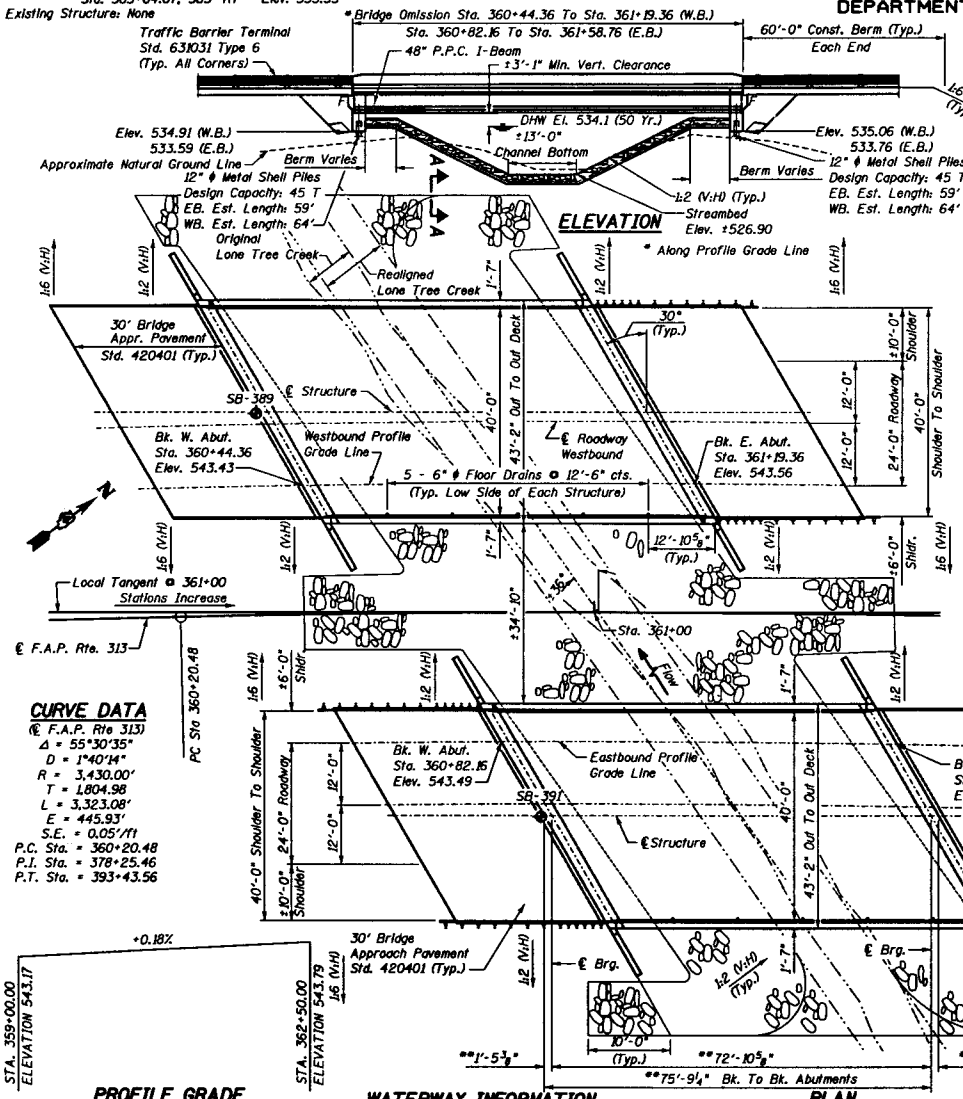
Benchmark: BM 4003-7: Chiseled square on NE corner of headwall, E. of U.S. 34, Sta. 365+64.07, 565' RT - Elev. 535.35
Existing Structure: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 313	7B (BR)	HENDERSON	1	1

SHEET NO. 1 / 1 SHEETS

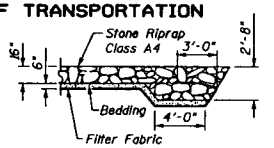
FEDERAL ROAD DISTRICT NUMBER 7 — ILLINOIS — CONTRACT NO. D-94-055-02



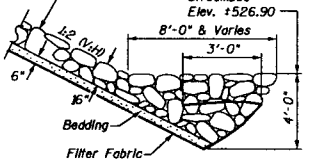
CURVE DATA
(℄ F.A.P. Rte 313)
Δ = 55°30'35"
D = 1°40'14"
R = 3,430.00'
T = 1,804.98
L = 3,323.08'
E = 445.93'
S.E. = 0.05'/ft
P.C. Sta. = 360+20.48
P.I. Sta. = 378+25.46
P.T. Sta. = 393+43.56

PROFILE GRADE

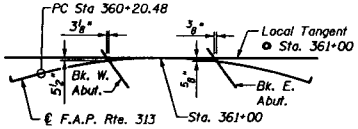
PLAN
** Along Local Tangent



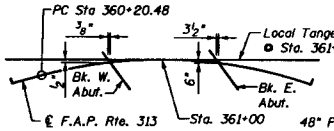
SECTION A-A



STONE RIPRAP ANCHOR DETAIL

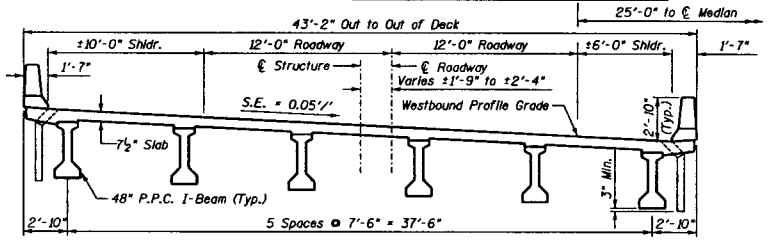


OFFSET SKETCH
@ Westbound P.G.

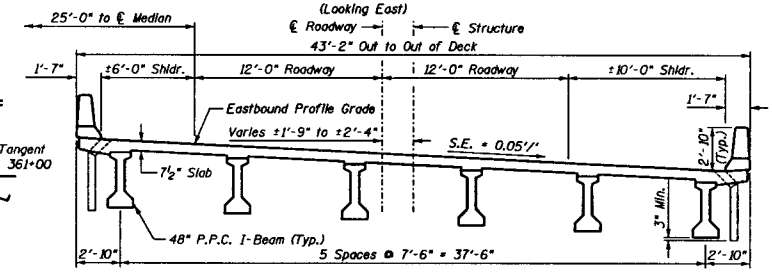


OFFSET SKETCH
@ Eastbound P.G.

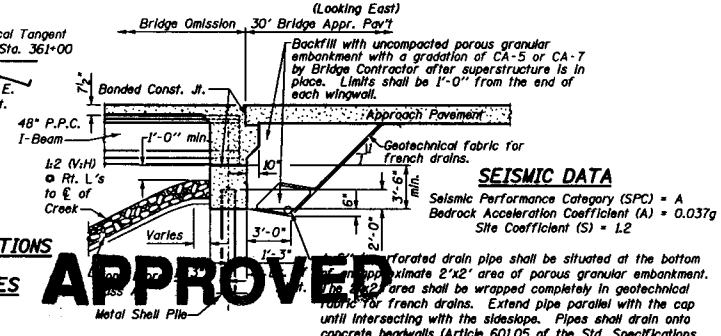
OFFSET SKETCH
@ ℄ of F.A.P. Route 313



CROSS SECTION (WEST BD. LANES)
(Looking East)



CROSS SECTION (EAST BD. LANES)
(Looking East)



SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.037g
Site Coefficient (S) = 1.2

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'_{ci} = 5,000 psi
f'_s = 270,000 psi (1/2"ϕ low lax. strands)
f_{si} = 201,960 psi (1/2"ϕ low lax. strands)

APPROVED
AUG 30 2005
AS A BASIS FOR PREPARATION OF DETAILED PLAN

perforated drain pipe shall be situated at the bottom approximate 2'x2' area of porous granular embankment. area shall be wrapped completely in geotechnical fabric for french drains. Extend pipe parallel with the cap until intersecting with the sideslope. Pipes shall drain onto concrete headwalls (Article 601.05 of the Std. Specifications and Highway Std. 601101) *

SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)
* Included in the cost of Porous Granular Embankment

HIGHWAY CLASSIFICATION
F.A.P. Route 313 - U.S. Route 34
Functional Class: Other Principal Arterial
ADT: 7,500 (2001); 10,700 (2025)
DHV: 1,070
Design Speed: 70 m.p.h.
Posted Speed: 55 m.p.h.

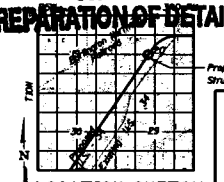
LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

WATERWAY INFORMATION

Drainage Area = 3.71 sq. mi. Low Grade Elev. 542.75 @ Sta. 360+84.70

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1020	-	166	534.1	-	0.0	-	534.1
Design	50	1200	-	166	534.1	-	0.0	-	534.1
Base	100	1968	-	166	534.1	-	0.0	-	534.1
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1640	-	166	534.1	-	0.0	-	534.1

DESIGNED	JAR
CHECKED	AJS
DRAWN	JAR
CHECKED	AJS



LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
U.S. 34 OVER LONE TREE CREEK
F.A.P. 313 SECTION 7B (BR)
HENDERSON COUNTY
STATION 361+00
STRUCT. NO. 036-0058 (EB) 036-0059 (WB)

SCALE: NONE — DATE: 06/19/2005