

LIVE LOAD:
DESIGN LOADING _____ HS20
INVENTORY RATING _____ HSXX
OPERATING RATING _____ HSXX
WISCONSIN STANDARD PERMIT
VEHICLE (WIS-SPV) _____ XXX KIPS

MATERIAL PROPERTIES

CONCRETE SUPERSTRUCTURE _____	$f'_c = 4,000$ PSI
CONCRETE SUBSTRUCTURE _____	$f'_c = 3,500$ PSI
CONCRETE MASONRY OVERLAY DECKS _____	$f'_c = 4,000$ PSI
HIGH STRENGTH BAR STEEL	
REINFORCEMENT (GRADE 60) _____	$f_y = 60,000$ PSI

USH 53
A.D.T. (2023) = 11,790
DESIGN SPEED = 80 MPH

A.D.T. (2016) = 8,600
DESIGN SPEED = 60 MPH


* LOCATION OF ANCHOR ASSEMBLIES FOR THRE BEAM ATTACHMENT.

(X) DENOTES WINGWALL NUMBER.

▲ MIN. VERTICAL CLEARANCE TAKEN FROM HSI SITE.

1. GENERAL PLAN
2. CROSS SECTIONS & QUANTITIES
3. CONSTRUCTION STAGING

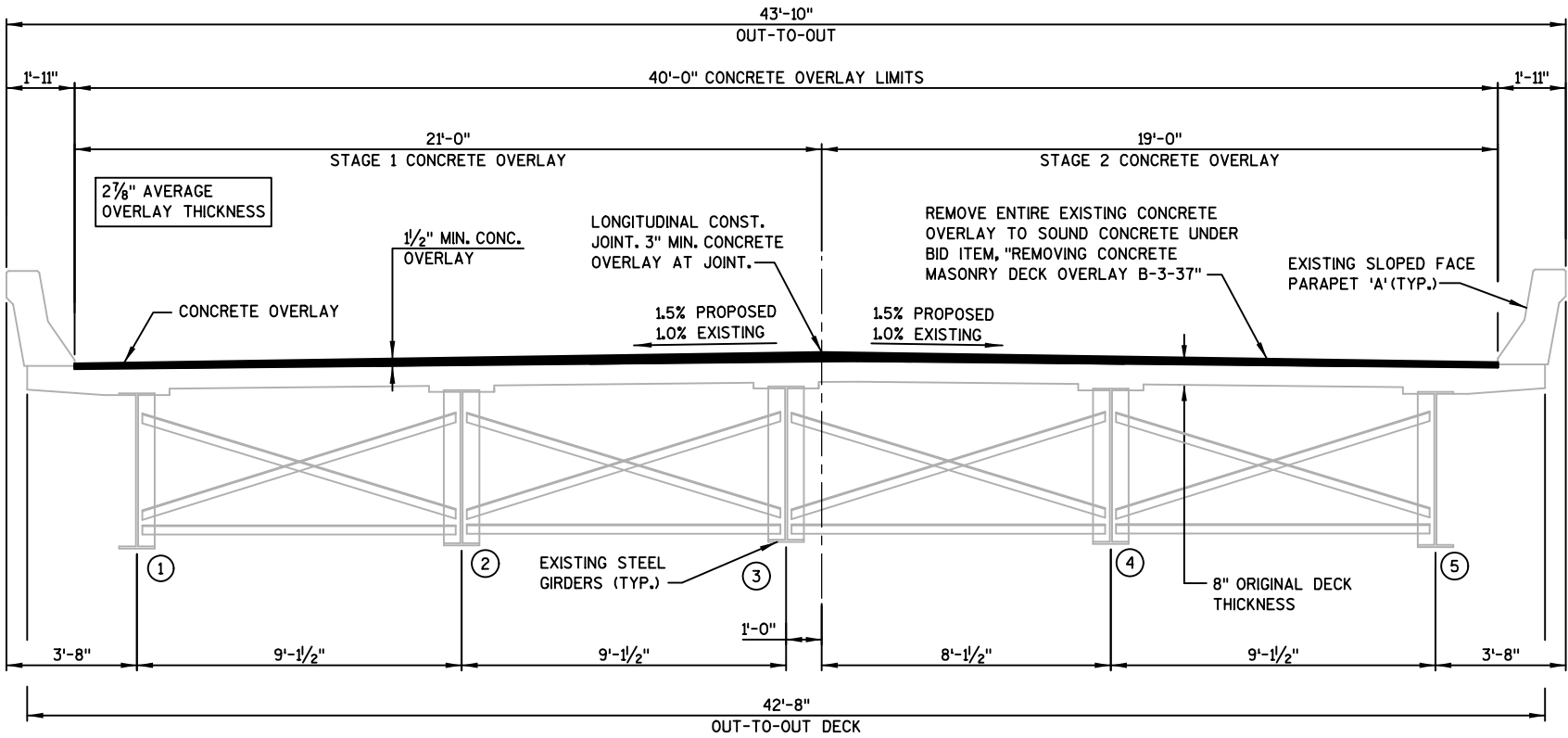
BRIDGE OFFICE CONTACT:
WILLIAM DREHER (608) 266-8489
DESIGN CONSULTANT CONTACT:
BRETT OFTEDAHL (608) 251-4843

NO.	DATE	REVISION		BY
		910 WEST WINGRA DRIVE MADISON, WISCONSIN 53715 (608)-251-4843 (608) 251-8655 FAX WWW.STRAND.COM		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION				
ACCEPTED _____		_____ DATE		
CHIEF		STRUCTURES DESIGN ENGINEER		
<h1>STRUCTURE B-3-37</h1>				
USH 53 SB OVER USH 8				
COUNTY		TOWN/CITY/VILLAGE		
BARRON		STANLEY		
DESIGN SPEC. REHABILITATION N/A				
DESIGNED BY	EJC	DESIGN CK'D.	BMO	DRAWN BY
				DTH
				PLANS CK'D.
				BMO
<h2>GENERAL PLAN</h2>				SHEET 1 OF



BM NO.	COORDINATES	DESCRIPTION	ELEV.
BM 1	Y: 62,128.59 X: 354,745.03	NW CORNER BRIDGE DECK B-3-24 (CTH 1)	1065.33'
BM 2	Y: 61,303.85 X: 355,782.67	NW CORNER BRIDGE DECK B-3-20 (CHETEK RIVER)	1043.96'
BM 3	Y: 66,181.31 X: 344,955.75	NW CORNER BRIDGE DECK B-3-26 (KNAPP STREET)	1077.68'

NOTE: BENCH MARKS ARE LOCATED OUTSIDE OF PLAN EXTENTS. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.



TYPICAL CROSS SECTION
(LOOKING NORTH)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	S. ABUT	N. ABUT.	SUPERSTRUCTURE	TOTAL	UNIT
203.0200	REMOVING OLD STRUCTURE STA. 871+13 SB	---	---	---	1	LS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-3-37	---	---	---	1	LS
210.1500	BACKFILL STRUCTURE TYPE A	---	---	---	0	TON
502.0100	CONCRETE MASONRY BRIDGES	---	---	---	0	CY
502.0717.S	CRACK SEALING EPOXY	---	---	---	0	LF
502.3101	EXPANSION DEVICE B-3-37	---	---	---	0	LF
502.3200	PROTECTIVE SURFACE TREATMENT	---	---	---	0	SY
502.3210	PIGMENTED SURFACE SEALER	---	---	---	0	SY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	---	---	---	0	EACH
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	---	---	---	0	LB
509.0301	PREPARATION DECKS TYPE 1	---	---	95	95	SY
509.0302	PREPARATION DECKS TYPE 2	---	---	45	45	SY
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	---	---	---	0	SY
509.1000	JOINT REPAIR	---	---	---	0	SY
509.1500	CONCRETE SURFACE REPAIR	10	---	20	30	SF
509.2000	FULL-DEPTH DECK REPAIR	---	---	5	5	SY
509.2500	CONCRETE MASONRY OVERLAY DECKS	---	---	---	0	CY
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-3-37	---	---	---	0	SY
509.9020.S	EPOXY CRACK SEALING	---	---	---	0	LF
509.9050.S	CLEANING PARAPETS	---	---	---	0	LF
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	---	---	---	0	SY
517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-3-37	---	---	---	1	LS
517.3000.S	STRUCTURE OVERCOATING CLEANING AND PRIMING B-3-37	---	---	---	1	LS
517.4000.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-3-37	---	---	---	1	LS
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	---	---	---	0	EACH
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	---	---	---	0	SY
SPV.0180.XX	EPOXY SEALER	---	---	---	0	SY
NON-BID ITEMS						
	FILLER	---	---	---	1/2", 3/4"	SIZE

GENERAL NOTES

THE PROPOSED WORK INCLUDES REMOVING EXISTING CONCRETE OVERLAY, PLACING A NEW CONCRETE OVERLAY, JOINT REPLACEMENT AT BOTH ABUTMENTS, CONCRETE SURFACE REPAIR AT ABUTMENTS AND PARAPETS, EPOXY CRACK SEALING VERTICAL CRACKS AT ABUTMENTS, CLEANING PARAPETS, CLEANING AND REPAINTING TOP FLANGES OF GIRDERS AT JOINT REPAIR LOCATIONS, EPOXY SEALING TOP OF BOTH ABUTS., AND REPLACING UPPER WINGWALLS.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND SUBSEQUENT REHABILITATION PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS ARE IN FEET.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

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

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

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

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

PARAPETS SHALL BE CLEANED PER "CLEANING PARAPETS" BID ITEM.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE TOP, ENDS, AND ROADWAY FACES OF EXISTING CONCRETE PARAPET AFTER ALL WORK IS COMPLETED FOR "CLEANING PARAPETS" AND "CONCRETE SURFACE REPAIR" BID ITEMS.

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 ORIGINAL CONCRETE OVERLAY SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-3-37".

AFTER REMOVAL OF THE EXISTING CONCRETE OVERLAY AND PRIOR TO NEW CONCRETE WORK, THE ENTIRE BRIDGE DECK SHALL BE CLEANED PER BID ITEM, "CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY".

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS IN DECK (AFTER DECK PREPARATION AND PRIOR TO CONCRETE OVERLAY) WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER PER BID ITEM "CRACK SEALING EPOXY".

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

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".

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

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 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.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE INCLUDED WITH BID ITEM "EXPANSION DEVICE B-3-37".

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWING. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR, 1972.

PERFORM CONCRETE SURFACE REPAIR AS DIRECTED BY THE FIELD ENGINEER. QUANTITY SHOWN IS APPROXIMATE.

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

AT ABUTMENTS, ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE COLOR OF THE FINISH TOP COAT ON THE STEEL GIRDERS AT JOINT REPAIR LOCATIONS SHALL BE AMS STANDARD COLOR NO. 26293 (LIGHT GRAY).

LEGEND

(X) DENOTES GIRDER NUMBER

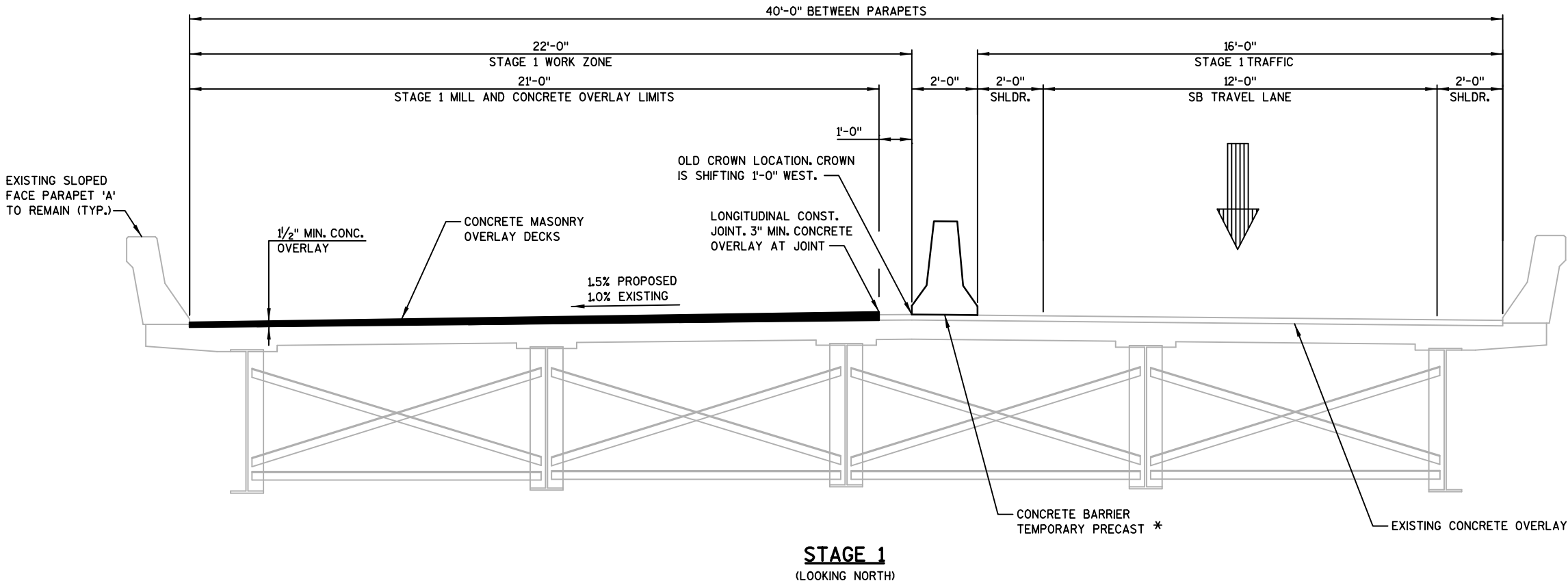
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-3-37			
DRAWN BY		OTH	PLANS CK'D. BMO
CROSS SECTION AND QUANTITIES			SHEET 2 OF 3

NOTES

SEE ROADWAY PLANS FOR ADDITIONAL STAGING INFORMATION.

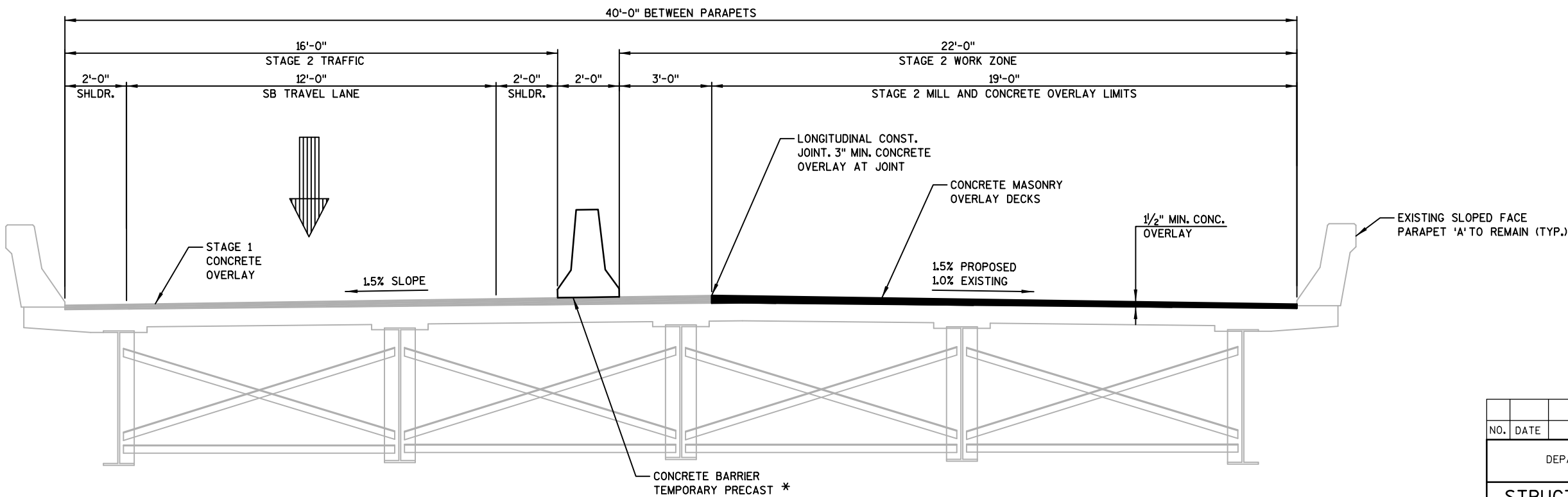
LEGEND

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STAGE 1

(LOOKING NORTH)



STAGE 2

(LOOKING NORTH)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-3-37			
DRAWN BY		DTH	PLANS CK'D. BMO
CONSTRUCTION STAGING		SHEET 3 OF 3	