FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7000	02-00212-00-BR	VERMILION	59	16
FROM STA. 96+00.00		TO STA. 103+10.10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 91285

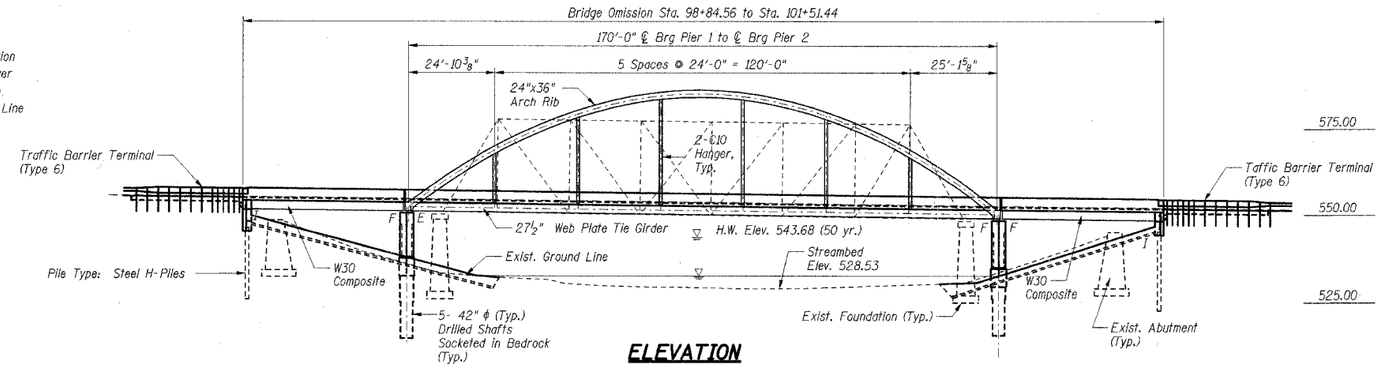
BENCHMARK:
TBM#2 - Square cut on top of northeast wingwall of existing Hungry Hollow Rd. Bridge over North Fork of Vermillion River. Elev. 551.84

EXISTING STRUCTURE:
SN 092-0106 built in 1934 is three-span structure, 246'-10" Bk.-Bk. abutments. The outer spans measure 48'-5" each and consist of steel deck "I" beams. The center span measures 150'-0" and is a steel Pratt through truss. The bridge deck is reinforced concrete with asphalt overlay, 24'-0" wide between curbs.

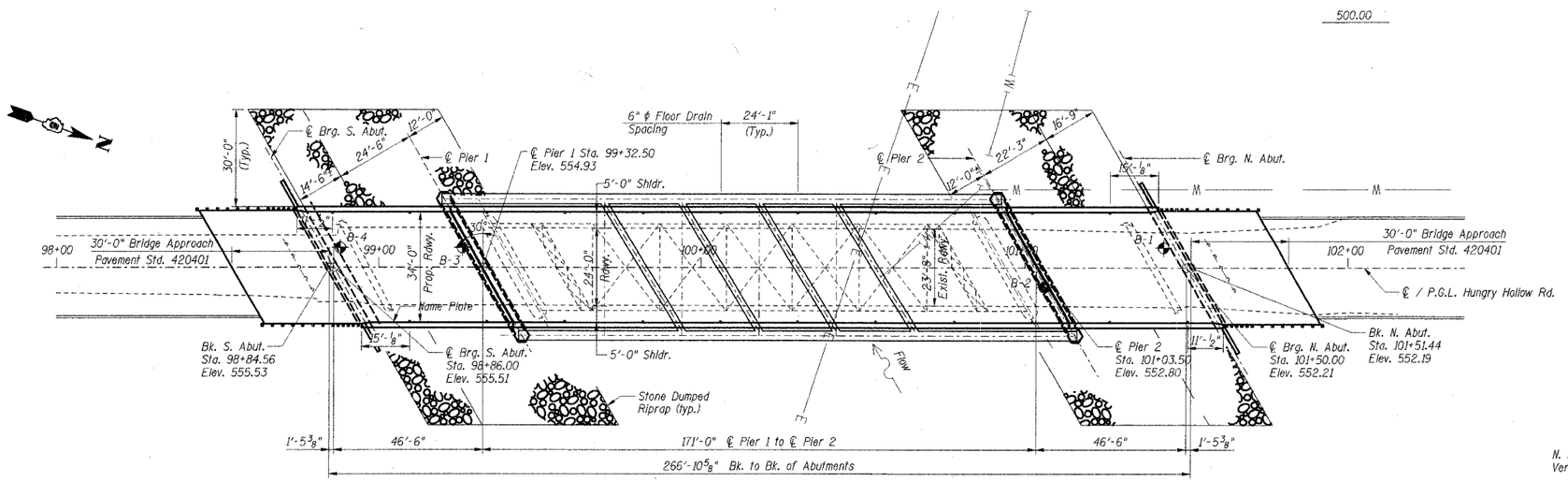
No Salvage

LEGEND

- SB-0 Soil Boring Location
- Exist. Storm Sewer
- —W— Exist. Water Main
- —T— Exist. Telephone Line



ELEVATION



PLAN

DESIGN SPECIFICATIONS
AASHTO Standard Specifications for Highway Bridges, 17th Edition
AASHTO/AWS - D1.5M/D1.5 Bridge Welding Code - 2002 Edition.

DESIGN LOADING:
Roadway Live Load: HS 20-44
Future Wearing Surface = 50 psf

Bridge has been designed to accomodate loss of one hanger assuming full live load under Group I LFD Load Combinations and a 33% overstress on remaining hangers.

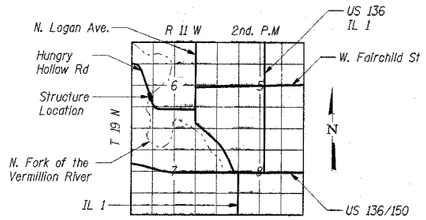
DEFLECTIONS
Bridge has been designed to limit live load deflections of Arch Ribs to Span/1200.

DESIGN STRESSES:
Concrete, f'c = 3,500 psi
Reinforcement, fy = 60,000 psi
Structural Steel, fy = 50,000 psi (M 270 Grade 50W)
fy = 46,000 psi (ASTM A847)

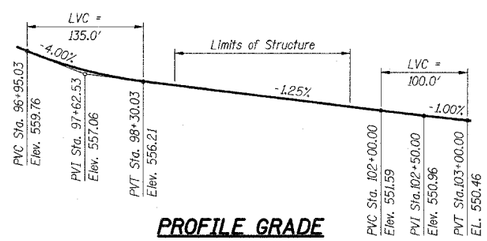
SEISMIC DATA:
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.05g
Site Coefficient (S) = 1.0

LICENSED STRUCTURAL ENGINEER ROMAN R. SHUKAN CHICAGO, ILLINOIS ILLINOIS
12/7/05
EXPIRES 11/30/06

STATE OF ILLINOIS HOSSAM M. ABDOU 081-038687 STRUCTURAL ENGINEER
EXPIRATION DATE 11/30/06
DATE 12/7/05
Checked for Structural Adequacy



LOCATION SKETCH



PROFILE GRADE

WATERWAY INFORMATION

Drainage Area = 298 Sq. Mi. Low Grade Elev..

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	12,580	1928.02	2149.01	543.68	0.17	0.09	543.70	543.62
Base	100	14,300	2071.96	2313.00	544.42	0.23	0.15	544.49	544.41
Overtopping									
Max. Calc.	500				546.04				

SHT. S-01 OF 40

REVISIONS NAME	DATE

CITY OF DANVILLE, ILLINOIS
HUNGRY HOLLOW ROAD BRIDGE

GENERAL PLAN & ELEVATION

SCALE: 1"=20'
DATE 12/06/05
DRAWN BY RAM
CHECKED BY JRH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 W. MONROE AVE. CHICAGO, IL 60606
TELEPHONE 312/372-0200

..\ALT00P83.DGN, ..\RDWY00P96.DGN, ..\RDWY00P95.DGN, ..\SUR00P84.DGN, ..\TP000P7_.DGN, ..\UTL00P80.DGN, ..\TTB000Z9.DGN, ..\SBL00P70.DGN, ..\FP00GPSY.DGN, ..\CONG00PFG.DGN
12-06-2005, 142435 S:\DOCUMENT\02256502\STRUCT\DGN\GPE00P72.DGN
ROSSPP