

Bench Mark: BM #100. Chiseled "□" southwest corner S.N. 050-0029. Elev. 493.90.

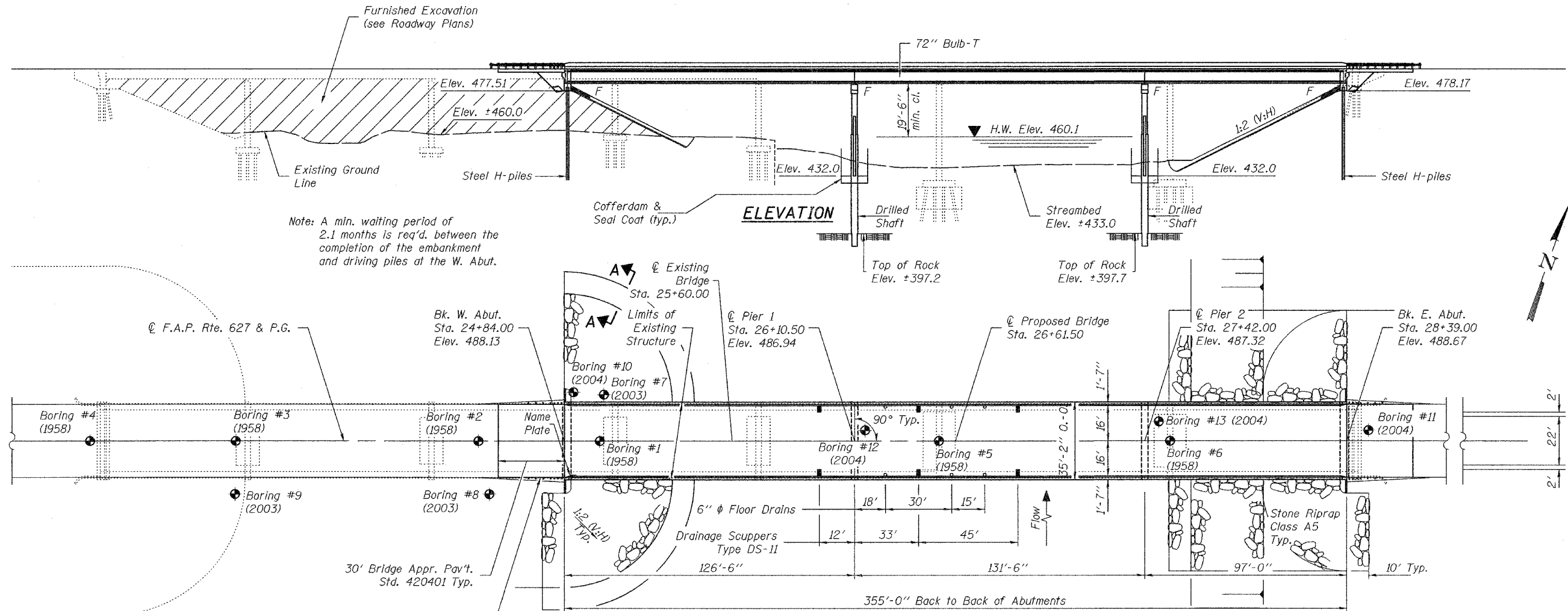
Existing Structure: S.N. 050-0029 built 1960 as F.A. Route 8, Section 1B-R & 1F-R at Station 25+60.
Structure consists of 2 units, a 4 span continuous steel WF beams and a 3 span continuous riveted plate girders supported by spill thru abutments and hammerhead piers. 570'-0" back-to-back abutments. 33'-8" 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

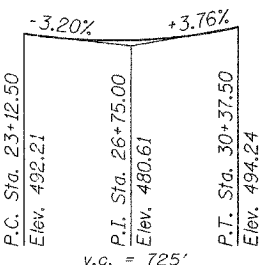
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 627	(D)BR	LASALLE	69	18
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract #66556



PLAN

For Section A-A, see sht. 2 of 31.



PROFILE GRADE
(along roadway)

STATION 26+61.50
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 627 - SEC. (D)BR
LOADING HS20
STR. NO. 050-0242

NAME PLATE
See Std. 515001

WATERWAY INFORMATION

Existing Low Grade Elev. 486.8 ft. @ Sta. 26+50
Drainage Area = 1328.00 mi² Prop. Low Grade Elev. 486.9 ft. @ Sta. 26+16.8

Flood	Freq. Yr.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
		0	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
	10	23951	4683	4683	460.0	0.2	0.2	460.2	460.2
Design	50	34697	4710	4710	460.1	0.3	0.3	460.4	460.4
Base	100	38926	4736	4736	460.2	0.4	0.5	460.6	460.7
Overtopping									
Max. Calc.	500	48023	5196	4817	460.5	0.5	0.7	461.0	461.2

LOADING HS20-44

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

DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES

FIELD UNITS

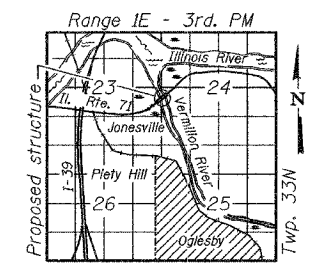
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_a = 5,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " low lax. strands)
 $f_{st} = 201,960$ psi ($\frac{1}{2}$ " low lax. strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 3.9%
Site Coefficient (S) = 1.5



LOCATION SKETCH

GENERAL PLAN
ILLINOIS ROUTE 71 OVER
VERMILION RIVER
F.A.P. ROUTE 627 - SECTION (D)BR
LASALLE COUNTY
STATION 26+61.50
STRUCTURE NO. 050-0242

DESIGNED	Mark Miller
CHECKED	Stephen M. Ryan
DRAWN	W.D.C.
CHECKED	Mark Miller / SMR

February 3, 2006
EXAMINED Thomas J. Donahue
PASSED Robert E. Anderson



Expires 11-30-2006