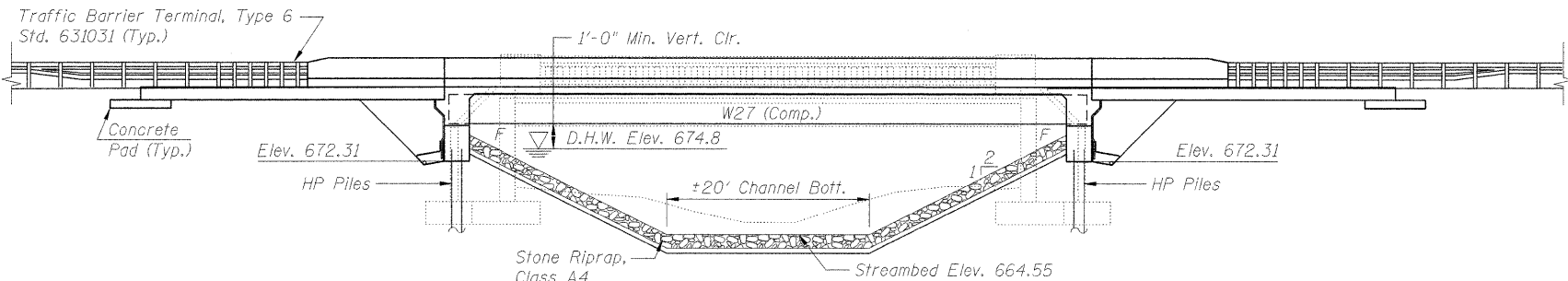


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

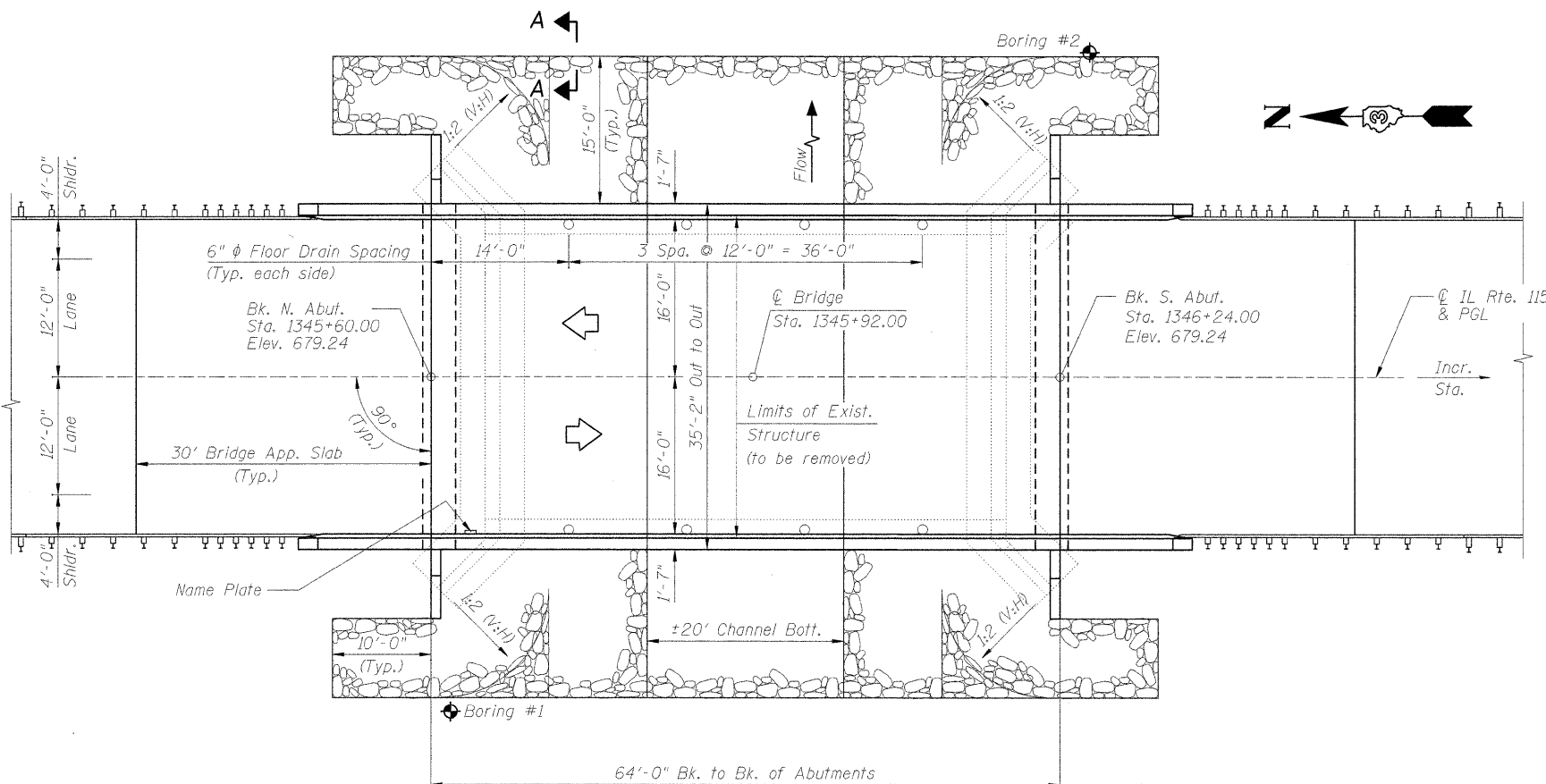
Bench Mark: Chiseled SQ. on S.W. wingwall of bridge. Sta. 1346+18, 17.0' LT, Elevation 678.73

Existing Structure: S.N. 027-0033, originally built in 1927 as F.A.P. Route 796, Section 105B. The existing structure consists of a single span, 53'-0" bk. to bk. abutments, 32'-8" out to out, cast-in-place concrete deck monolithic with concrete tee beams on closed abutments with spread footings. The contractor shall remove the existing structure and replaced it with a single span, steel wide flange beam superstructure on integral abutments. Road to be closed and traffic detoured during construction.

Salvage: None



ELEVATION



PLAN

NOTES:  
1. Drains shall be located clear of all diaphragms.

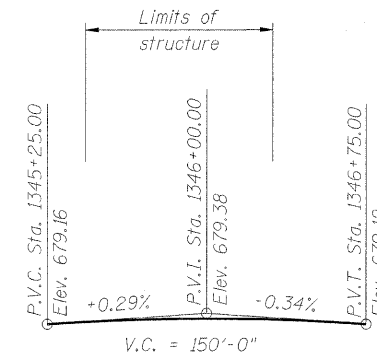
WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	2,097	305	384	674.2	0.3	0.2	674.5	674.4
Base	100	2,438	341	437	675.1	0.9	0.6	676.0	675.7
Max. Calc.	500	3,260	341	443	675.6	1.2	1.1	676.8	676.7

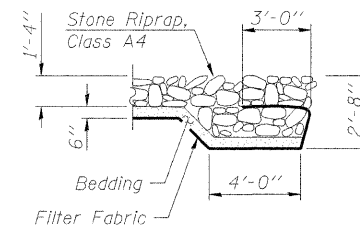
DESIGNED -	MRB
CHECKED -	KWS
DRAWN -	VH
CHECKED -	MRB

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	672.02	672.02



PROFILE GRADE  
(along C IL Rte. 115)



SECTION A-A

LOADING HL-93  
Allow 50#/sq. ft. for future wearing surface.  
DESIGN SPECIFICATIONS  
2007 AASHTO LRFD Bridge Design Specifications  
with 2008 Interims

DESIGN STRESSES  
FIELD UNITS

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.115g  
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.184g  
Soil Site Class (S) = D

STATION 1354+92  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. RT. 796 SEC. 105 BR-1  
LOADING HL-93  
STR. NO. 027-0097

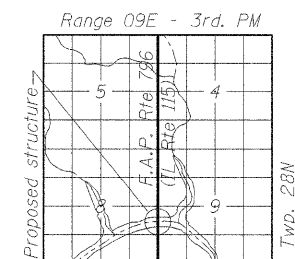
NAME PLATE  
See Std. 515001

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TJD)  
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRATION DATE 11-30-2010  
DATE 01/13/2010



LOCATION SKETCH

GENERAL PLAN AND ELEVATION  
ILLINOIS ROUTE 115 OVER  
KELLY CREEK DRAINAGE DITCH  
F.A.P. ROUTE 796 SEC. NO. 105 BR-1  
FORD COUNTY  
STATION 1345+92.00  
STRUCTURE NO. 027-0097

benesch

alfred benesch & company  
Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450  
Job # 3938.02

SHEET NO. S1	F.A.P. RTE. 796	SECTION 104 I & 105 BR-1	COUNTY FORD	TOTAL SHEETS 51	SHEET NO. 15
SHEETS S22	CONTRACT NO. 66848				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		