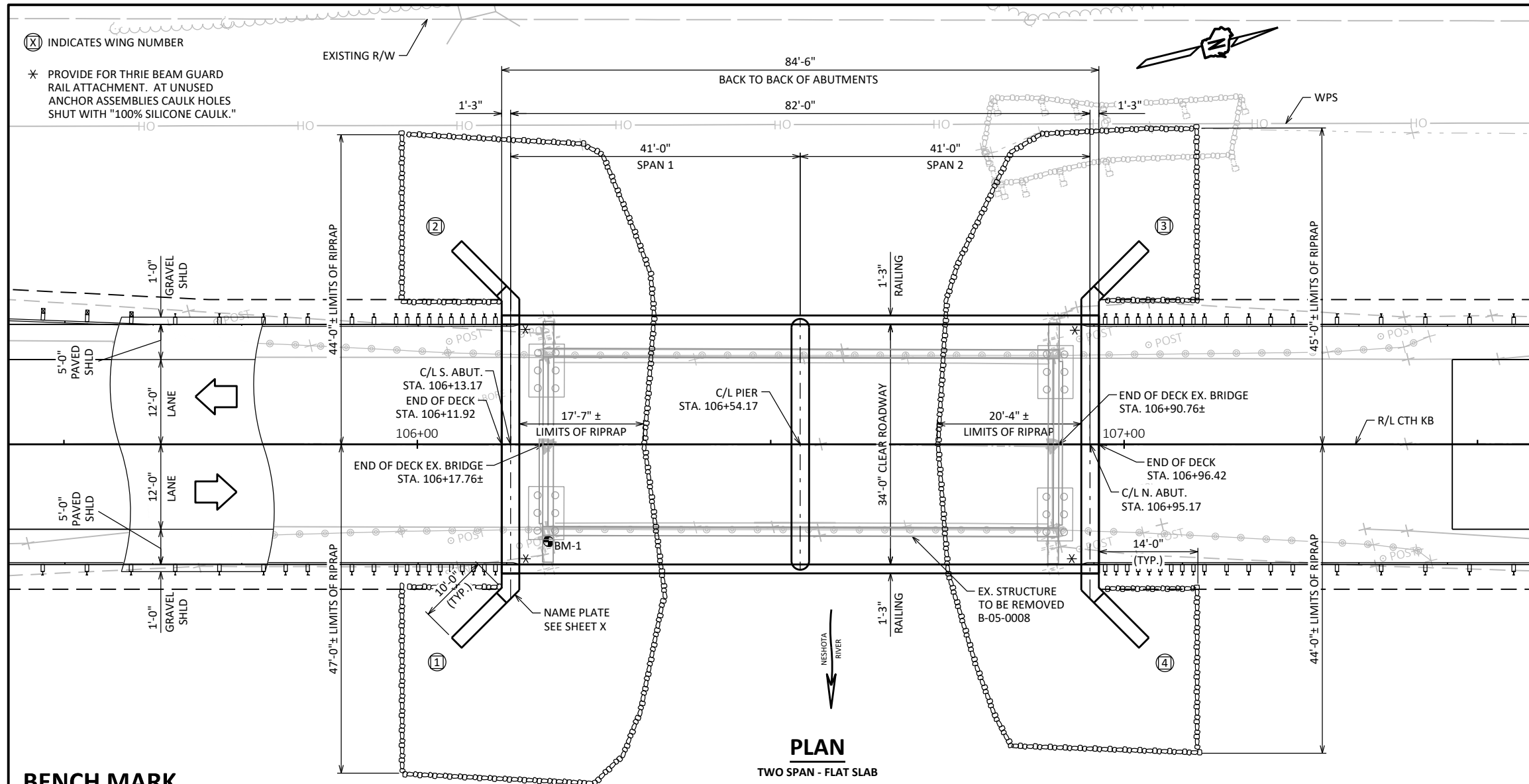


(X) INDICATES WING NUMBER

* PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT. AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK."



PLAN

TWO SPAN - FLAT SLAB

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
 INVENTORY RATING: RF =
 OPERATING RATING: RF =
 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): XXX (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
 SUPERSTRUCTURE $f'_c = 4,000$ PSI
 ALL OTHER $f'_c = 3,500$ PSI

BAR STEEL REINFORCEMENT
 GRADE 60 $f_y = 60,000$ PSI
 STAINLESS, GRADE 60 $f_y = 60,000$ PSI

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF XXX TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 30'-0" LONG.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE PILE CAPACITY.

HYDRAULIC DATA

100-YEAR FREQUENCY:

$Q_{100} = 220$ C.F.S.
 $V_{100} = 4.7$ F.P.S.
 $HW_{100} =$
 WATERWAY AREA = 46.4 SQ. FT.
 DRAINAGE AREA = 44.5 SQ. MI.
 ROADWAY OVERTOPPING = N/A
 SCOUR CRITICAL CODE = 5

2-YEAR FREQUENCY:

$Q_2 =$ C.F.S.
 $V_2 =$ F.P.S.
 $HW_2 = EL. 700.19$

TRAFFIC DATA

CTH KB:
 ADT = 1620 (2023)
 ADT = 1860 (2043)
 R.D.S. = 55 MPH

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
1	106+18.55	DISK ON BRIDGE	706.22

LIST OF DRAWINGS:

1. GENERAL PLAN
2. QUANTITIES, CROSS SECTIONS & NOTES
3. SUBSURFACE EXPLORATION

CONCEPT PLAN 12/11/24

NO.	DATE	REVISION	BY



STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

ACCEPTED _____
 CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-5-485

COUNTY BROWN TOWN/VILLAGE NEW DENMARK

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATION
 DESIGNED BY DCH CK'D MSK DRAWN BY DCH PLANS CK'D MSK

GENERAL PLAN SHEET 1 OF 3

STRUCTURE DESIGN CONTACT:

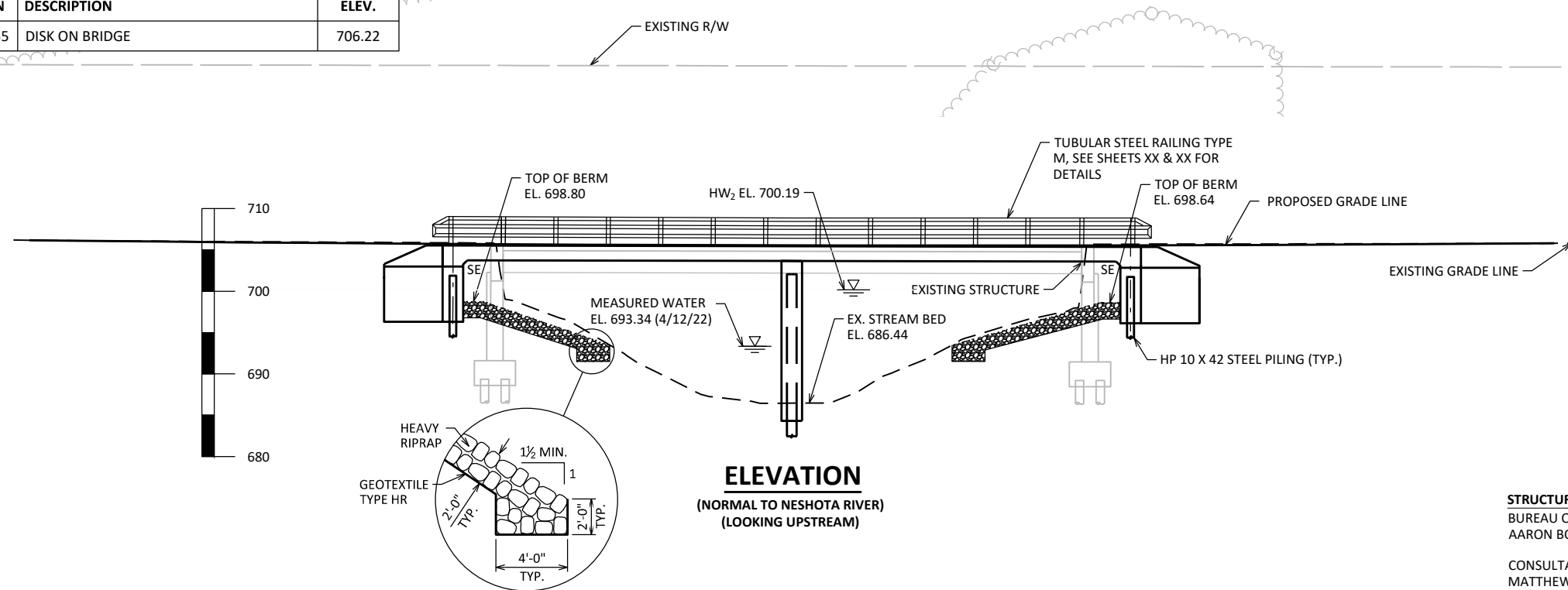
BUREAU OF STRUCTURES:
 AARON BONK (608) 261-0261

CONSULTANT:
 MATTHEW KRIPPNER (608) 828-8123

8

8

SCALE =



ELEVATION

(NORMAL TO NESHOTA RIVER)
 (LOOKING UPSTREAM)