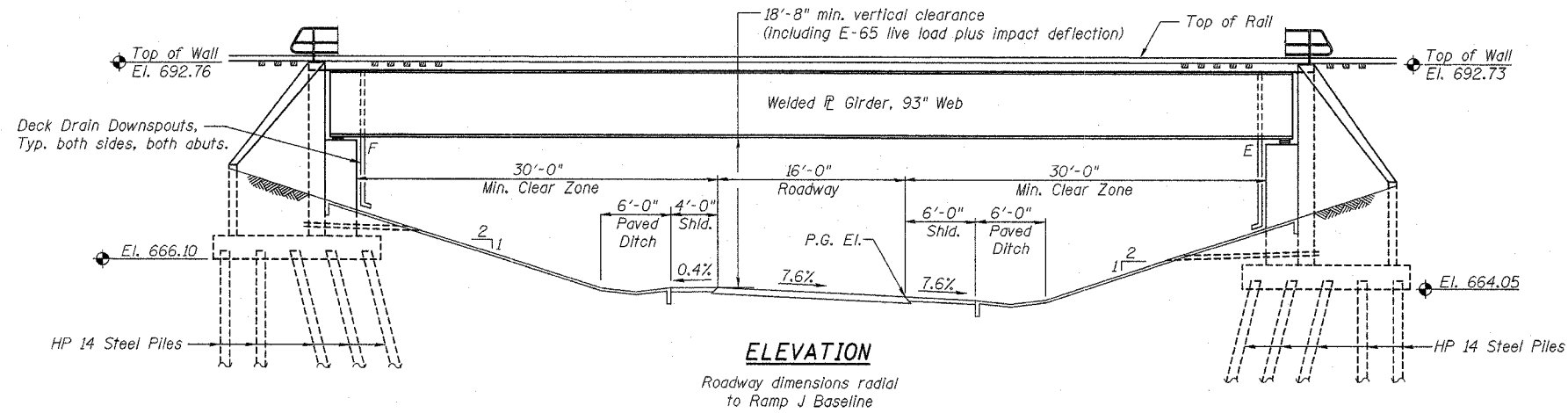


Benchmark: #33 Iron Rod with cap, 24'-5 7/8" Lt.; B.N.S.F. Sta. 1010+79.14 (N 1,376,589.403, E 2,138,781.303) El. 692.74
 Existing Structure: None. B.N.S.F. R.R. traffic will be maintained on shoofly constructed south of existing alignment.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAP 315	55-2	MCDONOUGH	1025	536	16 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		
Contract #68205					



INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes & Details
3. Deck Details
4. Pedestrian Railing
5. Framing Plan
6. Steel Details
7. Bearings
8. Anchor Bolt Details
9. West Abutment Details
10. East Abutment Details
11. West Abutment Footing
12. East Abutment Footing
- 13-14. Abutment Details
- 15-16. Boring Logs

SEISMIC DATA

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

DESIGN SPECIFICATIONS

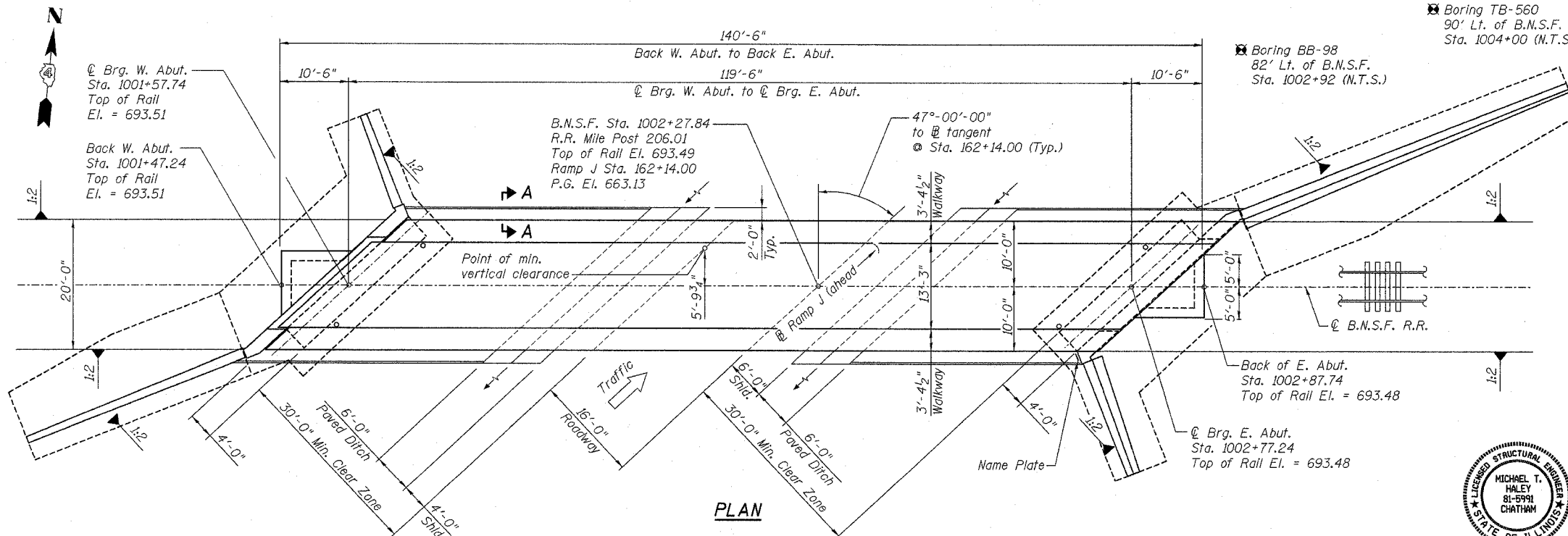
2005 A.R.E.M.A. Specifications

DESIGN STRESSES

f'c = 3,500 psi
 fy = 60,000 psi Reinforcement
 fy = 50,000 psi Structural Steel (AASHTO M270, Grade 50)
 fy = 36,000 psi Structural Steel (AASHTO M270, Grade 36)

DESIGN LOADING

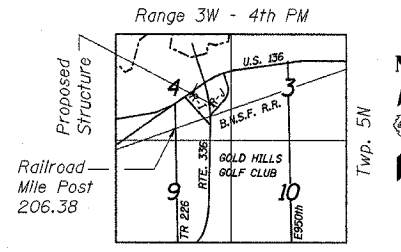
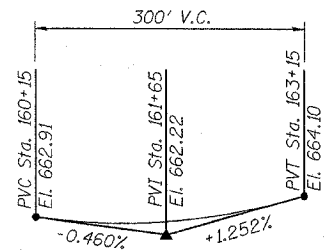
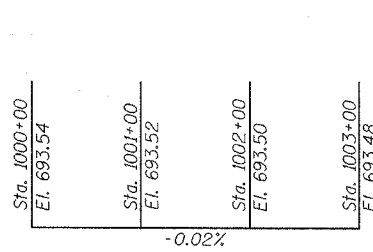
- 1.) Cooper's E-80 with diesel impact
- 2.) Allow 60 psf for future 6" additional ballast
- 3.) Walkway live load 85 psf
- 4.) Alternate short term loading per B.N.S.F. requirements: Cooper's E-65 with diesel impact while a fascia girder is temporarily out of service for repairs. (Dead load to girder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



Note:
 See Sheet 2 of 16 for Section A-A.

CURVE R-JC1
 P.I. STA = 161+14.06
 Δ = 34° 51' 16" RT.
 D = 5° 43' 46"
 R = 1,000.00'
 T = 313.90
 L = 608.32
 E = 48.11
 P.C. STA = 158+00.16
 P.T. STA = 164+08.48
 S.E. = 7.6%

HORIZONTAL CURVE DATA



Michael J. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991

3/26/06
 Date



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

ILLINOIS DEPARTMENT OF TRANSPORTATION
**GENERAL PLAN AND ELEVATION
 BURLINGTON NORTHERN
 SANTA FE RAILROAD OVER RAMP J
 F.A.P. ROUTE 315 SECT. 55-2
 McDONOUGH COUNTY
 STATION 162+14.00
 STRUCTURE NO. 055-9903
 B.N.S.F. LINE SEGMENT 0011
 B.N.S.F. BRIDGE NO. 206.00**

REVISIONS	
NAME	DATE

LIN ENGINEERING, LTD.
 200 W. Chestnut
 Chatham, Illinois 62629
 301-952-1168
 Fax: 301-952-4706
 Designed By: DLS
 Checked By: MTH
 Drawn By: JHL
 Date: 01/06
 File: 0559903.DGN

... \Struct\Plans\0559903.frm.dgn

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3/26/2006