

Benchmark: #33 Iron Rod with cap, 24'-5 5/8" Lt.; B.N.S.F. Sta. 1010+79.14 (N 1,376,589.403, E 2,138,781.303) El. 692.74
 Existing Structure: None. B.N.S.F. R.R. traffic will be maintained on shoofly constructed south of existing alignment.

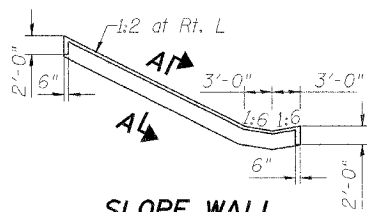
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A.P. 315	55-2	McDONOUGH	1025	501	16 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

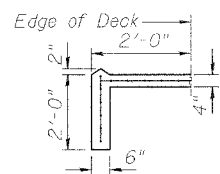
Contract # 68205

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 Total Bill of Material, General Notes, & Substructure Layout
- 3 Deck Details
- 4 Pedestrian Railing
- 5 Framing Plan
- 6 Diaphragms
- 7 Bearings, Reaction & Moment Tables
- 8 Anchor Bolt Details
- 9 West Abutment Details
- 10 West Abutment and Wing Wall Reinforcement
- 11 East Abutment Details
- 12 East Abutment and Wing Wall Reinforcement
- 13-16 Boring Logs



SLOPE WALL



SECTION A-A

CURVE R-1C1
 P.I. STA= 27+81.20
 $\Delta = 36^\circ 41' 16''$ RT.
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 331.57$
 $L = 640.32$
 $E = 53.54$
 P.C. STA= 24+49.64
 P.T. STA= 30+89.96

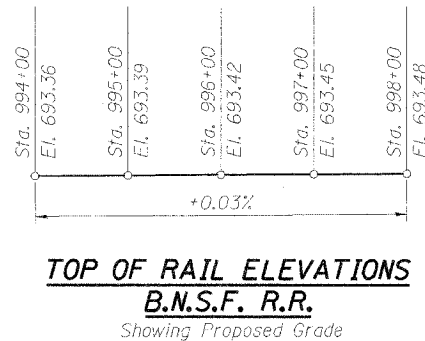
HORIZONTAL
 CURVE DATA

B.N.S.F. R.R.
 BUILT 20-- BY
 STATE OF ILLINOIS
 F.A.P. RTE. 315 SEC. 55-2
 STA. 21+61.48
 LOADING COOPER'S E-80
 STR. NO. 055-9902

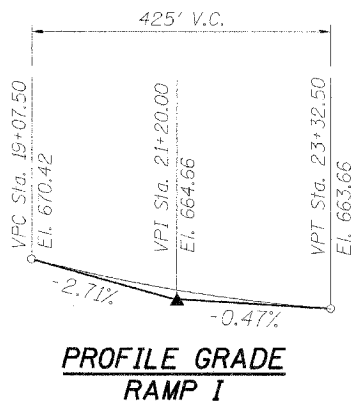
NAME PLATE
 See Std. 515001

Structure to be owned and
 maintained by State of Illinois
 Department of Transportation.

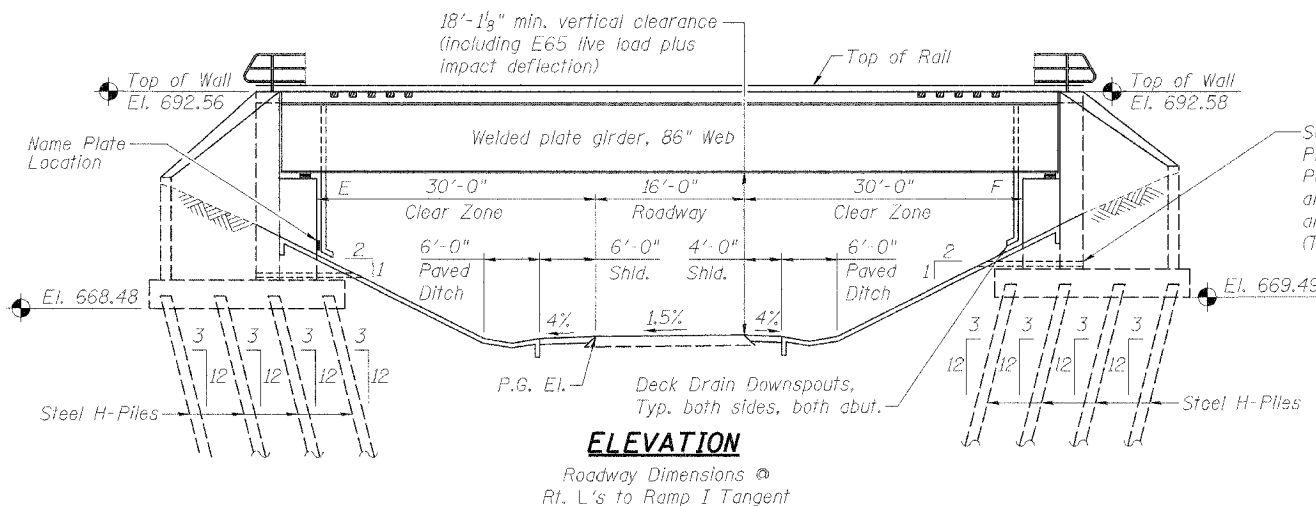
DESIGNED	P.J.L
CHECKED	W.D.L
DRAWN	M.G.M
CHECKED	P.J.L



TOP OF RAIL ELEVATIONS
 B.N.S.F. R.R.
 Showing Proposed Grade

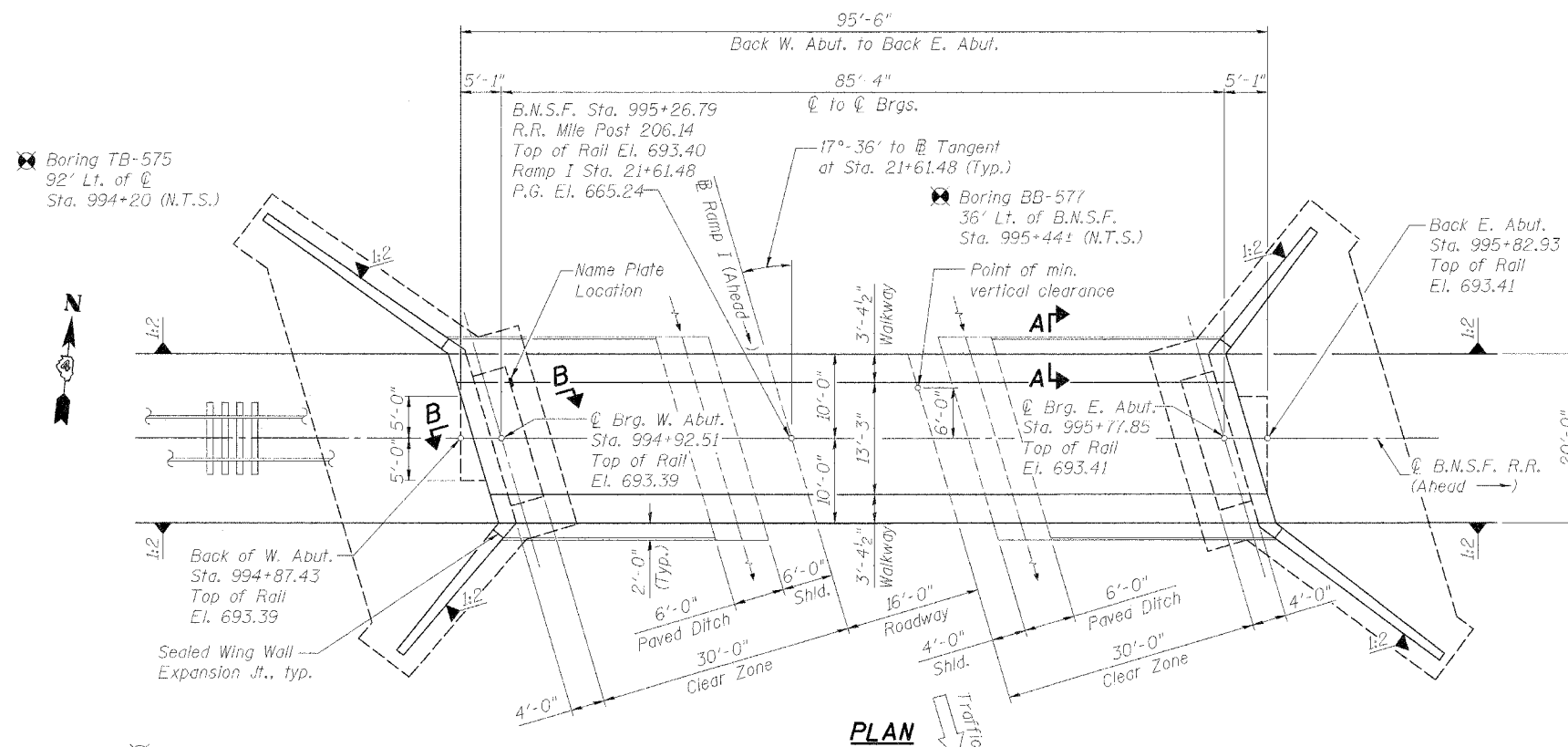


PROFILE GRADE
 RAMP I



ELEVATION

Roadway Dimensions @
 Rt. L's to Ramp I Tangent



PLAN

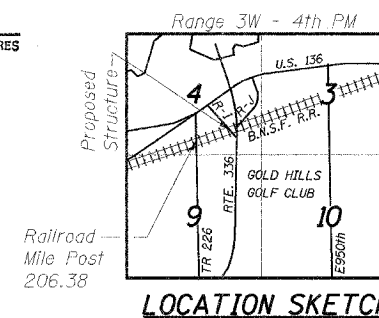
APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGES AND STRUCTURES



Philip J. Lane
 Illinois Licensed Structural Engineer No. 4084
 Lic. Expires: 11/30/06

3/30/06
 Date



LOCATION SKETCH

DESIGN SPECIFICATIONS

2005 A.R.E.M.A. Specifications

DESIGN STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi Reinforcement
 $f_y = 50,000$ psi Structural Steel
 (AASHTO M270, Grade 50)

DESIGN LOADING

- 1.) Cooper's E-80 with diesel impact
- 2.) Allow 60 psf for future 6" additional ballast
- 3.) Walkway live load 85 psf
- 4.) Alternate short term loading per B.N.S.F. requirements: Cooper's E-65 with diesel impact while a fascia girder is temporarily out of service for repairs. (Dead load to a girder is unchanged.)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 4.0% g
 Site Coefficient (S) = 1.0

GENERAL PLAN & ELEVATION
 BURLINGTON NORTHERN
 SANTA FE RAILROAD OVER
 RAMP I
 F.A.P. ROUTE 315 SECT. 55-2
 McDONOUGH COUNTY
 STATION 21+61.48
 STRUCTURE NO. 055-9902
 B.N.S.F. LINE SEGMENT 0011
 B.N.S.F. BRIDGE NO. 206.13

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