

DESIGN DATA

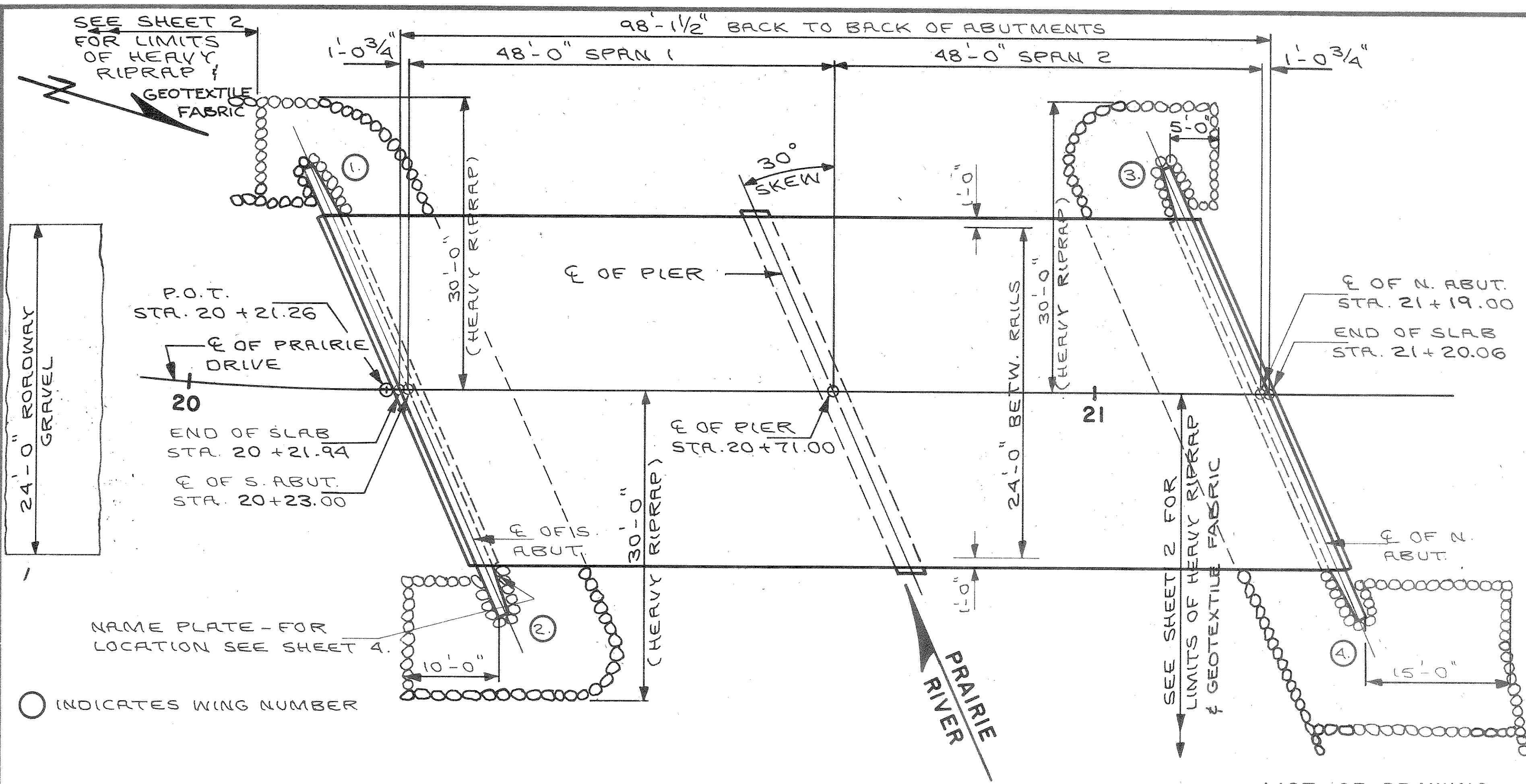
LIVELOAD:
 DESIGN RATING: H-20
 INVENTORY RATING: HS-22
 OPERATIONAL RATING: HS-36
 STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQ. FT.

ALLOWABLE DESIGN STRESSES:
 CONCRETE MASONRY - SLAB $f_c = 4,000$ P.S.I.
 - ALL OTHER $f_c = 3,500$ P.S.I.
 HIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 $f_y = 60,000$ P.S.I.

FOUNDATION DATA:
 ABUTMENTS TO BE SUPPORTED ON 10 3/4" DIA. C.I.P. CONC. PILING DRIVEN TO A MIN. BRG. VALUE OF 40 TONS PER PILE. PIERS TO BE SUPPORTED ON 12" DIA. C.I.P. CONC. PILING DRIVEN TO A MIN. BRG. VALUE OF 55 TONS PER PILE. EST. LENGTHS ARE: S. ABUT. - 50'-0"; PIER - 55'-0"; N. ABUT. - 40'-0".

HYDRAULIC DATA:
 100 YEAR FREQUENCY
 DRAINAGE AREA 112.8 SQ. MI.
 Q 100 3,100 C.F.S.
 VELOCITY 7.7 F.P.S.
 WATERWAY AREA 400 SQ. FT.
 HIGH WATER 100 ELEVATION 1409.2 ±
 ROAD OVERTOPPING NOT APPLICABLE

TRAFFIC DATA:
 A.D.T. (1986) = 40
 A.D.T. (2006) = 60
 DESIGN SPEED = 30 M.P.H.



PLAN
(2 SPAN HAUNCHED SLAB)

NOTE: EXISTING STRUCTURE, P-35-82, IS LOCATED 60' ± UPSTREAM. (TO BE REMOVED)

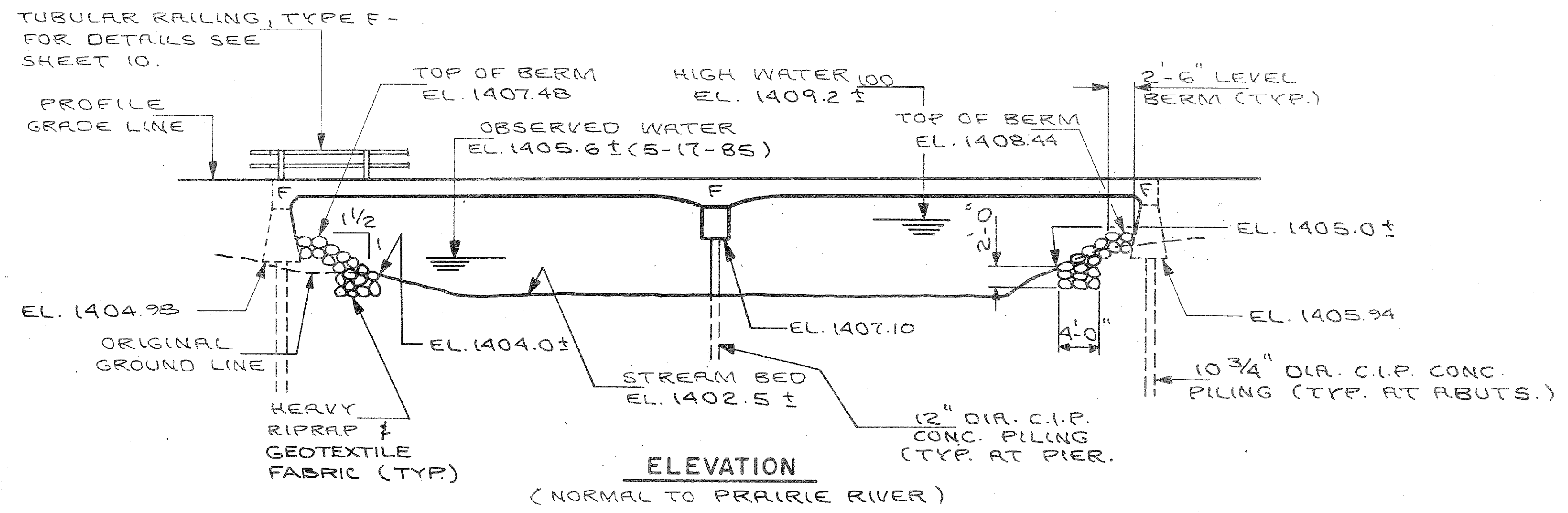
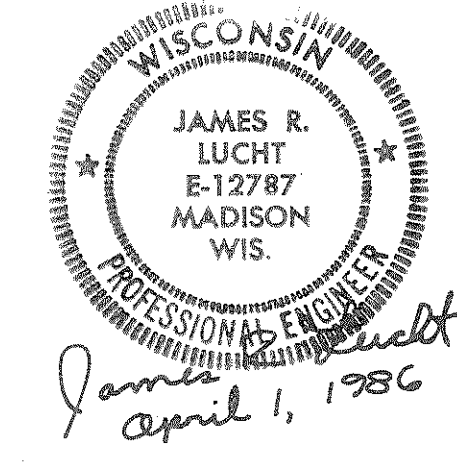
BENCH MARK

NO.	STA.	DESCRIPTION	ELEV.
1	-	TOP OF BOLT IN S.W. COR. ABUT. PILING, PRINTED RED	1412.38

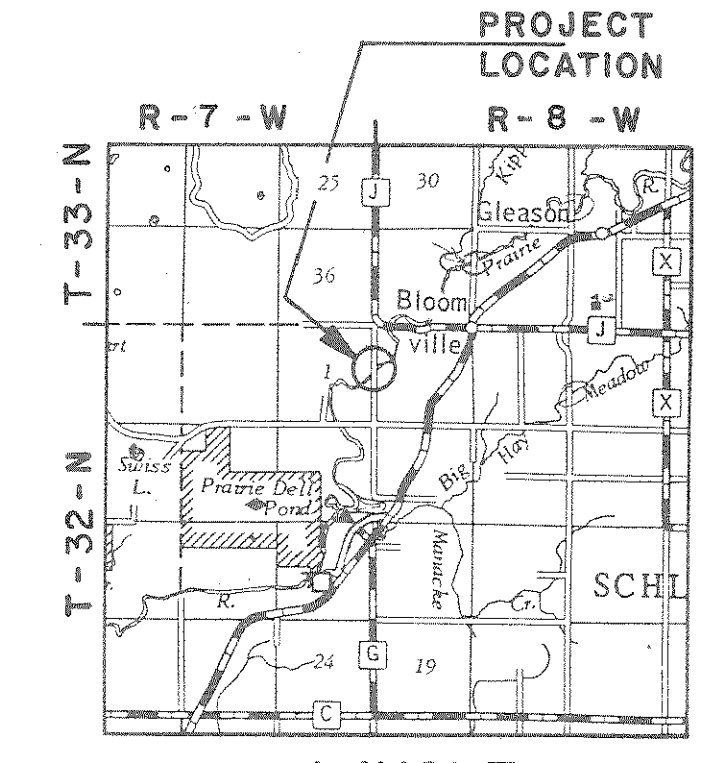
- LIST OF DRAWING**
- 1. GENERAL PLAN X 78805
 - 2. GENERAL PLAN X 78806
 - 3. SUBSURFACE EXPLORATION X 78807
 - 4. SOUTH ABUTMENT X 78808
 - 5. NORTH ABUTMENT X 78809
 - 6. WINGS DETAILS X 78810
 - 7. PIER X 78811
 - 8. SUPERSTRUCTURE X 78812
 - 9. SUPERSTRUCTURE X 78813
 - 10. TUBULAR RAILING, TYPE F X 78814

CURVE DATA

P.I. = STA. 19 + 29.56
 I. = 139°-44'-37"
 Δ = 40°-15'-23"
 T. = 100.00'
 L. = 191.70'
 E. = 17.75'
 M. = 16.66'
 C. = 187.78'
 R. = 272.837'
 O. = 21°-00'-00"
 S.E. = NORMAL ROAD CROWN.



ELEVATION
(NORMAL TO PRAIRIE RIVER)



LAYOUT

No.	Date	Revision	By

donohue & associates inc.
 CONSULTING ENGINEERS
 5300 EAST WISCONSIN AVE., SUITE 200, MILWAUKEE, WIS. 53212

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-92

PRAIRIE DRIVE OVER PRAIRIE RIVER

County	LINCOLN	Town	SCHLEY
Design Spec.	A.A.S.H.T.O. 1984	Load	H-20
Design By	MTH	Checked	JRL
Drawn By	LEN	Checked	JRL

Approved: State Bridge Engineer Date

GENERAL PLAN

SHEET 1 OF 10

X78805