

Bench Marks:
 IDOT BM #15 Chiseled square at the southeast quadrant of the intersection of West Grand Avenue and Hazel Dell Road. Benchmark is located 33 feet south of the centerline of Hazel Dell Road on a headwall of a concrete pipe culvert. NAVD88 El. 602.47
 IDOT BM #80 Chiseled cross on the center bolt of the east leg of an iron sign truss over the eastbound lane of Interstate 72. Benchmark is located 1.62 miles east of Il Route 4, NAVD88 El. 601.28
 IDOT BM #0150 Disk in monument vault on survey calibration baseline. Benchmark is located 13 feet north of the centerline of Hazel Dell Road and 0.5 miles west of the intersection of Hazel Dell Road and West Grand Avenue. NAVD88 El. 600.47
 IDOT BM #374 Railroad spike in power pole west of a bike path and southeast of Recreation Drive. Benchmark is located 0.81 miles south of the intersection of West Grand Avenue and Hazel Dell Road. NAVD88 El. 604.61

Existing Structure: None

Note: Piers designed to meet AREMA crashwall criteria

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
FAI 72 FAU 8021		SANGAMON	5/29/05	2298
SHEET NO. 01				22 SHEETS

FDG ROAD DIST. NO. 7 PROJECT NO. 149-9-4(A), HBK, BY, BY-1 CONTRACT NO. 72541

CURVE DATA
 (Curve Ramp B2)
 P.I. STA = 35+87.62
 $\Delta = 12^{\circ} 02' 48''$ (Rt.)
 $D = 01^{\circ} 58' 33''$
 $R = 2,900.00'$
 $T = 306.00'$
 $L = 609.74'$
 $E = 16.10'$
 P.C. STA = 32+81.62
 P.T. STA = 38+91.36
 $e = 3.80\%$
 S.E. ATTN: 32+20.00 (2.0%) TO 33+12.00 (3.8%)
 37+61.36 (3.8%) TO 38+91.36 (2.65%)

DESIGN SPECIFICATIONS
 AASHTO 2002
 AASHTO 2003 Curved Girder Spec.
LOADING HS20-44
 Allow 50 psf for future wearing surface.
SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.05g
 Site Coefficient (S) = 2.0

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinf.)
 $f_y = 50,000$ psi (M 270 Grade 50)

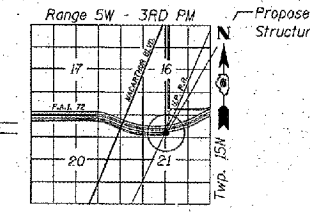
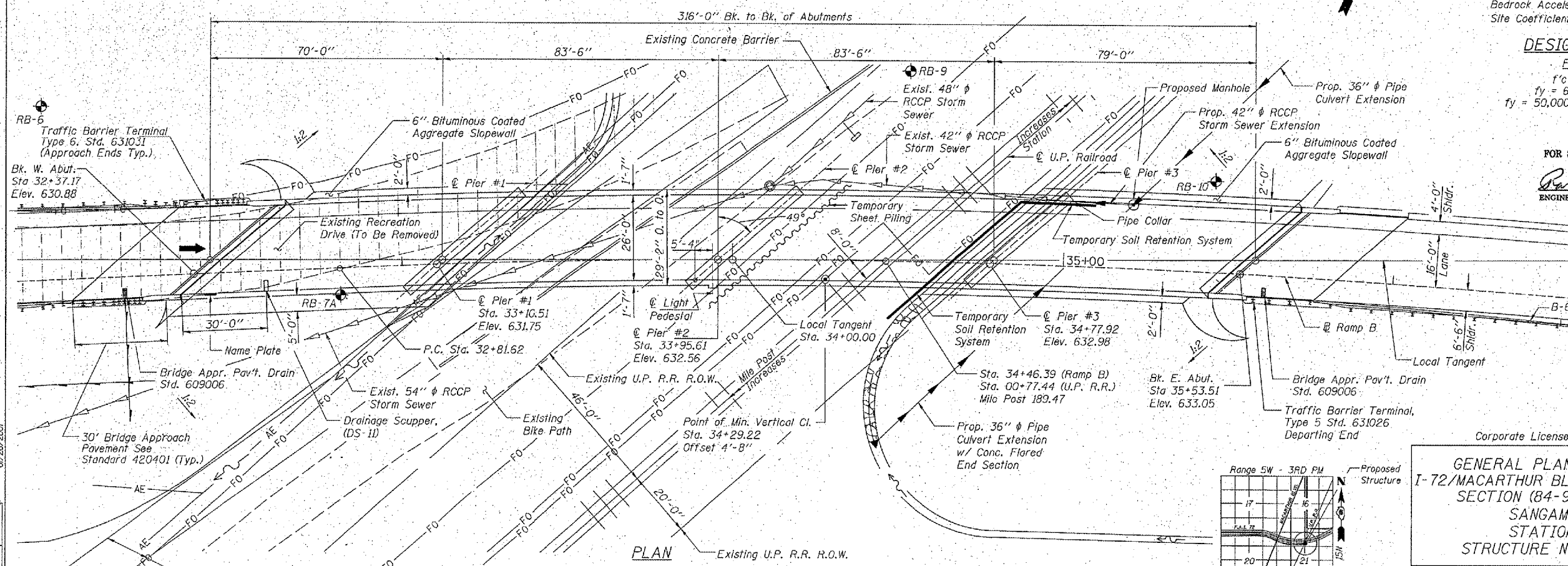
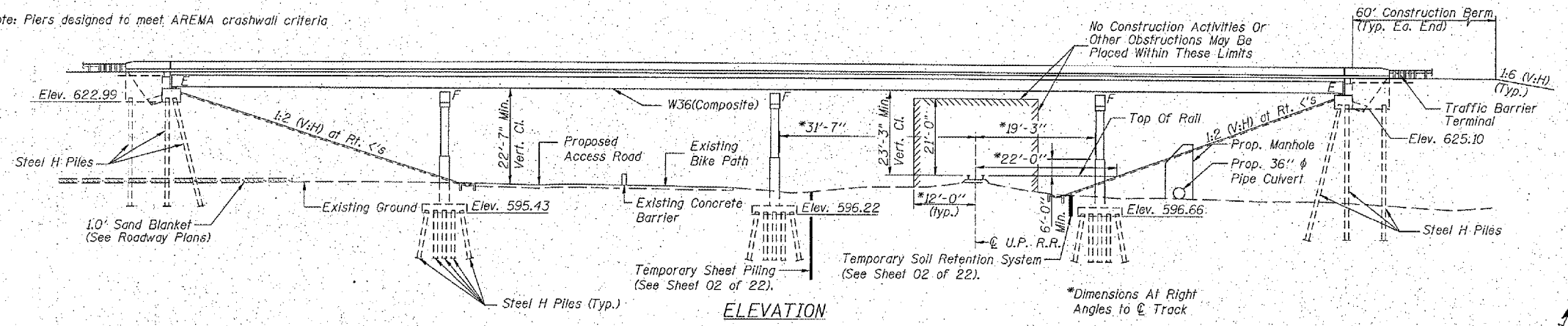
APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

REGISTERED
 4376
 REGISTERED
 STRUCTURAL
 ENGINEER
 OF
 ILLINOIS
 SIGNATURE: *Ralph E. Anderson*
 DATE SIGNED: 6-20-07
 LIC. EXP. DATE: 11-30-09

Corporate License Number 184-001-084

GENERAL PLAN AND ELEVATION
 I-72/MACARTHUR BLVD. RAMP B OVER UPRR
 SECTION (84-9-4)A, HBK, BY, BY-1
 SANGAMON COUNTY
 STATION 33+95.61
 STRUCTURE NUMBER 084-0514

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 9652002B
 DATE: 11/16/05



DATE: 11/16/05
 REVIEWED: JMM
 DATE: 02/24/05
 DWP
 DATE: 01/04/05
 LAYOUT: MWW
 DATE: 06/27/05