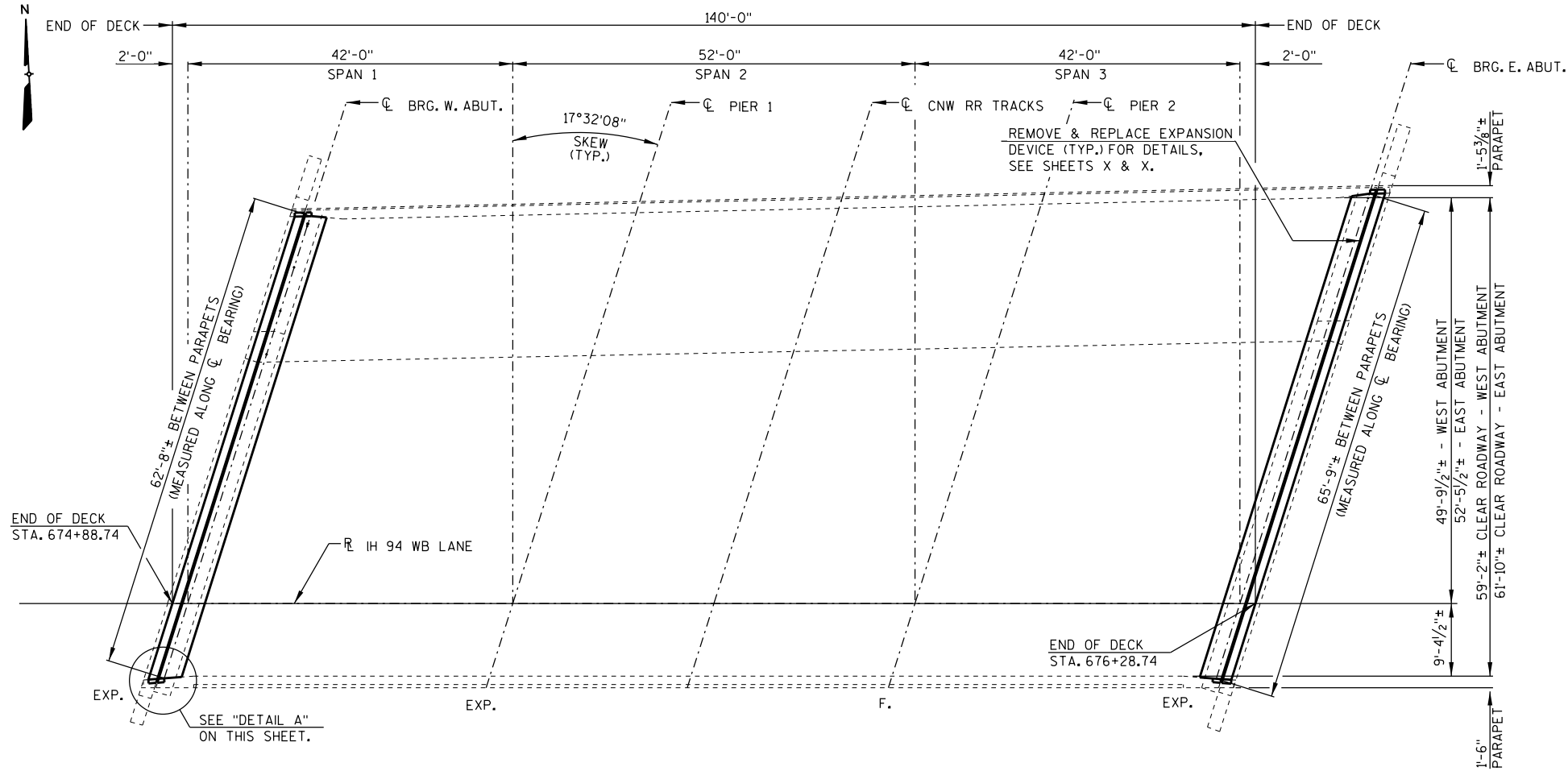
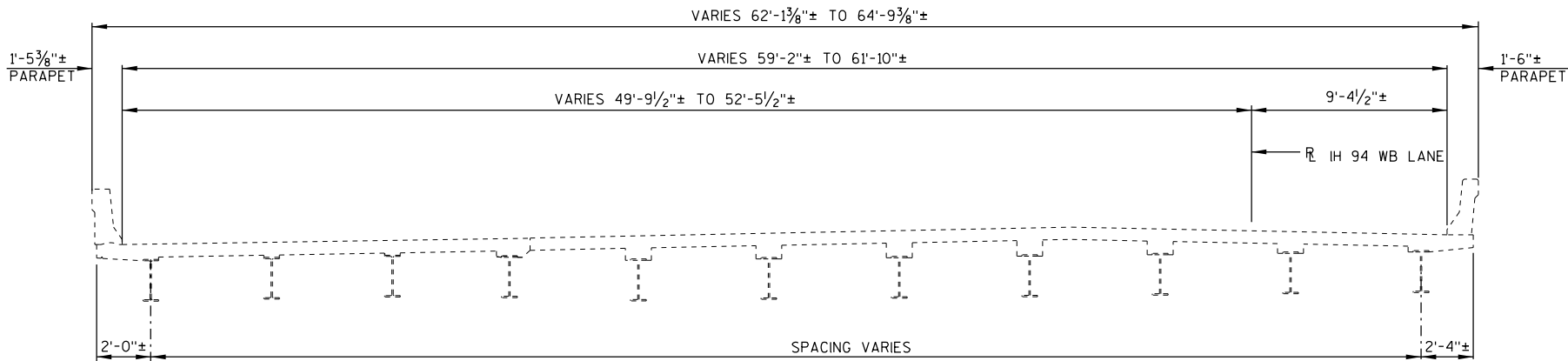


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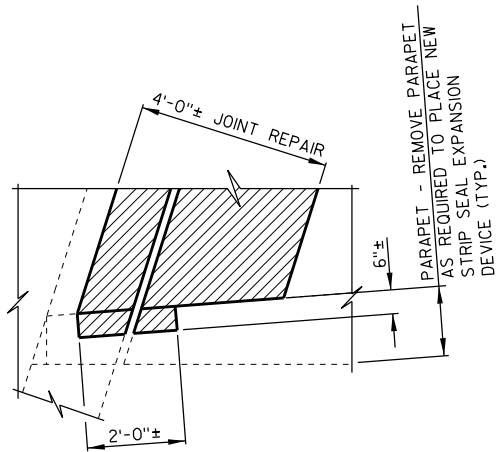
PLAN - B-28-19
(3 SPAN - STEEL GIRDERS)



CROSS SECTION THRU ROADWAY
(LOOKING UPSTATION)

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
505	676+45±, 54.5'± LT.	DISK AT NE CORNER OF B-28-19	840.09



DETAIL A

NOTE: SALVAGE ALL EXISTING LONGITUDINAL AND TRANSVERSE REINFORCEMENT.

DESIGN DATA

LIVELOAD:
DESIGN LOADING: HS-20
INVENTORY RATING: HS-18 (TAKEN FROM HSI, 5/24/2013)
OPERATIONAL RATING: HS-30 (TAKEN FROM HSI, 5/24/2013)
MAX STANDARD PERMIT VEHICLE: 250 KIPS (TAKEN FROM HSI, 5/24/2013)
MATERIAL PROPERTIES:
CONCRETE MASONRY DECK REPAIR $f'c = 4,000$ PSI
CONCRETE MASONRY - ALL OTHER $f'c = 3,500$ PSI
BAR STEEL REINFORCEMENT, GRADE 60 $fy = 60,000$ PSI

TRAFFIC DATA

IH 94
A.D.T. (2023) = XXXXXX
A.D.T. (2043) = XXXXXX
DESIGN SPEED = 70 M.P.H.

STATE PROJECT NUMBER
1067-01-85

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. CONSTRUCTION STAGING
4. INFRARED INSPECTION RESULTS
5. DECK REPAIR AREAS

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
BILL DREHER (608) 266-8489
CONSULTANT:
MATT KRIPPNER (608) 828-8123

NO.	DATE	REVISION	BY
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AECOM			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		CHIEF STRUCTURES DESIGN ENGINEER	
DATE		DATE	
STRUCTURE B-28-19			
IH 94 (WB) OVER CNW RR			
COUNTY	JEFFERSON	TOWN/CITY/VILLAGE	JOHNSON CREEK
DESIGN SPEC.			
DESIGNED BY	AMF	DESIGN CK'D.	MSK
DRAWN BY	TAW	PLANS CK'D.	MSK
GENERAL PLAN			SHEET 1 OF 5

8

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TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
502.3100	EXPANSION DEVICE B-28-19	LS	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
506.6000	BEARING ASSEMBLIES EXPANSION B-28-19	EACH	
506.7050.S	REMOVING BEARINGS B-28-19	EACH	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	
509.1000	JOINT REPAIR	SY	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	
509.9050.S	CLEANING PARAPETS	LF	
	NON-BID ITEMS		
	FILLER	SIZE	1/2" & 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS,

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW JOINT AND TOPS OF PAVING BLOCKS.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE TOP AND INSIDE FACES OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO THIS APPLICATION. APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF NEW SECTIONS OF PARAPET AT THE JOINT REPLACEMENT.

"CONCRETE SURFACE REPAIR" AT PARAPETS/ABUTMENTS IS ESTIMATED TO BE 20 S.F. "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.

ALL CONCRETE SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT.

ANY EXCAVATION REQUIRED TO COMPLETE THE JOINT REPAIRS AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY DECK REPAIRS".

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY DECK REPAIR". THIS INCLUDES CONCRETE TO REPLACE SECTIONS OF THE PARAPET WITHIN THE JOINT REPAIR LIMITS.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-28-19".

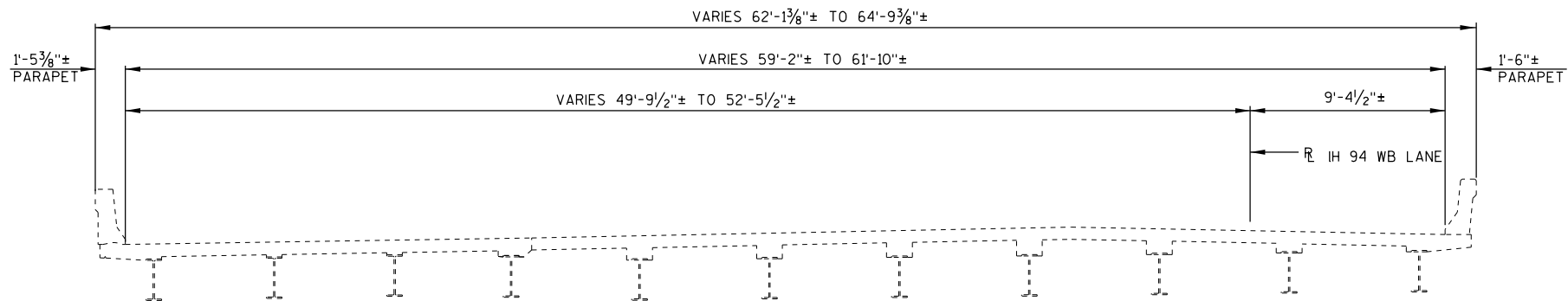
REMOVE EXPANSION BEARING ASSEMBLIES AT THE ABUTMENTS AND PIERS UNDER THE BID ITEM "REMOVING BEARINGS B-28-19" AND REPLACE WITH STEEL EXPANSION BEARINGS.

STATE PROJECT NUMBER

1067-01-85

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-28-19			
		DRAWN BY	TAW PLANS CK'D. MSK
QUANTITIES & NOTES		SHEET 2 OF 5	

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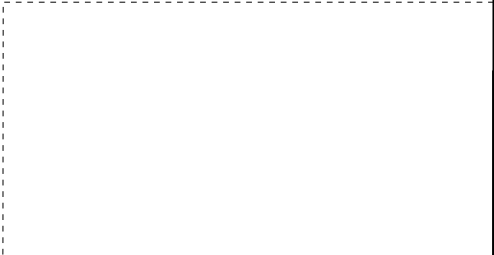


CROSS SECTION THRU ROADWAY - STAGE 1
(LOOKING UPSTATION)

STAGING SEQUENCE TO BE DETERMINED IN FINAL DESIGN.

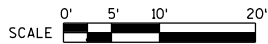
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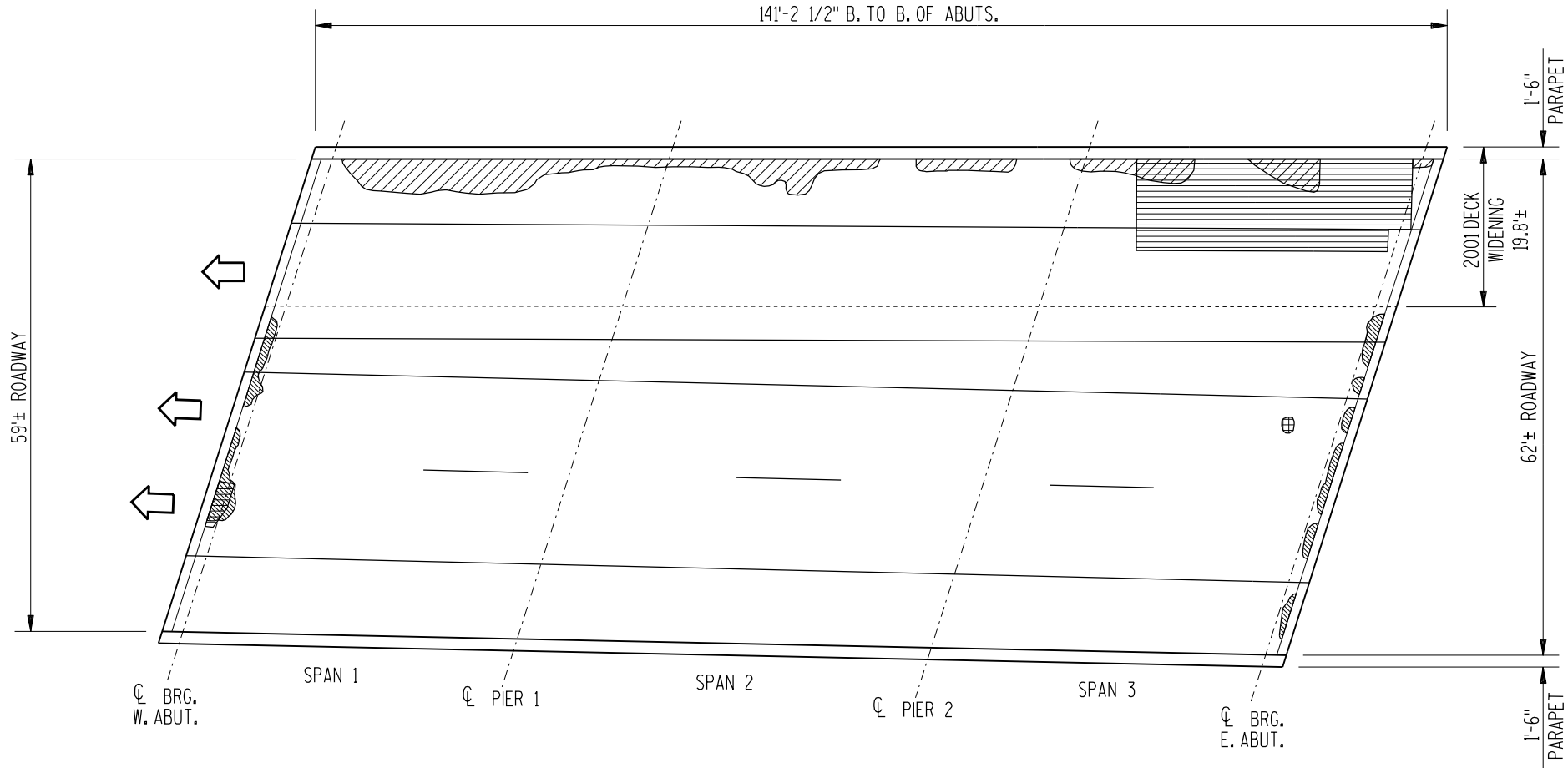


NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-28-19			
DRAWN BY		TAW	PLANS CK'D. MSK
CONSTRUCTION STAGING		SHEET 3 OF 5	

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PLOT DATE: 2/15/2019 PLOT TIME: 7:32:09 AM



SURFACE TYPE: CONCRETE - NO OVERLAY
INFRARED INSPECTION DATE: 9/11/18

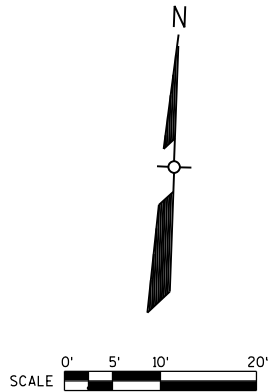


PLAN
DECK INSPECTION RESULTS

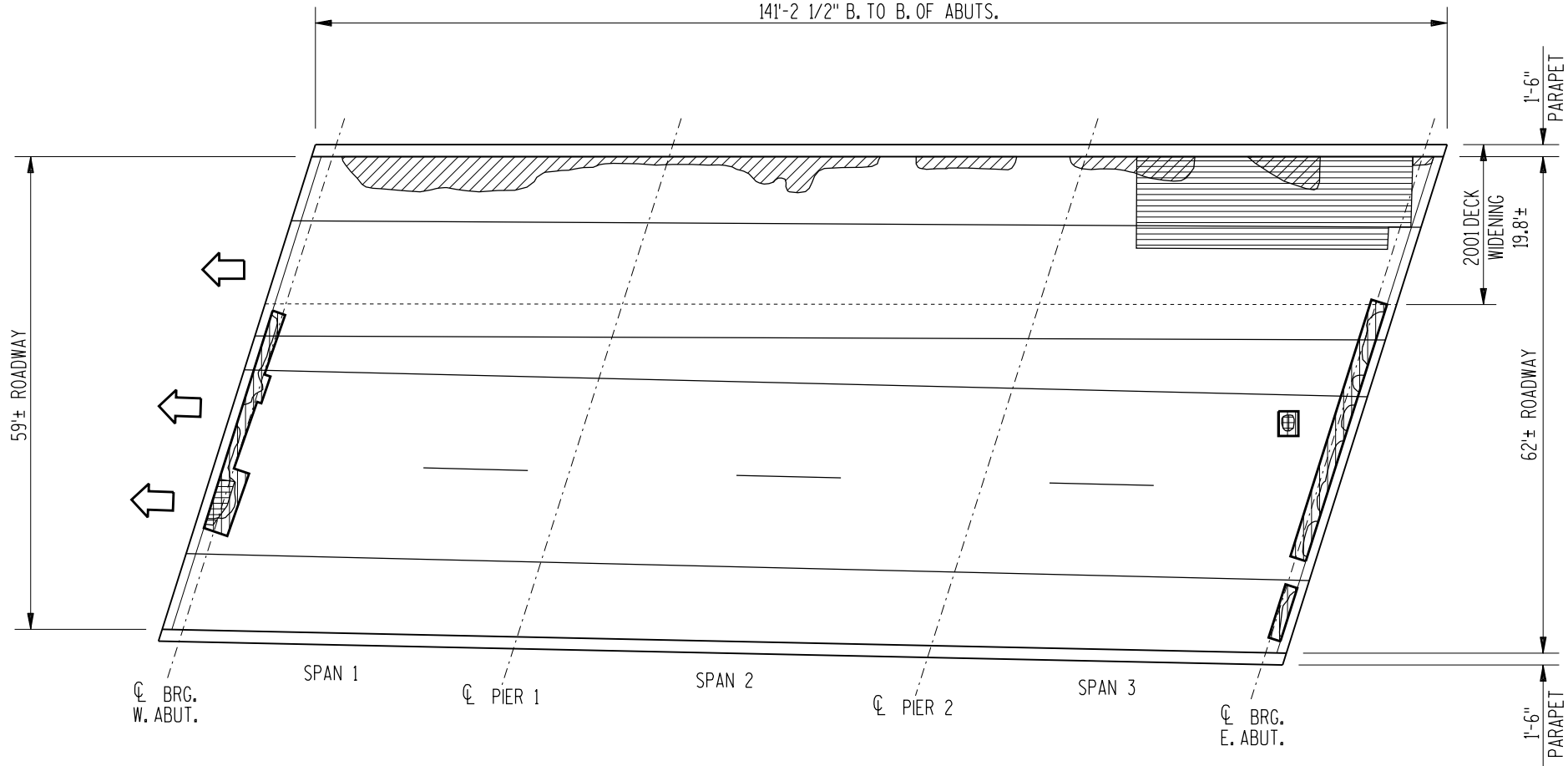
FIELD OBSERVATIONS SUMMARY		S.N. B-28-19		LEGEND	
ITEM	UNIT	QUANT.	%		
TOTAL AREA	ft ²	8543		DELAMINATION	
SHADE/DEBRIS	ft ²	244		SPALL	
DELAMINATION	ft ²	59	0.7	DEBOND	
SPALL	ft ²	0	0	AC PATCH	
DEBOND	ft ²	N/A	N/A	CONCRETE PATCH	
ASPHALT PATCH	ft ²	2	<0.1	SHADE/DEBRIS	
CONCRETE PATCH	ft ²	397	4.8		

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-28-19			
DRAWN BY		TAW	PLANS CK'D. MSK
INFRARED INSPECTION RESULTS		SHEET 4 OF 5	

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PLOT DATE: 2/15/2019 PLOT TIME: 7:31:45 AM



SURFACE TYPE: CONCRETE - NO OVERLAY
INFRARED INSPECTION DATE: 9/11/18



PLAN
PROPOSED REHAB AREAS

REHAB AREA SUMMARY		S.N. B-28-19		LEGEND	
ITEM	UNIT	QUANT.	%	DECK PREPARATION AREA	DELAMINATION
TOTAL AREA	y ^d	949.2			
SHADE/DEBRIS	y ^d	27.1		SHADE/DEBRIS	SPALL
PREPARATION, DECKS, TYPE 1	y ^d	16.2	1.8		DEBOND
PREPARATION, DECKS, TYPE 2	y ^d	1.6	0.2		AC PATCH
FULL DEPTH DECK REPAIR	y ^d	1.0	0.1		CONCRETE PATCH

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-28-19			
DRAWN BY		TAW	PLANS CK'D. MSK
DECK REPAIR AREAS		SHEET 5 OF 5	