

DESIGN DATA

LIVE LOAD:  
DESIGN LOADING \_\_\_\_\_ HS20  
INVENTORY RATING \_\_\_\_\_ HS-XX  
OPERATIONAL RATING \_\_\_\_\_ HS-XX  
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) \_\_\_\_\_ XX KIPS

TRAFFIC DATA:

A.A.D.T. (2022) = 9,350  
A.A.D.T. (2042) = 11,300

MATERIAL PROPERTIES:

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

LIST OF DRAWINGS

1. REHAB GENERAL PLAN

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.  
SEE ROAD PLANS FOR TRAFFIC CONTROL.  
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.  
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN.  
IMPROVEMENTS INCLUDE A CONCRETE DECK OVERLAY OF THE BRIDGE DECK, DECK REPAIRS, AND CLEANING PARAPETS.  
THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-9-35, A THREE SPAN, 97.67' HAUNCHED CONCRETE SLAB BRIDGE SET ON CONCRETE SILL ABUTMENTS AND CONCRETE COLUMN PIERS.  
PREPARATION DECKS TYPE 1, 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".  
CLEAN PARAPETS AND APPLY PIGMENTED SURFACE SEALER TO THE TOP AND ROADWAY FACE OF THE PARAPET.  
PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.  
SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".  
THE AVERAGE OVERLAY THICKNESS IS BASED ON THE CALCULATED OVERLAY THICKNESS PLUS 1/2-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE. CALCULATED OVERLAY THICKNESS ASSUMES 1 1/2" OVERLAY AT PARAPET AND 4 1/2" AT CROWN.  
PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

PLAN

(REHAB - CONCRETE OVERLAY ON EXISTING THREE SPAN HAUNCHED SLAB)

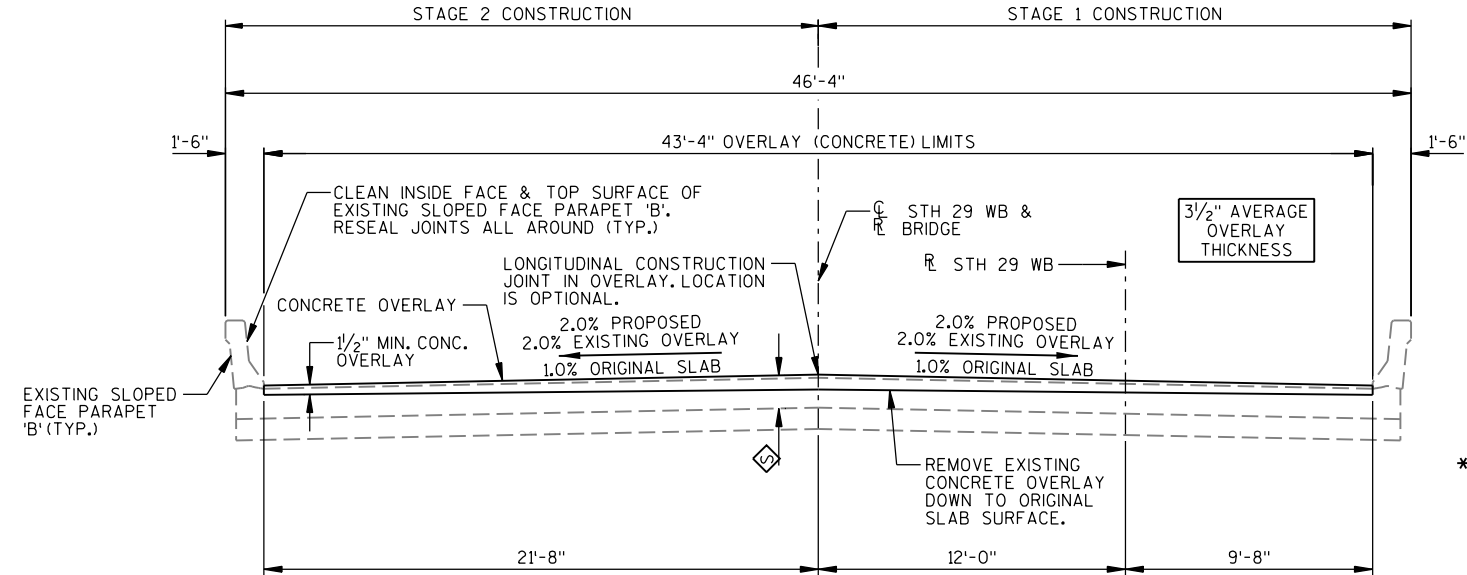
TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	463	463
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	93	93
* 509.0301	PREPARATION DECKS TYPE 1	SY	-	-	23	23
* 509.0302	PREPARATION DECKS TYPE 2	SY	-	-	9	9
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	-	-	463	463
** 509.1500	CONCRETE SURFACE REPAIR	SF	15	-	-	15
* 509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	47	47
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY STRUCTURE B-9-35	SY	-	-	463	463
509.9050.S	CLEANING PARAPETS	LF	-	-	235	235

- \* QUANTITY LISTED IS AN ESTIMATE. CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR LOCATIONS WITH THE ENGINEER.  
\*\* CONCRETE SURFACE REPAIR SHALL BE USED FOR NEEDED REPAIRS. LOCATIONS AND LIMITS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DESIGN CONTACT: BRIDGE OFFICE CONTACT:  
KYLE BUSCH WILLIAM DREHER  
(608) 216-2063 (608) 266-8489

NO.	DATE	REVISION	BY
<b>MSA</b> ENGINEERING   ARCHITECTURE   SURVEYING FUNDING   PLANNING   ENVIRONMENTAL 1702 Parkratz St Madison, WI 53704 (608) 242-7779 www.msa-ps.com © MSA Professional Services, Inc.			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		CHIEF STRUCTURES DESIGN ENGINEER _____ DATE _____	
STRUCTURE B-9-35			
STH 29 WB OVER 190TH STREET			
COUNTY	CHIPPewa	TOWN/CITY/VILLAGE	LAFAYETTE
DESIGN SPEC. REHABILITATION - N/A			
DESIGNED BY	XXX	DESIGN CK'D. XXX	DRAWN BY SSD PLANS CK'D. KHB
REHAB GENERAL PLAN			SHEET 1 OF 1



CROSS SECTION THRU ROADWAY

(LOOKING EAST)

- EXISTING 1'-1 1/2" SLAB WITH VARYING OVERLAY THICKNESS (SPANS 1 & 2).  
EXISTING 1'-3" SLAB WITH VARYING OVERLAY THICKNESS (SPAN 3).  
OVERLAY THICKNESS IS EXPECTED TO VARY FROM 1 1/2" OVERLAY AT PARAPET TO 4 1/2" AT CROWN BASED ON AS-BUILT PLANS.