Bench Mark: Chisled " □ " on the Southeast wingwall of existing bridge over Coffee Creek S.N. 078-0016 18' Lt. of Sta. 97+34 El. = 472.01

Existing Structure: S.N. 078-0016 built in 1956 as F.A. Rte. 168, Sec. 1-B at Sta. 96+59. Existing structure is a four span steel beam bridge with a reinforced concrete deck on closed concrete abutments and pile bent piers. 167'-6" bk. to bk. abutments, 33'-8" out. to out. deck with a 24° RT. Forward Skew. The Contractor shall remove and replace the existing structure. Staged construction shall be utilized to maintain one lane of traffic during construction.

Salvage: Existing Temporary Concrete Barrier to be removed during Stage II Removal and delivered to IDOT.

INDEX OF SHEETS

CURVE DATA

(Existing Curve 2)

PI STA. = 99+07.08
Δ = 61° 52' 09" (LT)
D = 3° 23' 58"
R = 1,685.42'
T = 1,010.08'
L = 1,819.95'
E = 279.50'
e = 4.00%
P.C. STA. = 88+97.00
P.T. STA. = 107+16.95
SE TRANSITION - MATCH EXISTING
STATION 87+92.00 TO STATION 90+02.00
STATION 106+12.00 TO STATION 108+22.00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2370 (IL. 26)	1-BR	PUTNAM	65	18
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

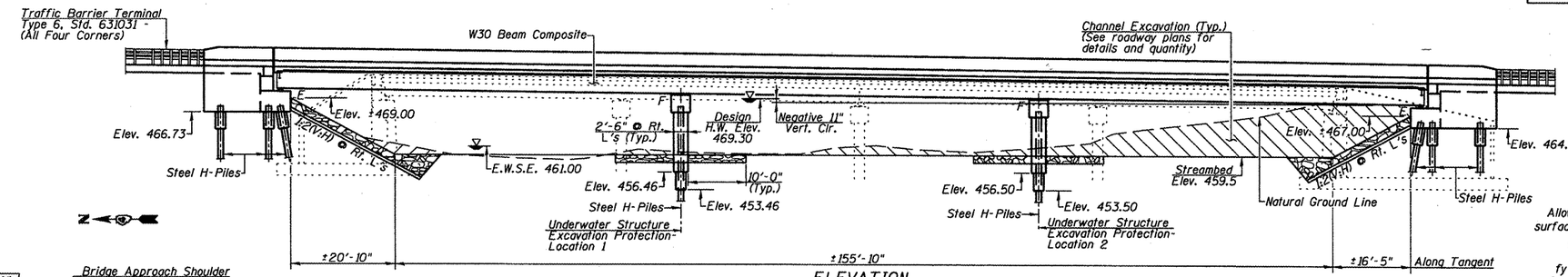
SHEET NO. 1
31 SHEETS

Contract # 68577

STA. 96+59.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE. 2370 - SEC. 1-BR
LOADING HS20
STR. NO. 078-0046

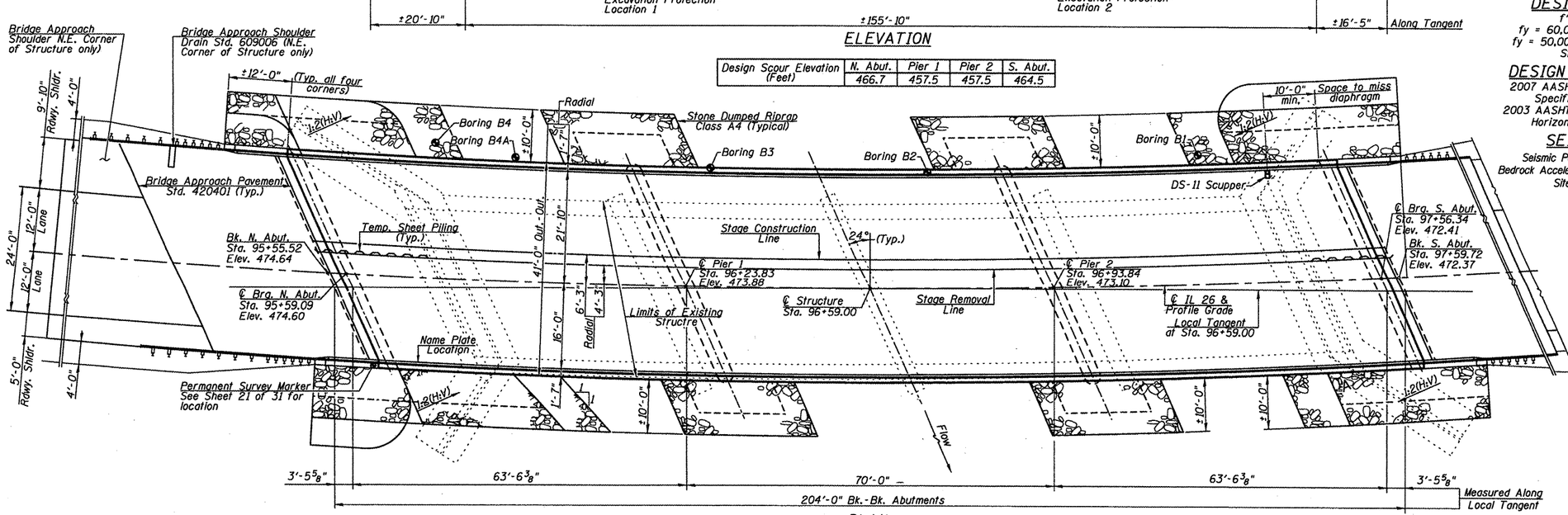
NAME PLATE

(Standard 515001)



ELEVATION

Design Scour Elevation (Feet)	N. Abut.	Pier 1	Pier 2	S. Abut.
	466.7	457.5	457.5	464.5



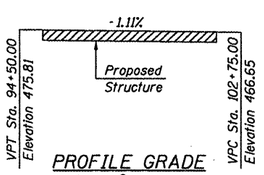
PLAN

WATERWAY INFORMATION

Drainage Area = 10.80 Sq. Mi. Pr. Low Grade Elev. 469.96 @ Sta. 99+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Natural H.W.E.	Head - ft. Exist.	Head - ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	3880	1012	1383	469.3	0.0	0.0	469.2	469.1
Base	100	4480	1038	1415	469.9	0.0	0.0	469.9	469.8
* Overtopping	375	5275	1040	1420	470.7	0.6	0.4	471.3	471.1
Max. Calc.	500								

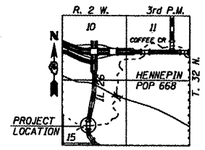
* Levee overtopping flow, roadway is not overtopped



PROFILE GRADE
(Along ℄ IL. 26)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

GERALD B. ROTHERHAM 081-005673 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS
7/18/08
Expiration Date 11/30/2008



LOCATION PLAN

LOADING HL-93

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

DESIGN STRESSES

f'c = 3,500 psi.
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (M 270 Grade 50 Structural Steel)

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications, 4th Edition
2003 AASHTO Guide Specification for Horizontally Curved Bridges.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.038g
Site Coefficient (S) = 1.0

GENERAL PLAN
ILLINOIS ROUTE 26 OVER COFFEE CREEK
F.A.S. ROUTE 2370
SECTION 1-BR
PUTNAM COUNTY
STA. 96+59.00
STRUCTURE NO. 078-0046

ALLEN HENDERSON & ASSOCIATES, INC. CONSULTING CIVIL AND STRUCTURAL ENGINEERS SPRINGFIELD, IL. PHONE: (217) 544-8033 IL DESIGN FIRM NO. 184-001907