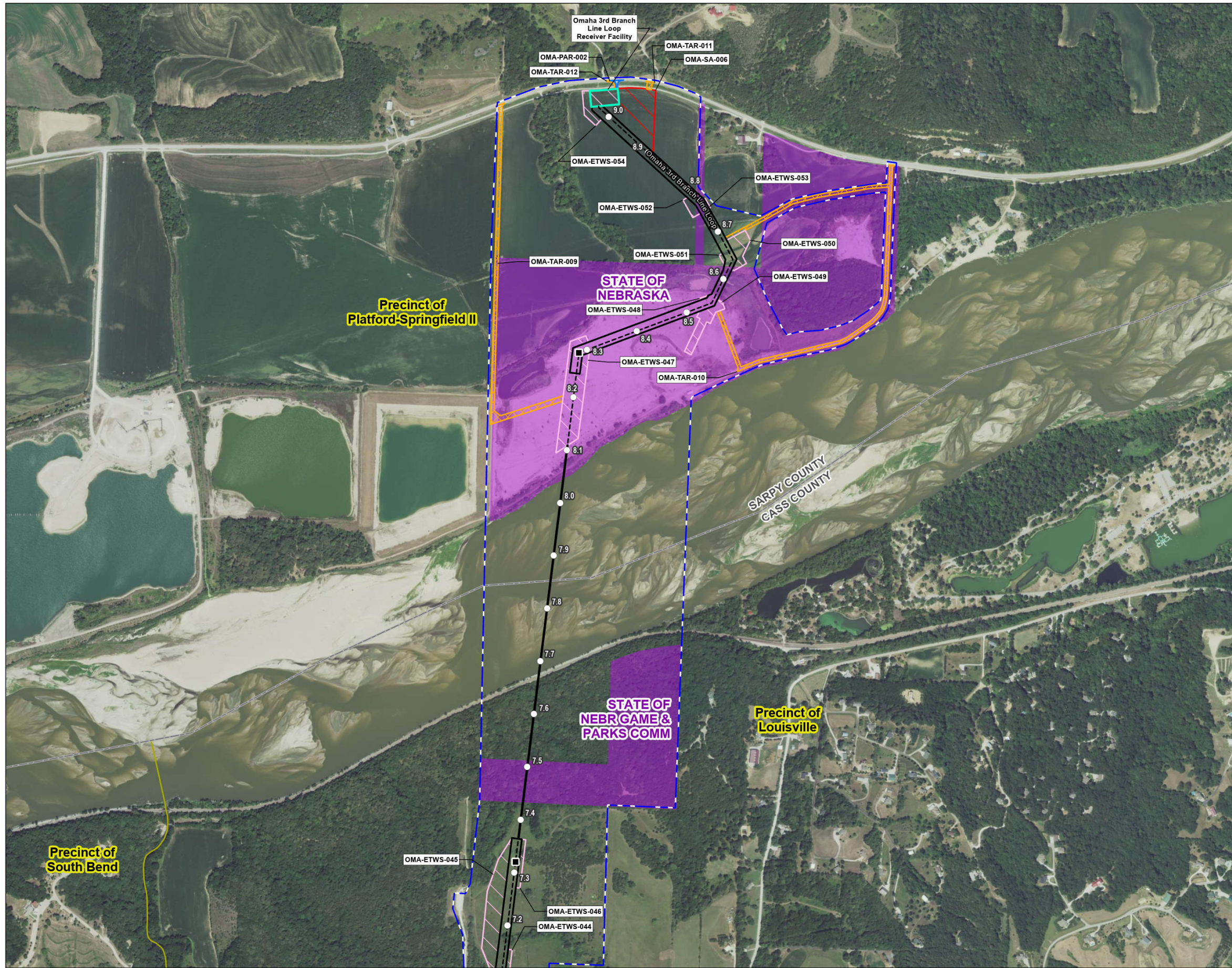
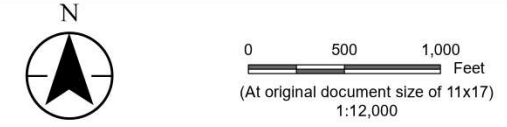


Figure No. **8-1**  
 Title **State Owned Land Omaha 3rd Branch Line Loop**  
 Client/Project Northern Natural Gas Central Mainline Corridor Expansion Project 172609221  
 Project Location Sarpy County, Nebraska Prepared by SF on 2026-03-05 TR by JM on 2026-03-05 IR by SK on 2026-03-20



- Legend
- Mile Post
  - HDD
  - - - Proposed Pipeline
  - ▭ Environmental Survey Boundary
  - ▭ Proposed Facility
  - ▭ Permanent Access Road
  - ▭ Temporary Workspace
  - ▭ Extra Temporary Workspace
  - ▭ Temporary Access Road
  - ▭ Staging Area
  - ▭ State Owned Land



Notes  
 1. Coordinate System: NAD 1983 UTM Zone 15N  
 2. Data Sources: Stantec, NNG, Esri, USCB, USGS  
 3. Background: NAIP 2022

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

## **Appendix 8A**

### **ETWS and Staging Areas for Project**

## **Appendix 8B**

### **TARs and PARs for the Project**

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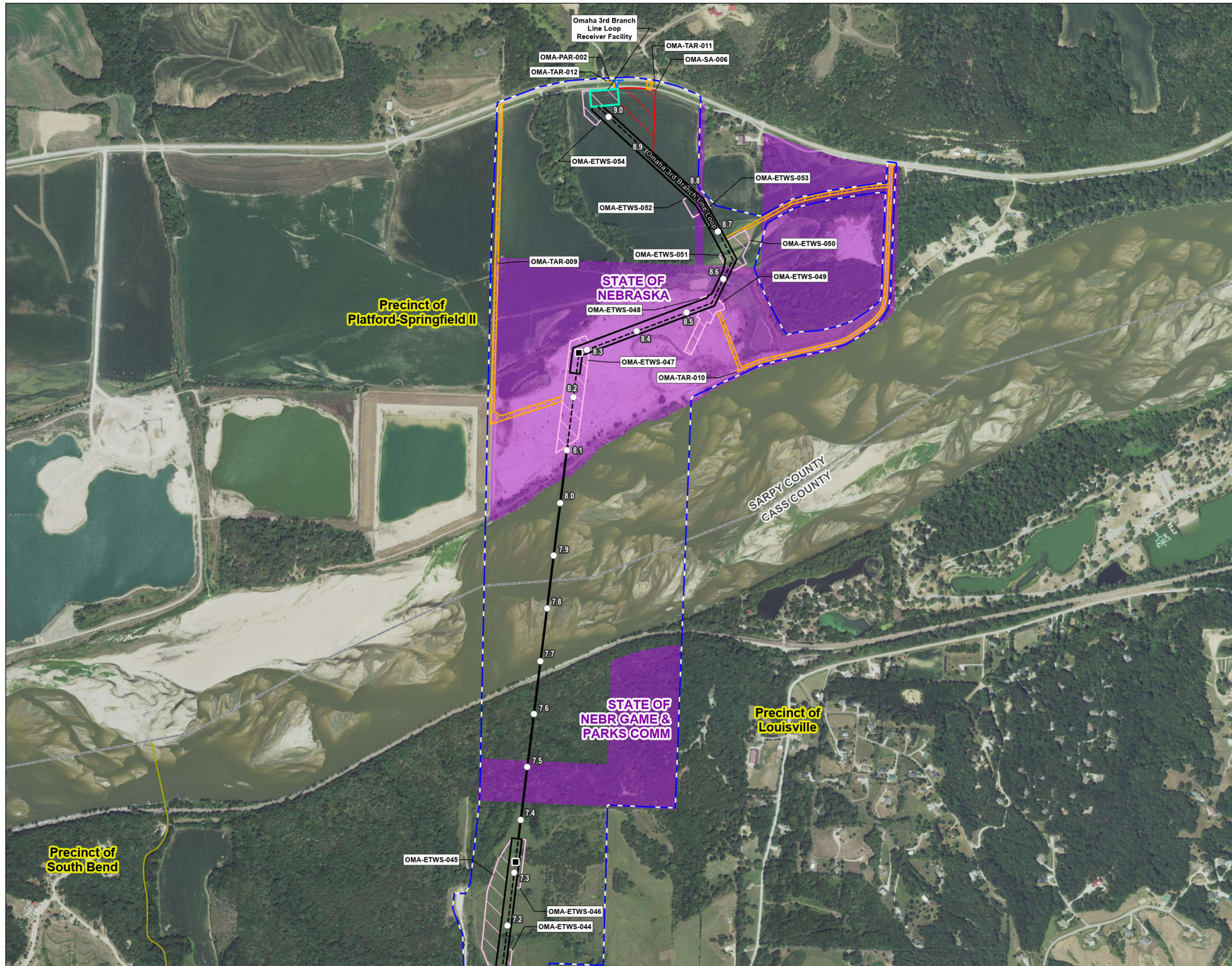
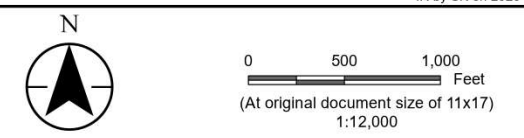


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 Client/Project Northern Natural Gas Central Mainline Corridor Expansion Project 172609221  
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- Legend
- Mile Post
  - HDD
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  - ▭ Environmental Survey Boundary
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## **Appendix 8A**

### **ETWS and Staging Areas for Project**

## Appendix 8A ETWS and Staging Areas for the Project

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
<b>Omaha 3rd branch line loop</b>						
OMA-ETWS-001	0.00	245'x365'x55'x50' x100'x 0'x90'x365'	ETWS	Agricultural 0.46	0.60	Start of pipeline, facility tie-in and expansion
				Industrial/ commercial 0.08		
				Open land 0.06		
OMA-ETWS-002	0.05	300'x90'x235'x50' x70'x 135'	ETWS	Agricultural 0.58	0.66	Bend and soil storage for wetland crossing
				Open land 0.08		
OMA-ETWS-003	0.13	100'x50'x100'x50'	ETWS	Agricultural	0.11	Soil storage for wetland crossing
OMA-ETWS-004	0.13	100'x50'x100'x50'	ETWS	Agricultural	0.11	Soil storage for wetland crossing
OMA-ETWS-005	0.32	200'x200'x35'x165' 5'x165'x35'	ETWS	Agricultural	0.29	Bend
OMA-ETWS-006	0.32	70'x65'x70'x65'	ETWS	Agricultural	0.10	Bend
OMA-ETWS-007	0.51	200'x85'x100'x120' x35'	ETWS	Agricultural	0.21	Bend and existing pipeline crossing
OMA-ETWS-008	0.51	200'x65'x90'x125'	ETWS	Agricultural	0.21	Bend and existing pipeline crossing
OMA-ETWS-009	0.72	200'x35'x115'x95' x70'	ETWS	Agricultural	0.20	Bend
OMA-ETWS-010	0.70	260'x175'x95'x65'	ETWS	Agricultural 0.25	0.26	Bend
				Industrial/ commercial 0.01		
OMA-ETWS-011	0.86	655'x500'x105'x130' x145'	ETWS	Agricultural 1.61	1.65	Bends and facility workspace
				Industrial/ commercial 0.04		
OMA-ETWS-012	0.86	230'x35'x230'x140' x55'x65'x210'x90'x65'x95' x190'x210'x465'	ETWS	Agricultural 1.07	1.20	Bends and facility workspace
				Industrial/ commercial 0.07		
				Open land 0.06		
OMA-ETWS-013	1.26	390'x35'x270'x140' x95'	ETWS	Agricultural 0.38	0.39	Bend and HDD
				Industrial/ commercial 0.01		
OMA-ETWS-014	1.26	385'x165'x240'x65'	ETWS	Agricultural 0.45	0.47	Bend and HDD
				Industrial/ commercial 0.02		

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
OMA-ETWS-015	1.34	10'x370'x10'x370'	ETWS	Agricultural 0.07	0.08	HDD
				Open land 0.01		
OMA-ETWS-016	1.34	380'x65'x375'x65'	ETWS	Agricultural 0.47	0.56	HDD
				Industrial/commercial 0.01		
				Open land 0.08		
OMA-ETWS-017	1.62	200'x5'x115'x90'x35'	ETWS	Agricultural	0.12	Bend
OMA-ETWS-018	1.62	200'x65'x105'x100'x95'	ETWS	Agricultural	0.33	Bend
OMA-ETWS-019	1.80	255'x35'x165'x95'x70'	ETWS	Agricultural	0.23	Bend
OMA-ETWS-020	1.78	315'x185'x145'x70'	ETWS	Agricultural	0.34	Bend
OMA-ETWS-021	2.30	280'x10'x280'x10'	ETWS	Agricultural 0.05	0.06	HDD
				Open land 0.01		
OMA-ETWS-022	2.30	280'x55'x280'x55'	ETWS	Agricultural 0.31	0.35	HDD
				Open land 0.04		
OMA-ETWS-023	2.35	285'x10'x285'x10'	ETWS	Agricultural 0.05	0.06	HDD
				Open land 0.01		
OMA-ETWS-024	2.35	1325'x1350'x10'x1375'x3665'x30'x295'x55'x295'x4990'x1100'x3750'x450'x65'x250'x40'x200'x3750'x1095'x25'	ETWS	Agricultural 7.18	7.26	HDDs, test station cutback, bend, expanded travel lane for side slope and terraces
				Open land 0.08		
OMA-ETWS-025	4.31	250'x25'x250'x25'	ETWS	Agricultural 0.12	0.14	HDD
				Open land 0.02		
OMA-ETWS-026	4.36	200'x345'x65'x140'x135'x210'	ETWS	Agricultural 1.02	1.15	HDD and bend
				Industrial/commercial 0.11		
				Open land 0.02		
OMA-ETWS-027	4.36	40'x25'x40'x25'	ETWS	Open land	0.02	HDD and bend
OMA-ETWS-028	4.48	190'x85'x150'x85'x190'	ETWS	Agricultural	0.69	Bends

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
OMA-ETWS-029	4.48	290'x200'x230'x130'x35'	ETWS	Agricultural 0.25	0.54	Bends
				Industrial/commercial 0.01		
				Open land 0.28		
OMA-ETWS-030	5.20	200'x300'x200'x300'	ETWS	Agricultural 1.12	1.32	Test station cutback, turn around and parking
				Industrial/commercial 0.05		
				Open land 0.15		
OMA-ETWS-031	5.49	270'x200'x65'x135'x205'x70'	ETWS	Agricultural	0.61	Bend
OMA-ETWS-032	5.49	105'x35'x105'x35'	ETWS	Agricultural	0.08	Bend
OMA-ETWS-033	5.71	175'x65'x85'x110'	ETWS	Agricultural	0.19	Bend
OMA-ETWS-034	5.71	200'x90'x95'x130'x40'	ETWS	Agricultural	0.21	Bend
OMA-ETWS-035	5.79	200'x50'x120'x120'x150'	ETWS	Agricultural	0.35	Bend
OMA-ETWS-036	5.79	110'x55'x75'x50'	ETWS	Agricultural	0.08	Bend
OMA-ETWS-037	5.98	70'x65'x70'x65'	ETWS	Agricultural	0.10	Bend
OMA-ETWS-038	5.98	200'x200'x35'x165'x165'x40'	ETWS	Agricultural	0.31	Bend
OMA-ETWS-039	6.34	370'x40'x370'x40'	ETWS	Agricultural 0.32	0.33	HDD
				Open land 0.01		
OMA-ETWS-040	6.34	375'x10'x375'x10'	ETWS	Agricultural 0.07	0.08	HDD
				Open land 0.01		
OMA-ETWS-041	6.45	330'x40'x330'x40'	ETWS	Agricultural	0.30	HDD
OMA-ETWS-042	6.45	335'x15'x335'x15'	ETWS	Agricultural	0.09	HDD
OMA-ETWS-043	6.80	595'x55'x30'x430'x130'x1175'x100'x45'x200'x25'	ETWS	Agricultural 0.27	1.08	HDD and HDD pullback and bend
				Industrial/commercial 0.01		
				Open land 0.80		

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
OMA-ETWS-044	6.92	1230'x40'x1235'x40'	ETWS	Industrial/commercial 0.02	1.13	HDD and HDD pullback
				Open land 1.11		
OMA-ETWS-045	7.09	570'x335'x255'x1420'x340'	ETWS	Open land	4.10	HDD and HDD pullback
OMA-ETWS-046	7.27	485'x45'x485'x40'	ETWS	Forested 0.11	0.44	HDD
				Open land 0.33		
OMA-ETWS-047	8.09	860'x265'x1115'x170'x70'x165'x250'x100'x190'x75'	ETWS	Open land	4.10	HDD
OMA-ETWS-048	8.53	95'x25'x75'x20'	ETWS	Open land	0.04	Bend and potential HDD
OMA-ETWS-049	8.52	360'x40'x65'x160'x70'x55'x75'x95'x125'x40'x360'x75'	ETWS	Open land	1.24	Bend and potential HDD pullback
OMA-ETWS-050	8.62	180'x80'x140'x25'x115'x215'x210'x115'	ETWS	Agricultural 1.00	1.08	Bend and potential HDD
				Open land 0.08		
OMA-ETWS-051	8.62	110'x35'x70'x55'	ETWS	Agricultural	0.07	Ben and potential HDD
OMA-ETWS-052	8.75	200'x50'x120'x90'x90'	ETWS	Agricultural	0.35	Bend
OMA-ETWS-053	8.75	110'x15'x110'x15'	ETWS	Agricultural	0.03	Bend
OMA-ETWS-054	9.00	245'x75'x80'x200'x155'x270'x35'x130'x90'x155'	ETWS	Agricultural	0.67	End of pipeline, bend and proposed facility
OMA-SA-001	0.00	220'x80'x220'x155'x365'	SA	Agricultural 0.79	0.96	Start of pipeline, laydown, facility nearby, pipe and equipment storage
				Industrial/commercial 0.03		
				Open land 0.14		
OMA-SA-002	0.83	420'x395'x150'x65'x90'x170'x480'	SA	Agricultural 4.29	4.32	Laydown, facility nearby, pipe and equipment storage
				Industrial/commercial 0.01		
				Open land 0.02		
OMA-SA-003	1.34	360'x140'x370'x145'	SA	Agricultural 1.02	1.18	Laydown for HDDs and pipeline
				Industrial/commercial 0.01		
				Open land 0.15		
OMA-SA-004	2.41	430'x505'x430'x500'	SA	Agricultural	4.95	Laydown for HDDs and pipeline

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
OMA-SA-005	6.78	740'x280'x200'x530'x255'	SA	Agricultural 4.58	4.59	Laydown for HDDs and pipeline
				Industrial/commercial 0.01		
OMA-SA-006	8.89	615'x685'x170'x155'x115'x125'x145'	SA	Agricultural	4.24	End of pipeline, laydown, facility nearby, pipe and equipment storage
<b>Subtotal Acreage for Omaha 3rd branch line loop</b>					<b>57.01</b>	
<b>NPPD Princeton Road power station branch line</b>						
PRB-ETWS-001	0.00	1130'x195'x250'x255'x1395'x480'	ETWS	Agricultural 11.29	13.63	Temp. compression site
				Industrial/commercial 1.03		
				Open land 1.31		
PRB-ETWS-002	0.00	170'x150'x75'x70'x230'x50'x155'x15'x35'x55'x50'x90'x110'x70'x25'x100'x30'	ETWS	Agricultural 0.21	0.89	Start of pipeline, exiting pipeline crossings and new facility
				Industrial/commercial 0.47		
				Open land 0.21		
PRB-ETWS-003	0.06	135'x90'x75'x65'	ETWS	Agricultural 0.13	0.16	Bend and exiting pipeline crossings
				Open land 0.03		
PRB-ETWS-004	0.05	425'x150'x35'x130'x400'x130'x40'x145'	ETWS	Agricultural	0.61	Bends and exiting pipeline crossings
PRB-ETWS-005	0.12	155'x65'x90'x95'	ETWS	Agricultural	0.18	Bend
PRB-ETWS-006	0.26	145'x35'x85'x70'	ETWS	Agricultural	0.09	Bend
PRB-ETWS-007	0.26	200'x120'x105'x110'x65'	ETWS	Agricultural	0.35	Bend
PRB-ETWS-008	0.69	265'x85'x35'x230'x30'x190'x100'x90'x260'	ETWS	Agricultural 0.61	0.85	Bends and open cut road crossing
				Industrial/commercial 0.05		
				Open land 0.19		
PRB-ETWS-009	0.69	265'x145'x295'x50'x115'x215'x70'x205'x75'	ETWS	Agricultural 0.60	0.77	Bends and open cut road crossing
				Industrial/commercial 0.3		
				Open land 0.14		
PRB-ETWS-010	1.74	725'x40'x565'x175'	ETWS	Agricultural 0.48	0.52	Bend and HDD
				Open land 0.04		
PRB-ETWS-011	1.76	200'x90'x105'x605'x30'x510'x40'	ETWS	Agricultural 0.55	0.61	Bend and HDD
				Industrial/commercial 0.01		
				Open land 0.02		

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
				Residential 0.03		
PRB-ETWS-012	1.89	2395'x25'x2365'x105'x475'x225'x205'x70'x370'x425'x285'	ETWS	Agricultural 3.44	3.54	Bend, HDD, existing pipeline crossing, open cut road crossing and travel lane for side slope and terraces
				Industrial/ commercial 0.07		
				Open land 0.03		
PRB-ETWS-013	1.90	200'x100'x175'x95'	ETWS	Agricultural 0.25	0.39	Bend, HDD, existing pipeline crossing and open cut road crossing
				Industrial/ commercial 0.06		
				Open land 0.08		
PRB-ETWS-014	1.99	430'x40'x340'x100'x100'	ETWS	Agricultural 0.36	0.39	Bend and open cut road crossing
				Industrial/ commercial 0.03		
PRB-ETWS-015	2.82	250'x40'	ETWS	Agricultural	0.23	HDD
PRB-ETWS-016	2.82	250'x10'	ETWS	Agricultural	0.06	HDD
PRB-ETWS-017	3.00	310'x40'	ETWS	Agricultural	0.29	HDD and open cut road crossing
PRB-ETWS-018	3.16	410'x40'x400'x55'x50'x105'x65'x200'x55'	ETWS	Agricultural	0.64	Bend and soil storage for wetland crossing
PRB-ETWS-019	3.16	250'x325'x35'x100'x40'x200'x250'x40'	ETWS	Agricultural	0.56	Bend and soil storage for wetland crossing
PRB-ETWS-020	3.29	395'x40'	ETWS	Agricultural	0.36	Soil storage for wetland crossing
PRB-ETWS-021	3.32	250'x40'	ETWS	Agricultural	0.23	Soil storage for wetland crossing
PRB-ETWS-022	3.70	200'x65'x105'x100'x90'	ETWS	Agricultural	0.32	Bend
PRB-ETWS-023	3.69	245'x155'x95'x35'	ETWS	Agricultural	0.13	Bend
PRB-ETWS-024	3.89	195'x30'x220'x40'	ETWS	Agricultural 0.10	0.14	Open cut road crossing
				Industrial/ commercial 0.02		
				Open land 0.02		
PRB-ETWS-025	3.89	655'x90'x580'x45'	ETWS	Agricultural 0.55	0.63	Bend and open cut road crossing
				Industrial/ commercial 0.03		
				Open land 0.05		

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
PRB-ETWS-026	3.98	200'x35'x120'x95' x85'	ETWS	Agricultural	0.21	Bend
PRB-ETWS-027	4.20	460'x240'x210'x45'	ETWS	Agricultural	0.29	Bend and open cut road crossing
PRB-ETWS-028	4.23	315'x40'x295'x280' x100'x55'x360'	ETWS	Agricultural 0.58	0.63	Bend and open cut road crossing
				Industrial/commercial 0.03		
				Open land 0.02		
PRB-ETWS-029	4.32	215'x15'x220'x10'	ETWS	Agricultural	0.05	Bend and open cut road crossing
PRB-ETWS-030	4.87	250'x40'	ETWS	Agricultural	0.23	Soil storage for wetland crossing
PRB-ETWS-031	4.87	250'x40'	ETWS	Agricultural	0.23	Soil storage for wetland crossing
PRB-ETWS-032	4.97	250'x40'	ETWS	Agricultural	0.23	Soil storage for wetland crossing
PRB-ETWS-033	4.97	250'x40'	ETWS	Agricultural	0.23	Soil storage for wetland crossing
PRB-ETWS-034	5.39	100'x25'	ETWS	Agricultural	0.06	Soil storage for wetland crossing and open cut crossing
PRB-ETWS-035	5.39	100'x25'	ETWS	Agricultural	0.06	Soil storage for wetland crossing and open cut crossing
PRB-ETWS-036	5.45	100'x25'	ETWS	Agricultural	0.06	Soil storage for wetland crossing and open cut crossing
PRB-ETWS-037	5.45	100'x25'	ETWS	Agricultural	0.06	Soil storage for wetland crossing and open cut crossing
PRB-ETWS-038	6.02	605'x40'x505'x220' x65'x170'	ETWS	Agricultural 0.63	0.67	Bend, existing pipeline crossing and HDD
				Open land 0.04		
PRB-ETWS-039	6.02	410'x125'x35'x195' x410'x80'	ETWS	Agricultural 0.64	0.73	Bend, existing pipeline crossing and HDD
				Industrial/commercial 0.01		
				Open land 0.08		

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
PRB-ETWS-040	6.17	430'x60'x400'x40'	ETWS	Agricultural 0.26	0.29	Bend and HDD
				Open land 0.03		
PRB-ETWS-041	6.14	635'x80'x500'x110'x125'	ETWS	Agricultural 0.90	0.97	Bend and HDD
				Industrial/commercial 0.01		
				Open land 0.06		
PRB-ETWS-042	6.49	555'x120'x440'x35'	ETWS	Agricultural 0.33	0.39	Bend and open cut road crossing
				Industrial/commercial 0.03		
				Open land 0.03		
PRB-ETWS-043	6.49	545'x70'x450'x100'x95'	ETWS	Agricultural 0.75	0.86	Bend and open cut road crossing
				Industrial/commercial 0.04		
				Open land 0.07		
PRB-ETWS-044	7.19	165'x25'	ETWS	Agricultural	0.09	Soil storage for wetland crossing
PRB-ETWS-045	7.19	130'x25'	ETWS	Agricultural	0.07	Soil storage for wetland crossing
PRB-ETWS-046	7.24	180'x25'	ETWS	Agricultural	0.10	Soil storage for wetland crossing
PRB-ETWS-047	7.25	130'x25'	ETWS	Agricultural	0.07	Soil storage for wetland crossing
PRB-ETWS-048	7.37	565'x90'x435'x70'x115'	ETWS	Agricultural	1.10	HDD and turnaround
PRB-ETWS-049	7.37	250'x190'x15'x445'x10'	ETWS	Agricultural	0.10	HDD
PRB-ETWS-050	7.56	25'x20'x25'x20'	ETWS	Open land	0.01	Daylighting for HDD
PRB-ETWS-051	7.56	25'x20'x25'x20'	ETWS	Open land	0.01	Daylighting for HDD
PRB-ETWS-052	7.57	25'x20'x25'x20'	ETWS	Industrial/commercial	0.01	Daylighting for HDD
PRB-ETWS-053	7.57	25'x20'x25'x20'	ETWS	Open land	0.01	Daylighting for HDD
PRB-ETWS-054	7.65	125'x20'x125'x20'	ETWS	Open land	0.05	Daylighting for HDD
PRB-ETWS-055	7.65	40'x125'x40'x125'	ETWS	Open land	0.10	Daylighting for HDD

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
PRB-ETWS-056	7.69	70'x20'x70'x20'	ETWS	Open land	0.03	Daylighting for HDD
PRB-ETWS-057	7.69	70'x20'x70'x20'	ETWS	Open land	0.03	Daylighting for HDD
PRB-ETWS-058	7.75	3965'x125'x165'x640'x25'x180'x110'x90'x830'x50'x3905'x300'x845'x125'x220'x70'x265'x125'x1640'x75'x1035'x785'	ETWS	Agricultural 14.43	14.48	HDD, HDD pullback, bends, travel lane for side slope, open cut road crossings and existing pipeline crossing
				Industrial/ commercial 0.05		
PRB-ETWS-059	7.75	125'x65'x170'x85'x65'x55'	ETWS	Agricultural	0.31	HDD and bend
PRB-ETWS-060	7.95	200'x65'x110'x75'x20'x105'	ETWS	Agricultural	0.34	Bend
PRB-ETWS-061	8.77	690'x160'x305'x30'x340'x590'x100'x95'	ETWS	Agricultural 1.31	1.34	Bends, open cut road crossings and existing pipeline crossing
				Industrial/ commercial 0.03		
PRB-ETWS-062	9.67	200'x65'x125'x195'x245'	ETWS	Agricultural	0.45	Bend
PRB-ETWS-063	9.69	75'x40'x60'x35'	ETWS	Agricultural	0.05	Bend
PRB-ETWS-064	10.25	405'x40'	ETWS	Agricultural 0.32	0.37	HDD, daylighting for HDD and turnaround
				Open land 0.05		
PRB-ETWS-065	10.25	400'x10'	ETWS	Agricultural 0.08	0.09	HDD, daylighting for HDD and turnaround
				Open land 0.01		
PRB-ETWS-066	10.34	400'x40'	ETWS	Agricultural 0.33	0.37	HDD, daylighting for HDD and turnaround
				Open land 0.04		
PRB-ETWS-067	10.34	400'x10'	ETWS	Agricultural 0.08	0.09	HDD, daylighting for HDD and turnaround
				Open land 0.01		
PRB-ETWS-068	11.18	490'x10'x485'x15'	ETWS	Agricultural	0.11	HDD and turnaround
PRB-ETWS-069	11.34	45'x330'x45'x335'	ETWS	Agricultural 0.29	0.31	HDD and turnaround
				Open land 0.02		
PRB-ETWS-070	11.18	360'x45'x390'x85'	ETWS	Agricultural	0.51	HDD and turnaround

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
PRB-ETWS-071	11.34	350'x10'x350'x10'	ETWS	Agricultural	0.07	HDD and turnaround
PRB-ETWS-072	11.71	200'x40'x100'x105'x55'	ETWS	Agricultural 0.11	0.20	Bend
				Industrial/commercial 0.03		
				Open land 0.06		
PRB-ETWS-073	11.71	200'x50'x110'x95'x65'	ETWS	Agricultural	0.26	Bend
PRB-ETWS-074	12.29	215'x20'x240'x25'x295'x20'x295'	ETWS	Industrial/commercial 0.07	0.24	Open cut road crossing
				Open land 0.17		
PRB-ETWS-075	12.29	505'x30'x505'x 30'	ETWS	Agricultural 0.29	0.35	Open cut road crossing
				Industrial/commercial 0.02		
				Open land 0.04		
PRB-ETWS-076	12.56	85'x35'	ETWS	Industrial/commercial 0.03	0.07	Bend and open cut road crossing
				Open land 0.04		
PRB-ETWS-077	12.56	395'x200'x30'x135'x360'x65'	ETWS	Agricultural 0.54	0.69	Bend and open cut road crossing
				Industrial/commercial 0.06		
				Open land 0.09		
PRB-ETWS-078	12.74	280'x35'x365'x55'x85'x95'x60'	ETWS	Forested 0.03	0.43	Bend and soil storage for neckdown in treed area
				Open land 0.40		
PRB-ETWS-079	12.84	125'x80'x195'x35'x85'	ETWS	Forested 0.04	0.26	Bend and soil storage for neckdown in treed area
				Open land 0.22		
PRB-ETWS-080	12.86	190'x65'x95'x105'x35'	ETWS	Open land	0.18	Bend and soil storage for neckdown in treed area
PRB-ETWS-081	13.54	275'x255'x10'x255'x75'x200'x10'	ETWS	Agricultural 0.09	0.11	Open cut road crossing
				Industrial/commercial 0.01		
				Open land 0.01		
PRB-ETWS-082	13.54	255'x280'x45'x200'x85'x250'x40'	ETWS	Agricultural 0.44	0.49	Open cut road crossing
				Industrial/commercial 0.02		
				Open land 0.03		
PRB-ETWS-083	13.69	250'x10'	ETWS	Agricultural	0.06	HDD

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
PRB-ETWS-084	13.69	250'x40'	ETWS	Agricultural	0.23	HDD
PRB-ETWS-085	13.90	325'x70'x100'x480'x40'x250'	ETWS	Agricultural	0.56	HDD and bend
PRB-ETWS-086	13.90	595'x35'x470'x135'	ETWS	Agricultural	0.43	HDD and bend
PRB-ETWS-087	14.26	315'x65'x95'x225'	ETWS	Agricultural	0.30	Bend
PRB-ETWS-088	14.29	200'x65'x95'x110'x35'	ETWS	Agricultural	0.19	Bend
PRB-ETWS-089	14.43	810'x45'x810'x40'	ETWS	Agricultural 0.63	0.76	End of pipeline, open cut road crossing, sloped area and soil storage for neckdown in waterway
				Forested 0.10		
				Open land 0.3		
PRB-ETWS-090	14.43	545'x10'	ETWS	Agricultural	0.12	End of pipeline, sloped area and open cut road crossing
PRB-ETWS-091	14.62	400'x70'x55'x100'x55'x60'x400'x225'	ETWS	Agricultural	1.06	End of pipeline, new facility, sloped area, open cut road crossing and soil storage for neckdown in waterway
PRB-ETWS-092	?	750'x145'x960'x123'x62'	ETWS	Agricultural 0.13	1.54	BV 5 Workspace
				Industrial/Commercial 0.04		
				Open land 1.37		
PRB-SA-001	0.65	645'x170'x50'x295'x145'x315'x445'	SA	Agricultural 4.26	4.49	Laydown for pipeline
				Open land 0.23		
PRB-SA-002	1.91	145'x95'x195'x150'x45'	SA	Agricultural 0.39	0.52	Laydown for pipeline and HDD
				Industrial/commercial 0.05		
				Open land 0.08		
PRB-SA-003	3.00	340'x150'x375'	SA	Agricultural	0.58	Laydown for pipeline and HDD
PRB-SA-004	3.91	360'x55'x85'x270'x35'x200'x430'	SA	Agricultural 2.29	2.36	Laydown for pipeline
				Open land 0.07		

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
PRB-SA-005	4.32	400'x185'x180'x10'x260'	SA	Agricultural	0.84	Laydown for pipeline
PRB-SA-006	6.09	750'x325'x510'x420'	SA	Agricultural 4.38	4.81	Laydown for pipeline and HDD
				Industrial/commercial 0.05		
				Open land 0.38		
PRB-SA-007	8.86	570'x335'x180'x25'x350'x590'	SA	Agricultural 4.96	4.98	Laydown for pipeline
				Open land 0.02		
PRB-SA-008	9.73	975'x535'x65'x975'x170'	SA	Agricultural 8.02	8.03	Laydown for pipeline
				Open land 0.01		
PRB-SA-009	11.06	250'x610'x165'x620'	SA	Agricultural	2.86	Laydown for pipeline and HDD
PRB-SA-010	11.34	890'x185'x595'x45'x330'x245'x25'	SA	Agricultural 4.44	4.76	Laydown for pipeline and HDD
				Industrial/commercial 0.15		
				Open land 0.17		
PRB-SA-011	12.45	540'x355'x555'x355'	SA	Agricultural 4.12	4.41	Laydown for pipeline
				Industrial/commercial 0.03		
				Open land 0.26		
PRB-SA-012	14.43	550'x90'x175'x565'x255'	SA	Agricultural	3.30	End of pipeline, laydown for pipeline
PRB-SA-013	14.43	505'x115'x485'x25'x100'	SA	Agricultural	1.31	End of pipeline, laydown for pipeline
<b>Subtotal Acreage for NPPD Princeton Road power station branch line</b>					<b>105.27</b>	
<b>Des Moines C-line branch line extension</b>						
DMS-ETWS-001	16.07	200'x555'x65'x385'x100'x390'x35'x315'x90'x95'x125'	ETWS	Agricultural 1.41	1.63	Start of pipeline, open cut road crossing, tie-in and removing facility
				Industrial/commercial 0.09		
				Open land 0.13		
DMS-ETWS-002	16.16	250'x40'x250'x40'	ETWS	Agricultural	0.23	Soil storage for wetland crossing
DMS-ETWS-003	16.16	265'x10'x270'x10'	ETWS	Agricultural	0.06	Soil storage for wetland crossing
DMS-ETWS-004	16.38	450'x25'x450'x25'	ETWS	Agricultural	0.25	Overhead wire crossings
DMS-ETWS-005	16.38		ETWS	Agricultural	0.26	Overhead wire crossings
DMS-ETWS-006	17.29	625'x10'x625'x10'	ETWS	Agricultural 0.11	0.14	Open cut road crossing, potential HDD
				Industrial/commercial 0.01		
				Open land 0.02		

ID	MP	Dimensions	Type	Existing Land Use and Acres (Subtotals)	Total Area (acres)	Justification
DMS-ETWS-007	17.29	625'x40'x625'x40'	ETWS	Agricultural 0.49	0.57	Open cut road crossing, potential HDD
				Industrial/commercial 0.03		
				Open land 0.05		
DMS-ETWS-008	17.80	115'x195'x65'x90' x125'	ETWS	Agricultural 0.42	0.45	Turn around and parking near road
				Open land 0.03		
DMS-ETWS-009	18.21	200'x145'x5'x110' x120'x65'	ETWS	Agricultural	0.38	Bends, overhead wire crossings
DMS-ETWS-010	18.21	610'x110'x90'x110'x295'x115'x75'x115'	ETWS	Agricultural	0.91	Bends, overhead wire crossings
DMS-ETWS-011	18.31	200'x65'x115'x110'x10'x145'	ETWS	Agricultural	0.38	Bends, overhead wire crossings
DMS-ETWS-012	18.54	70'x170'x100'x170'x65'x300'x295'x25'x115'	ETWS	Agricultural 0.54	0.67	End of pipeline, new facility
				Open land 0.13		
DMS-SA-001	16.07	585'x315'x350'x395'	SA	Agricultural 3.17	3.36	Start of pipeline, laydown, removing facility nearby, pipe and equipment storage
				Open land 0.19		
DMS-SA-002	17.32	595'x430'x275'x310'x10'x230'	SA	Agricultural 3.91	4.23	Laydown for pipeline
				Industrial/commercial 0.08		
				Open land 0.24		
DMS-SA-003	18.53	825'x290'x20'x100'x60'x645'x220'x65'x80'	SA	Agricultural 3.59	3.73	End of pipeline, laydown, new facility nearby, pipe and equipment storage
				Open land 0.14		
<b>Subtotal Acreage for Des Moines C-line branch line extension</b>					<b>17.25</b>	
<b>Des Moines C-line south loop uprate</b>						
RER-ETWS-001	NA		ETWS	Industrial/commercial 0.76	0.76	Uprate workspace
RER-ETWS-002	NA		ETWS	Agricultural 0.07	0.56	Uprate workspace
				Industrial/commercial 0.08		
				Open Land 0.41		
DAL-ETWS-001	NAE TWS		ETWS	Industrial/commercial 0.08	0.29	Uprate workspace
				Open land 0.21		
<b>Subtotal Acreage for Des Moines C-line south loop uprate</b>					<b>1.61</b>	

0.07

<b>ID</b>	<b>MP</b>	<b>Dimensions</b>	<b>Type</b>	<b>Existing Land Use and Acres (Subtotals)</b>	<b>Total Area (acres)</b>	<b>Justification</b>
<b>Clarion compressor station</b>						
CCS-ETWS-001	NA	770'x570'	ETWS	Agricultural 2.14	2.76	Construction of the new Clarion compressor station
				Wetland 0.62		
<b>Subtotal Acreage for Compressor Stations</b>					<b>2.76</b>	
<b>Total Acreage</b>					<b>183.90</b>	

<sup>1</sup> The workspace overlaps with the NL27 construction footprint; acres and impacts for this workspace are included and discussed in the NL27 tables.

## **Appendix 8B**

### **TARs and PARs for the Project**

### Appendix 8B Temporary Access Roads and Permanent Access Roads for the Project

ID	MP	Type	Description	Length (feet)	Width (feet)	Existing Land Use (Subtotals)	Total Area (acres)
<b>Omaha 3rd branch line loop</b>							
OMA TAR-001	0.75	Temporary	Access from Highway 50 to SA	65	30	Industrial/commercial 0.01	0.09
						Open land 0.08	
OMA TAR-001A	0.42	Temporary	Access from Highway 50 to TWS	1,440	20-35	Agricultural	0.79
OMA TAR-002	1.84	Temporary	Access from Highway 50 to TWS	1,368	50	Agricultural 0.96	1.68
						Residential 0.72	
OMA TAR-003	5.23	Temporary	Access from 358th Street to TWS	2,665	50	Agricultural 2.92	3.05
						Industrial/commercial 0.02	
						Open land 0.11	
OMA TAR-004	6.01	Temporary	Access from 358th Street to ETWS	116	50	Agricultural 0.07	0.17
						Industrial/commercial 0.06	
						Open land 0.04	
OMA TAR-005	6.40	Temporary	Access from Highway 66 to ETWS	315	50	Agricultural 0.33	0.44
						Open land 0.11	
OMA TAR-007	6.46	Temporary	Access from Highway 66 to ETWS	700	50	Agricultural 0.67	0.82
						Industrial/commercial 0.01	
						Open land 0.06	
						Residential 0.08	
OMA TAR-008	6.92	Temporary	Access from Mahoney Road to TWS	166	40	Open land	0.17
OMA TAR-009	8.12	Temporary	Access from Highway 31 to HDD entry of Platte River	4,055	40	Agricultural 0.41	3.20
						Forested 0.03	
						Industrial/commercial 1.84	
						Open land 0.92	
OMA TAR-010	8.54	Temporary	Access from Highway 31 to open cut of wetland	5,350	30	Agricultural 1.18	3.69
						Forested 0.01	
						Industrial/commercial 1.96	
						Open land 0.54	
OMA TAR-011	9.03	Temporary	Access from Highway 31 to access the proposed facility	75	25	Agricultural 0.01	0.09
						Industrial/commercial 0.08	
OMH TAR-012	9.03	Temporary	Access from Highway 31 to access the proposed facility	188	13	Agricultural 0.01	0.05
						Industrial/commercial 0.04	

ID	MP	Type	Description	Length (feet)	Width (feet)	Existing Land Use (Subtotals)	Total Area (acres)
OMA PAR-001	0.00	Permanent	Permanent access road from McKelvie Road into Omaha 3 <sup>rd</sup> branch line loop receiver	25	30	Industrial/commercial	0.02
OMA PAR-002	0.92	Permanent	Modify existing permanent access road from Highway 31 into Omaha 3 <sup>rd</sup> branch line tie-over regulator	188	16	Industrial/commercial	0.05
<b>Subtotal for Omaha 3rd branch line loop</b>							<b>14.31</b>
<b>NPP Princeton Road power station branch line</b>							
PRB TAR-001	4.32	Temporary	Access from S 54th Road to TWS	202	32	Agricultural 0.11 Open land 0.04	0.15
PRB TAR-002	6.09	Temporary	Access from E Apple Road to SA	73	30	Agricultural 0.01 Industrial/commercial 0.01 Open land 0.02	0.04
PRB TAR-003	7.45	Temporary	Access from South 12th Street to ETWS	852	50	Agricultural 0.90 Industrial/commercial 0.02 Open land 0.06 Wetland 0.01	0.99
PRB TAR-004	7.57	Temporary	Access from South 12th Street to daylighting ETWS	448	25	Industrial/commercial 0.01 Open land 0.25	0.26
PRB TAR-005	7.98	Temporary	Access from Gage Road to TWS	2,555	50	Agricultural	2.96
PRB TAR-006	10.31	Temporary	Access from W Hallam Road to TWS	824	50-140	Agricultural 0.91 Industrial/commercial 0.02 Open land 0.15	1.08
PRB TAR-007	10.34	Temporary	Access from W Hallam Road to TWS	500	50-100	Agricultural 0.51 Open land 0.10	0.61
PRB TAR-008	11.18	Temporary	Access from SW 14th Street Road to TWS	42	30	Agricultural 0.27 Industrial/commercial 0.01 Open land 0.02	0.30
PRB TAR-009	12.60	Temporary	Access between SA and TWS (to avoid large swale)	252	30	Agricultural	0.17
PRB TAR-010	14.52	Temporary	Access from SW 42nd Street Road to SA	300	60-90	Agricultural 0.31 Forested 0.21 Open land 0.05	0.57
PRB TAR-011	14.52	Temporary	Access from SW 42nd Street Road to SA	215	24	Agricultural 0.07 Industrial/commercial 0.01 Open land 0.04	0.12
PRB PAR-001	0.00	Permanent	Permanent access road from Highway 41 into facility	86	37	Industrial/commercial 0.06 Open land 0.01	0.07

ID	MP	Type	Description	Length (feet)	Width (feet)	Existing Land Use (Subtotals)	Total Area (acres)
PRB-PAR-002	14.63	Permanent	Permanent access road from future plant station road into facility	25	20	Agricultural	0.03
<b>Subtotal for NPPD Princeton Road power station branch line</b>							<b>7.35</b>
<b>Des Moines C-line branch line extension</b>							
DMS TAR-001	16.07	Temporary	Access from 130th Street into ETWS	230	50	Agricultural 0.20	0.26
						Open land 0.06	
DMS TAR-002	16.10	Temporary	Access from 130th Street into ETWS	230	50	Agricultural 0.34	0.38
						Open land 0.04	
DMS TAR-003	16.45	Temporary	Access from Upland Avenue into ETWS	595	50	Agricultural 0.63	0.69
						Open land 0.06	
DMS TAR-004	17.40	Temporary	Access from Highway 30 into SA	295	75	Agricultural 0.44	0.48
						Open land 0.04	
DMS TAR-005	17.71	Temporary	Access from Highway 30 into TWS	1,170	50	Agricultural 1.34	1.42
						Open land 0.08	
DMS TAR-006	18.22	Temporary	Access from Highway 30 into ETWS	955	50	Agricultural 1.04	1.09
						Open land 0.05	
DMS TAR-007	18.54	Temporary	Access from 150th Street into ETWS	700	60	Agricultural 0.66	0.75
						Open land 0.09	
DMS TAR-008	18.54	Temporary	Access from 150th Street into ETWS	75	50	Agricultural 0.04	0.07
						Open land 0.03	
DMS PAR-001	18.55	Permanent	Permanent access road from 150th Street into facility	20	20	Open land	0.01
<b>Subtotal for Des Moines C-line branch line extension</b>							<b>5.15</b>
<b>Clarion compressor station</b>							
CCS-PAR-001	N/A	Permanent	New PAR for Clarion compressor station off 200th Street	20	30	Open Land	0.01
<b>Subtotal for Clarion compressor station</b>							<b>0.01</b>
<b>Project Total</b>							<b>26.82</b>