

B.M.: Chiseled square at Elev. 597.07 on upstream right abutment of exist. U.S. Rte. 30 bridge over Lily Cache Ck. Contractor to reestablish vertical control at commencement of project.

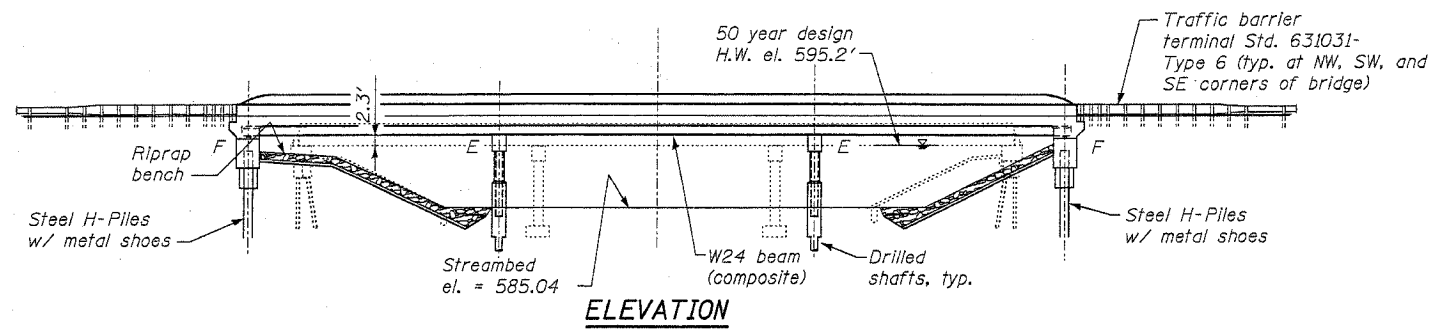
Existing Structure no. 099-0237: Built in 1974, 3 simple span deck beams with bituminous overlay with waterproofing membrane over the deck beams, 133'-6" back to back abutments, approx. 42'-0" out to out, 13° Lt. forward skew, pile bent open abutments on steel piles with cantilever wingwalls, two solid stream piers on spread footings. Deck has concrete parapets with aluminum railings. The Contractor shall completely remove the existing structure and replace it with a 3 span continuous structure with R.C. deck and composite wide flange beams. The Contractor shall construct a retaining wall as shown at the northeast side of the bridge.

No salvage.

Maintain traffic in two directions utilizing stage construction.

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. S-1
F.A.P. 0575	14BR	WILL	143	65	S-30 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 62098



DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

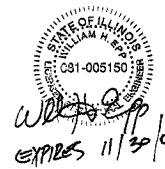
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinf.)
 $f_y = 50,000$ psi (M270 Grade 50)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.04 g
 Site Coefficient (S) = 1.0

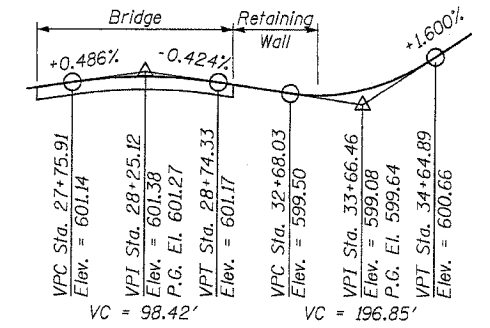


APPROVED

FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Adams
 ENGINEER OF BRIDGES AND STRUCTURES

STATION 28+22.14
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. RT. 575 SEC 14BR
 LOADING HS20
 STR. NO. 099-4648



NAME PLATE

SEE STD. 515001

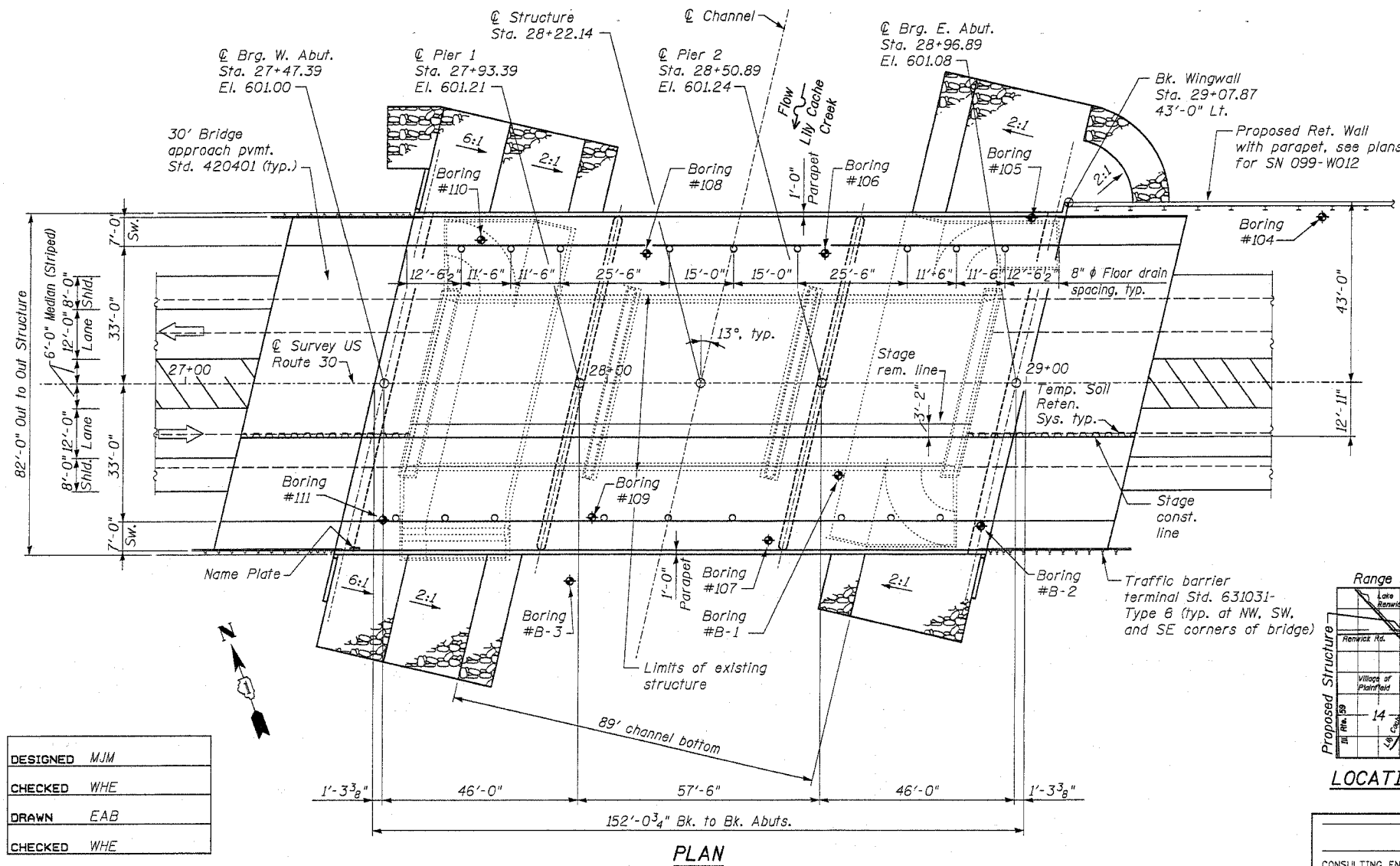
PROFILE GRADE

Along & Roadway

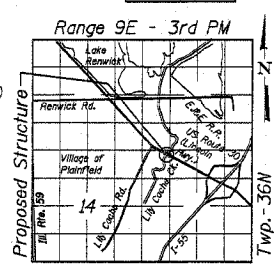
WATERWAY INFORMATION

Drainage Area = 43.0 mi² Low Grade Elev. 599.26 ft at Sta. 33+05.30

Flood	Freq. Yr.	Q ft ³ /s	Opening -ft 2		Nat. H.W.E.	Head -ft.		Headwater El.
			Exist.	Prop.		Exist.	Prop.	
Design	10	2185	748	801	593.7	0.2	0.2	593.9
Base	50	3278	931	1014	595.2	0.3	0.2	595.5
Base	100	3977	931	1125	596.0	0.2	0.0	596.2
Overtopping	~ 300	5000	931		597.1	0.3		597.4
Max. Calc.	500	6153	931	1294	598.4	0.3	0.1	598.7



15	14
22	23



LOCATION SKETCH

LONCO, INC.
 CONSULTING ENGINEERS 630 NORTH WASHINGTON ST., SUITE 205
 NAPERVILLE, ILLINOIS 60563 16301 577-9100

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
 US ROUTE 30 (LINCOLN HIGHWAY)
 OVER LILY CACHE CREEK
 WILL COUNTY
 F.A.P. ROUTE 0575 SEC. 14BR
 STATION 28+22.14 NEW STRUCTURE NO. 099-4648
 DATE 03/24/05

DESIGNED	MJM
CHECKED	WHE
DRAWN	EAB
CHECKED	WHE