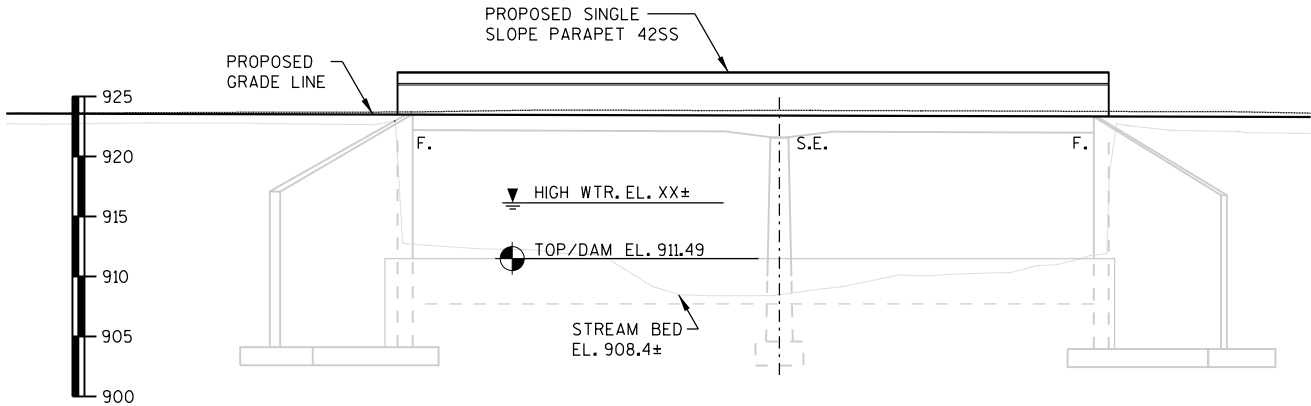
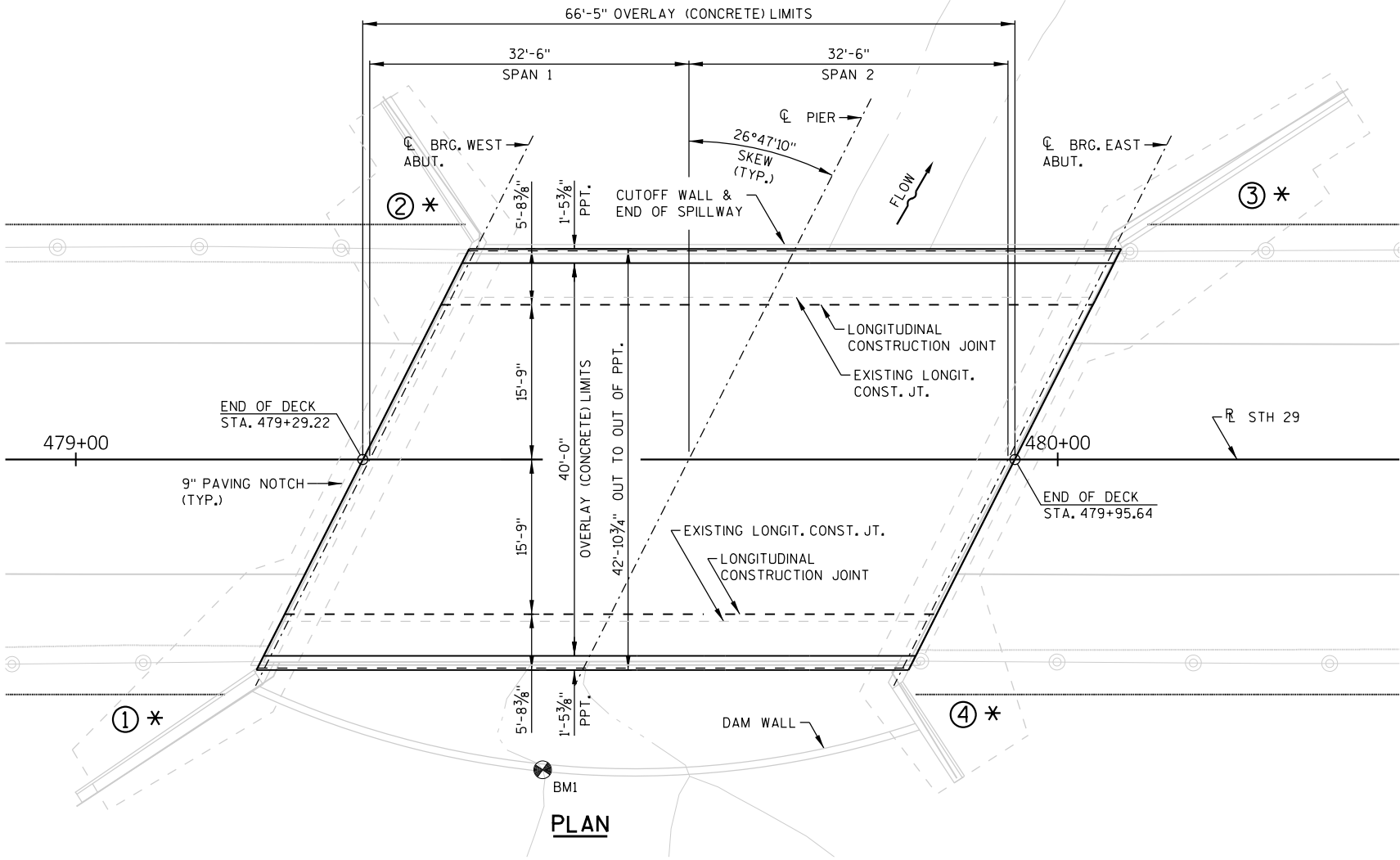
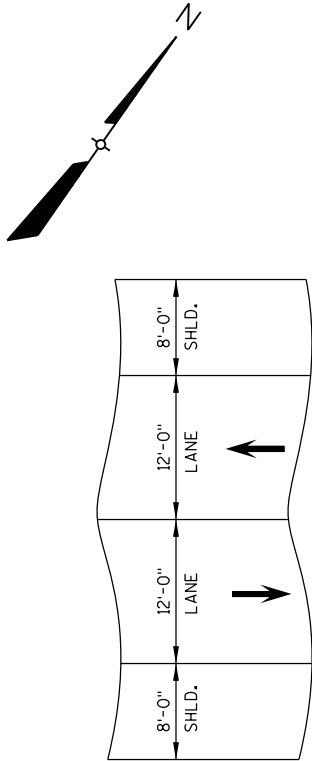


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- \* PROVIDE FOR THRIE BEAM GUARDRAIL ATTACHMENT.
- (X) INDICATES WING NUMBER



ELEVATION  
(NORMAL TO GREENWOOD VALLEY CREEK)

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
BM1	479+48, 32' RT.	CUT CROSS IN CONC. DAM WALL.	911.50
BM2	477+46, 57' LT.	CUT CROSS ON TOP OF EAST END OF 48" CMP.	917.84
BM3	497+65, 81' LT.	CUT CROSS ON SW CORNER OF CONCRETE IRRIGATION PIVOT BASE.	920.70
BM4	496+36, 186' RT.	60d NAIL IN WEST FACE OF PP #109342	923.19

GPS, WISCRS 83/11, NAVD 88 HR=6.91  
CALIBRATE TO RIVER FALLS GPS (RF)

STATE PROJECT NUMBER

7650-01-05

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

EXISTING DIMENSIONS AND STATIONS ARE BASED ON ORIGINAL STRUCTURE PLANS. ACTUAL DIMENSIONS MAY VARY. ORIGINAL DRAWINGS CAN BE FOUND ON WISDOT HSI WEBSITE.

"PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE INSIDE AND TOPS OF PARAPETS TO THE SATISFACTION OF THE FIELD ENGINEER.

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

UNDER THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY", REMOVE THE ENTIRE EXISTING OVERLAY 1 1/2"±. UNDER THE BID ITEM "CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY" PREPARE THE ORIGINAL DECK SURFACE FOR THE APPLICATION OF CONCRETE OVERLAY. PRIOR TO REMOVAL CHECK A MINIMUM OF 3 LOCATIONS OR AS DIRECTED BY THE ENGINEER TO ENSURE THE REMOVAL WILL MAINTAIN EXISTING CONCRETE COVER (1" MIN.) OVER THE TOP MAT OF REINFORCING STEEL.

TRAFFIC TO BE DETOURED DURING CONSTRUCTION.

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS 1/2-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY, SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT OR AS APPROVED BY ENGINEER.

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

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON MINIMUM CONCRETE OVERLAY THICKNESS OF 1 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE CONCRETE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE CONCRETE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2" CONTACT BUREAU OF STRUCTURES DESIGN SECTION FOR REVIEW.

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. COST INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

ORIGINAL SLAB DEPTH SHOWN (FROM 1951). ASSUME CONCRETE OVERLAY IN 1993 REDUCED SLAB THICKNESS TO 1'-3 1/2" AS PART OF DECK CLEANING PROCEDURE.

CLEAN, STRAIGHTEN AND EXTEND EXISTING BAR STEEL REINFORCEMENT 24 BAR DIAMETERS INTO NEW CONSTRUCTION WHERE APPLICABLE.

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".

"CONCRETE SURFACE REPAIR" AT ABUTMENTS IS ESTIMATED TO BE 20 SF. "CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

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

DESIGN DATA

LIVE LOAD:  
DESIGN LOADING: HS-20  
INVENTORY RATING: HS-12  
OPERATING RATING: HS-21  
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 180 KIPS  
(TAKEN FROM HSI, 5/24/2013)

MATERIAL PROPERTIES:  
CONCRETE MASONRY - DECK, PARAPET, OVERLAY DECKS — f'c = 4,000 PSI  
- ALL OTHER — f'c = 3,500 PSI

BAR STEEL REINFORCEMENT, GRADE 60 — f'y = 60,000 PSI

TRAFFIC VOLUME

STH 29  
AADT (2021) = 3,600  
AADT (2041) = 4,200  
DESIGN SPEED = 60 MPH

LIST OF DRAWINGS

- GENERAL PLAN & ELEVATION
- CONSTRUCTION DETAILS & QUANTITIES

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:  
BILL DREHER (608) 266-8489

CONSULTANT:  
BETH NEMEC (715) 342-3069

AECOM PROJECT NO. 60583549

NO.	DATE	REVISION	BY
<b>AECOM</b>			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		CHIEF STRUCTURES DESIGN ENGINEER	DATE _____
STRUCTURE B-47-21			
STH 29 OVER GREENWOOD VALLEY CREEK			
COUNTY	PIERCE	TOWN/CITY/VILLAGE	RIVER FALLS
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	EAN	DESIGN CK'D.	KRH
DRAWN BY	KAM	PLANS CK'D.	MSK
GENERAL PLAN & ELEVATION			SHEET 1 OF 2

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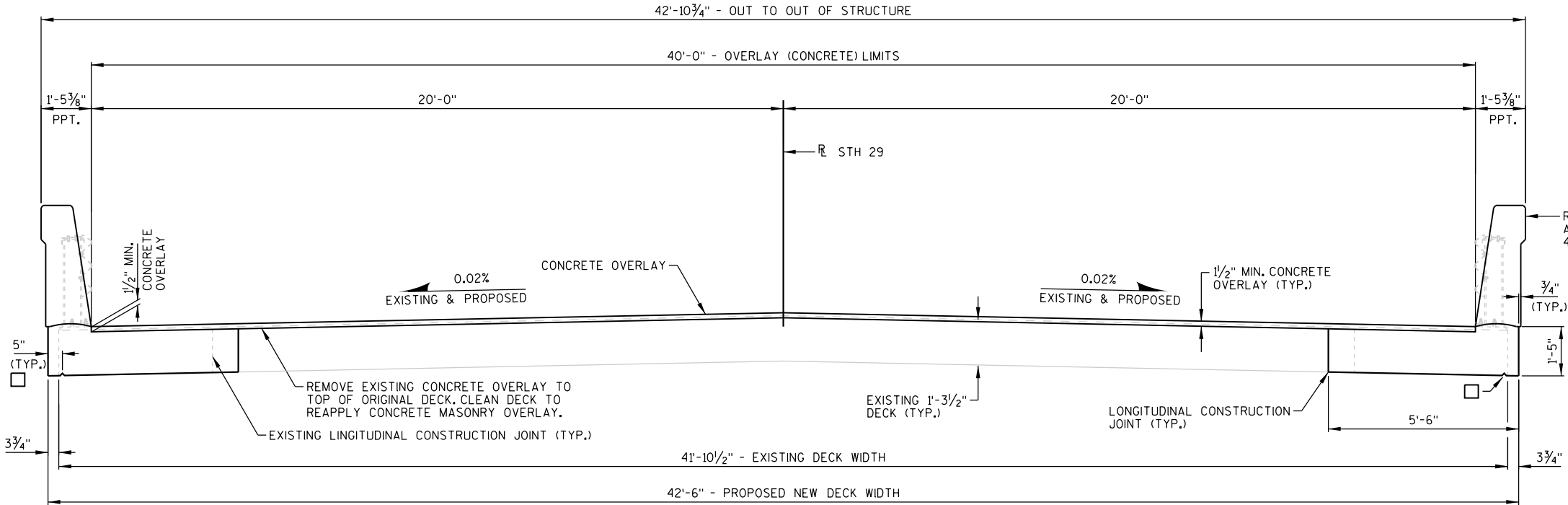
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BATCH PRINT SHEET 2 OF 2

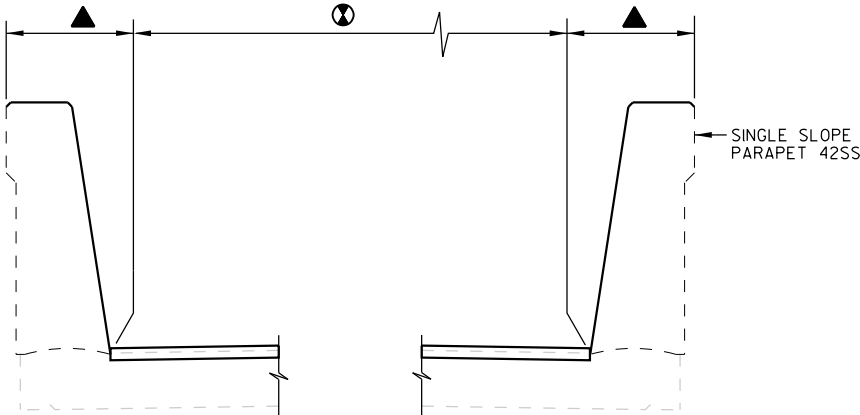
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STATE PROJECT NUMBER

7650-01-05



CROSS SECTION THRU ROADWAY  
(LOOKING UPSTATION)



SURFACE PROTECTION DETAIL

LEGEND

- ☆ CONCRETE SURFACE REPAIR REQUIRED AT SUBSTRUCTURE. LOCATION TO BE VERIFIED IN THE FIELD BY THE ENGINEER.
- ▲ BID ITEM INCLUDES CONCRETE FOR PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, FULL-DEPTH DECK REPAIR. LOCATIONS TO BE VERIFIED IN THE FIELD BY THE ENGINEER.
- ▲ "PIGMENTED SURFACE SEALER" LIMITS
- ⊗ "PROTECTIVE SURFACE TREATMENT" LIMITS
- 3/4" V-GROOVE REQUIRED. EXTEND TO 6" FROM FRONT FACE OF ABUT./PIER BODY.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-47-21	SY	
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-47-21			
DRAWN BY		KAM	PLANS CK'D. MSK
CONSTRUCTION DETAILS & QUANTITIES		SHEET 2 OF 2	

8