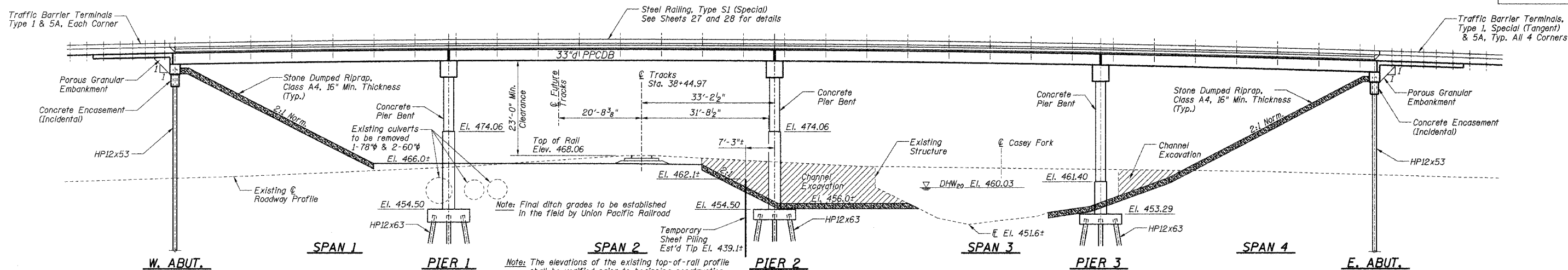


TBM 10-14-98"D" - Double 60d nails in South face of power pole, 34.88' Lt. of Sta. 38+62.96 - Elev. 463.44

TBM 10-14-98"E" - Double 60d nails in South face of power pole, 21.06' Lt. of Sta. 43+10.83 - Elev. 460.64

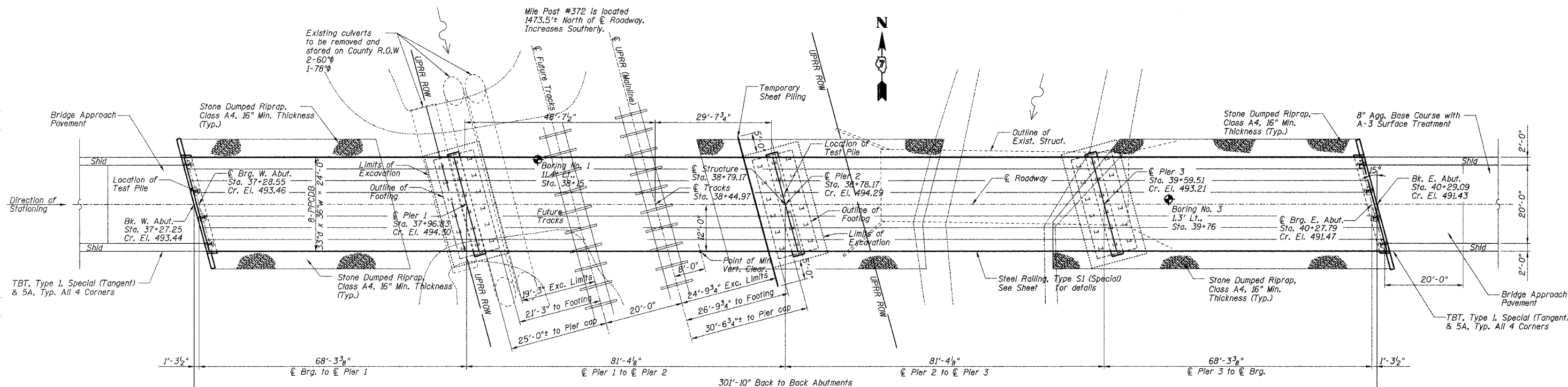
Existing Structure: Three span bridge with timber deck, abutments, piers and wingwalls and steel stringers, 63'L x 18'W adjacent to at-grade railroad crossing (UPRR Milepost 273.13CC and USDOT #167745C)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 227	98-11120-00-BR	JEFFERSON	35	23
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 95437				



ELEVATION

(Looking North)
Note: Horizontal dimensions measured along \bar{C} Roadway



PLAN

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

WATERWAY DATA
See Sheet 24 of 35

SEISMIC DESIGN

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.10g
Site Coefficient (S) = 1.5

DESIGN SPECIFICATIONS
AASHTO - 2002 17th Edition

LOADING HS 20-44

Allow 25# / sq. ft. for future wearing surface.

DESIGN STRESSES

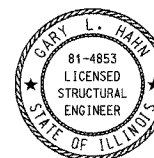
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi

PRECAST PRESTRESSED UNITS

Spans 1 and 4
 $f'_c = 5,000$ psi
 $f'_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " strands)
 $f'_{si} = 189,000$ psi ($\frac{1}{2}$ " strands)

PRECAST PRESTRESSED UNITS

Spans 2 and 3
 $f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " strands)(Low Relaxation)
 $f'_{si} = 202,500$ psi ($\frac{1}{2}$ " strands)(Low Relaxation)



GARY L. HAHN
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LICENSED STRUCTURAL ENGINEER
CENTRALIA, ILLINOIS
ENGINEER NO. 81-4853
EXPIRES NOV. 30, 2006

GENERAL PLAN AND ELEVATION
PROPOSED BRIDGE OVER
UNION PACIFIC RAILROAD AND CASEY FORK
TR 227 (GREEN ROAD)
SECTION 98-11120-00-BR
JEFFERSON COUNTY, ILLINOIS

Sheet
23
of 35
Job No. 52303

05/24/2005