

Bench Mark: Chiseled "□" top of northeast wingwall of S.N. 021-0013. Elevation 680.86.

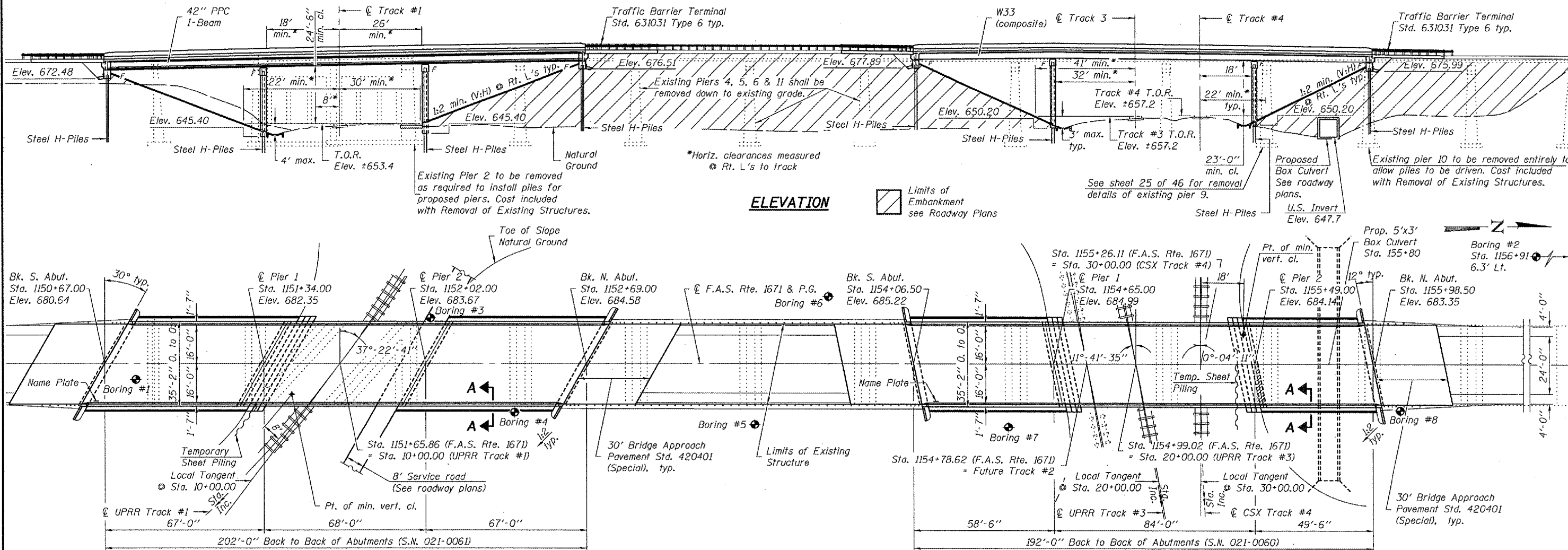
Existing Structure: S.N. 021-0013 built 1927 as S.B.I. Route 25, Section 22V at Station 1153+86.5.
 Superstructure replaced in 1975 as F.A. Route 26, Section 22 VBR. Structure consists of 14 span pre-cast deck beams on multi-column piers and spill-thru counterfort abuts. 594'-11 3/4" back-to-back abutments. 33'-0" out-to-out deck. Structure to be removed and replaced. Road to be closed and traffic detoured during construction.

No salvage

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	SURVEY	LEGS	POST	SHEET NO. 1
F.A.S. 1671	‡	DOUGLAS	181	85	46 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70258
 ‡ 22VBR-1 and 1445BR-2



Notes:
 See sheet 2 of 46 for Section A-A.
 Up to 1/4" will be ground off the bridge slab and the bridge approach pavement.
 The profile grade shows the final elevations after grinding.

DESIGNED	August 4, 2006
CHECKED	
DRAWN	W.D.C. / M.B.M.
CHECKED	

EXAMINED
 PASSED



EXPIRES 11-30-2006

LOADING HS20-44
 Allow 50#/sq. ft. for future wearing surface.
DESIGN SPECIFICATIONS
 2002 AASHTO

DESIGN STRESSES

FIELD UNITS

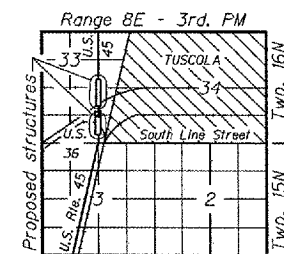
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (AASHTO M270 Grade 50W)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_d = 5,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ low lax strands)
 $f_{si} = 201,960$ psi (1/2" ϕ low lax strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 4.9%g
 Site Coefficient (S) = 1.2



LOCATION SKETCH

GENERAL PLAN & ELEVATION
U.S. ROUTE 45 OVER
UNION PACIFIC & CSX RAILROADS
F.A.S. ROUTE 1671 - SEC. 22VBR-1
DOUGLAS COUNTY
STATION 1151+65.86 (SOUTH)
STATION 1154+99.02 (NORTH)
STRUCTURE NO. 021-0061 (SOUTH)
STRUCTURE NO. 021-0060 (NORTH)