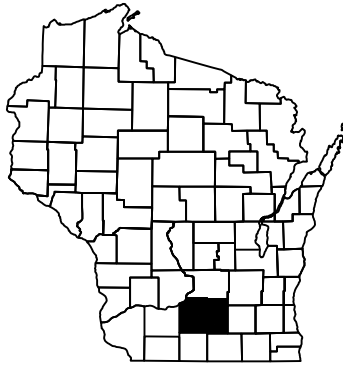


T OF RUTLAND, LAKE KEGONSA ROAD

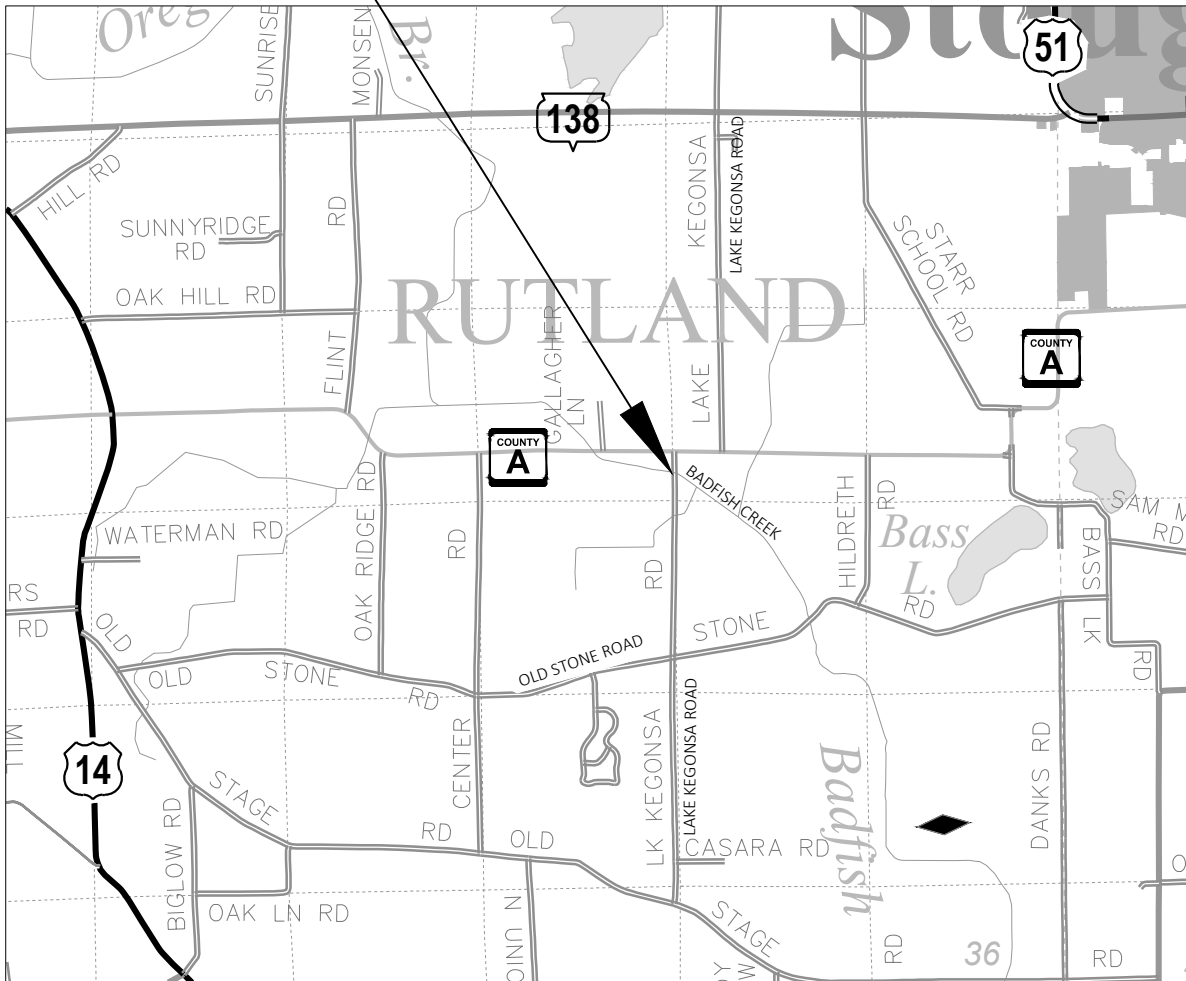
BADFISH CREEK BRIDGE, B-13-0885

LOCAL STREET
DANE COUNTY

STATE PROJECT NUMBER
5742-00-02

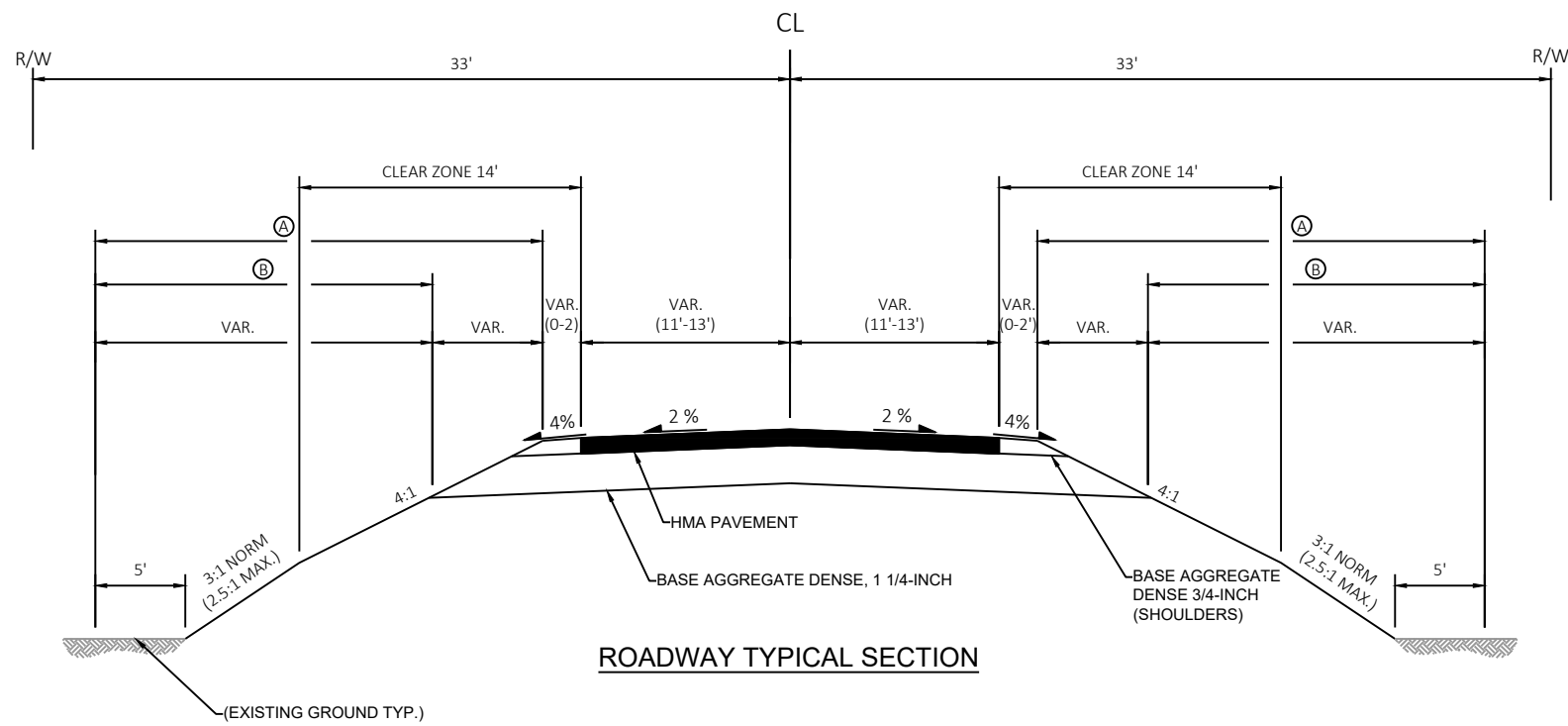


PROJECT LOCATION

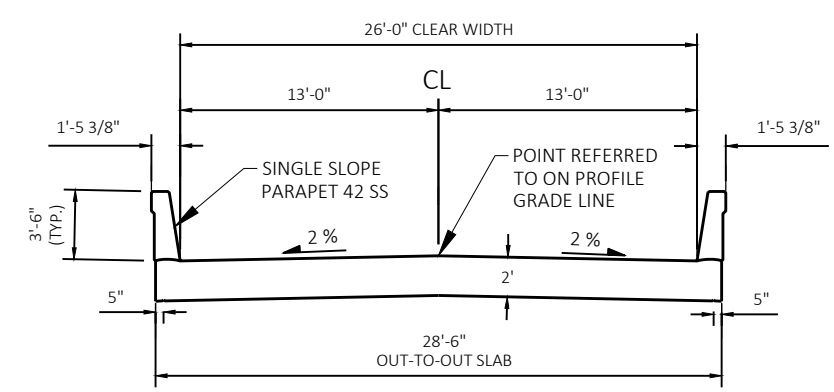


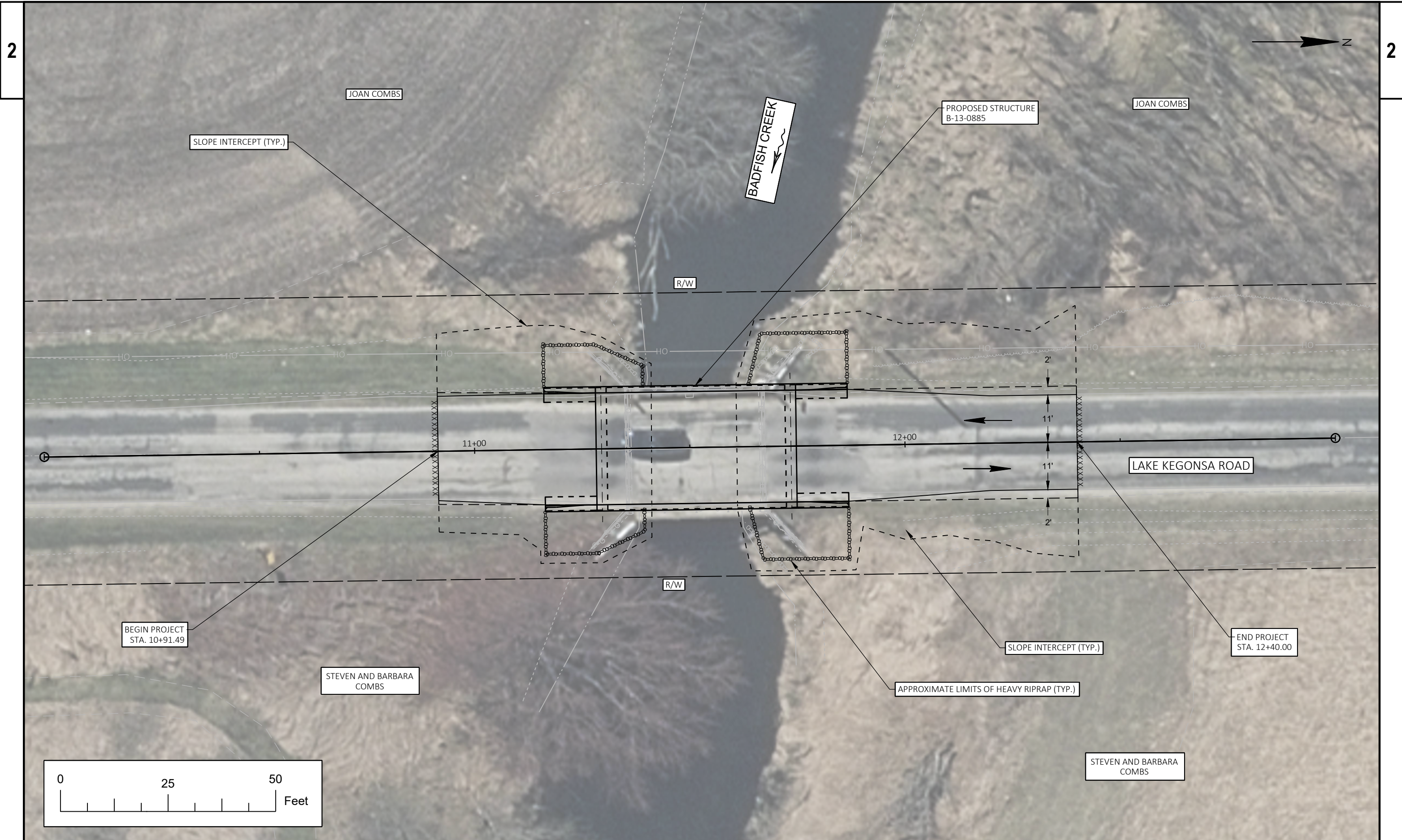
SCALE, MILES 0 0.5 1

PROJECT LOCATION MAP



- Ⓐ SEEDING MIXTURE NO. 20 OR SEEDING MIXTURE NO. 60; AND FERTILIZER TYPE A.
- Ⓑ SALVAGED TOPSOIL; AND EROSION MAT URBAN CLASS I TYPE B OR MULCHING





PROJECT NO: 5742-00-72	HWY: LAKE KEGONSA ROAD	COUNTY: DANE	LAYOUT DETAIL	SHEET	E
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FILE NAME : S:\MAD\1200-1299\1208\017\DRAWINGS\CAD\CIVIL 3D\SHEETS\PLAN\021201-PD.DWG
LAYOUT NAME - Website Overview

PLOT DATE : 8/1/2022 11:01 AM

PLOT BY : STANIOCH, DREW

PLOT NAME :

PLOT SCALE : #####

WISDOT/CADD SHEET 42

HYDRAULIC DATA

100-YEAR FREQUENCY:

Q₁₀₀ = 1,621 C.F.S.
 V₁₀₀ = 6.24 F.P.S.
 HW₁₀₀ = EL. 881.73
 WATERWAY AREA = 259.96 SQ. FT.
 DRAINAGE AREA = 43.5 SQ. MI.
 ROADWAY OVERTOPPING = N/A
 SCOUR CRITICAL CODE = 8

2-YEAR FREQUENCY:

Q₂ = 751 C.F.S.
 V₂ = 5.08 F.P.S.
 HW₂ = EL. 878.63

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
 INVENTORY RATING: RF = 1.XX
 OPERATING RATING: RF = 1.XX
 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

TRAFFIC DATA

FEATURE ON: LAKE KEGONSA ROAD

ADT = 153 (2025)
 ADT = 168 (2045)
 R.D.S. = 50 MPH

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING CIP CONCRETE 10 3/4 X 0.25-INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
 ESTIMATED 35'-0" LONG.
 ESTIMATED 35'-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.

LIST OF DRAWINGS:

- 1 GENERAL PLAN
- 2 CROSS SECTION, QUANTITIES, NOTES, & DETAILS
- 3 SUBSURFACE EXPLORATION

LEGEND

Ⓜ INDICATES WING NUMBER

STRUCTURE DESIGN CONTACTS:

EVAN CONSTANT (608) 251-4843
 AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY



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

STRUCTURE B-13-885

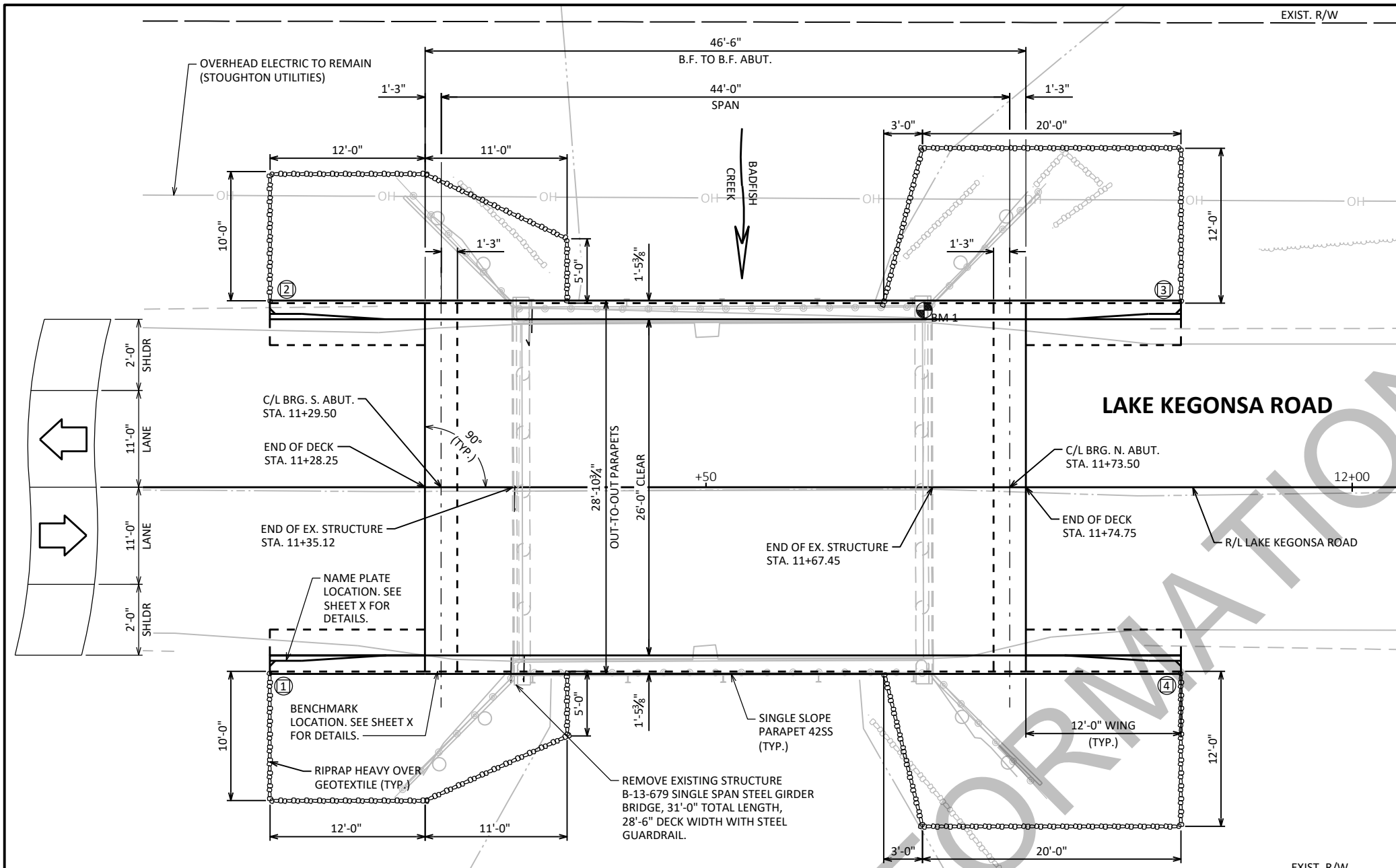
LAKE KEGONSA ROAD OVER BADFISH CREEK

COUNTY DANE TOWN RUTLAND

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATION

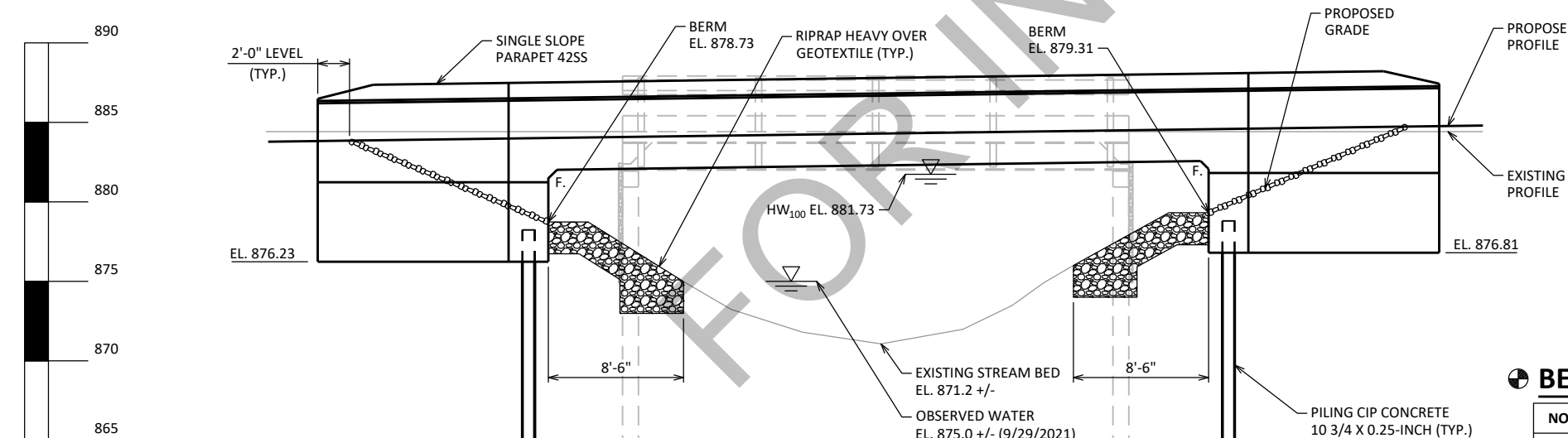
DESIGNED BY	EJC	DESIGNED CK'D	KRB	DRAWN BY	DTH	PLANS CK'D	KRB
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GENERAL PLAN SHEET 1 OF 3



PLAN

(SINGLE-SPAN CONCRETE FLAT SLAB)



ELEVATION

(NORMAL TO SUBSTRUCTURE, LOOKING UPSTREAM)

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
1	11+66.87, 13.7' LT	CHISELED SQUARE TOP OF NW CURB	885.14

8

8

SCALE =

PROJECT SCHEDULE

Preliminary Design Complete	November 2022
Final Design Complete	May 2024
Construction starts	2025

Town of Rutland Supervisor:

Nancy Nedveck
(608) 873-8329

supervisornedveck@town.rutland.wi.us

Design Consultant:

Elisa Becker, P.E.
(608) 251-4843

elisa.becker@strand.com