

# WisDOT Transportation Management Plan

TMP Form Version 2.0  
TMP ID: 7863 - Approved 60%

## Section 1A - Project Information

**TMP Type:** 2  
**Region:** NE  
**Local Program:** No  
**Created Comment:**  
**Federal Oversight:** No  
**Design ID:** 4430-21-00  
**Project Title:** STURGEON BAY - EGG HARBOR  
**County:** DOOR  
**Highway:** WIS 42  
**Construction Year:** 2023  
**Mainline AADT:** 10110  
**Crossroad AADT:**

*No Construction IDs listed.*

## Section 1B - Project Impacts:

**Anticipated Begin:** 04/03/2023  
**Anticipated End:** 05/26/2023  
**OSOW Route:** No  
**OSOW Type:**

## Section 1C - Locations:

### Highway Locations

**Location Number:** 1  
**Begin County:** DOOR  
**End County:** DOOR  
**Highway:** WIS 42 NB  
**Closure Type:** Mainline  
**Begin Landmark:** EGG HARBOR RD  
**Direction From:** Upstream from landmark  
**Distance From:** 0.16 mile(s)  
**End Landmark:** WIS 42N (END DIVIDED)  
**Direction From:** At Landmark  
**Distance From:** 0.0 mile(s)

**Location Number:** 2  
**Begin County:** DOOR  
**End County:** DOOR  
**Highway:** WIS 42 SB  
**Closure Type:** Mainline  
**Begin Landmark:** WIS 42 SB (BEGIN DIVIDED)  
**Direction From:** At Landmark  
**Distance From:** 0.0 mile(s)  
**End Landmark:** EGG HARBOR RD  
**Direction From:** Downstream from landmark

Distance From: 0.16 mile(s)

#### Local Road Locations

*No local road locations listed.*

## Section 2 - Project Description

#### Brief description of work activities:

Asphalt milling, base aggregate dense shouldering, concrete base SHES, asphalt overlay, concrete repair replacement, guardrail installation and replacement, and pavement marking.

## Section 3 - Existing Conditions

#### Within the project limits, are there:

**Pedestrians:** No  
**Bicyclists:** No  
**Transit Service:** No  
**Railroads:** No  
**Airports:** No  
**Commercial Waterways:** No  
**Controlled intersections:** Yes  
**Dynamic Message Boards:** No

#### What are the current traffic conditions:

**Posted speed limit (mph):** 45  
**Normal travel time (min):** 2  
**Current capacity (vphpl):** 1400  
**Truck %:** 14  
**Queueing present:** No  
**Queueing when:**

## Section 4 - Work Zone Strategies

List of chosen strategies:

Strategy	Justification/Comment	Cost
Shoulder Closure	Any work that does not require a travel lane closure will be allowed to be completed under shoulder closures. Expected operations include shouldering, guardrail installation, guardrail grading, culvert pipe work, curb and gutter replacement, select pavement marking, and restoration items. Costs mainly consist of drums, signing, and personnel.	\$20000
Night work	Intersections on the detour route are unable to accommodate large trucks (WB-62) without encroaching into opposite travel lanes. To reduce the amount of traffic using the detour route and better allow large trucks to use opposing lanes at intersections the work will be completed between 6PM-6AM. Cost is from higher unit prices expected due to night work.	\$190000
Lane Rental	A lane rental fee will be administered for impacts to the travel lanes outside of nightwork hours. Lane rental fees will be charged at \$200 per hour for each stage and detour.	\$0
Rapid Cure Materials	Special high early strength (SHES) concrete will be used for base patching nightwork. It's estimated that unit price for concrete base will increase by \$60-\$80/SY for SHES.	\$85000
Detour Route	A detour route will be in place for nightwork when the roadway is closed. Costs include detour signs, barricades, drums, mobilizations, detour pavement marking, and detour shoulder aggregate.	\$105000
Work hour restrictions for peak travel	Based on traffic counts from site 150470 (Bayview Bridge) AADT is at or exceeds 600 veh/hr from 6AM-6PM. It is also expected that the majority of large truck traffic will occur within this timeframe. Night closures will not be allowed on Fridays or Saturday due to work zone safety concerns(impaired drivers) and events.	\$0

Temporary Traffic Control Signs	Signs to inform public of road work and closures.	\$10000
Portable Changeable Message Signs (PCMS)	Prior to the beginning of project, prior to nighttime roadway closures, and prior to changing intersection access of Gordon Rd (County BB)	\$10000

Cost of chosen strategies (sum of strategy costs): \$420000

## Section 5 - Work Zone Impacts

**Describe how access to traffic generators (businesses, schools, etc.) and everyday services will be maintained:**

Access to traffic generators will be maintained at all times. The roadway will remain open to traffic during daytime hours. Affected properties will be informed of the nighttime closures and local access will continue to be maintained within the closure.

**Are there anticipated traffic impacts from the proposed project on other road/routes in the region/corridor?**

Due to STH 42 closures and detours occurring at night when traffic counts are negligible, no impacts to detour routes are expected.

**Does the project affect other regions/states?**

No.

**List holidays or major special events that occur during the project:**

Holiday/Special Event	Begin Date	End Date
Memorial Day	05/26/2023	05/30/2023
Independence Day	06/30/2023	07/10/2023

**How will traffic disruptions be minimized during listed events and holidays?**

The contractor will not be allowed to perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 42 traffic. The contractor will need to entirely clear the traveled way and shoulders of STH 42 from equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic.

## Section 6 - Traffic Analysis

**What is the anticipated travel delay during the project for each impacted roadway?**

#	Location Description	WZ Capacity (vphpl)	Delay (min)	Queue (mi)	Delay Cause
1	WIS 42 NB from EGG HARBOR RD to WIS 42N (END DIVIDED)	1400	14	0.01	Full closure with detour
2	WIS 42 SB from WIS 42 SB (BEGIN DIVIDED) to EGG HARBOR RD	1400	14	0.01	Full closure with detour

**How was the work zone capacity determined?**

During daytime hours the roadway will remain open to traffic. Nighttime closures will have a detour in place that will delay travel times but not include a queue.

## Section 6+ - Lane Closure Hours

**a) Are there restrictions on when lane closures are allowed?**

Yes

**b) What hours/days are lane closures permitted?**

Closures will be allowed from 6PM to 6AM, Sunday through Thursday nights. Lane rental fees will be assessed at \$200 per hour. Calculations for the lane rental fees can be seen in the attached Work Zone Impact Assessment.

**c) If the project is reporting zero delay, show the delay incurred if the lane closures hours identified are not followed:**

n/a

**Section 6+ - Detour Route**

**Detour Information**

Detour Route	Normal Travel Time (min)	Detour Travel Time (min)	Detour Distance (mi)
Detour A: CTH BB and CTH HH	1	14	10.0
Detour B: Egg Harbor Rd, Old Hwy Rd, and CTH BB	1	2	1.0

**Section 6+ - Intersection/Temporary Signal**

**If existing signals are impacted by the project, will there be any changes? If so, please describe any changes that will be made to the signals. If using temporary signals for one-lane two-way operations, how will the signals be timed? In either case, were pedestrian movements considered?**

None proposed.

**Section 6+ - Road User Costs**

**What are the road user costs for the project?**

Road user costs for the project: \$28,800. Lane rental fees: \$200/Hr. See work zone impact analysis.

**Section 7 - Public Information Strategies**

List of chosen strategies:

Strategy	Audience	Comments
Brochures and Mailers	General Public and businesses.	Mailer will be sent to property owners within the project limits and local officials.
Press Releases/Media Alerts		
Coordination with Media/Schools/Businesses/Emergency Services	School Districts and Emergency Services	School Districts and Emergency Services will be notified prior to construction and invited to the PIM prior to construction
511 Traveler Information Website (project website, lane closures, motorist information, public information)	General public and businesses.	Project will be included on the WisDOT's 511 website. A project specific website will also be created detailing the project and expected traffic impacts.
Freight travel information/Lane Closure System (LCS)	Truck traffic and oversize loads.	Traffic impacts, work zone travel lane widths, and closures will be updated by project staff.
Region Weekly Construction Update	Municipalities, affected businesses,	Project staff will create a weekly update of completed and proposed work and traffic impacts.

## Section 8 - Incident Management Strategies

List of chosen strategies:

Strategy	Comments	Cost
Standard RIMC Process	None.	\$0

Cost of chosen strategies (sum of strategy costs): \$0

## Section 9 - Staging Plans

Briefly describe the staging planned for maintaining traffic:

Stage 1: Guardrail Grading/Installation at intersection of STH 42 and Gordon Rd/County BB. Stage 2: Concrete and HMA Paving as night work. Shouldering under shoulder closer/lane shifts.

Vehicle Size Restrictions:

#	Location Description	Min lane width to maintain (ft)	Min lane width plus shoulder (ft)	Min height (ft)	Min shy distance to CBTP (ft)
1	WIS 42 NB from EGG HARBOR RD to WIS 42N (END DIVIDED)	11	12		
2	WIS 42 SB from WIS 42 SB (BEGIN DIVIDED) to EGG HARBOR RD	11	12		

## Attachments

### Sectional Attachments

44302100\_WZIA\_Draft5 with Attachments.pdf  
 Planning level traffic forecast.pdf  
 Detour - 44302100.pdf  
 Public Involvement Plan\_44302100.docx  
 8. Communication List.pdf

## Approvals

Approval 60%

Signature Role	Signatory	Signed On
Project Manager (PM)	Paul Brauer	08/09/2021 03:35 PM
Regional Traffic (RT)	Joshua Falk	08/16/2021 02:44 PM
Bureau of Traffic Operations (BTO)	Andrew Heidtke	08/17/2021 09:09 AM
Regional Project Development Chief (RPDC)	Tom Buchholz	08/24/2021 01:40 PM

