#### MAD MAR 2017 STATE OF WISCONSIN ORDER OF SHEETS Section No. 1 DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details Estimate of Quantities Miscellaneous Quantities

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2017094 1690-05-71

PLAN OF PROPOSED IMPROVEMENT

#### GLARUS - VERONA NEW

STH 92 TO CTH D

**STH 69** DANE COUNTY

STATE PROJECT NUMBER 1690-05-71

# **AS-BUILT PLAN** STRUCTURE B-13-337

SUPERVISOR: Bill Strobel PROJECT LEADER: Derrick Ballweg PROJECT MANAGER: Mahesh Shrestha PRIME CONTRACTOR: H. James & Sons, Inc. WORK STARTED: 5/22/17 WORK COMPLETED: 8/30/17



Right of Way Plat Plan and Profile

Cross Sections

Computer Earthwork Data

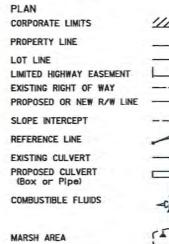
#### DESIGN DESIGNATION

TOTAL SHEETS = 192

A.A.D.T. 2016 = 5200 A.A.D.T. 2036 = 7900 D.H.V. D.D. = 60/40 = 5.5% DESIGN SPEED = 35 MPH **ESALS** = 920,000

Subcontractor List: Augelli Concrete & Excavating, LLC Guide Lines Pavement Marking, LLC Hard Rock Sawing & Drilling Specialist Co. **Lunda Construction Company** Payne and Dolan, Inc. SJK Engineering, LLC T-N-T Tree Service, LLC Traffic Control & Protection West-Land Restoration, Inc. Yahara Materials, Inc.

## CONVENTIONAL SYMBOLS



WOODED OR SHRUB AREA

PROFILE 11111111 GRADE LINE

ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL POWER POLE TELEPHONE POLE

X

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END PROJECT 1690-05-71 STA. 28+50.00 FEDERAL AVE. D 3RD AVE. DR. LAKE BELLE VIEW BROSS CIR. ENTERPRISE SERV-US ST. SUGAR RIVER 69 W. MAIN ST. E. MAIN ST. 92 W. PEARL ST. E. PEARL ST.

1/8 MILE TOTAL NET LENGTH OF CENTERLINE = 0.320 MI (URBAN)

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NADB3 (2011), IN U.S. SURVEY FEET.
VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES.
GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

B-13-337

142,67

EXCEPTION TO NET

STA. 10+17.94

X=781,199,50

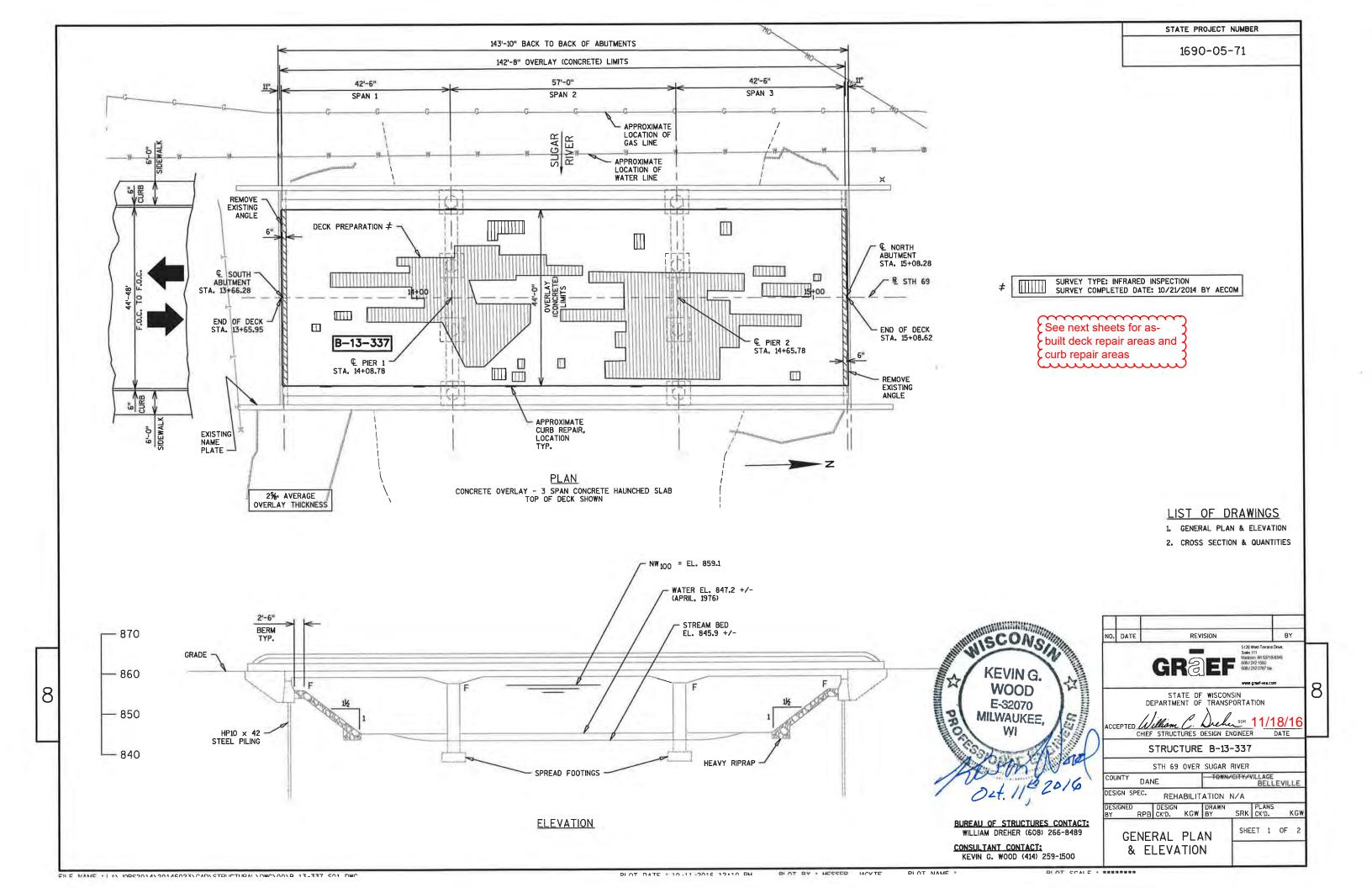
CENTERLINE LENGTH

BEGIN PROJECT 1690-05-71

ORIGINAL PLANS PREPARED BY SCONSIA ACQUELYN M. MESSER 41278 DELAFIELD, STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY Surveyor GRAEF Designer MAHESH SHRESTHA Project Manager Regional Examiner BILL STROBEL Regional Supervisor.

FILE NAME : L:\JOBS2014\20145023\CAD\TRANSPORTATION\DWG\SHEETSPLAN\OLD\010101\_TI.DWG 2014-5023 - 010101\_TI - TITLE SHEET 1 IN EQ 0.5 MI

Alle





# PREPARATION DECKS TYPE 1 ————

1	4.0 SF	0.4 SY	9	7.5 SF	0.8 SY		
2	13.9 SF	1.5 SY	10 7.2 SF		0.8 SY		
3	6.8 SF	0.8 SY	11	38.3 SF	4.3 SY		
4	8.7 SF	1.0 SY	12	12.8 SF	1.4 SY		
5	21.2 SF	2.4 SY	13	15.6 SF	1.7 SY		
6	2.1 SF	0.2 SY	14	881.4 SF	97.9 SY		
7	21.7 SF	2.4 SY	15	889.0 SF	98.8 SY		
8	9.6 SF	1.1 SY		TOTAL 215.4 S			

# PREPARATION DECKS TYPE 2 -----

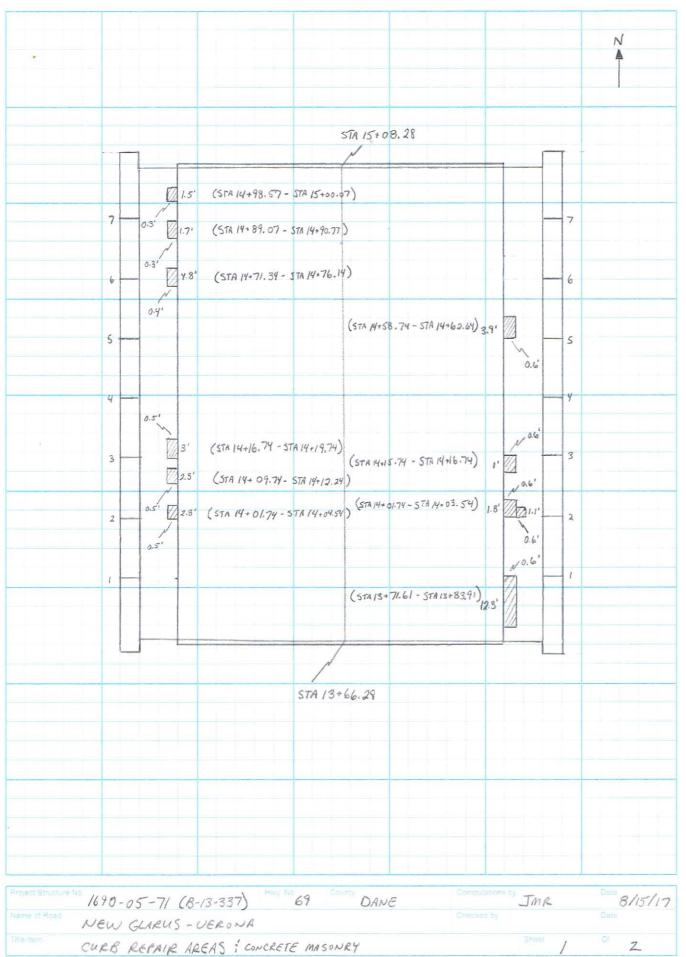
1	0.4 SF	0.1 SY
2	1.3 SF	0.1 SY
3	2.1 SF	0.2 SY
4	1.0 SF	0.1 SY
5	1.8 SF	0.2 SY
6	0.5 SF	0.1 SY
7	0.6 SF	0.1 SY
8	0.6 SF	0.1 SY

9	3.8 SF	0.4 SY
10	0.7 SF	0.1 SY
11	1.0 SF	0.1 SY
12	2.5 SF	0.3 SY
13	9.8 SF	1.1 SY
14	1.4 SF	0.2 SY
15	17.0 SF	1.9 SY
16	0.9 SF	0.1 SY

17	106.7 SF	11.9 SY
18	2.9 SF	0.3 SY
19	3.1 SF	0.3 SY
20	1.6 SF	0.2 SY
21	73.2 SF	8.1 SY
22	2.1 SF	0.2 SY
23	23.6 SF	2.6 SY
24	4.6 SF	0.5 SY

7.4 SF	0.8 SY
9.1 SF	1.0 SY
0.8 SF	0.1 SY
4.1 SF	0.5 SY
2.1 SF	0.2 SY
1.4 SF	0.2 SY
128.4 SF	14.3 SY
1.6 SF	0.2 SY
	9.1 SF  0.8 SF  4.1 SF  2.1 SF  1.4 SF  128.4 SF

	TOTALS	51.4 SY			
40	1.4 SF	0.2 SY			
39	13.3 SF	1.5 SY			
38	1.0 SF	0.1 SY			
37	13.6 SF	1.5 SY			
36	2.3 SF	0.3 SY			
35	3.3 SF	0.4 SY			
34	2.4 SF	0.3 SY			
33	4.8 SF	0.5 SY			
33	4.8 SF	0.5 SY			



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#### **BENCH MARK**

BM\*2 - ALUMINUM DISC IN THE SIDEWALK AT THE SOUTHEAST CORNER OF THE BRIDGE WITH ELEVATION 863.06

#### TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	S. A BUT	N. A BUT	PIER 1	PIER 2	SUPER	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	-	698	698
509.0301	PREPARATION DECKSTYPE 1	SY	-	-	-	-	200	200
509.0302	PREPARATION DECKSTYPE 2	SY	-	-	-	-	103	103
509.0500	CLEANING DECKS	SY	-	-	-	-	698	698
509.1200	CURB REPAIR	LF	-	-	-	-	10	10
509.1500	CONCRETE SURFACE REPAIR	SF	-	2	17	-	-	19
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	-	-	1	1
509.2500	CONCRETE MA SONRY OVERLAY DECKS	CY	-	-	-	-	69	69
	NON-BID ITEMS							

1/2" MIN. OR TO

-INCORPORATE EXISTING REINFORCING

-SAWCUI

## **DESIGN DATA**

LIVE LOAD: DESIGN LOADING: HS-20

INVENTORY RATING: HS-23

OPERATING RATING: HS-39

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY OVERLAY DECKS ......f'c = 4,000 P.S.I.

### TRAFFIC DATA

STH 69

A.D.T. = 6,200 (2016) A.D.T. = 7,900 (2036) RDS = 35 MPH

EXISTING ANGLE TO BE REMOVED. TOP OF OVERLAY -REMOVAL TO BE PAID FOR UNDER "PREPARATION DECKS TYPE 1" AND PREPARATION DECKS TYPE 2." END OF DECK REMOVE EXISTING CONCRETE. REPAIR TO BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS"

#### CURB REPAIR DETAIL

PROVIDE 2"

CURB REPAIR

#### SECTION AT END OF SLAB

#### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

STATE PROJECT NUMBER

1690-05-71

BY

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

USE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO

BEVEL ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

A MINIMUM OF 1" OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS". ORIGINAL PLANS INDICATE A  $2\frac{1}{2}$ -INCH TOP OF CONCRETE COVER.

THE EXISTING STRUCTURE, B-13-337, IS A 3-SPAN CONCRETE HAUNCHED SLAB BRIDGE WITH AN OVERALL WIDTH OF 56'-O" AND AN OVERALL LENGTH OF 143'-10". THE ENTIRE DECK SURFACE IS TO BE PREPARED FOR A NEW CONCRETE OVERLAY.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR THE PAVING BLOCK AT ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

"PREPARATION DECKS TYPE I", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS."

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1½" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2½". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

"CONCRETE SURFACE REPAIR" AND "CURB REPAIR" AS DIRECTED BY THE FIELD ENGINEER-QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 11/2" CLEAR.

NOT MORE THAN 1/3 OF THE TOP BAR STEEL SHALL BE EXPOSED IN THE NEGATIVE MOMENT

AREA IF THE BAR ENDS ARE NOT ANCHORED. IF MORE THAN 1/3 OF THE STEEL IS EXPOSED, EITHER THE CENTERS OF ADJACENT SPANS MUST BE SHORED OR ONLY LONGITUDINALLY OVERLAY 1/3 OF THE BRIDGE AT A TIME.

