

ENVIRONMENTAL MANAGEMENT PLAN (Design Green Sheet)

SP 2506-83 US 52 Southbound Reconstruction

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			Timber Rattlesnake: photos should be taken and sent to MnDOT OES within 24 hours of the sighting. If snakes are in imminent danger, they shall be allowed to move out of harm's way, otherwise they should be left undisturbed.		OES Wildlife biologist or Project Manager	This is a requirement during the construction stage of the project.		Contractor: TBD Post-Award			
		Migratory Bird Treaty Act (USFWS)	Identify if there any birds and occupied bird nests that could be adversely impacted by the project. Bird nests present are present on Bridges 4762, 9414, and 25009.	Bridge Inventory Records	OES Wildlife biologist or Project Manager			Environmental			
			List required avoidance and minimization measures included in the plan and special provisions. Utilize protection guidance in 'Best Practices for Meeting DNR GP 2004-0001', including installing bridge netting prior to nesting. Before construction starts, bridges must be re-inspected by MnDOT construction staff to verify birds have been successfully deterred from all structures.	Special Provisions	Project Manager			Project Manager			
			Before construction starts, bridges must be re-inspected by MnDOT construction staff to verify birds have been successfully deterred from all structures.		OES Wildlife biologist or Project Manager			MnDOT Construction staff			
VEGETATION AVOIDANCE AND PROTECTION											
		USFWS, MPCA, DNR, BWSR	Identify locations for vegetation avoidance and/or protection, such as an Area of Biodiversity Significance, Native Plant Community, or other Areas of Environmental Sensitivity. <ul style="list-style-type: none"> The segment between Butler Creek (station 275) and County 1 Blvd (Station 420) has nearby areas considered as a Site of Biodiversity Significance. 	NM Review	DNR Liaison			Environmental			
	Revegetation plan, grading plan	Vegetation protection	The Contractor will submit for review a Vegetation Protection & Management Plan. List specific avoidance, protection, and/or enhancement measures in the plan and special provisions. <ul style="list-style-type: none"> For Site of Biodiversity Significance measures, refer to 'State Listed Species (DNR)' above. If staging or construction will occur within 10-ft of a tree identified to be preserved, a review should be done by MnDOT's Roadside Vegetation Management Unit to determine protection measures. Specification 2572.3.A.5 shall be followed for any trees that are to be preserved. Poison Hemlock and Miscanthus have been identified within the project limits. 	DNR GP Authorization Wetland documentation	Project Manager or OES Roadside Veg Management Unit	This is a requirement during the construction stage of the project.		Contractor: TBD Post-Award			
VEGETATION INSTALLATION AND ESTABLISHMENT											
	2575.505 weed spraying, Spec 2575.3 2575.505 Mowing;		The Contractor will submit for review a Vegetation Preservation & Removal Plan. List specific establishment measures or criteria in the plan and special provisions, including: <ul style="list-style-type: none"> Mowing required at 6 week intervals following permanent seeding Weed management plan required, to include equipment cleaning, mowing, and weed spraying Clean root cutting, temporary fencing, soil bridging Native vegetation to be installed on areas of disturbance that are not proposed for mowed turf grass per revegetation plan Seed mixes 36-311, 33-361 	Seeding Manual	Project Manager or OES	This is a requirement during the construction stage of the project.		Contractor: TBD Post-Award			
INVASIVE SPECIES / NOXIOUS WEEDS											

AS	Area of Environmental Sensitivity	DNR	Department of Natural Resources	R	Environmental Review	MDA	Minnesota Department of Agriculture	NPA	National Environmental Policy Act	SWPPP	Storm Water Pollution Prevention Plan
AIS	Aquatic Invasive Species	AU	Environmental Assessment Unit	SM	Erosion & Stormwater Management Unit	MDH	Minnesota Department of Health	NHIS	Natural Heritage Information System	THR	Threatened
ATP	Alternative Transportation Partnership	ND	Endangered	FHWA	Federal Highway Administration	MnDOT	Minnesota Department of Transportation	NPD	National Pollution Discharge Elimination System	USCO	US Corps of Engineers
BWSR	Board of Water and Soil Resources	NM	Early Notification Memo	GP	General Permit	MOU	Memorandum of Understanding	NPS	National Park Service	USFWS	US Fish and Wildlife Service
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		Terrestrial invasive species (MDA) including noxious weeds	All revegetation of disturbed soils will be a native seed mix in those areas that are not proposed for mowed turf grass. During the construction phase of the project, MnDOT Best Management Practices will be used to reduce the spread of invasive species to or from the project location. Native seed mixes will be used for re-vegetation as specified in the Stormwater Pollution Prevention Plan (SWPPP). Contractors will be required to follow all specifications related to re-vegetation and vegetation management as identified in the construction contract as well as submit for review a Noxious Weed Management Plan.		OES Roadside Veg Management Unit	This is a requirement during the construction stage of the project.		Contractor: TBD Post-Award			
OTHER AREAS OF ENVIRONMENTAL SENSITIVITY											
		MnDOT	Snow fence and ditch widened ditch section to be provided at locations identified in MnDOT's Snow Control Study Recommendations.	MnDOT Snow Control Study Recommendations	Blowing and Drifting Snow Coordinator			Environmental & District Snow Fence Coordinator			
		Visual Quality & Aesthetics (NPA)	List any commitments for meeting obligations for Visual Quality & Aesthetics <ul style="list-style-type: none"> Noise walls aesthetics, if applicable. 	Visual Quality Manual	Project Manager or OES			Environmental or Project Manager			
			List procedures as outlined in obligations in the plan and special provisions. <ul style="list-style-type: none"> Visual Quality Manual developed for project 					Project Manager			
		Other nearby public lands or trails (DNR, county, local)	Identify bike, snowmobile, or water trails in the project area: The North Fork Zumbro River is a State Water Trail. Goodhue County snowmobile trail 317 crosses US 52 at County 1 Boulevard and TH 57/County 8 Boulevard.	NM review	Project Manager			Project Manager			
			List procedures for protection and/or enhancement for pedestrian/snowmobiles/boaters/cyclists as outlined in obligations and special provisions. <ul style="list-style-type: none"> Recreational use of the water trail will be allowed during construction. Allow for safe passage of water trail users. Should there be impact that requires the temporary obstruction of the water trail, coordinate with MnDOT and MnDNR to alert the general public that conditions are unsafe. Post construction warnings at nearby public access points and on the North Fork Zumbro River trail website. 		Project Manager			Project Manager			
		Aquifer protection (MDH)	Portions of the project near Zumbro are within Wellhead Protection Area 94001, for which a Wellhead Protection Plan has been developed.	AW	OES Environmental Investigation Unit			Environmental			
			Construction activities within the Wellhead Protection Area must be addressed in accordance with the MDH rules per Minnesota Administrative Rules Chapter 4725, Wells and Borings.		Project Manager			Project Manager			
CONTAMINATED MATERIALS											
		MPCA, MDA,	An interchange-specific Modified Phase I Environmental Site Assessment 16 was completed in May 2019 for the segment of TH 52 within Hader, and a corridor-wide Environmental Review 17 was completed in November 2019 for the remaining alignment within the TH 52 Improvement Design-Build project. These reports identified six high	Phase I & II Reports	MnDOT Contaminated Materials			MnDOT Environmental			

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			risk sites and 66 medium risk sites within the project corridor. Per the recommendation in both reports, a Phase II Drilling Investigation was completed in September 2019 to investigate areas where identified sites of elevated concern coincide with potential construction and right-of-way acquisition. When available, the results of the Phase II Drilling Investigation will be summarized in Book 2, Section 4 of the Design-Build contract procurement documents. An Environmental Consultant will be retained by MnDOT to provide construction monitoring oversight to properly manage known and unknown contaminated soil and/or groundwater, including the debris encountered in the Phase II, encountered on new or existing MnDOT ROW.		Management Team (CMMT)							
		Contaminated Materials	The Contractor will submit for review a Contaminated Materials Management Plan & Addendum and a Contaminated Materials Investigation Work Plan including areas of known contamination, training, testing, monitoring, and management of the material. Special provisions will be developed for properly handling contaminated soil and/or groundwater encountered during construction in accordance with all applicable state and federal regulations. Best management practices will be used to minimize the chance of hazardous waste spills during construction. <ul style="list-style-type: none"> If a spill were to take place during construction, appropriate action to remedy the situation will be taken immediately in accordance with MPCA guidelines and regulations. Any contaminated spills or leaks that occur during construction will be the responsibility of the contractor, who will notify the Duty Officer and work with the MPCA to contain and remediate contaminated soil/materials in accordance with state and federal standards. Any contaminated soil removed on site will be disposed of in a MPCA permitted landfill. 			This is a requirement during the Construction stage of the project.		Contractor: TBD Post-Award				
REGULATED MATERIALS												
		MPCA, MDH	The following Regulated Materials have been noted as being present on bridges associated with the project: <ul style="list-style-type: none"> Bridge 9414 (US 52 SB over the North Fork Zumbro River) – treated wood. Bridge 9662 (MN 60 over US 52) – approximately 1,100 square feet of loose, powdery and possibly peeling lead paint on the top surface of the top beam flange; lead sheeting at bearing assemblies; treated wood. Bridge 9659 (US 52 SB over MN 60) - approximately 790 square feet of loose, powdery and possibly peeling lead paint on the top surface of the top beam flange; lead sheeting at bearing assemblies; treated wood; bituminous felt that contains PCBs Bridge 9660 (US 52 NB over MN 60) - approximately 660 square feet of loose, powdery and possibly peeling lead paint on the top surface of the top beam flange; lead sheeting at bearing assemblies; treated wood; bituminous felt that contains PCBs. <p>In addition, 3-ply joint waterproofing may be present on the abutments of each of the bridges listed above. If found to be present during construction, District staff to sample and test for asbestos.</p>	NM review	OES IU Or Project Manager	Documentation that the waste was handled properly must be obtained and kept in the project file for future reference.		Environmental Design				
		MPCA, MDH	Treated wood: contractor to separate wood guardrail spacer blocks and dispose of in MPCA-permitted sanitary or industrial waste landfill. Lead Paint on Bridge:			This is a requirement during the Construction stage of the project.		Contractor: TBD Post-Award				

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			<ul style="list-style-type: none"> - must be either encapsulated or removed/contained prior to the beams being disturbed. - Just-in-time training to be conducted within 60 days of project. 									
		MPCA, MDH	Contractor to submit for review a Regulated Materials Management Plan and Addendum with proper management of materials in accordance with MnDOT special provisions. Include the following: <ul style="list-style-type: none"> • Materials must be properly managed during bridge deck work. • Documentation that the waste was handled properly must be kept in the project file for future reference. • All regulated solid wastes generated by construction of the proposed project will be disposed of properly in a permitted, licensed solid waste facility or a similarly regulated facility elsewhere. • Project demolition of concrete, asphalt and other potentially recyclable construction materials will be directed to the appropriate storage, crushing or renovation facility for recycling or reuse. 			This is a requirement during the Construction stage of the project.		Contractor: TBD Post-Award				
		MPCA, MDH	Contractor to submit for review a Concrete Management Plan for all concrete work associated with the project listing appropriate BMP measures to ensure no concrete operations will cause harm to the environment, including, but not limited to: <ul style="list-style-type: none"> • Concrete washout procedures and locations • Concrete finishing techniques • Solid & liquid waste disposal procedures 			This is a requirement during the Construction stage of the project.		Contractor: TBD Post-Award				
		MPCA, MDH	Contractor to submit for review a Spill Containment Plan and Notification List to detail the Contractor's processes and plans to prevent, contain, clean up, remove, dispose of, and mitigate all spills, and notify affected parties. Preventive measures include: <ul style="list-style-type: none"> • Concrete truck washout areas, designated equipment, maintenance pads, secondary containment, and trained spill response staff. • Notification includes Self Reporting procedures and the submittal of the State's Duty Officer report number to the MnDOT CM. 			This is a requirement during the Construction stage of the project.		Contractor: TBD Post-Award				
		MPCA, MDH	<ul style="list-style-type: none"> • All solid wastes generated by construction of the proposed project will be disposed of properly in a permitted, licensed solid waste facility. • Project demolition of concrete, asphalt, and other potentially recyclable construction materials will be directed to the appropriate storage, crushing, or renovation facility for recycling. • Any green-treated wood will be documented and disposed of in a MPCA permitted Mixed Municipal Solid Waste (sanitary) landfill or Industrial Waste Landfill. 			This is a requirement during the Construction stage of the project.		Contractor: TBD Post-Award				

HISTORIC PROPERTIES / CULTURAL RESOURCES

	National Historical Preservation (Section 106)	Section 106 review is anticipated as part of the USCOE permitting process. There is one known Euro-American burial site, 21GD0296 (Loken family burials), immediately adjacent to the east side of NB US 52 right-of-way near Sta. 677. The proposed construction at this location is within right-of-way. MnDOT CRU determined that the proposed undertaking has not potential to affect properties listed in the State or National Registers of Historic Places or to affect known or suspected archaeological sites.	NM review	OES Cultural Resources Unit		environmental					
		List procedures for protection and/or enhancement for as outlined in obligations and special provisions. <ul style="list-style-type: none"> • establishment of a protective buffer around these burials in consultation with the Office of the State Archaeologist (OSA) is recommended in order to avoid inadvertent disturbance during construction. • Submit for review any alteration of the plan submitted as part of the NM dated August 2, 2018. 		OES Cultural Resources Unit (CRU) Or Project Manager	This is a requirement during the Construction stage of the project.	Contractor: TBD Post-Award					

SECTION 4(f)/6(f) PROPERTIES

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		Section 4(f) Properties (FHWA)	Section 4(f) review is anticipated as part of the USCOE permitting process.		OES Environment Assessment Unit			environmental			
			Summarize required avoidance and/or measures to minimize harm included in the plan and special provisions. example: • Minimization measures: parks, wildlife or recreational coordination items		Project Manager or OES AU			Project Manager or environmental			
		Section 6(f) Properties (DNR, NPS)	Section 6(f) review is anticipated as part of the USCOE permitting process.		OES Environment Assessment Unit			environmental			
			List required avoidance and/or measures to minimize harm included in the plan and special provisions. example: • Minimization measures: parks, wildlife or recreational coordination items; e.g. getting replacement land of equivalent use and function		Project Manager			Project Manager			
FARMLAND IMPACTS											
		NRCS/ MN Dept of Ag/ Farmland Protection Policy Act	The project will require acquisition of an estimated 45 acres of right of way from 14 agricultural parcels. List required avoidance and/or measures to minimize harm included in the plan and special provisions. State funds only. Department of Agricultural to review project in AW comment period.	AW	OES Environment Assessment			environmental			
AIR AND NOISE CONSTRUCTION IMPACTS											
		Air (Dust and Odors)	Dust generated during construction will be minimized through standard dust control measures such as applying water to exposed soils and limiting the extent and duration of exposed soil conditions. Construction contractors will be required to control dust and other airborne particulates in accordance with MnDOT specifications. During construction, particulate emissions will temporarily increase due to the generation of fugitive dust associated with activities such as grading and other soil disturbance. The following dust control measures will be undertaken as necessary: <ul style="list-style-type: none"> • Minimize the duration and extent of areas being exposed or regraded at any one time. • Apply water on construction areas and haul roads, in particular during periods of high wind or high levels of construction activity. • Minimize the use of vehicles on unpaved surfaces when feasible. • Sweep paved access roads, parking areas, and staging areas in the construction zone and adjacent areas that experience soil tracking from the construction zone. • Hydroseed or apply soil stabilizers to inactive construction areas and cover stockpiles as required under the project's MPCA NPDES permit and Stormwater Pollution Prevention Plan. • Limit traffic speeds on unpaved roads in the project area to 15 miles per hour. Odors could be generated by exhaust from diesel engines on equipment utilized during construction. All equipment will be required to be properly equipped to control odor emissions.	AW	OES Environment Modeling & Testing Unit			Project Manager			

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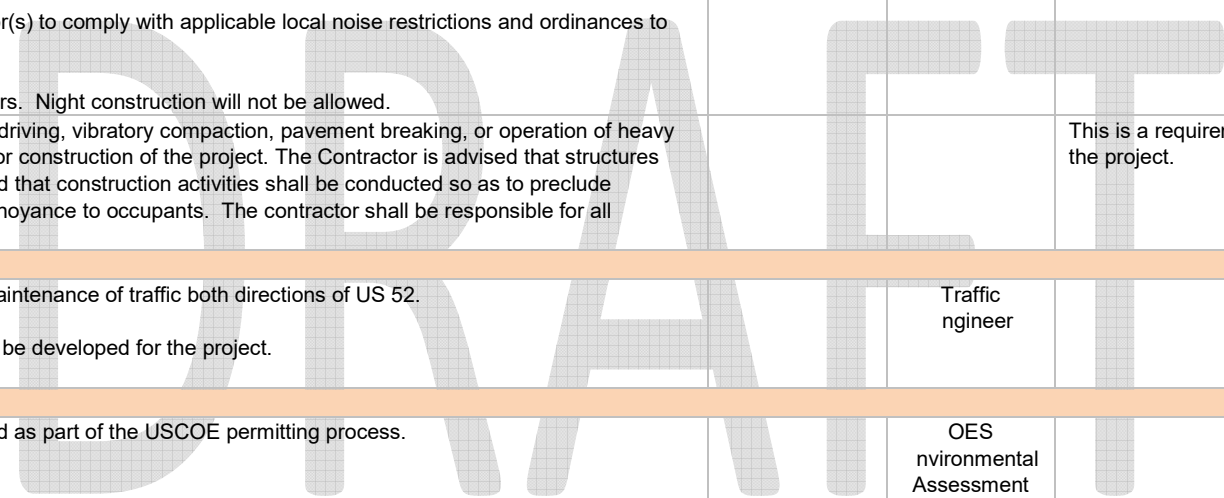
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		Noise Pollution Control (FHWA)	<p>Modeled traffic noise identified three locations where barriers were found to meet MnDOT's cost effectiveness and reasonableness criteria. The locations where noise walls are proposed are located near Zumbrota along the east side of US 52, beginning at the southeast quadrant of the US 52 and TH 60/W 5th Street interchange and spreading to the south. The traffic noise analysis for the three proposed noise walls (Barrier FF, Barrier LL, and Barrier QQ) is based upon preliminary design studies completed at the time the noise analysis was performed. These barriers are proposed for the project and will move forward to collect the viewpoints of the benefited receptors.</p> <p>List procedures as outlined in obligations and special provisions:</p> <p>It is MnDOT's practice to require contractor(s) to comply with applicable local noise restrictions and ordinances to the extent that it is reasonable.</p> <p>Construction will be limited to daytime hours. Night construction will not be allowed.</p>	MnDOT Noise Policy	OES Environmental Modeling & Testing Unit			Environmental				
		Southbound Vibrations	Vibration producing activities such as pile driving, vibratory compaction, pavement breaking, or operation of heavy construction equipment may be required for construction of the project. The Contractor is advised that structures are located close to the proposed work and that construction activities shall be conducted so as to preclude damage to these structures and undue annoyance to occupants. The contractor shall be responsible for all damage caused by their activities.			This is a requirement during the Construction stage of the project.		Contractor: TBD Post-Award				
TRAFFIC DISRUPTION												
		Traffic Management Plans	<p>Construction will be phased to allow for maintenance of traffic both directions of US 52.</p> <p>A Preliminary Traffic Management Plan to be developed for the project.</p>		Traffic engineer			Project Manager				
ENVIRONMENTAL JUSTICE												
		Executive Order 12898	Environmental Justice review is anticipated as part of the USCOE permitting process.		OES Environmental Assessment Unit			Environmental				
ACCESSIBILITY												
			Bicycle or pedestrian facilities implemented within/adjacent to the project area will comply with Americans with Disabilities Act.		ADA Design & Construction			Project Manager				
BICYCLE/PEDESTRIAN												
			<p>Identify any commitments or mitigation identified to preserve or enhance bicycle/pedestrian facilities.</p> <p>To be determined with further consultation with OTAT.</p>		Transit & Active Transportation			Designer/ Project Manager				



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