Appendix 5 - Alternative Avoidance Analysis Table

	Routing Data	Alternative Avoidance Analysis Routing Data Classification	Data Source	Vintage
uifer	routing but	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Geological Survey	2003
mmercially Navigable Waterwa	way	Avoid	Pipeline and Hazardous Materials Safety Administration - National Pipeline Mapping System	2019
ngressional District		Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Census Bureau- TIGER	2020
rridor Collocation		Preferred for Pipelines, Powerlines, Other Utilities, and Roads (Identify crowded corridors). Railroad colocation to be reviewed after the first pass	Rextag, United States Census Bureau- TIGER	June 2021, February 2020
unty		(not a high priority) Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Census Bureau- TIGER	2020
itical Habitat				<u>'</u>
Dakota Ski	kipper	Avoid	United States Fish and Wildlife Services	April 2021
Piping Plov		Avoid	United States Fish and Wildlife Services	April 2021
	ek skipperling	Avoid	United States Fish and Wildlife Services	April 2021
Topeka shi	n Burying Beetle Range	Avoid Avoid	United States Fish and Wildlife Services United States Fish and Wildlife Service/Nebraska Natural Heritag Program/Nebraska Game and Parks Commission	April 2021 May 2020/April 2021
Whooping		Avoid	United States Fish and Wildlife Services Value and Parks Commission	April 2021
epth to Bedrock		Avoid Shallow Bedrock Classification	Natural Resource Conservation Service- State Soil Geographic Dataset	December 2014
osystem Region		Crossing Tables Only- Review For Possible Issues Before Issuing Route	Environmental Protection Agency, United States Fish & Wildlife Service	May 2000, April, 2014
A 303 Protected Waterbody		Avoid	Environmental Protection Agency	303c - March 2010, 303d - May 201
isting Pipeline		Low Avoidance for Crossings	Rextag	June 2021
ult Area		No Fault Areas in the SCS Area of Interest	United States Geological Survey	2010
oodplain 100yr		Low Avodiance- Minimize impacts and crossing lengths around stream and waterbody crossings. FEMA 100 Year Floodplain coverage is incomplete. See Data Comments.	Federal Emergency Management Agency / National Flood Hazard Layer	May 2021
eologic Units		Review dominant lithology for construction methods overlaid with depth to bedrock for critical flaw constraints. Work with construction on rock	United States Geological Survey	2017
		hardness risk. High level constraint review only.		
rastructure, Structures, and O			W	lune 2018
Structure Boundary Outlin	lines	400' offset where applicable. Further review required on structure type ie Single Family-Dwelling, Multi-Family Dwelling, etc Avoid	Microsoft	June 2018
Abandone	ned Mine	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	March 2021
Airport		Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Airport Or		Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	eeding Operation	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	February 2021
	eeding Operation	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Animal Fee	eedlot Facility	Avoid - Review Site After Routing for Possible Adjustments	Minnesota Pollution Controll Agency	May 2021 May 2021
Bar Beach		Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey Geographic Names Information System- United States Geological Survey	May 2021 May 2021
Biosolids		Avoid - Review Site After Routing for Possible Adjustments Avoid - Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey Environmental Protection Agency	April 2021
Bridge		Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Bridge		Avoid- Review Site After Routing for Possible Adjustments	Nebraska Department of Transportation	April 2021
Brownfield	elds Property	Avoid- Review Site After Routing for Possible Adjustments	United States Department of Transportation- National Bridge Inventory	January 2020
Building		Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Cemetery		Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Cemetery	у	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Church	ATTA- C'A D. H C DDAG	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020 May 2021
	Military Site Resulting From BRAC	Avoid - Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey United States Census Bureau- TIGER	February 2020
Coal Mine		Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Coal Mine		Avoid- Review Site After Routing for Possible Adjustments	U.S. Energy Information Administration and U.S. Department of Labor- Mine Safety & Health Administration	January 2020
Communit	nity Water System	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	July 2017
	rated Animal Feeding Operation	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	tion & Demolition Landfill	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	, Monastery, Rectory, Other Religious Group Quarters	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Dam Dam		Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020 May 2021
Dam		Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey Nebraska Departmet of Natural Resources	April 2021
Electric Ge	Generator	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Army Corps of Engineers	January 2019
Electric Po	Power Generator (Biomass Based)	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Electric Po	Power Generator (Coal Based)	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Electric Po	Power Generator (Gas Based)	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Power Generator (Oil Based)	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Power Generator (Solar Based)	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Power Generator (Unknown/Other Source) Power Generator (Water Based)	Avoid - Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021 April 2021
	Power Generator (Water Based) Power Generator (Wind Based)	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Environmental Protection Agency	April 2021 April 2021
	nent/Compliance Activity	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Environmental Protection Agency	April 2021 April 2021
Ethanol Fa		Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Ethanol Fa	Facility/Gasoline And Diesel Producers	Low Avoidance- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Falls		Low Avoidance- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Golf Cours		Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Governme		Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	And Surface Water Site	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Helicopter Hospital	er Landing Pad	Avoid - Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	March 2021 February 2020
	/Hospice/Urgent Care Facility	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER Geographic Names Information System- United States Geological Survey	May 2021
	ated Place Park, Forest, Or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Island		Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
	Gas (LFG) Recovery	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	Underground Storage Tank	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Underground Storage Tank - ARRA	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	April 2021
Library	1-04-6-5-4-	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	I or Detention Center	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020 February 2020
Locale Locality Po	Point	Avoid - Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER Geographic Names Information System - United States Geological Survey	February 2020 May 2021
Locality Po Military	ome	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey United States Census Bureau- TIGER	May 2021 February 2020
Mine		Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- LIGER Geographic Names Information System- United States Geological Survey	May 2021
Mine		Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Mine Plant	int	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey- Mineral Resources Data System	March 2017
	in Peak Or Summit	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey	February 2020
Museum, \	, Visitor Center, Cultural Center, Or Tourist Attraction	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	smission Hub	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	nsient Non-Community Water System	Avoid- Review Site After Routing for Possible Adjustments	U.S. Energy Information Administration	April 2020
Non-Trans Npdes Peri			Environmental Protection Agency	April 2021

		Alternative Avoidance Analysis		
	Routing Data	Routing Data Classification	Data Source	Vintage
	NPDES Pretreatment Program	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Environmental Protection Agency	April 2021
	NPDES Stormwater Permit NPDES Unpermitted	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Environmental Protection Agency	April 2021 April 2021
	NRIS Cultural Site	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Environmental Protection Agency	April 2021 April 2021
	Other Hazardous Waste Activities	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	National Parks Service- National Register of Historic Places	November 2020
	Other Park, Forest, Or Recreation Area (Quasi-Public, Independent Park Commission, E	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Park	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
	Petroleum / Alternative Fuels Filling Station	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	Petroleum Refinery	Avoid- Review Site After Routing for Possible Adjustments	Alternative Fuels Data Center(USDOE)	November 2020
	Place Of Worship	Avoid- Review Site After Routing for Possible Adjustments	U.S. Energy Information Administration	July 2020
	Post Office	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	Private Park, Forest, Or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	Radio Tower	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	Regional Park, Forest, Or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	South Dakota Game, Fish and Parks	February 2012
	School	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	School Or Academy	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	Sinkhole Site	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	Solid & C&D Waste Landfill	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	February 2021
	Spring	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	State Master	Low Avoidance- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	State Park, Forest, Or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Storm Water Construction	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	Storm Water Industrial	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Summit	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Superfund (Non-NPL)	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	Superfund NPL	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Tower	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Tower	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	Traffic Circle	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
	Train Station, Trolley Or Mass Transit Rail Station	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
	Transportation Terminal	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	Transportation Terminal	Avoid- Review Site After Routing for Possible Adjustments	Streetmap	2009
	Underground Storage Tank	Avoid- Review Site After Routing for Possible Adjustments	United States Department of Transportation	April 2020
	Unspecified Universe	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	April 2021
	US Government Facility	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Wastewater Outfall		Bureau of Indian Affairs	June 2018
	Water Monitoring Site	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	April 2021
	Water Treatment Plant Water Treatment Plant	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	South Dakota Game, Fish and Parks Iowa Department of Natural Resources	Februaru 2013 March 2020
	Well Well	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Well	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	lowa Department of Natural Resources	November 2020
	Well	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Minnesota Geological Society	October 2019
	Wind Farm	Avoid- Review Site After Routing for Possible Adjustments	Nebraska Oil and Gas Conservation Commission	March 2021
	Wind Turbine	Avoid - Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	September 2015
	Workforce Lodging	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	January 2019
Karst Topography	11000,0000			
, ,	Karst Boundary	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey	Published 1984; Digitized 2005
	Karst Rock Type	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey	July 2014
Land Cover				
	Alfalfa	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
	Barley	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
	Barren	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
	Buckwheat	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	
	Canola	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
	Carrots			2020 Edition; Published February 2021
		Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
	Chick Peas	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021
	Christmas Trees	Low Avoidance Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021
	Christmas Trees Clover/Wildflowers	Low Avoidance Low Avoidance Avoid	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021
	Christmas Trees Clover/Wildflowers Corn	Low Avoidance Low Avoidance Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
	Christmas Trees Clover/Midflowers Carn Dbl Crop Barley/Carn	Low Avoidance Low Avoidance Avoid Low Avoidance Low Avoidance Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
	Christmas Trees Clover/Widflowers Com Dbl Crop Barley/Com Dbl Crop Barley/Sopheans	Low Avoidance Low Avoidance Avoid Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
	Chrismes Trees Clover/Wildflowers Com DBL Crap Barley/Corn DBL Crap Barley/Corn DBL Crop Corn/Soybeans DbL Crap Corn/Soybeans	Low Avoidance Low Avoidance Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
	Christmas Trees Clover/Midflowers Carn Dbl Crop Barley/Carn Dbl Crop Barley/Soybeans Dbl Crop Carn/Soybeans Dbl Crop MinMit/Carn	Low Avoidance Low Avoidance Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
	Christmes Trees Clover/Wildflowers Corn Dbl Crop Berley/Corn Dbl Crop Berley/Soybeans Dbl Crop Corn/Soybeans Dbl Crop Wildflowers Dbl Crop Wildflowers Dbl Crop Wildflowers Dbl Crop Wildflowers	Low Avoidance Low Avoidance Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
	Christmas Trees Clover/Widflowers Corn DBI Crop Barley/Carn DBI Crop Barley/Soybeans DBI Crop Corn/Soybeans DBI Crop WinWht/Corn DBI Crop WinWht/Sorghum DBI Crop WinWht/Soybeans	Low Avoidance Low Avoidance Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
	Christmas Trees Clover/Widflowers Corn Dbl Crop Borley/Corn Dbl Crop Borley/Soybeans Dbl Crop Corn/Soybeans Dbl Crop Corn/Soybeans Dbl Crop WinWhit/Corn Dbl Crop WinWhit/Corn Dbl Crop WinWhit/Sorghum Dbl Crop WinWhit/Sorghum	Low Avoidance Low Avoidance Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
	Christmas Trees Clover/Wildflowers Corn DBL Crop Barley/Corn DBL Crop Barley/Sopheans DBL Crop Darley/Sopheans DBL Crop Corn/Sopheans DBL Crop WinWhit/Corn DBL Crop WinWhit/Corn DBL Crop WinWhit/Sorghum DBL Crop WinWhit/S	Low Avoidance Low Avoidance Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2030 Edition; Published February 2021
	Christmas Trees Clover/Widflowers Com Dbl Crop Barley/Com Dbl Crop Barley/Soybeans Dbl Crop Corn/Soybeans Dbl Crop Corn/Soybeans Dbl Crop WinWhit/Com Dbl Crop WinWhit/Sorphum Dbl Crop WinWhit/Soybeans Decidwous Forest Developed/High Intensity Developed/High Intensity	Low Avoidance Low Avoid Avoid Low Avoidance Avoidance Low Avoidance Low Avoidance Low Avoidance Avoid Avoid	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
	Christmas Trees Clover/Wildflowers Corn Dbl Crop Barley/Corn Dbl Crop Barley/Soybeans Dbl Crop Barley/Soybeans Dbl Crop WinWht/Corn Dbl Crop WinWht/Corn Dbl Crop WinWht/Corn Dbl Crop WinWht/Corn Dbl Crop WinWht/Soydeans Deciduous Forest Deciduous Forest Developed/Avia Intensity Developed/Avia Intensity Developed/Avia Intensity	Low Avoidance Low Avoidance Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
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Routing Data	Alternative Avoidance Analysis Routing Data Classification	Data Source	Vintage
Other Crops	Avoid	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Other Hay/Non Alfalfa	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Peas	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Peppers Pop or Orn Corn	Low Avoidance Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2 2020 Edition; Published February 2
Potatoes Potatoes	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Pumpkins	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Radishes	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Rye	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Safflower	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Shrubland	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Sod/Grass Seed (Review data accuracy for any major route variances)	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Sorghum Soybeans	Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2 2020 Edition; Published February 2
Spring Wheat	Low Avoidance Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2
Squash	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
Sugarbeets	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
Sunflower	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
Sweet Corn	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
Switchgrass	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
Triticale	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
Vetch	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
Watermelons	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
Winter Wheat	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
Woody Wetlands	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February
p Potential Conflicts	A cold to describe the product of a product address of	The state of the s	D
Agricultural Easement	Avoid- Review Site After Routing for Possible Adjustments Avoid	United States Geological Survey - PADUS v2_1	December 2020
Airport Airport - Statistical Representation	Avoid Avoid- Review Site After Routing for Possible Adjustments	Streetmap United States Census Bureau- TIGER	2009 February 2020
Arrport - Statistical Representation Amusement Center	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau - FIGER United States Census Bureau - TIGER	May 2016
Approved or Proclamation Boundary	Low Avoidance- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
Campground	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Cemetery	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Coal Mine	Avoid- Review Site After Routing for Possible Adjustments	lowa Department of Natural Resources	July 2017
Commercial Workplace	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Conservation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Conservation Easement	Avoid- Review Site After Routing for Possible Adjustments	National Conservation Easement Database	August 2020
Conservation Easement	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Convent, Monastery, Rectory, Other Religious Group Quarters	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
County Park, Forest, or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Federal Other or Unknown	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Federal Penitentiary, State Prison, or Prison Farm	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau - TIGER	February 2020
Forest Stewardship Easement Golf Course	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1 United States Census Bureau- TIGER	December 2020 February 2020
Government Center	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau - Irdek United States Census Bureau - TIGER	February 2020
Grazing Allotment - BLM	Avoid- Review Site After Routing for Possible Adjustments	Bureau of Land Management	April 2021
Grazing Allotment - USFS	Avoid- Review Site After Routing for Possible Adjustments	United States Forest Service	April 2021
Historic or Cultural Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
Hospital/Hospice/Urgent Care Facility	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Hotel, Motel, Resort, Spa, Hostel, YMCA, or YWCA	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Incorporated Place Park, Forest, or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Industrial Building or Industrial Park	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Inventoried Roadless Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Juvenile Institution	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Local Conservation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Local Historic or Cultural Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Local Jail or Detention Center	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Local Other or Unknown	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Local Park Local Recreation Area	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1 United States Geological Survey - PADUS v2_1	December 2020 December 2020
Local Resource Management Area	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1 United States Geological Survey - PADUS v2_1	December 2020
Military Land	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Museum, Visitor Center, Cultural Center, or Tourist Attraction	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - FADOS V2_1 United States Census Bureau-TIGER	February 2020
National Forest or Other Federal Land	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
National Grassland	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	November 2019
National Grassland	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
National Public Lands	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
National Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
National Wildlife Refuge	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
	Avoid- Review Site After Routing for Possible Adjustments	Bureau of Indian Affairs	December 2018
Native American Land Area			May 2016
Native American Land Area Native American Land Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v1_4	
Native American Land Area Native American Land Area Native Parie Community	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Minnesota Departmnet of Natural Resources	April 2021
Native American Land Area Native American Land Area Native American Under Community NRIS Cultural Site	Avoid- Review Site After Routing for Possible Adjustments Avoid-Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Minnesota Departmnet of Natural Resources National Parks Service- National Register of Historic Places	April 2021 November 2020
Native American Land Area Native American Land Area Native Prarie Community NRIS Cultural Site Nursing Home, Retirement Home, or Home for the Elderly	Avoid-Review Site After Routing for Possible Adjustments	Minnesota Departmet of Natural Resources National Parks Service- National Register of Historic Places United States Census Bureau-ThGER	April 2021 November 2020 February 2020
Native American Land Area Native American Land Area Native Parier Community NRIS Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution	Avoid- Review Site After Routing for Possible Adjustments	Minnesota Departmet of Natural Resources National Parks Service- National Register of Historic Places United States Census Bureau- TIGER United States Census Bureau- TIGER	April 2021 November 2020 February 2020 February 2020
Native American Land Area Native American Land Area Native American Land Area Native Parrie Community NRIS Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Essement	Avoid-Review Site After Routing for Possible Adjustments	Minnesota Departmet of Natural Resources National Parks Service - National Register of Historic Places United States Census Bureau-TIGER United States Census Bureau-TIGER United States Consus Bureau-TIGER United States Census Bureau-TIGER	April 2021 November 2020 February 2020 February 2020 December 2020
Native American Land Area Native American Land Area Native Pranie Community Nisis Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Easement Other Employment Center	Avoid-Review Site After Routing for Possible Adjustments	Minnesota Department of Natural Resources National Parks Service- National Register of Historic Piaces United States Census Bureau- TIGER United States Census Bureau- TIGER United States Geological Survey - PADUS v2_1 United States Geological Survey - PADUS v2_1 United States Census Bureau- TIGER	April 2021 November 2020 February 2020 February 2020 December 2020 February 2020
Native American Land Area Native American Land Area Native American Land Area Native American Land Area Native Paraire Community NBIS Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Easement Other Employment Center Other Park, Forest, or Recreation Area (quasi-public, independent park commission, et	Avoid- Review Site After Routing for Possible Adjustments Avoid-Review Site After Routing for Possible Adjustments	Minnesota Departmet of Natural Resources National Parks Service- National Register of Historic Pitces United States Census Bureau- TIGER United States Census Bureau- TIGER United States Geological Survey - PADUS v2_1 United States Census Bureau- TIGER United States Census Bureau- TIGER United States Census Bureau- TIGER	April 2021 November 2020 February 2020 February 2020 December 2020 February 2020 February 2020
Native American Land Area Native American Land Area Native Parale Community Nisis Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Essement Other Employment Center Other Park, Forest, or Recreation Area (quasi-public, independent park commission, et Park	Avoid-Review Site After Routing for Possible Adjustments	Minnesota Departmet of Natural Resources National Parks Service- National Register of Historic Places United States Census Bureau- TIGER	April 2021 November 2020 February 2020 February 2020 December 2020 February 2020 February 2020 February 2020
Native American Land Area Native American Land Area Native Parale Community Nils Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Easement Other Endpoyment Center Other Park, Forest, or Recreation Area (quasi-public, independent park commission, et Park Park Place of Worship	Avoid-Review Site After Routing for Possible Adjustments	Minnesota Department of Natural Resources National Parks Service- National Register of Historic Piaces United States Census Bureau- TIGER United States Census Bureau- TIGER United States Geological Survey - PADUS v2_1 United States Geological Survey - PADUS v2_1 United States Census Bureau- TIGER	April 2021 November 2020 February 2020 February 2020 December 2020 February 2020 February 2020 February 2020 February 2020 February 2020 February 2020
Native American Land Area Native Paraire Community NBIS Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Easement Other Employment Center Other Employment Center Other Park, Forest, or Recreation Area (quasi-public, independent park commission, et Park Park Place of Worship Private Conservation	Avoid-Review Site After Routing for Possible Adjustments	Minnesota Department of Natural Resources National Parks Service- National Register of Historic Piaces United States Census Bureau- TIGER	April 2021 November 2020 February 2020 February 2020 December 2020 February 2020 February 2020 February 2020 February 2020 February 2020 February 2020 December 2020
Native American Land Area Native American Land Area Native Praine Community Nisis Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Easement Other Farsh, Forest, or Recreation Area (quasi-public, independent park commission, et Park Park Place of Worship Private Conservation Private Conservation Private Conservation Private Conservation Private Conservation	Avoid-Review Site After Routing for Possible Adjustments	Minnesota Department of Natural Resources National Parks Service- National Register of Historic Places United States Census Bureau- TIGER United States Geological Survey - PADUS v2_1 United States Geological Survey - PADUS v2_1 United States Geological Survey - PADUS v2_1	April 2021 November 2020 February 2020 February 2020 December 2020 February 2020 February 2020 February 2020 February 2020 February 2020 December 2020 December 2020
Native American Land Area Native American Land Area Native American Land Area Native Prarie Community Nits Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Easement Other Easement Other Park, Forest, or Recreation Area (quasi-public, independent park commission, et Park Place of Worship Private Conservation Private Other or Unknown Private Other or Unknown Private Park, Forest, or Recreation Area	Avoid-Review Site After Routing for Possible Adjustments	Minnesota Department of Natural Resources National Parks Service, National Register of Historic Places United States Census Bureau-TIGER	April 2021 November 2020 February 2020 February 2020 February 2020 December 2020 February 2020 February 2020 February 2020 February 2020 December 2020 December 2020 December 2020
Native American Land Area Native American Land Area Native American Land Area Native Parale Community Nitis Cultural Site Nursiag Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Easement Other Employment Center Other Park, Forest, or Recreation Area (quasi-public, independent park commission, et Park Place of Worship Private Conservation Private Park, Forest, or Recreation Area Private Park, Forest, or Recreation Area Private Park, Forest, or Recreation Area Private Park Communication or Recreation Area Private Park Communication or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	Minnesota Departmet of Natural Resources National Parks Service- National Register of Historic Places United States Census Bureau- TIGER	April 2021 November 2020 February 2020 February 2020 December 2020 February 2020 February 2020 February 2020 February 2020 February 2020 December 2020 December 2020 December 2020 December 2020 December 2020 December 2020
Native American Land Area Native American Land Area Native American Land Area Native Prarie Community Nits Cultural Site Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution Other Easement Other Easement Other Park, Forest, or Recreation Area (quasi-public, independent park commission, et Park Place of Worship Private Conservation Private Other or Unknown Private Other or Unknown Private Park, Forest, or Recreation Area	Avoid-Review Site After Routing for Possible Adjustments	Minnesota Department of Natural Resources National Parks Service, National Register of Historic Places United States Census Bureau-TIGER	Agril 2021 November 2020 February 2020 February 2020 February 2020 December 2020 February 2020 February 2020 February 2020 February 2020 December 2020 December 2020 December 2020 February 2020

	Alternative Avoidance Analysis		
Routing Data	Routing Data Classification	Data Source	Vintage
Regional Park, Forest, or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Research Natural Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Research or Educational Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Resource Management Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Scenic Byway	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Transportation	July 2020
Scenic Byway	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	February 2017
School or Academy	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Shopping Center or Major Retail Center	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Sinkhole Area	Avoid- Review Site After Routing for Possible Adjustments	lowa Department of Natural Resources	February 2021
Solid Waste Facility	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	April 2019
State Conservation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Historic or Cultural Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Other or Unknown	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Park	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Park, Forest, or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
State Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Resource Management Area	Avoid ance Review Size After Routing for Possible Adjustments Low Avoidance Review Size After Routing for possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Wilderness	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
Superfund Site	Avoid- Review Site After Routing for Possible Adjustments - Review Arsenic Trioxide Boundary from the project data sources in North Dakota.	The Agency for Toxic Substances and Disease Registry	December 2014
superiunu site	Avoid-neview site After routing for Possible Aujustinents-neview Afsent. Trixxiale boundary from the project data sources in North Dakota. Very broad and possible apency data inaccuracy.	The Agency for Toxic Substances and Disease Registry	December 2014
Trailer Court or Mobile Home Park	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
University or College	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Unknown	Avoid- Review Site After Routine for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
Unknown Easement	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
USACE Reservoirs	Avoid- Review Site After Routing for Possible Adjustments	United States Army Corps of Engineers	August 2020
Waterfowl Production Area	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	November 2019
Wellhead Protection Area	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Minnesota Deprtment of Health	July 2019
Wild and Scenic River	Avoid-Review Site After Routing for Possible Adjustments Avoid-Review Site After Routing for Possible Adjustments	Minnestoa Department of Natural Resources	November 2006
		North Dakota GIS Hub	
Wildlife Management Area Risk	Avoid- Review Site After Routing for Possible Adjustments		September 2020 2001
RISK	High to High Moderate Susceptibility- Avoid. Review existing pipelines in the area for any potential previous constraints.	United States Geological Survey	
	Avoid	Federal Emergency Management Agency / National Flood Hazard Layer	2021
vline	Artificial Path, Stream or River- Perrennial (Avoid); Canal\Ditch- (Low Avoidance); Connector- (Low Avoidance); Stream or River- Ephemeral (Low Avoidance): Stream or River- Intermittent (Low Avoidance): Water Pipeline - Underground (Avoid)	United States Geological Survey	June 2020
erbody	Pond- Low Avoidance ; Lake- Avoid ; Swamp/Marsh- Avoid ; Reservoir- Avoid	United States Geological Survey	June 2020
land	Freshwater Emergent Wetland- Low Avoidance; Freshwater Forested/Shrub Wetland- Avoid; Freshwater Pond- Low Avoidance; Lake- Avoid; Riverine- Avoid	United States Fish and Wildlife Services	October 2020
ound Acceleration	Avoid Areas of High/Active PGA	National Atlas of the United States	2012
HCAs			
Other Populated Area	Avoid	Pipeline and Hazardous Materials Safety Administration - National Pipeline Mapping System	February 2017
Highly Populated Area	Avoid	Pipeline and Hazardous Materials Safety Administration - National Pipeline Mapping System	December 2017
es	Low Avoidance for Crossings. Identify and review high voltage powerline crossings.	Rextag	June 2021
Side Hill Slope	O-15% Preferred: 15-20% Low Avoidance: 20-30% Avoid > 30% Avoid > 30% Avoid	United States Department of Agriculture/United States Geological Survey/Natural Resource Conservation Service- National	Varies
out in sope	0-13/8 Fieletted, 13-20/8 Low Avoidance , 20-30/8 Avoid , >30/8 Avoid	Geospatial Center of Excellence	Vulley
Soils	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Department of Agriculture/United States Geological Survey/Natural Resource Conservation Service- National Geospatial Center of Excellence	Varies
gislative Boundaries	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Census Bureau-TIGER	December 2019
ortation	Bike Path or Trail-Low Avoidance; Local Neighborhood Road, Rural Road, City Street-Low Avoidance; Primary Road-Avoid; Private Road-Low	United States Census Bureau - TIGER	February 2020
	Avoidance: Railroad-Avoid: Ramo-Avoid: Secondary Road-Avoid: Walkyav/Pedestrian Trail-Low Avoidance	Office States census sureur Trach	, 2020
hed	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Geological Survey	February 2020
E District	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Army Corps of Engineers	January 2021
/.S Regional Boundary	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Fish and Wildlife Services	May 2021