



**Scoping Estimate – External
Revision 0**

A “Scoping Estimate” is provided by Xcel Energy for the convenience of the requesting entity (Requester). It is produced before engineering design has been completed and in many instances, before any engineering design has begun. Xcel Energy will make every effort to produce a representative estimate that incorporates as many project-specific factors as possible. However, a Scoping Estimate is generally based on typical conditions encountered on past construction projects and uses historical cost data from other Xcel Energy projects, which may or may not be directly comparable. A Scoping Estimate will only give a broad-based estimate of the possible costs that may be incurred during a potential construction project. Xcel Energy will not proceed to construction based on a Scoping Estimate. If a Requester wants a more definitive estimate of the cost of a project, an “Appropriation Estimate” should be requested.

This form will be provided to the Requester prior to completion of the Scoping Estimate so that the Requester can verify the Project Scope and Assumptions information, below. Once the estimate is complete, Xcel Energy will fill in the “Estimated Costs” space at the bottom, and provide a copy of this form to the Requester.

Requester Name Claudia Klinkhammer Phone 651-440-2889
Address: Ramsey County Fax Claudia.Klinkhammer@co.ramsey.mn.us
15 Kellogg Blvd W
Saint Paul, MN, 55102

To generate this Scoping Estimate, Requester agrees to pay Xcel Energy: \$2,089,569.00

Approved By
Requester: Claudia Klinkhammer 4/6/2026
Claudia Klinkhammer Date
Ramsey County
Redevelopment Program Manager

The Requester should review the information detailed below and notify Xcel Energy in writing as soon as possible if any of these assumptions are incorrect.

Project Information:

Substation Name/Line No: 0846 HBR-DBL
Location: St. Paul, Minesota
Title: Line 0846 Structure 9-13 replacement.

Preliminary Scope/Assumptions:

The preliminary scope for this project is to relocate structures 0846-9 through 0846-13 to accommodate Ramsey Co's proposed Riversedge Development. This project will replace the existing steel monopole and steel lattice tower structures with new self-supporting steel structures on drilled pier foundations. All angle structures will be designed with davit arms and suspension insulator assemblies. Structure 0846-9 will be an angle structure and will be relocated 10-20 feet southwest of the existing 0846-9 on the Science Museum of Minnesota's property. Structure 0846-10 will be a terminal deadend structure and will be relocated to the median of Shepard Road, approximately 230 feet southwest of the existing 0846-10. Structure 0846-11 will be an angle structure and will be relocated 10-15 feet southeast of existing structure 0846-11. Structure 0846-12 will be an angle structure and will be relocated to the parking lot located on the west side of the Robert Street bridge. Structure 0846-13 will be an angle structure and will be relocated 10-15 feet northeast of the existing

0846-13 and will remain in the median of Shepard Road. All new structures will be designed to accommodate for a future second circuit on the north side of the line, however this project will only transfer the existing 795 ACSS "Drake" conductor and OPGW to the new structures on the south circuit.

Assumptions:

- Any changes made to Ramsey Co's Riversedge Development project must be communicated to Xcel Energy immediately, as design options may change, and project schedule may be impacted.
- New easements can be obtained for the new alignment.
- Project schedule and duration are contingent upon material, outage, and crew availability in the month(s) of scheduled construction.
- Local construction, road crossing, railroad crossing, and Army Core of Engineering permits will be required.
- Soil conditions are adequate for drilled pier foundation design.
- External civil construction resources have been estimated.
- Internal overhead line construction resources have been estimated.
- FAA permits can be obtained as needed. Structure heights may be impacted by FAA regulations on 0846-12 and 0846-13.
- Barge work will be required and can be accomplished during estimated construction dates to remove existing lattice tower 0846-12 and its foundations from the Mississippi River. Only the top pedestal of the foundation above the river bed will be removed from the Mississippi River.
- Matting may be required along the line, \$20,000 has been included in the estimate, and will be completed by internal construction crews.

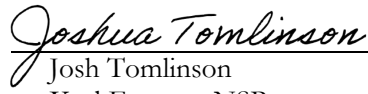
Scoping Estimate of Costs:

\$0, Capital, Non-Reimbursable (paid by Xcel Energy)
\$6,955,936, Capital, Reimbursable (paid by Requester)
\$6,955,936, Capital, TOTAL

HD Estimate Name(s):0846-SE-STR 9-13 RELOC

Prepared By: Cole Kitzenberg
Xcel Energy - NSP
Consulting Transmission Line Engineer
9-29-25

Approved By
Xcel Energy:


Josh Tomlinson
Xcel Energy - NSP
Project Manager

3/26/26

Date

RAMSEY COUNTY

Rafael Ortega, Chair
Ramsey County Board of Commissioners

Jason Yang, Chief Clerk
Ramsey County Board of Commissioners

Approved as to form:



Scott Schwan, Assistant County Attorney
Ramsey County Attorney's Office

Recommended by:



Josh Olson, Director of Community & Economic Development

Scope Summary Report

Project Information:

Project Title:	0846- STR3(0821)-DBL 115kV Structure 9-13 Relocation		
WBS Level 2:	A.0000276.120		
WBS Level 4:	A.0000276.120.001.002		
Operating Company (OPCO):	NSPM		
State:	MN		
Project Tier:	1		
Sub/T-Line:	Transmission Line		
InEight Estimate Name:	0846 - SE STR 9-13 Reloc		
Project Stage:	Scoping		
Estimate Date:	9/29/2025		
In-Service Date:	6/30/2027		
Project Manager:	Josh Tomlinson		
CMT Sponsor Engineer:			
Project Lead Engineer:	Cody Ostwald		
Estimate Prepared By:	Cole Kitzenberg (if other than Project Lead Engineer)		
Project Length (mi):	0.75	(See Scope Segment Details below)	
Voltage (kV):	115		

General Project Purpose & Scope:

The preliminary scope for this project is to relocate structures 0846-9 through 0846-13 to accommodate Ramsey Co's proposed Riversedge Development. This project will replace the existing steel monopole and steel lattice tower structures with new self-supporting steel structures on drilled pier foundations. All angle structures will be designed with davit arms and suspension insulator assemblies. Structure 0846-9 will be an angle structure and will be relocated 10-20 feet southwest of the existing 0846-9 on the Science Museum of Minnesota's property. Structure 0846-10 will be a terminal deadend structure and will be relocated to the median of Shepard road, approximately 230 feet southwest of the existing 0846-10. Structure 0846-11 will be an angle structure and will be relocated 10-15 feet southeast of existing structure 0846-11. Structure 0846-12 will be an angle structure and will be relocated to the parking lot located on the west side of the Robert Street bridge. Structure 0846-13 will be an angle structure and will be relocated 10-15 feet northeast of the existing 0846-13 and will remain in the median of Shepard Road. All new structures will be designed to accommodate for a future second circuit on the north side of the line, however this project will only transfer the existing 795 ACSS "Drake" conductor and OPGW to the new structures on the south circuit.

Estimate Assumptions:

None Entered

Scope Details:

Scope Segment	Segment Description	Segment Length (mi)	Scope Segment	Segment Description	Segment Length (mi)
S.1	Str 9 to Str 13	0.75	S.6		
S.2			S.7		
S.3			S.8		
S.4			S.9		
S.5			S.10		

Scope Segment	Typical Tangent Type (INSTALL)	Description (Optional)	Total Str Count (Install)
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None Entered

Scope Segment	Typical Tangent Type (REMOVAL)	Description (Optional)	Total Str Count (Remove)
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None Entered

Scope Segment	Typical Angle Type	Description (Optional)	Total Str Count (Install)	Total Str Count (Remove)
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S.1	Steel_Mono_Dvt Arm_Susp_Bolted Fdn	DC	4	
S.1	Lattice_Susp	DC		3
S.1	Steel_Mono_Susp_Bolted Fdn	DC		2

Scope Segment	Typical Dead End Type	Description (Optional)	Total Str Count (Install)	Total Str Count (Remove)
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S.1	Steel_Mono_HLP Jmp_Bolted Fdn	DC	1	
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Wires						
Scope Segment	Phase Wire Type	Qty Phase Install (Station mi)	Qty Phase Remove (Station mi)	Shield Wire Type	Qty SW Install (Station mi)	Qty SW Remove (Station mi)
S.1	SC Round Conductor	0.75		Single OPGW	1.00	1.00

Major Property Units:

Below are the major property units that will be installed/removed as part of this project:

	Property Unit	Install	Remove	Comments
1	Arrester (Multiple)	No	No	0 Str(s) Installed & 0 Str(s) Removed above
2	Conductor Overhead (2920187209)	Yes	Yes	3.25 Station mile(s) install, 1 Station mile(s) remove above
3	Damper (2950189709)	Yes	Yes	Assumed that installed and removed structures have dampers
4	Guy Wire (3490241709)	No	No	0 Str(s) Installed & 0 Str(s) Removed above
5	Insulator (2920189459)	Yes	Yes	5 Str(s) Installed & 5 Str(s) Removed above
6	Pole, Cross Arm (6460817409)	Yes	No	4 Str(s) Installed & 0 Str(s) Removed above
7	Pole, Insulated Cross Arm (6460817509)	Yes	No	1 Str(s) Installed & 0 Str(s) Removed above
8	Pole Not Wood (6460816409)	Yes	Yes	5 Str(s) Installed & 2 Str(s) Removed above
9	Pole Wood (6460817209)	No	No	0 Str(s) Installed & 0 Str(s) Removed above
10	Switch Gang (Multiple)	No	No	0 Str(s) Installed & 0 Str(s) Removed above
11	Tower (7960880809)	No	Yes	0 Str(s) Installed & 3 Str(s) Removed above
12	X-Brace (8710945709)	No	No	0 Str(s) Installed & 0 Str(s) Removed above
13	Anti-Galloping Device (Not a PU)	No	No	Not a Property Unit

(1b) SAP Entry Form

Project Title: 0846-STR3(0821)-DBL 115KV Structure 9-13 Relocation
 Region: NSPM
 State: MN

Project Stage: Scoping
 Estimate Date: 9/29/2025

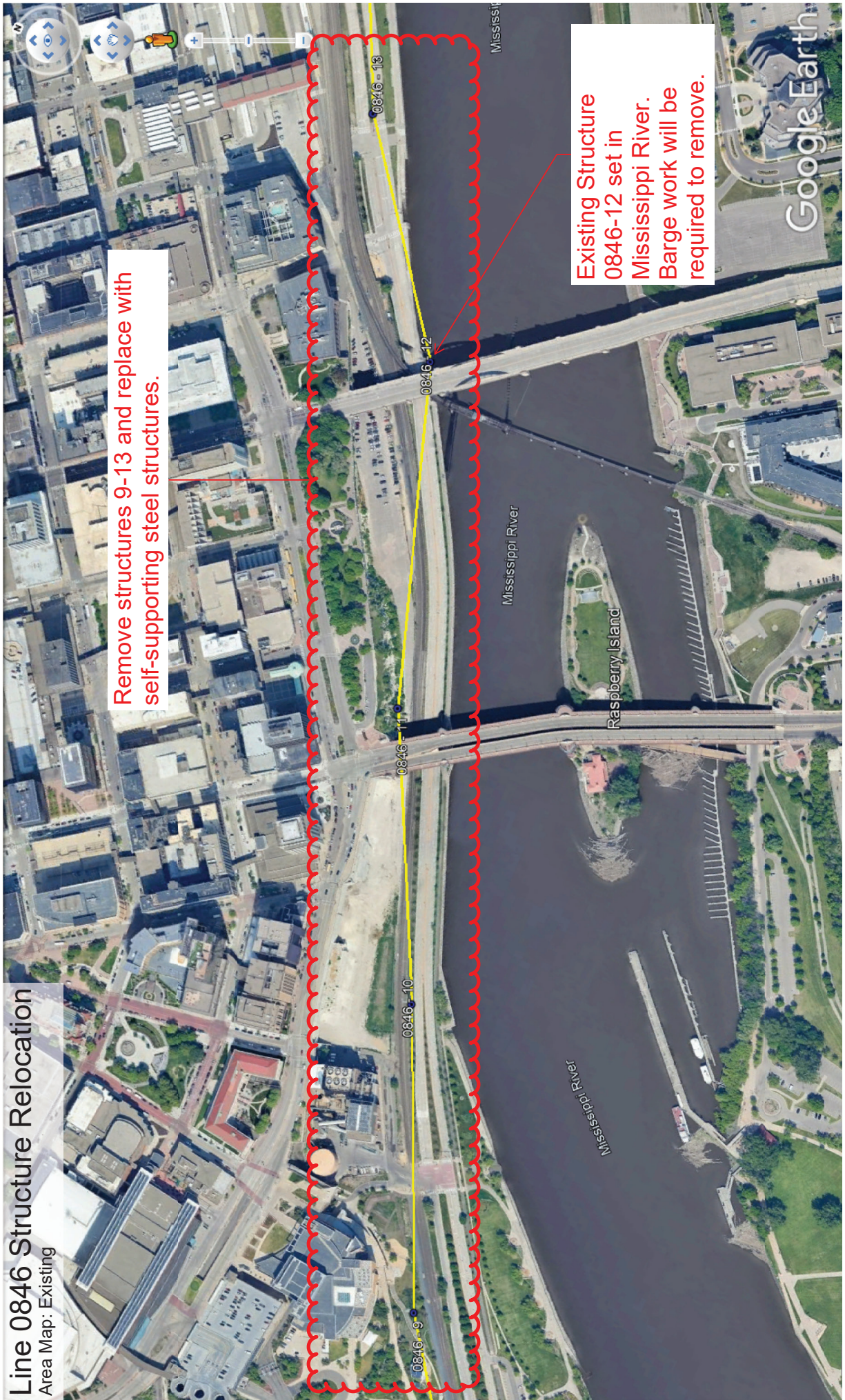
Snapshot Date: 9/29/2025

Project Structure Overview	Name	Identification	Cost to Date (From CJ3N)	Estimate Costs to Complete	Overheads Cost to Complete	Total Cost	Estimate Total Hrs to Complete (1)	Scoping Est. Snapshot	Approp. Est. Snapshot	Eng. Est. Snapshot	Closeout Actuals	Variance %	Closeout Comments
WBS Level 1	Group Name	A.0000276			E&S (% of Directs) >	3.58%		3.58%					
WBS Level 2		A.0000276.120			Material P&W (% of Directs) >	2.39%							
WBS Level 3		A.0000276.120.001			A&G (% of Directs) >	0.24%		0.24%					
					Escalation (% of Directs) >	1.19%							
WBS Level 4 - Transmission Line	0846-STR3(0821)-DBL 115KV Structure 9-13 Relocati	A.0000276.120.001.002	\$ 0	\$ 6,682,052	\$ 262,342	\$ 6,944,394	(w/out AFUDC)	\$ 6,944,394				0.00%	
WBS Level 5 - PLAN		A.0000276.120.001.002.01	\$ 0	\$ 635,908	\$ 28,582	\$ 664,490		\$ 664,490					
Order - Internal Labor (INLAB)	Internal Labor (INLAB)	113782999	\$ -	\$ 258,408	\$ 10,110	\$ 268,518	2315	\$ 268,518				0.00%	
Order - Contribution in Aid of Const (CAIC)	Contribution in Aid of Const (CAIC)	2	\$ -	\$ -	\$ -	\$ -	0	\$ -				0.00%	
Order - External Siting & Land Rights (EXSLR)	External Siting & Land Rights (EXSLR)	113782904	\$ -	\$ 184,000	\$ 9,003	\$ 193,003	0	\$ 193,003				0.00%	
Order - External Engineering (EXENG)	External Engineering (EXENG)	113782905	\$ -	\$ 193,500	\$ 9,468	\$ 202,968	0	\$ 202,968				0.00%	
Order - EXPM	EXPM	113782906	\$ -	\$ -	\$ -	\$ -	0	\$ -				0.00%	
WBS Level 5 - PROC		A.0000276.120.001.002.02	\$ 0	\$ 1,341,782	\$ 83,297	\$ 1,425,079		\$ 1,425,079					
Order - Anchor Bolts (ANCR BLT)	Anchor Bolts (ANCR BLT)	113782907	\$ -	\$ 87,000	\$ 5,401	\$ 92,401	-	\$ 92,401				0.00%	
Order - Conductor and Fiber/Shield Wire (COND)	Conductor and Fiber/Shield Wire (COND)	113782908	\$ -	\$ 49,100	\$ 3,048	\$ 52,148	-	\$ 52,148				0.00%	
Order - Culverts (CLVT)	Culverts (CLVT)	113782913	\$ -	\$ -	\$ -	\$ -	-	\$ -				0.00%	
Order - Foundation Material (FND MAT)	Foundation Material (FND MAT)	113782914	\$ -	\$ 58,299	\$ 3,619	\$ 61,919	-	\$ 61,919				0.00%	
Order - Insulators & Hardware (INS & HW)	Insulators & Hardware (INS & HW)	113782915	\$ -	\$ 16,411	\$ 1,019	\$ 17,429	-	\$ 17,429				0.00%	
Order - Structures (STR)	Structures (STR)	113782916	\$ -	\$ 1,023,561	\$ 63,542	\$ 1,087,103	-	\$ 1,087,103				0.00%	
Order - Switch (SW)	Switch (SW)	22	\$ -	\$ -	\$ -	\$ -	-	\$ -				0.00%	
Order - Temporary Work Material (TMP MAT)	Temporary Work Material (TMP MAT)	23	\$ -	\$ -	\$ -	\$ -	-	\$ -				0.00%	
Order - Wood Structures (WD STR)	Wood Structures (WD STR)	24	\$ -	\$ -	\$ -	\$ -	-	\$ -				0.00%	
Order - Concrete	Concrete	113782917	\$ -	\$ 107,411	\$ 6,668	\$ 114,079	-	\$ 114,079				0.00%	
Order - FLD RQ MT	FLD RQ MT	113782919	\$ -	\$ -	\$ -	\$ -	-	\$ -				0.00%	
WBS Level 5 - CNST		A.0000276.120.001.002.03	\$ 0	\$ 3,432,029	\$ 150,464	\$ 3,582,493		\$ 3,582,493					
Order - Internal Construction (INCNST)	Internal Construction (INCNST)	113782920	\$ -	\$ 1,242,548	\$ 47,499	\$ 1,290,047	13015	\$ 1,290,047				0.00%	
Order - External Construction (EXCNST)	External Construction (EXCNST)	113782921	\$ -	\$ 1,800,000	\$ 88,077	\$ 1,888,077	0	\$ 1,888,077				0.00%	
Order - Civil Construction (CVL)	Civil Construction (CVL)	113782923	\$ -	\$ 155,239	\$ 5,934	\$ 161,174	2035	\$ 161,174				0.00%	
Order - Trucking (TRCK)	Trucking (TRCK)	113782924	\$ -	\$ 10,102	\$ 386	\$ 10,488	150	\$ 10,488				0.00%	
Order - Restoration (RSTR)	Restoration (RSTR)	60	\$ -	\$ 78,531	\$ 3,002	\$ 81,533	750	\$ 81,533				0.00%	
Order - Temporary Facilities (TFAC)	Temporary Facilities (TFAC)	61	\$ -	\$ -	\$ -	\$ -	0	\$ -				0.00%	
Order - Vegetation Management (VMGMT)	Vegetation Management (VMGMT)	62	\$ -	\$ -	\$ -	\$ -	0	\$ -				0.00%	
Order - Removal (REM)	Removal (REM)	113782925	\$ -	\$ 145,608	\$ 5,566	\$ 151,174	645	\$ 151,174				0.00%	
WBS Level 5 - Other		A.0000276.120.001.002.04	\$ 0	\$ -	\$ -	\$ -		\$ -					
Indirect Costs			\$ 0	\$ 1,272,333	\$ -	\$ 1,272,333		\$ 1,272,333					
	Risk Reserve		\$ -	\$ 1,227,378	\$ -	\$ 1,227,378	-	\$ 1,227,378				0.00%	
	Escalation		\$ -	\$ 44,955	\$ -	\$ 44,955	-	\$ 44,955				0.00%	
AFUDC (Not included in project totals above)													
	AFUDC			\$ 11,542	\$ -	\$ 11,542	-	\$ 11,542				0.00%	
	Project Total with AFUDC					\$ 6,955,936	(w AFUDC)	\$ 6,955,936					

Note 1: Estimated hours to complete do not account for Contract Construction labor hours, S&LR labor hours, or actual hours to date

Line 0846 Structure Relocation

Area Map: Existing



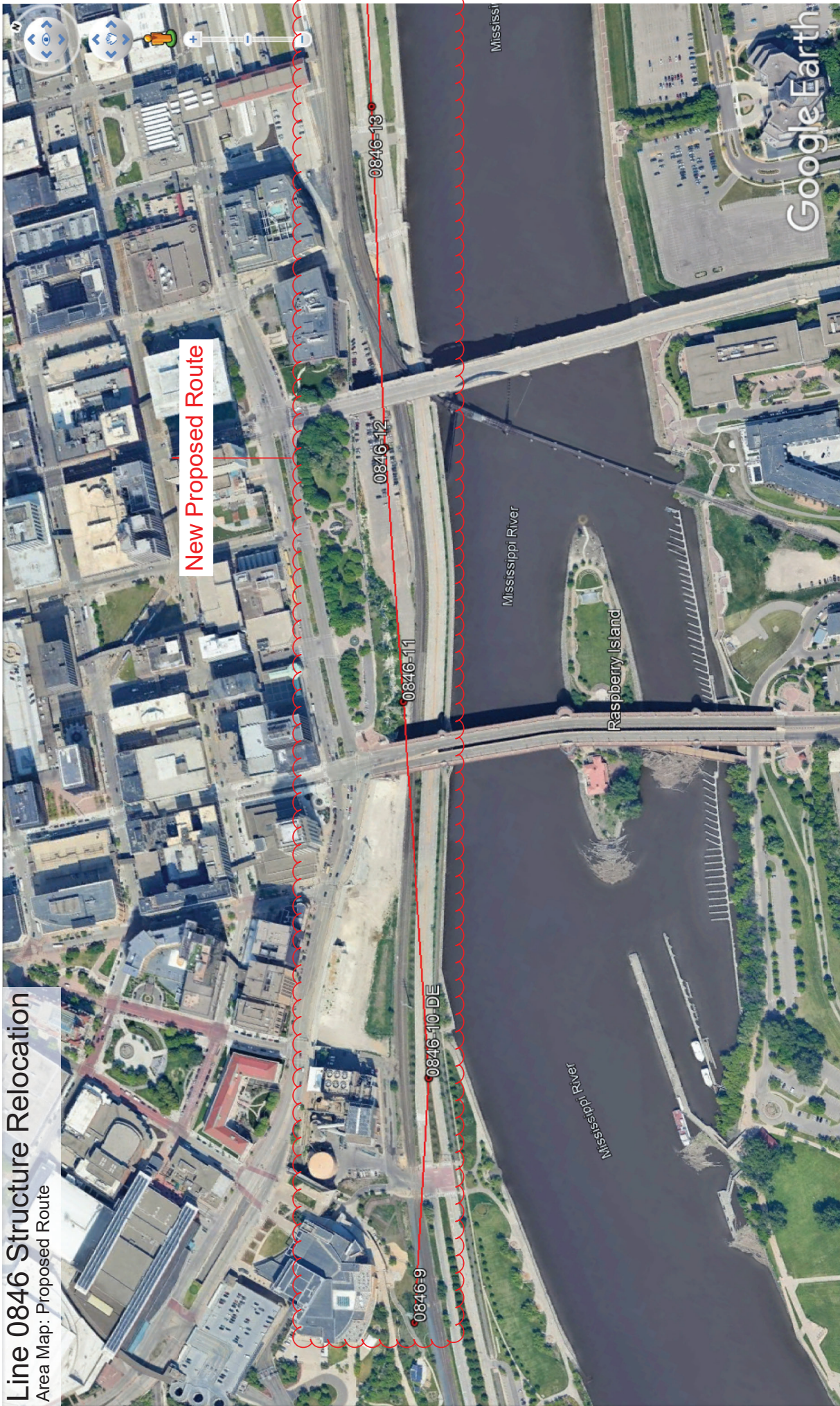
Remove structures 9-13 and replace with self-supporting steel structures.

Existing Structure 0846-12 set in Mississippi River. Barge work will be required to remove.

Google Earth

Line 0846 Structure Relocation

Area Map: Proposed Route



New Proposed Route

0846-9

0846-10-DE

0846-11

0846-12

0846-13

Mississippi River

Raspberry Island

Mississippi River

Google Earth