

Bench Mark: Chiseled "□" on top of W. side of S. abut. of S.N. 029-0004 (Spoon River Bridge) Elev. 480.75 (146.533)

Existing Structure: S.N. 029-0004 Eight span 470' Bk.-Bk. abutments, 33' Out-to-Out of deck PPC deck beams supported on timber pile pier footings. Built in 1926 under Section 18C, S.B.I. Rt. 31 at Sta. 75+84. Bridge widening with new superstructure 1970. Existing bridge to have PPC deck beam replacement/repair during Stage I Construction. (See details elsewhere in contract plans). Existing structure to be removed and replaced, on new alignment. Two-way traffic maintained on existing structure during Stage II Construction (N. Abut. & Piers). One lane of traffic with stop bars during Stage III Construction (S. Abut.; Bridge superstructure; and Bridge Appr. Pav'ts.). See roadway plans for additional staging details.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION 74+09.000
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 315 SEC. (18BRY-1)BR
LOADING HS20
STRUCTURE NO. 029-0068

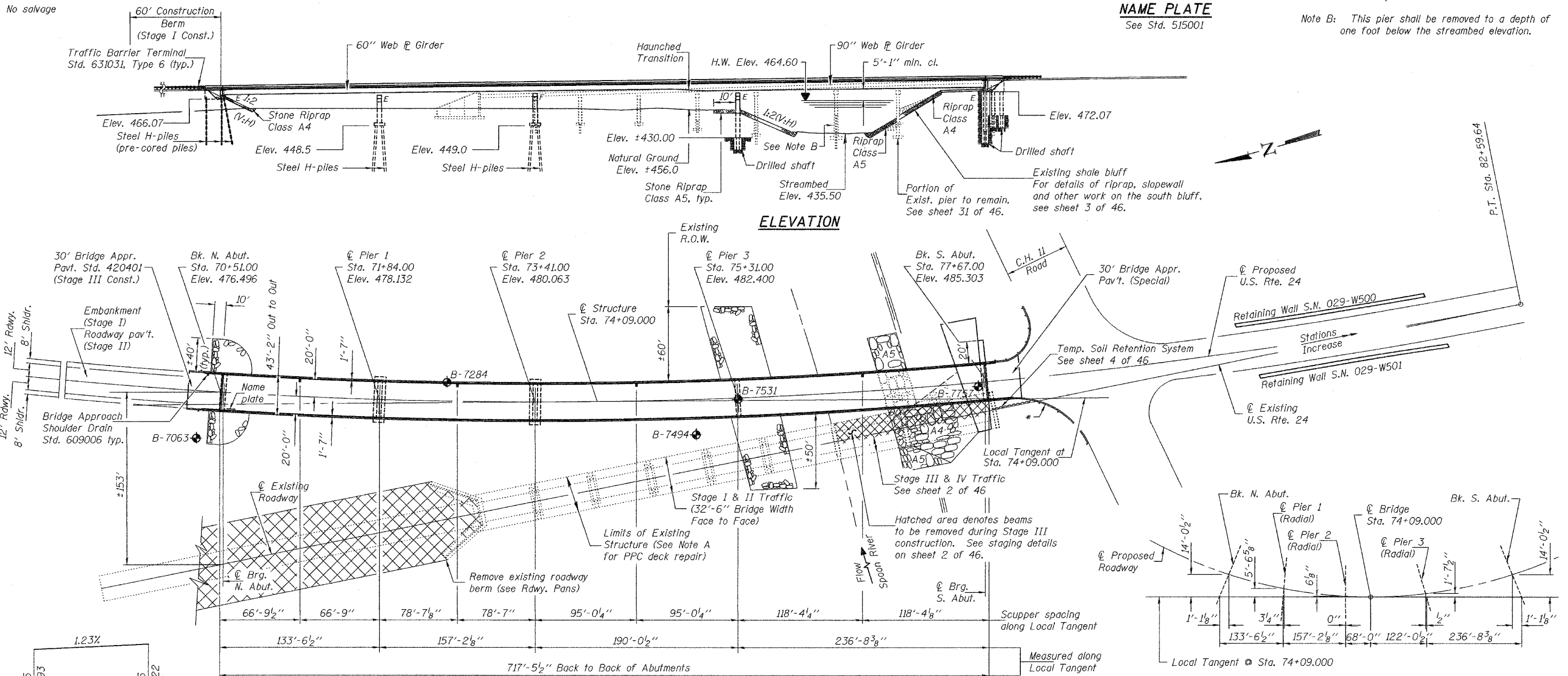
NAME PLATE
See Std. 515001

ROUTE NO.	SECTION	COUNTY	TOWNSHIP	SHEET NO.	SHEET NO. 1
FAP 315	(18BRY-1)BR	FULTON		116	46 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #88753

Note A: Remove and replace 8 PPC deck beams during Stage I Construction. See details elsewhere in contract plans.

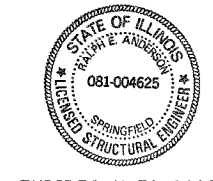
Note B: This pier shall be removed to a depth of one foot below the streambed elevation.



PROFILE GRADE
(along centerline roadway)

DESIGNED	h.t. parsons
CHECKED	FT/DPN/SBR/MJT
DRAWN	h.t. parsons
CHECKED	FT/DPN/SBR/MJT

DESIGNED: *h.t. parsons*
CHECKED: *FT/DPN/SBR/MJT*
DRAWN: *h.t. parsons*
CHECKED: *FT/DPN/SBR/MJT*



LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2002 AASHTO
AASHTO Guide Specifications
for Horizontally Curved Steel Girder
Highway Bridges 2003.

* Modify length of Type 6 guardrail for radius of Type 2A guardrail, typ. See roadway plans.

DESIGN STRESSES

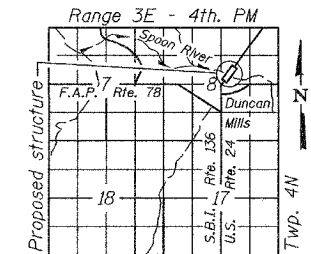
FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (structural steel)
f_y = 36,000 psi (structural steel)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 4.3%
Site Coefficient (S) = 1.0

CURVE DATA

U.S. RTE. 24
P.I. Sta. = 71+34.68
Δ = 28°-53'-55.6" (LT)
D = 1°-15'-23.35"
R = 4,560.00'
T = 1,175.00'
L = 2,299.97'
E = 148.95'
e = 3.3%
P.C. Sta. = 59+59.68
P.T. Sta. = 82+59.64



LOCATION SKETCH

OFFSET SKETCH

(@ Brgs. at abutments and piers are radial to centerline of Proposed Rdwy.)

GENERAL PLAN
U.S. ROUTE 24 OVER
SPOON RIVER
PUBLIC WATERS
F.A.P. RTE. 315 - SEC. (18BRY-1)BR
FULTON COUNTY
STATION 74+09.000
STRUCTURE NO. 029-0068