



**CITY OF STURGEON BAY BOARD OF PUBLIC WORKS AGENDA
TUESDAY, MAY 7, 2019
6:30 P.M.
COUNCIL CHAMBERS, CITY HALL – 421 MICHIGAN ST**

1. Call to order.
2. Roll call.
3. Adoption of agenda.
4. Election of Chairperson.
5. Consideration of: Proposed Intersection Improvements Along Hwy 42/57.
6. Adjourn.

NOTE: DEVIATION FROM THE AGENDA ORDER SHOWN MAY OCCUR.

Posted:

Date:

5-3-19

Time:

11:10 am

By:

CM

EXECUTIVE SUMMARY

DATE: May 2, 2019

TITLE: Proposed Intersection Improvements Along Hwy 42/57

BACKGROUND: On December 13, 2018 staff received a letter from Jeremy Ashauer at the WI DOT regarding an improvement project for Hwy 42/57 that would occur between the south junction of Highways 42 & 57 and the Bay View Bridge. The project is scheduled to take place sometime between 2021 and 2023. Attached is a copy of the letter that summarizes the proposed improvements for the project along with a request for comments regarding known issues within the proposed project limits. After several phone conversations and emails, staff met with the WI DOT on February 14, 2019 to discuss potential improvements that the WI DOT would be willing to incorporate into their project. While these potential improvements would be completed along with the project, they would be required to be locally funded and are summarized below:

1. S Ashland Ave: Per the attached plans & estimate this improvement would modify the east radius of the intersection to allow for easier truck movements through intersection to minimize the damage that is clearly visible today. The only local requirements for this improvement are to move one light pole and purchase a small amount of addition right of way. Staff has contacted SBU and they are easily able to facilitate the relocation of the light pole. The additional right of way that would need to be purchased is relatively small and staff feels that it could be obtained within the required timeframe.
2. Clay Banks Road: per the attached plans & estimates these improvements would help to improve access onto Hwy 42/57.
 - a. Add a right turn lane to Clay Banks Road to allow for easier northbound access onto Hwy 42/57.
 - b. Modify the median between Clay Banks Road and the Bay View Bridge to keep southbound traffic on Hwy 42/57 to one lane until traffic is past Clay Banks Road. This potential improvement is intended to make it easier to access Hwy 42/57 when attempting to make a left turn off of Clay Banks Road onto Hwy 42/57. This modification to the median would still allow for through traffic onto Circle Ridge Road and left turns off of Hwy 42/57 onto Clay Banks Road.
 - c. Add a right turn lane to Hwy 42/57 to allow for right hand turns onto Circle Ridge Road without potentially interrupting traffic on Hwy 42/57 if option b above is selected and the roadway is only one lane at that location.
3. S Neenah Ave: Per the attached plans & estimate this improvement would modify the northeast radius of the intersection. This modification would allow for easier truck movements and add a right turn lane to southbound traffic on S Neenah Ave that would allow for easier access onto Hwy 42/57.

At this time the plans and estimates attached are preliminary. The WI DOT is looking for direction from the City to see which potential improvements should be incorporated into their final plans and specifications going forward. A State/Municipal Agreement will be required to move forward with any of the potential improvements. The City would be required to pay for any planning or engineering expenses, if at a later time, the City would choose to no longer request completion of an improvement included within the State/Municipal Agreement.

FISCAL IMPACT: As stated above, any of the selected options above would require local funding. The attached estimates have been reviewed by staff and include the required engineering that would be required, along with contingency and inflation costs as summarized below:

- 1) \$44,025.55 - S Ashland Ave
- 2) \$25,352.80 - Clay Banks Road (Right turn lane on Clay Banks Road)
- 3) \$68,825.58 - Clay Banks Road (Modifications to the median on Hwy 42/57)
- 4) \$25,133.44 - Clay Banks Road (Right turn lane on Hwy 42/57)
- 5) \$62,964.62 - S Neenah Ave

Total for all potential improvements: \$226,301.99

OPTIONS:

- 1) Request a State/Municipal Agreement for all of the potential improvements.
- 2) Request a State/Municipal Agreement for only some of the potential improvements.
- 3) Inform the WI DOT that no locally funded improvements are desired at this time.

SUBMITTED BY: CS
Chad Shefchik
City Engineer

5.2.19
Date

REVIEWED BY: MO
Marty Olejniczak
Community Develop. Director

5-2-19
Date

REVIEWED BY: JL
Josh VanLieshout
City Administrator

5/2/19
Date



Division of Transportation
System Development
Northeast Regional Office
944 Vanderperren Way
Green Bay, WI 54304

Scott Walker, Governor
Dave Ross, Secretary
Internet web site: www.dot.wisconsin.gov

Telephone: (920)492-5643
Facsimile (FAX): (920)492-5640
E-mail: ner.dtsd@dot.wi.gov

December 13, 2018

Chad Shefchick
City of Sturgeon Bay
City Engineer
421 Michigan Street
Sturgeon Bay, WI 54235

Re: **Initial Wisconsin Department of Transportation (WisDOT) Project Notification**
Project ID 4430-19-00/71
Sturgeon Bay
South Junction WIS 42/57 – Bay View Bridge
WIS 42/57
Door County

WisDOT is in the initial stages of developing plans to improve approximately 6.6 miles of WIS 42 from the south junction of WIS 42/57 to the Bay View Bridge in Door County. Construction is currently scheduled for 2023.

As a municipality located within the project limits, we want to reach out to you in the beginning stages of the project development. The process will include public, business, and local government coordination, as well as environmental documentation. Meetings with local officials and the general public may be scheduled after preliminary evaluations and impacts are known.

Proposed improvements include:

- Repairing concrete and asphalt resurfacing in various locations.
- Replacing or repairing culverts and storm sewer within project limits, as necessary.
- Removing hazards from within the clear zone.
- Upgrading guardrail and pavement markings.

We would appreciate any comments regarding known issues along this route to consider in the preliminary design phase.

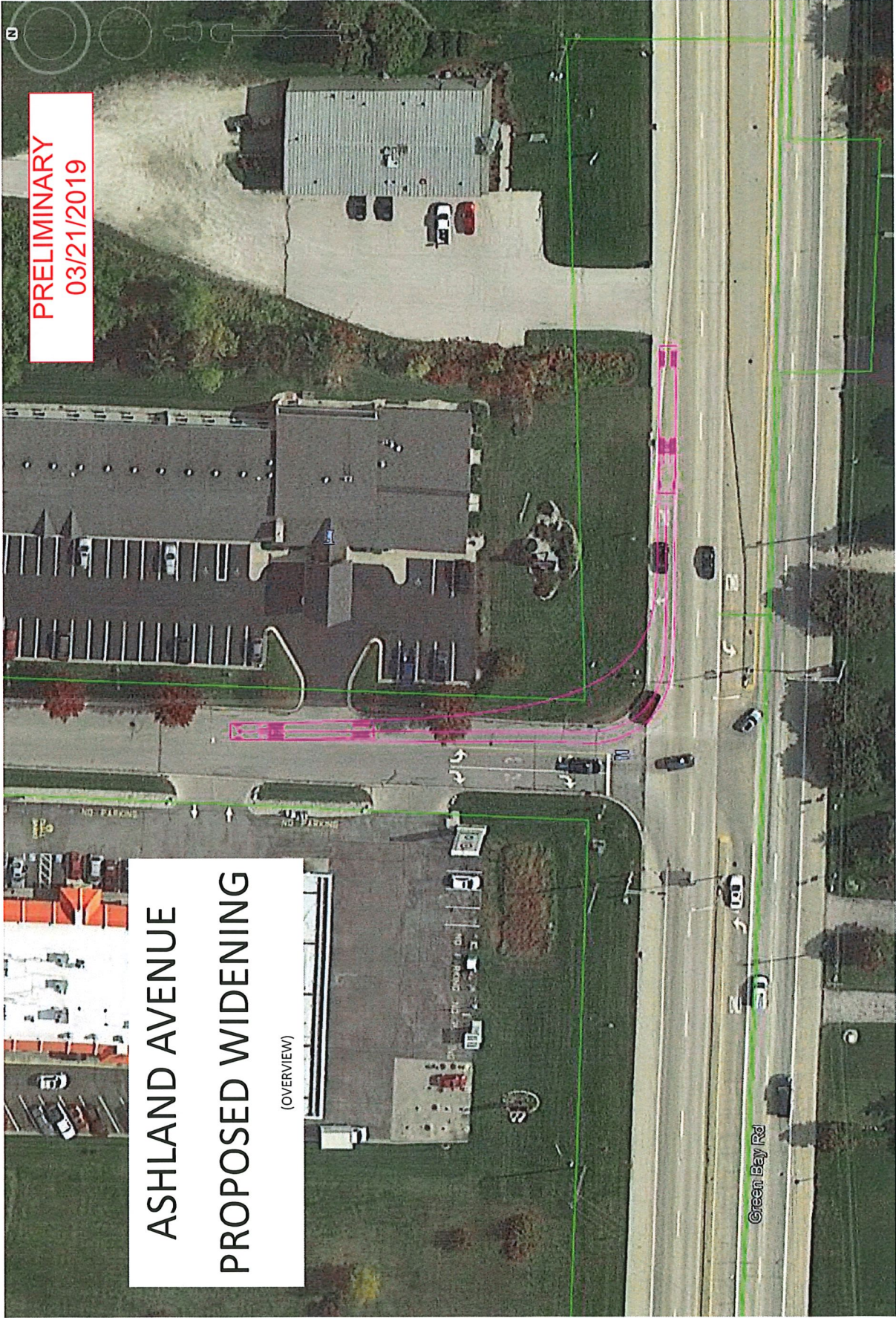
If you need any additional information or have any questions, please feel free to contact me at (920) 412-6381 or jeremy.ashauer@dot.wi.gov. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, reading 'Jeremy J. Ashauer'.

Jeremy Ashauer, P.E.
WisDOT Project Manager

Enclosure: Project Location Map



PRELIMINARY
03/21/2019

ASHLAND AVENUE
PROPOSED WIDENING
(OVERVIEW)

Green Bay Rd

NOTE:

HEAD #4 REQUIRE A TUNNEL VISOR

NOTE: Any underground utility relocations may encounter bedrock.

Approx. Ex. RW

Approx. Prop. R/W - purchase of necessary R/W will be done by City prior to construction & is not included in the WisDOT estimate.

Proposed Radius Improvement to accommodate WB-65

Relocate pull boxes & conduit - additional underground utility conflicts will require investigation & are not included in the WisDOT estimate.

NOTE:
Utilities and R/W shown are APPROXIMATE.
Verification by Survey will be required

MONOTUBE STRUCTURE NUMBERS	
SB3	S-15-0023
SB6	S-15-0024

CONFIGURATION WITH HEAD NUMBERS	
3-V	
4-VLFY	

COUNTY: DOOR

ASHLAND AVENUE WIDENING

SHEET NO:	----
E	

WISDOT/CADDs SHEET 42

PLOT NAME: S15-831,rev1,const PLOT SCALE : 40:1

PLOT BY : DOTMXT

PLOT DATE : Mar 24, 2019 - 2:15pm

PROJECT NO: 4430-19-00	HWY: STH42/57
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Preliminary Estimate 03/21/2019

Cost Estimate for Ashland Ave - Improved Turning Radius from SB STH 42/57*

Project ID: 4430-19-00

S JCT STH 42/57 - Bay View Bridge

Item #	Item Description	Quantity	Units	Cost/Unit	Total Cost
204.0150	Removing Curb & Gutter	205	LF	\$5.00	\$1,025.00
204.0220	Removing Inlets	1	EACH	\$355.00	\$355.00
205.0100	Excavation Common	231	CY	\$23.00	\$5,313.00
305.0120	Base Aggregate Dense 1 1/4-Inch	80	TON	\$21.15	\$1,692.00
415.0090	Concrete Pavement 9-inch	25	SY	\$38.50	\$962.50
460.5223	HMA Pavement 3 LT 58-28 S	40	TON	\$75.00	\$3,000.00
460.5224	HMA Pavement 4 LT 58-28 S	38	TON	\$75.00	\$2,850.00
601.0411	Concrete Curb & Gutter 30-Inch Type D	170	LF	\$25.90	\$4,403.00
608.315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	30	LF	\$79.00	\$2,370.00
611.0624	Inlet Covers Type H	1	EACH	\$579.00	\$579.00
611.3230	Inlets 2x3-FT	1	EACH	\$1,531.00	\$1,531.00
625.0500	Salvaged Topsoil	230	SY	\$5.15	\$1,184.50
628.2008	Erosion Mat Urban Class I Type B	230	SY	\$2.50	\$575.00
690.0150	Sawing Asphalt	105	LF	\$2.40	\$252.00
690.0250	Sawing Concrete	100	LF	\$2.50	\$250.00
SPV	Signal work	1	LS	\$6,000.00	\$6,000.00

Subtotal 1 \$32,342.00
 Contingency (10%) \$3,234.20
 Inflation (5 years at 2.5%/yr) \$4,447.03

Subtotal 2 \$40,023.23
 Construction Engineering (10%) \$4,002.32

Total \$44,025.55

*Costs and quantities are strictly an estimate & are subject to change. They do not include Real Estate or Utility Relocations. The estimate provided assumes a construction year of 2024.

**Plans provided are Preliminary and are only an approximation of the proposed work.

***All utilities & R/W will require verification with field survey.

PRELIMINARY
03/21/2019

CLAY BANKS/CIRCLE RIDGE ROAD INTERSECTION IMPROVEMENTS. PROPOSED WIDENING

(OVERVIEW)



Preliminary Estimate 03/21/2019

Cost Estimate for Right Turn Lane Clay Banks Rd to NB STH 42/57*

Project ID: 4430-19-00

S JCT STH 42/57 - Bay View Bridge

Item #	Item Description	Quantity	Units	Cost/Unit	Total Cost
204.0150	Removing Curb & Gutter	65	LF	\$6.80	\$442.00
205.0100	Excavation Common	55	CY	\$7.50	\$412.50
305.0110	Base Aggregate Dense 3/4-Inch	116	TON	\$17.30	\$1,998.15
305.0120	Base Aggregate Dense 1 1/4-Inch	5	TON	\$23.00	\$115.00
415.0080	Concrete Pavement 8-inch	80	SY	\$74.00	\$5,920.00
460.5223	HMA Pavement 3 LT 58-28 S	42	TON	\$75.00	\$3,150.00
460.5224	HMA Pavement 4 LT 58-28 S	40	TON	\$75.00	\$3,000.00
601.0411	Concrete Curb & Gutter 30-Inch Type D	65	LF	\$31.00	\$2,015.00
625.0500	Salvaged Topsoil	185	SY	\$1.00	\$185.00
628.1504	Silt Fence	200	LF	\$2.50	\$500.00
628.2008	Erosion Mat Urban Class I Type B	120	SY	\$2.40	\$288.00
690.0150	Sawing Asphalt	200	LF	\$2.15	\$430.00
690.0250	Sawing Concrete	65	LF	\$2.60	\$169.00

Subtotal 1

\$18,624.65

Contingency (10%)

\$1,862.47

Inflation (5 years at 2.5%/yr)

\$2,560.89

Subtotal 2

\$23,048.00

Construction Engineering (10%)

\$2,304.80

Total **\$25,352.80**

*Costs and quantities are strictly an estimate & are subject to change. They do not include Real Estate or Utility Relocations. The estimate provided assumes a construction year of 2024.

**Plans provided are Preliminary and are only an approximation of the proposed work.

***All utilities & R/W will require verification with field survey.

NOTES:

- 1) WisDOT R/W appears to go all the way to Tacoma Beach Rd
- 2) No utility conflicts. Power poles located approx. 23' off existing EOP and we are only widening 11'.
- 3) Ex. pavt looks to be in good condition; milling top course to match is not included in this estimate.

Preliminary Estimate 03/21/2019

Cost Estimate for Reducing SB STH 42/57 to One Lane at Clay Banks/Circle Ridge Rd*

Project ID: 4430-19-00

S JCT STH 42/57 - Bay View Bridge

Item #	Item Description	Quantity	Units	Cost/Unit	Total Cost
204.0100	Removing Pavement	850	SY	\$5.30	\$4,505.00
204.0150	Removing Curb & Gutter	620	LF	\$3.80	\$2,356.00
204.0220	Removing Inlets	1	EACH	\$355.00	\$355.00
208.0100	Borrow	189	CY	\$21.10	\$3,981.57
320.0105	Concrete Base 4-inch	166	SY	\$40.00	\$6,640.00
601.0411	Concrete Curb & Gutter 30-Inch Type D	1080	LF	\$18.25	\$19,710.00
608.315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	25	LF	\$85.00	\$2,125.00
611.0624	Inlet Covers Type H	1	EACH	\$579.00	\$579.00
611.3230	Inlets 2x3-FT	1	EACH	\$1,531.00	\$1,531.00
625.0100	Topsoil	600	SY	\$7.90	\$4,740.00
628.2008	Erosion Mat Urban Class I Type B	600	SY	\$2.05	\$1,230.00
690.0250	Sawing Concrete	1080	LF	\$2.60	\$2,808.00

Subtotal 1	\$50,560.57
Contingency (10%)	\$5,056.06
Inflation (5 years at 2.5%/yr)	\$6,952.08
Subtotal 2	\$62,568.71
Construction Engineering (10%)	\$6,256.87

Total	\$68,825.58
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***All utilities & R/W will require verification with field survey.

Preliminary Estimate 03/21/2019

Cost Estimate for SB STH 42/57 OPTIONAL Right Turn Addition @ Circle Ridge Rd*

Project ID: 4430-19-00

S JCT STH 42/57 - Bay View Bridge

Item #	Item Description	Quantity	Units	Cost/Unit	Total Cost
204.0150	Removing Curb & Gutter	90	LF	\$5.00	\$450.00
205.0100	Excavation Common	250	CY	\$23.00	\$5,750.00
305.0120	Base Aggregate Dense 1 1/4-Inch	250	TON	\$21.15	\$5,287.50
415.0090	Concrete Pavement 9-inch	85	SY	\$38.50	\$3,272.50
601.0411	Concrete Curb & Gutter 30-Inch Type D	90	LF	\$25.90	\$2,331.00
625.0500	Salvaged Topsoil	150	SY	\$5.15	\$772.50
628.2008	Erosion Mat Urban Class I Type B	150	SY	\$2.50	\$375.00
690.0250	Sawing Concrete	90	LF	\$2.50	\$225.00

Subtotal 1 \$18,463.50
 Contingency (10%) \$1,846.35
 Inflation (5 years at 2.5%/yr) \$2,538.73

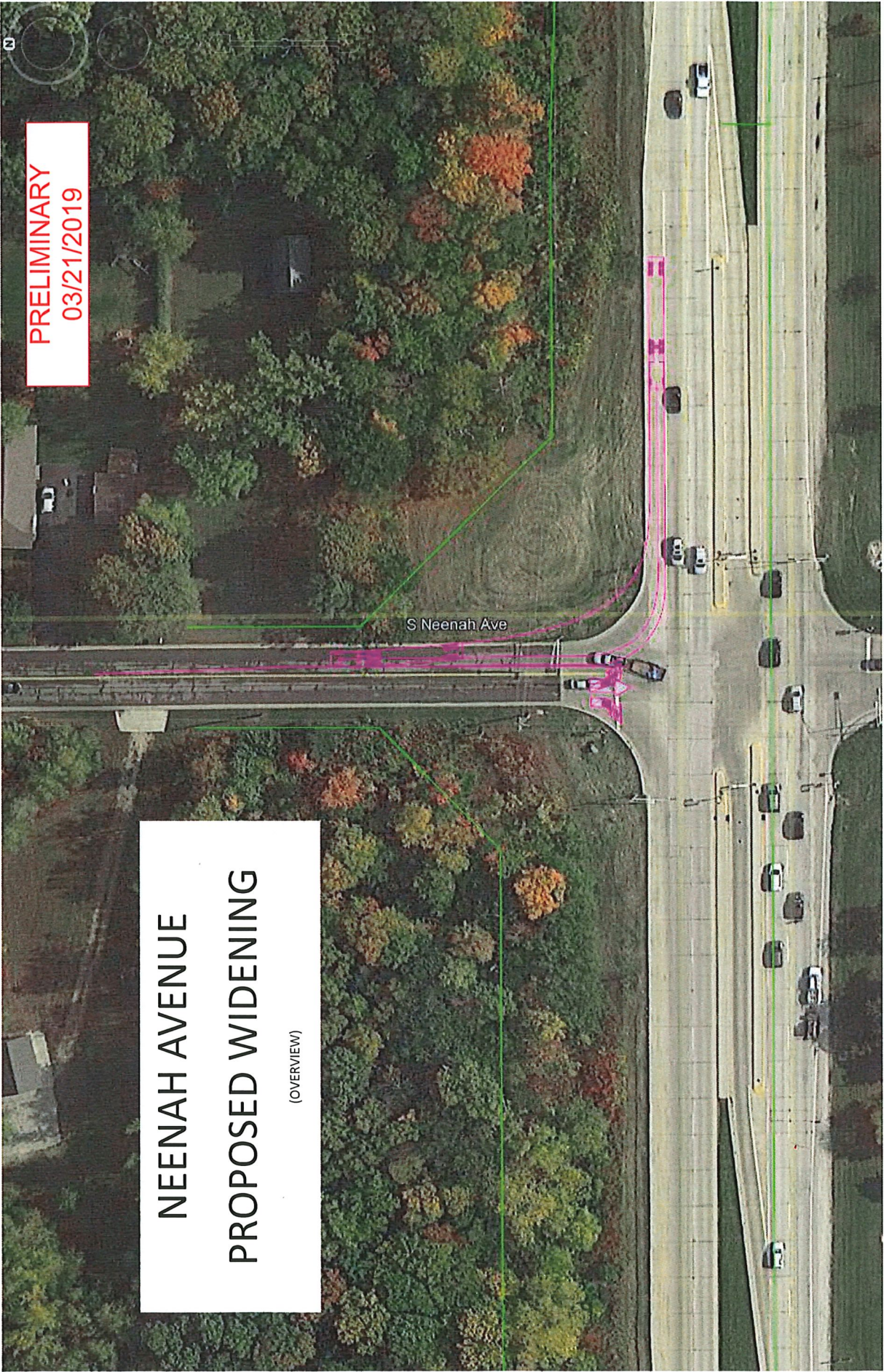
Subtotal 2 \$22,848.58
 Construction Engineering (10%) \$2,284.86

Total \$25,133.44

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PRELIMINARY
03/21/2019

NEENAH AVENUE
PROPOSED WIDENING
(OVERVIEW)

LEGEND

- PULL BOX 12" X 24"
- PULL BOX 24" X 36"
- PULL BOX 24" X 42"
- SIGNAL STANDARD, PEDESTAL MOUNT
- SIGNAL POLE, MAST-ARM, TRANSFORMER MOUNT
- LUMINAIRE (250 WATT)
- LUMINAIRE UNDER PERMIT
- CONTROL CABINET BASE
- CONDUIT
- SIGNAL HEAD NUMBER MOUNTING CONFIGURATION
- LOOP DETECTOR (IN CONDUIT)
- SIGNAL POLE, MONOTUBE ARM

NOTE:

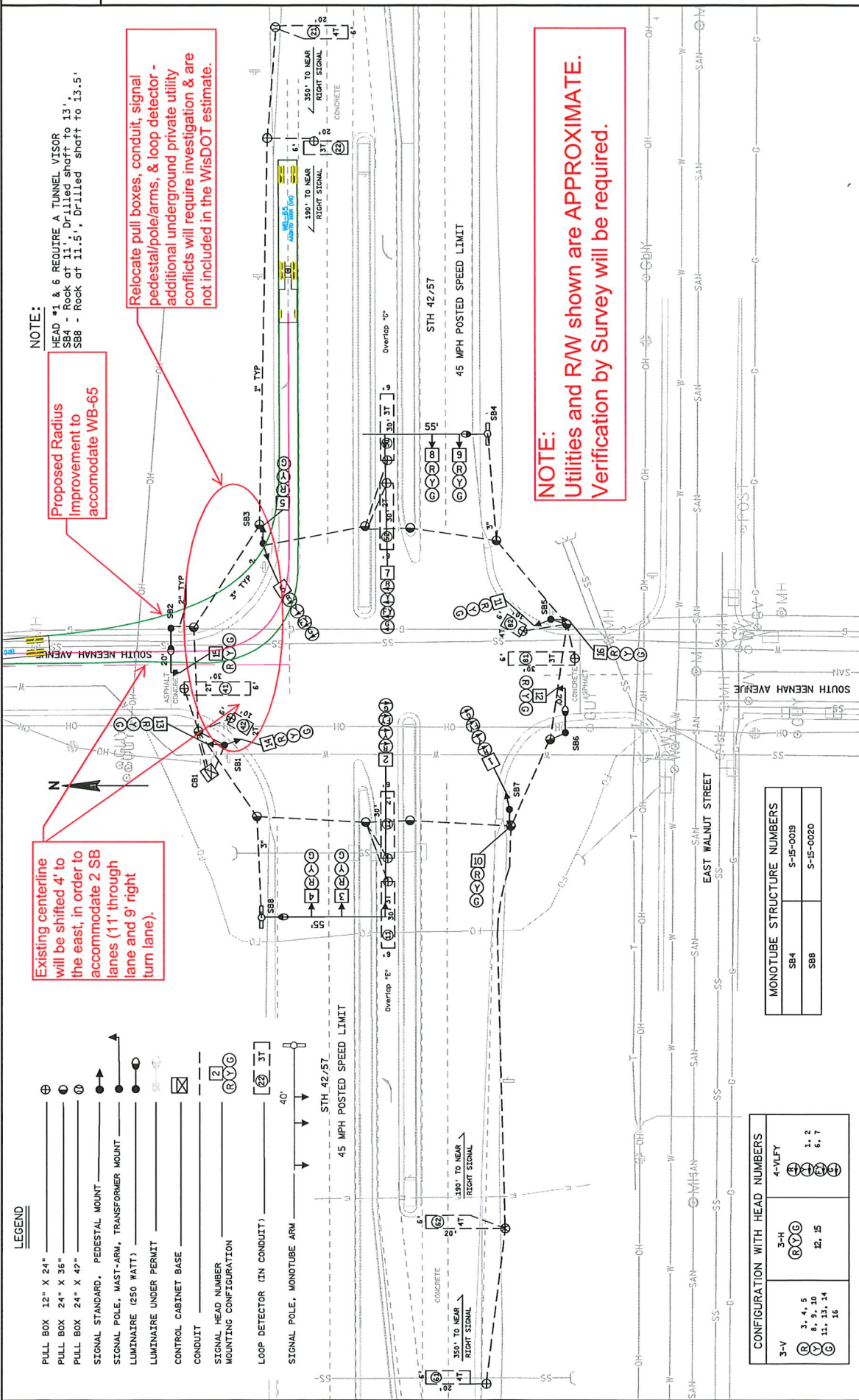
HEAD #1 & 6 REQUIRE A TUNNEL VISOR
SB4 - Rock at 11', Drilled shaft to 13',
SB8 - Rock at 11.5', Drilled shaft to 13.5'

Proposed Radius Improvement to accommodate WB-65

Existing centerline will be shifted 4' to the east, in order to accommodate 2 SB lanes (11' through lane and 9' right turn lane).

Relocate pull boxes, conduit, signal pedestal/pole/arms, & loop detector - additional underground private utility conflicts will require investigation & are not included in the WisDOT estimate.

NOTE:
Utilities and RW shown are APPROXIMATE.
Verification by Survey will be required.



CONFIGURATION WITH HEAD NUMBERS	
3-V	3-H
1, 4, 5	1, 2
8, 9, 10	6, 7
11, 13, 14	
16	

MONOTUBE STRUCTURE NUMBERS	
SB4	S-15-0019
SB8	S-15-0020

Preliminary Estimate 03/21/2019

Cost Estimate for Right Turn Lane SB Neenah Ave to SB STH 42/57* Alternative #2: Centerline shifts to the north, curbline widens to the north

Project ID: 4430-19-00
S JCT STH 42/57 - Bay View Bridge

Item #	Item Description	Quantity	Units	Cost/Unit	Total Cost
201.0120	Clearing	36	ID	\$10.00	\$360.00
201.0220	Grubbing	36	ID	\$10.00	\$360.00
204.0150	Removing Curb & Gutter	250	LF	\$5.00	\$1,250.00
205.0100	Excavation Common	110	CY	\$23.00	\$2,530.00
305.0120	Base Aggregate Dense 1 1/4-Inch	110	TON	\$24.00	\$2,640.00
415.0800	Concrete Pavement 8-inch	365	SY	\$35.00	\$12,775.00
460.5223	HMA Pavement 3 LT 58-28 S	11	TON	\$75.00	\$825.00
460.5224	HMA Pavement 4 LT 58-28 S	10	TON	\$75.00	\$750.00
601.0411	Concrete Curb & Gutter 30-Inch Type D	250	LF	\$25.00	\$6,250.00
625.0500	Salvaged Topsoil	70	SY	\$1.50	\$105.00
628.1504	Silt Fence	250	LF	\$2.50	\$625.00
628.2008	Erosion Mat Urban Class I Type B	70	SY	\$2.50	\$175.00
	Marking Lines	1	LS	\$2,000.00	\$2,000.00
690.0150	Sawing Asphalt	150	LF	\$2.40	\$360.00
690.0250	Sawing Concrete	100	LF	\$2.50	\$250.00
SPV	Signal work	1	LS	\$15,000.00	\$15,000.00

Subtotal 1 \$46,255.00
Contingency (10%) \$4,625.50
Inflation (5 years at 2.5%/yr) \$6,360.06

Subtotal 2 \$57,240.56
Construction Engineering (10%) \$5,724.06

Total \$62,964.62

*Costs and quantities are strictly an estimate & are subject to change. They do not include Real Estate or Utility Relocations. The estimate provided assumes a construction year of 2024.

**Plans provided are Preliminary and are only an approximation of the proposed work.

***All utilities & R/W will require verification with field survey.