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Appendices

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Appendix C	Technical Documents in Support of NLX Service Plan
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Appendix D	Detailed Figures
Appendix E	Build Alternative Design Information
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Appendix Q Draft Section 4(f) and Section 6(f) Evaluation

Acronyms and Abbreviations

-A	temporarily flooded
AADT	annual average daily traffic
ACRRA	Anoka County Regional Railroad Authority
ADA	Americans with Disabilities Act
ADT	average daily traffic
ASTM	American Society for Testing and Materials
ATV	all-terrain vehicle
BMP	best management practice(s)
BNSF	BNSF Railway (formerly Burlington Northern Santa Fe Railway)
BWSR	Minnesota Board of Water and Soil Resources
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CO	carbon monoxide
CO ₂ e	carbon dioxide equivalent
CRU	Cultural Resources Unit
CR-X	County Road X
CSAH-X	County State Aid Highway X
CTC	Centralized Traffic Control
CWA	Clean Water Act
dBA	A-weighted sound levels

DDT	dichloro-diphenyl-trichloroethane
DTA	Duluth Transit Authority
DWSMA	Drinking Water Supply Management Area
EA	Environmental Assessment
EAW	Environmental Assessment Worksheet
EIS	Environmental Impact Statement
-EM-	emergent
EPA	United States Environmental Protection Agency
ERW	exceptional resource water
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
-FO-	forested
FONSI	Finding of No Significant Impact
FR	Federal Register
FRA	Federal Railroad Administration
FTA	Federal Transit Authority
GC	General Conformity
GHG	greenhouse gas
GIS	geographic information systems
H ₂ S	hydrogen sulfide
HPDP	Highway Project Development Process
Hz	hertz
I-X	Interstate X

Leq	equivalent sound level
Ldn	day-night average sound level
LOS	Level of Service
LRT	light rail transit
LULC	Land Use and Land Cover [Classification System]
$\mu\text{g}/\text{m}^3$	micrograms per cubic meters air
MBS	Minnesota Biological Survey
MDH	Minnesota Department of Health
MEPA	Minnesota Environmental Policy Act
MEQB	Minnesota Environmental Quality Board
Minn. Stat.	Minnesota Statutes
MLCCS	Minnesota Land Cover Classification System
MN X	Minnesota State Highway X
MnDNR	Minnesota Department of Natural Resources
MnDOT	Minnesota Department of Transportation
MnHPO	Minnesota Historic Preservation Office
MnSHIP	<i>20-Year Minnesota State Highway Investment Plan</i>
MOVES	Motor Vehicle Emission Simulator
MP	milepost
MPCA	Minnesota Pollution Control Agency
mph	miles per hour
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards

NEPA	National Environmental Policy Act
NHIS	Natural Heritage Information System
NLX	Northern Lights Express
NO ₂	nitrogen dioxide
NO _x	nitrogen oxide
Northstar	Northstar Commuter Rail
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSSR	North Shore Scenic Railroad
NWR	National Wildlife Refuge
O ₃	ozone
ORW	outstanding resource water
P-	palustrine
PA	Programmatic Agreement
Pb	lead
PCB	Polychlorinated Biphenyl
PEM1A	Palustrine Emergent Temporarily Flooded [Type 1 wetland]
PFOA	Palustrine Forested Temporarily Flooded [Type 1 wetland]
PM	particulate matter
PM _{2.5}	particulate matter that are 2.5 micrometers or less in diameter
PM ₁₀	particulate matter that are 10 micrometers or less in diameter
ppb	parts per billion

ppm	parts per million
PPV	peak particle velocity
PTC	Positive Train Control
RIMS II	Regional Input-Output Modeling System
rms	root mean square
RRA	St. Louis and Lake Counties Regional Railroad Authority
Section 4(f)	Section 4(f) of the Department of Transportation Act
SEL	sound exposure level
SEP	Stakeholder Engagement Plan
SO ₂	sulfur dioxide
SO _x	sulfur oxide
STIP	State Transportation Improvement Program
SWAA	Source Water Assessment Area
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TCDD	Tetrachlorodibenzo-p-Dioxin [TCDD]
TDA	tire derived aggregate
Tier 1 EA	Tier 1 Service Level Environmental Assessment
Tier 2 EA	Tier 2 Project Level Environmental Assessment
TMDL	Total Maximum Daily Load
TPY	tons per year
TSP	total suspended particulate matter
Uniform Act	Uniform Relocation Assistance and Real Property Acquisition Policies Act

U.S. X	United States Highway X
USACE	United States Army Corps of Engineers
USC	United States Code
U.S. DOT	United States Department of Transportation
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VdB	vibration velocity level, in decibels
VMT	vehicle miles traveled
VOC	volatile organic compound
WCA	Minnesota Wetland Conservation Act
WDNR	Wisconsin Department of Natural Resources
WEPA	Wisconsin Environmental Policy Act
WHPA	Wellhead Protection Area
WIMN	“What’s in My Neighborhood?” [database]
WIS X	Wisconsin State Highway X
WisDOT	Wisconsin Department of Transportation
WisSHPO	Wisconsin State Historic Preservation Office
Wis. Stat.	Wisconsin Statutes
WMA	wildlife management area
WMO	watershed management organization
WPDES	Wisconsin Pollutant Discharge Elimination System