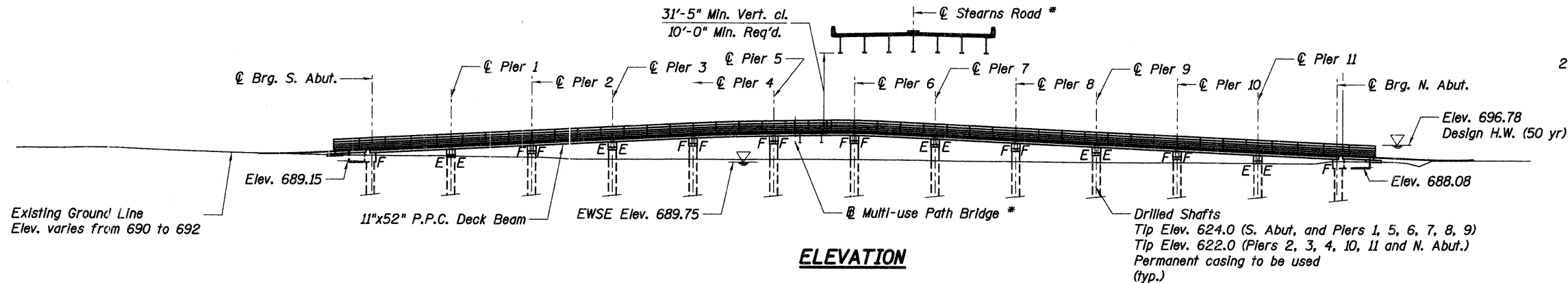


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	06-00214-20-BR	KANE	320	181
STA. 511+80.00		TO STA. 609+14.92		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
		SHEET NO. 576 OF 5108		



ELEVATION

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

MULTI-USE PATH BRIDGE LOADING
85#/sq. ft Pedestrian Load
H-10 Vehicle Loading

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

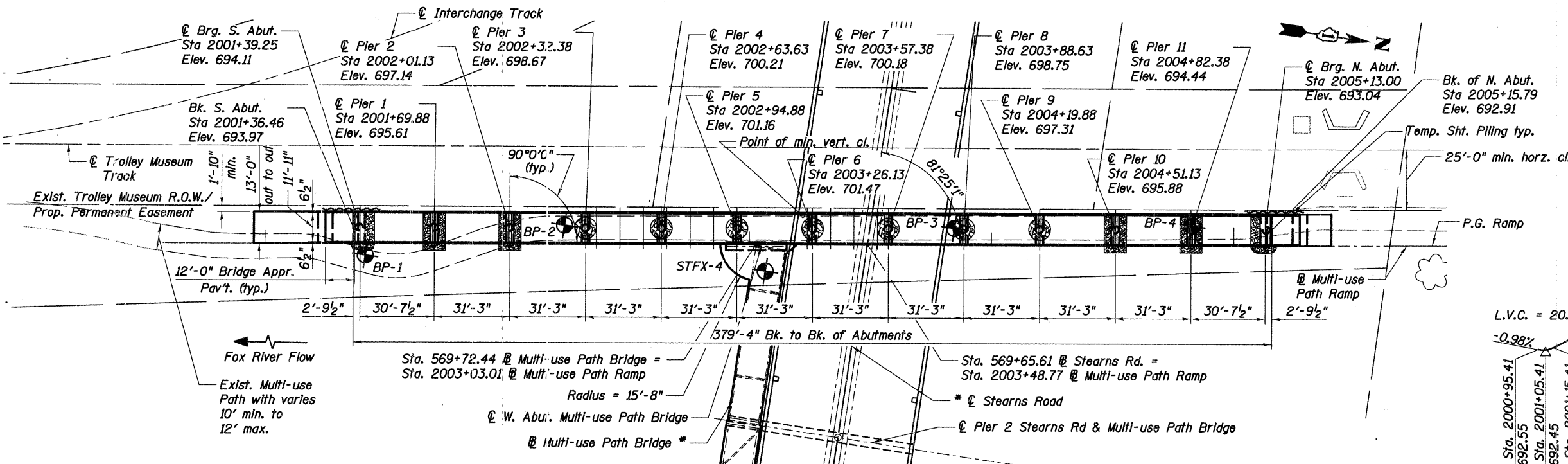
PRECAST PRESTRESSED UNITS
 $f'_c = 5,000$ psi (P.P.C. Deck Beams)
 $f'_c = 6,000$ psi (P.P.C. Deck Beams)

SEISMIC DATA

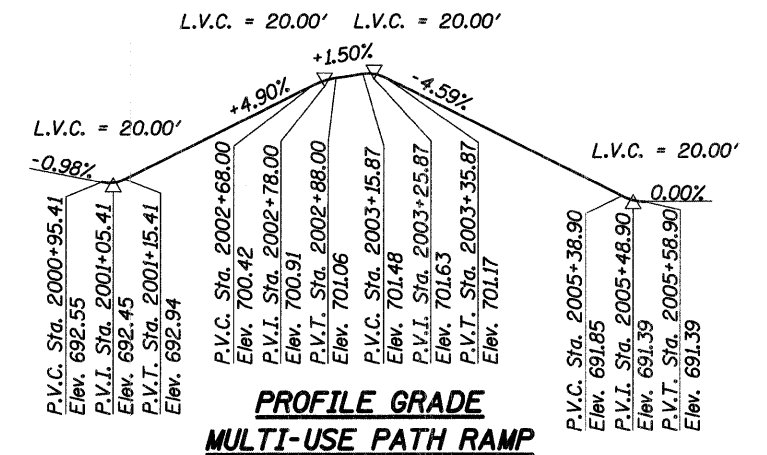
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.084g
Design Spectral Acceleration at 0.2 sec (SDS) = 0.152g
Soil Site Class = D

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	Pier 8	Pier 9	Pier 10	Pier 11	N. Abut.
	686.04	685.87	685.50	684.87	684.97	685.05	685.04	684.76	684.57	684.32	684.34	684.19	684.98



PLAN



PROFILE GRADE MULTI-USE PATH RAMP

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".



Kenton P. Zinn
Expires: 11/10

Denotes Soil Boring

* See sheet S1 of S108 for the General Plan and Elevation of Stearns Road Bridge and the Multi-use Path Bridge

Baker

Baker Engineering, Inc.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MUP RAMP - GENERAL PLAN AND ELEVATION
MULTI-USE PATH BRIDGE OVER THE FOX RIVER PUBLIC WATERS
STRUCTURE NUMBER 045-3164
KANE COUNTY FAP 361 SECTION 06-00214-20-BR
STATION 572+37.71 DESIGNED: DFM DRAWN: DFM
DATE: JANUARY 16, 2009 CHECKED: KPZ CHECKED: KPZ