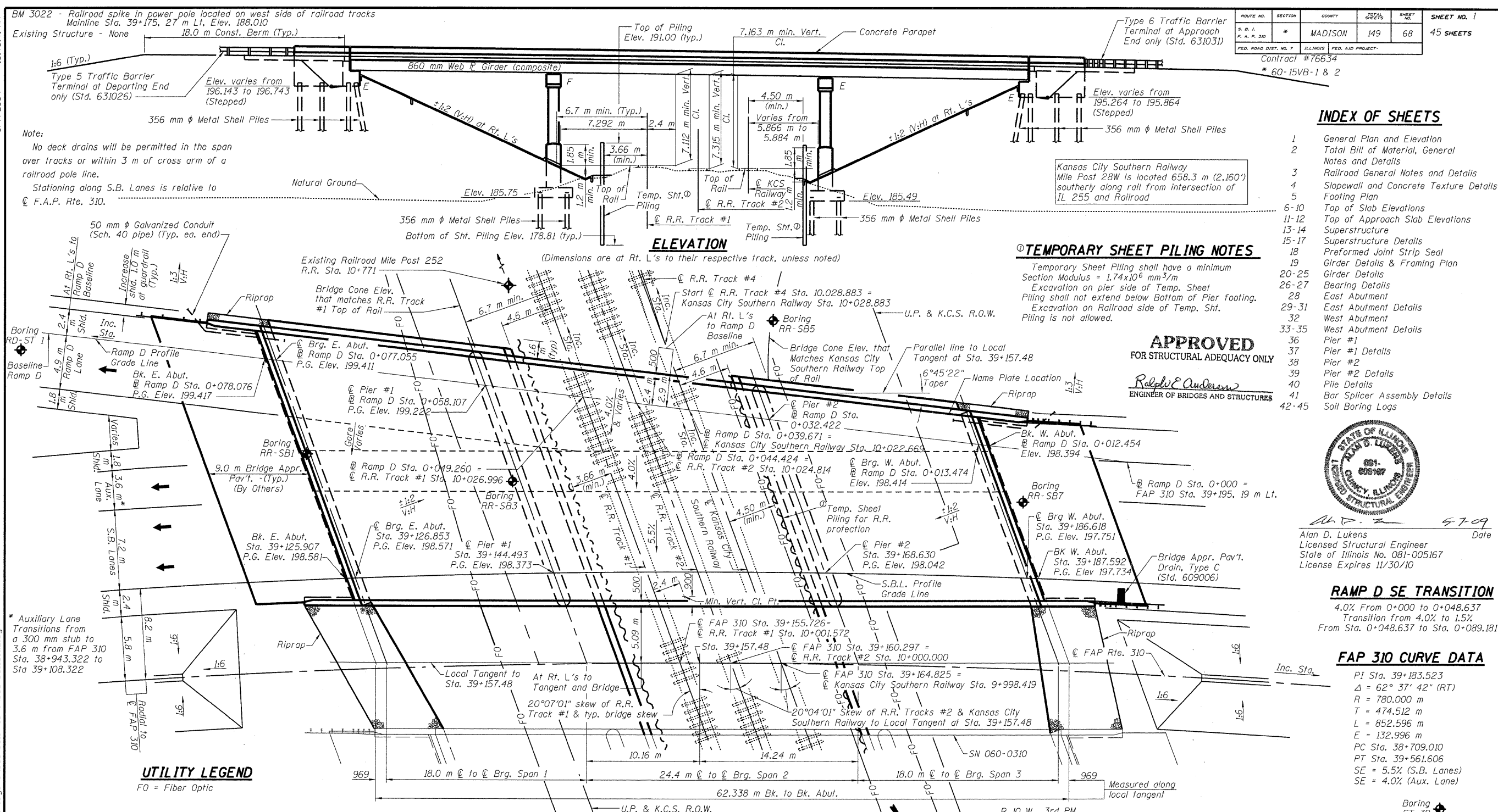


104-4841 AM
 5/7/2009
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
S. B. L. F. A. P. 310	*	MADISON	149	68	45 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					
Contract #76634					
* 60-15VB-1 & 2					

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Total Bill of Material, General Notes and Details
- 3 Railroad General Notes and Details
- 4 Slope and Concrete Texture Details
- 5 Footing Plan
- 6-10 Top of Slab Elevations
- 11-12 Top of Approach Slab Elevations
- 13-14 Superstructure
- 15-17 Superstructure Details
- 18 Preformed Joint Strip Seal
- 19 Girder Details & Framing Plan
- 20-25 Girder Details
- 26-27 Bearing Details
- 28 East Abutment
- 29-31 East Abutment Details
- 32 West Abutment
- 33-35 West Abutment Details
- 36 Pier #1
- 37 Pier #1 Details
- 38 Pier #2
- 39 Pier #2 Details
- 40 Pile Details
- 41 Bar Splicer Assembly Details
- 42-45 Soil Boring Logs

TEMPORARY SHEET PILING NOTES

Temporary Sheet Piling shall have a minimum Section Modulus = $1.74 \times 10^6 \text{ mm}^3/\text{m}$
 Excavation on pier side of Temp. Sheet Piling shall not extend below Bottom of Pier footing.
 Excavation on Railroad side of Temp. Sht. Piling is not allowed.

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



Alan D. Lukens
 Licensed Structural Engineer
 State of Illinois No. 081-005167
 License Expires 11/30/10

RAMP D SE TRANSITION

4.0% From 0+000 to 0+048.637
 Transition from 4.0% to 1.5%
 From Sta. 0+048.637 to Sta. 0+089.181

FAP 310 CURVE DATA

PI Sta. 39+183.523
 $\Delta = 62^\circ 37' 42''$ (RT)
 R = 780.000 m
 T = 474.512 m
 L = 852.596 m
 E = 132.996 m
 PC Sta. 38+709.010
 PT Sta. 39+561.606
 SE = 5.5% (S.B. Lanes)
 SE = 4.0% (Aux. Lane)

UTILITY LEGEND

FO = Fiber Optic

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

LOADING MS18

Allow 2.4 kN/m² for future wearing surface.

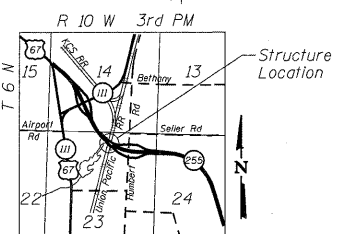
SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.080g
 Site Coefficient (S) = 1.0

PLAN

DESIGN STRESSES

FIELD UNITS
 $f'_c = 24 \text{ MPa}$
 $f_y = 400 \text{ MPa}$ (reinf.)
 $f_y = 345 \text{ MPa}$ (M270M Grade 345)
 $f_y = 250 \text{ MPa}$ (M270M Grade 250)



LOCATION SKETCH

GENERAL PLAN & ELEVATION
FAP RTE 310 (IL RTE 255) SB & RAMP D OVER
UNION PACIFIC & KANSAS CITY SOUTHERN R.R.
SECTION 60-15VB-1 & 2
MADISON COUNTY
STATION 39+160.297
STRUCTURE NUMBER 060-0311

DESIGNED	ADL
CHECKED	WLW
DRAWN	DGM/ADL
CHECKED	WLW

KLINGNER & ASSOCIATES, P.C.

Engineers • Architects • Surveyors
 616 North 24th Street, Quincy, IL 62450
 4508 Pavia Road, Woodstock, IL 60098
 150 N. 4th Street, Suite 100, Burlington, IL 60108
 19 North Front Street, Galena, IL 60131
 Internet Address: www.klingner.com
 STATE OF ILLINOIS DESIGN FIRM # 1842738