

## **Scoping Meeting Agenda**

**6639-05-30/60  
Mauston – Necedah  
(Colfax St. to STH 80)  
STH 58  
Juneau County**

**February 28, 2018  
9 AM, Room B-19/20**

### **Purpose & Need**

The purpose of this project is to preserve and improve this STH 58 roadway segment. This section of STH 58, that runs south to north, is a Principal Arterial roadway that connects smaller communities to larger cities. This proposed rehabilitation of this roadway will help increase the longevity of the roadway and the safety for the traveling public.

The project is needed due to the roadway surface is aged, rutted and in need of treatment to extend its service life. The proposed improvement is to mill and overlay as well as replace guardrail end terminals as needed. No structure work included in the project.

### **Basic Project Information**

Limits:	Colfax Street to CTH 80
Program Level Estimate:	\$4,508,000 (w/o Engineering)
PS&E Date:	May. 1, 2022 <b>Advanceable PS&amp;E: May 1, 2020</b>
Let Date:	Nov. 8, 2022
Roadway	STH 58
Current ADT (year):	2,500 – 6,700 (2016)
Design ADT (year):	3,200 – 8,800 (2043)
Truck Percentage:	9.2% - 18.2%
Posted Speed Limit(s):	55 MPH
Design Speed:	60 MPH
Classification:	Principal Arterial
Design Class:	A2
Project Length:	11.25 miles
Structure Work:	None
Project Directory:	<a href="\\lax31fp2\p3projects\State\s58\66390530\Planning\Scope">\\lax31fp2\p3projects\State\s58\66390530\Planning\Scope</a>

## **Existing Conditions (Facility)**

Project Location, Existing Cross-Section, Meta-Manager Analysis: See appendix

### **DESIGN:**

- Existing Cross- Section consists of the following:
  - 2-12' asphaltic driving lane
  - 6' shoulders (Varies: 5' paved & 1' CABC Shldrs; 3' Paved & 3' CABC Shldrs.)
- All highway intersections have curbed radiuses.

### **PAVEMENT AND SOILS:**

Existing Pavement Structure:

- 4.5" Asphaltic Concrete Pavement, Type E-1 over
- 3.5" Pulverized & Relayed old asphaltic pavement over
- 6.5" to 8.25" of CABC

Existing Soils condition:

### **MAINTENANCE:**

- Roadway:
  - Cross drain pipes present on this section of roadway.
  - Concrete curb & gutter at intersection radiuses.
- Bridge:

Structure Data/History:

NUMBER	FEATURE	TYPE	WORK PERFORMED	Vertical Clearance	Inventory Rating
B-29-038	Over IH 90/94	Cont. Steel, Deck Girder	<u>1964</u> New Structure <u>1985</u> Overlay-Concrete (0029-44-21); Painting <u>1999</u> Repair Substructure (1010-00-60) <u>2000</u> Painting (5882-02-70) <u>2008</u> New Deck (1016-08-72) <u>2013</u> Add Pier Crash Wall (1016-00-72) <u>2015</u> Misc. Preventative Maintenance (0549-29-61)	Cardinal Dir.: 17.1' (EB)  Non-Cardinal Dir.: 16.06' (WB)	HS16
B-29-089	Over Little Yellow River	Concrete Box Culvert (Twin Cell)	1990 New Structure (6639-00-71)	-----	HS20

## Roadway Accommodation Data

NUMBER	Number of Lanes	Deck Width	Bridge Roadway Width	Total Length	Number of Spans	Deck Surface	SR	RS
B-29-038	2	38.5'	36.0'	297.8'	4	Concrete	88.8	
B-29-089	2	-----	44.0'	25.3'	2 Cell	-----	96.4	

NUMBER	Condition Description
B-29-038	
B-29-089	

## Approach Roadway Information

NUMBER	Approach Roadway Surface	Approach Roadway Width	Approach Pavement Width	Miscellaneous Information
B-29-038	Asphaltic	30'	22'	
B-29-089	Asphaltic	44.0'	-----	

## TRAFFIC:

- Posted Speed in this project consists of:
  - 35 MPH from Colfax to Nazarene Drive.
  - 45 MPH from Nazarene Drive for 0.5 miles
  - 55 MPH for rest of project.
- The intersections are Stop Sign controlled on the Minor roads.

## SAFETY SCREENING:

### Controlling Criteria:

#### Existing Design Controls

- Design Speed: 60 mph; 40 mph; 30 mph
  - Posted at 55 mph Apply criteria in FDM 11-10-1.5
  - Posted at 45 mph (Town of Ida); Apply criteria in FDM 11-10-1.5
- Lane Width: 12-Foot
  - Meets criteria in FDM 11-15, Attachment 1.2, Page 1 (Level Terrain)
- Shoulder Width: 10-Foot, 3-Foot paved
  - Meets criteria in FDM 11-15, Attachment 1.2, Page 1 (Level Terrain)
  - Meets criteria in FDM 11-15-1.4, and 11-15, Attachment 1.5 (shoulder width) (paved shoulders)
- Horizontal Curve Radius: See Appendix
  - (FDM11-10-5.2)
- Super Elevation Rate:  $e(\max) = 6\%$ 
  - (FDM 11-10-5.3)
- Stopping Sight Distance:
  - FDM 11-10 Attachment 5.1, 60 mph is 570'
    - Crest Curve; FDM 11-10 Attachment 5.4
    - Sag Curve; FDM 11-10 Attachment 5.6

- Drainage issue, K > 167, FDM 11-10-5.4.2
- Maximum Grade: 6.12%
  - (FDM 11-10-5.4.1, Attachment 5.3, Level Terrain)
- Cross Slope: 0.02% Typical
  - Meets criteria in FDM 11-15-1.3
- Vertical Clearance:

#### **UTILITIES:**

- Utility poles located on either side of the roadway for portions at a time.

#### **RIGHT OF WAY:**

- The existing Right of Way for both sides varies from 40' to 50'. (As-Built: s0588(04)\_1958)

#### **RAILROAD/AERONAUTICAL:**

- The project area is within a 5-mile radius of the Mauston-New Lisbon Union Airport and Necedah Airport.
- There is no railroad line that crosses the project area.

#### **ENVIRONMENTAL:**

- Majority of land usage abutting the project are wooded marshy areas.
- Farms and residential homes are spread out along this corridor of STH 58.

#### **PLANNING:**

- Connecting highway – No (City of Mauston)
- City of Mauston Limits – City Limits ends at the IH90/94 line. Approx. 0.30 miles northerly from Colfax St.
- Designated NHS Route – Yes
- State OSOW Route(s) – No
- State OSOW High Clearance Route – No
- Long Truck Route:
  - Not a US Long Truck Route
  - Not a Wisconsin Long Truck Route
- Bicycle Route – Not designated state bike route
  - The section of STH 58, (from City of Mauston to 47<sup>th</sup> St.; CTH G (south) to CTH A; CTH G (north to STH 80 are classified as Moderate Condition for bicyclists); (Section from 47<sup>th</sup> Street to CTH G (south) and 38<sup>th</sup> St. to CTH G (north) are classified as Undesirable (High Volume) condition for bicyclists).

#### **PROJECTS IN THE AREA:**

- **Project 6639-05-30: Adv. Ps&E date – 5/1/2020**

Scheduled Work:

2019 Construction	
Proj. ID 1430-02-74 Mauston – I39 (Juneau Co. Ln. to STH 13) STH 82 Adams County	Resurface

2020 Construction	
Proj. ID 1430-06-60 Mauston – IH39 (Powers Road to Wisconsin River) STH 82 Juneau County	Mill & Overlay (Advanceable Date)
Proj. ID 5530-03-71 Hillsboro – New Lisbon (South City Limit to USH 12) STH 80 Juneau County	Reconstruction
Proj. ID 5530-02-71 Hillsboro – New Lisbon (Liberty Street to STH 82) STH 80 Juneau County	Recondition
<b>Proj. ID 6639-00-72</b> <b>Mauston – Necedah</b> <b>(CTH G Intersection (6 Miles North of IH90/94))</b> <b>STH 58</b> <b>Juneau County</b>	<b>Recondition</b> <b>(HSIP Funded)</b>
2022 Construction	
Proj. ID 1016-05-75 Tomah – Mauston (STH 82 Interchange) IH90/94 Juneau County	Reconstruction
2023 Construction	
Proj. ID 1430-06-60 Mauston – IH 39 (Powers Road to Wisconsin River) STH 82 Juneau County	Mill & Overlay (Scheduled Date)
Proj. ID 1017-01-60 Tomah – Camp Douglas, EB (USH 12 to CTH C) IH90/94 Monroe	Mill & Overlay

## **Proposed Improvements (Work):**

### **DESIGN:**

#### Proposed Work:

- Improvement Concept: RSRF 30 – Resurfacing (Overlay  $\geq$  4 inches)
- 4.5” Mill and Overlay
  - 4.5” Mill of Driving Lane (12’) & Shoulder (3-5’)
  - Overlay with 4.5” of HMA Pavement on Driving Lane (12’) & Shoulder (3-5’)
  - Gravel for shoulder (1-3’)
- Proposed Typical Section:
  - 2-12’ driving lanes
  - 6’ shoulders of which 3’ is paved & 3’ Base Course for shoulder.
- **Coordination with HSIP project on STH 58:**
  - **Proj. ID 6639-00-72**  
**Mauston – Necedah**  
**(CTH G Intersection (6 mi N IH90))**  
**STH 58**  
**Juneau County**  
  
**PS&E: 8/1/2019**  
**LET: 12/2019**  
○ Thru the HSIP section, the southbound lane will be done on this project.

Comments:

### **PAVEMENT AND SOILS:**

- Pavement Structure: See comments above.
- Soils:
  - Does Soil Borings need to be scheduled? (In house or consultant)

Comments:

### TRAFFIC:

- Traffic Control during Construction:
  - Road Closure – Detour?
  - Flagging Operations?

Comments:

### MAINTENANCE:

Roadway:

- Pipe work?
- Curb & Gutter repairs?

Structure:

- Box culvert and/or Bridge repairs?

Comments:

### SAFETY SCREENING:

- Evaluating Controlling Criteria's:
  - Several deficient vertical curves. The deficiencies are not a contributing factor for crashes.
  - Eligible for Programmatic exceptions.

Comments:

### UTILITIES:

- Utility conflicts not anticipated
- Utility concern with timeline with the 1077's and 1078's.
  - Keep updating with Utility section personnel so timely adjustments can be made.

Comments:

RIGHT OF WAY:

- No new Right of Way anticipated.
- Ho Chunk Nation has parcels of land abutting the project.

Comments:

RAILROAD/AERONAUTICAL:

- Aeronautical coordination anticipated.
- No Railroad coordination anticipated.

Comments:

ENVIRONMENTAL:

- As of Monday, January 22, 2018, Project ID 6639-05-30 is only cleared for History on the screening list.
- Anticipate environmental document type CEC (Categorical Exclusion Checklist)
- Floodplain: areas labeled as “Area of Minimal Flood Hazard” on FEMA maps.

Comments:

PLANNING:

- 3R Project; Funding 80% Federal, 20% State
- Scheduling:
  - Begin Design:
  - Env. Doc.:
  - DSR:
  - R/W Plat:
  - R/E Acquisition Start:
  - R/E Acquisition End:
  - 1078 Start:
  - 1078 End:

Comments:



SURVEY AND MAPPING:

- Project to be consulted out.
- Survey needs to be done by consultants.

Comments:

**Federal Oversight:** Yes/No

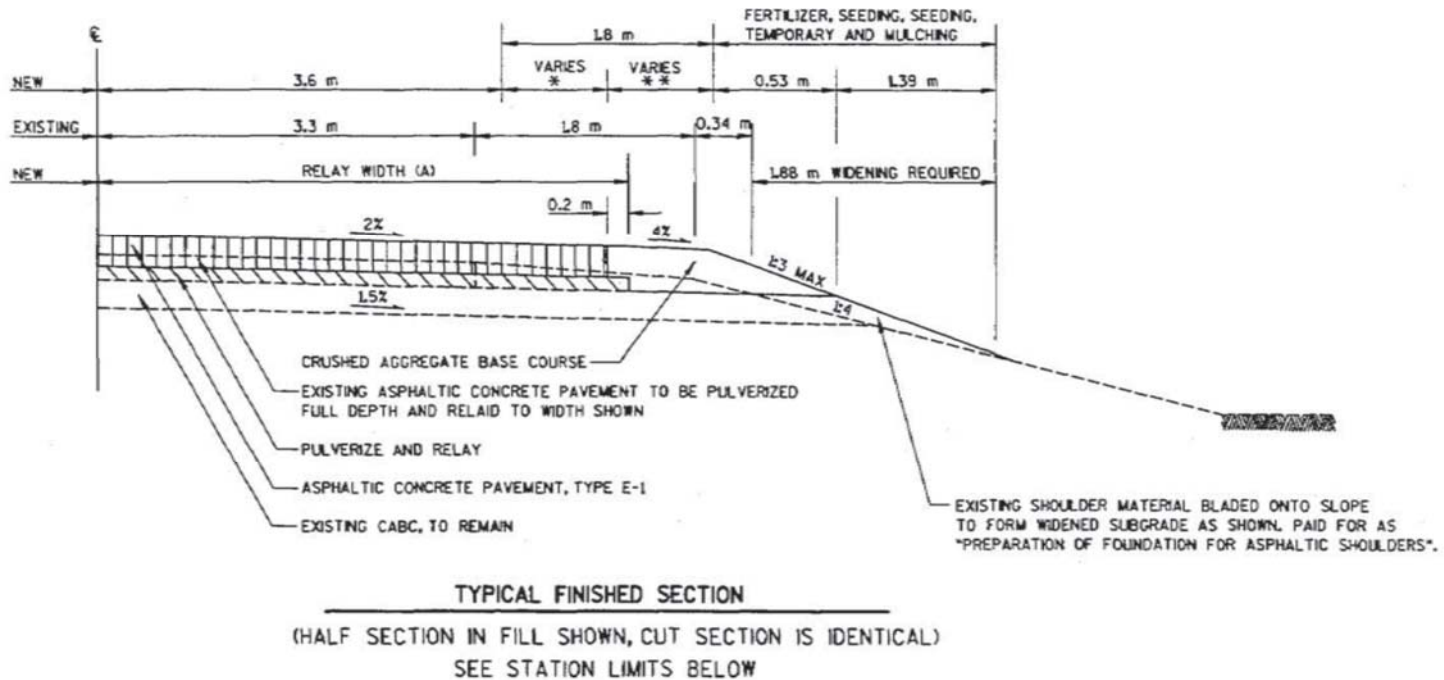
**Other:**

## Appendix

### 1) Project Location



## 2) Existing Cross-Sections:



## 3) Meta-Manager Analysis:

		Step 1 Meta-Manager Analysis							Step 2 Geometric	
PDP Segments			Improvement Flag?	Crash Type Flag?					Substandard Geometrics?	Contributing Cause?
RP From:	RP To:	LOP	CRFLA G	KAB CRFLAG	AKFL AG	RORFLA G	INTFLA G	CRSHSP OT	Yes/No	Yes/No
058N069 000	058N070 000	20	1.04	1.33	0.00	1.42	0.00	1	N	N
058N070 000	058N071 000	0	0.00	0.00	0.00	0.00	0.00	0	N	N
058N071 000	058N071 101	0	0.00	0.00	0.00	0.00	0.00	0	Y	N
058N071 101	058N072 000	0	0.00	0.00	0.00	0.00	0.00	0	N	N
058N072 000	058N073 000	0	0.00	0.00	0.00	0.00	0.00	1	N	N
058N073 000	058N074 000	18	1.46	2.36	1.88	0.00	1.26	1	N	N
058N074 000	058N075 000	0	0.00	0.00	0.00	0.00	0.00	1	N	N
058N075 000	058N077 000	21	1.13	1.38	1.13	0.00	0.00	1	Y	N
058N077 000	058N078 000	4	2.01	0.00	0.00	0.00	1.59	1	N	N