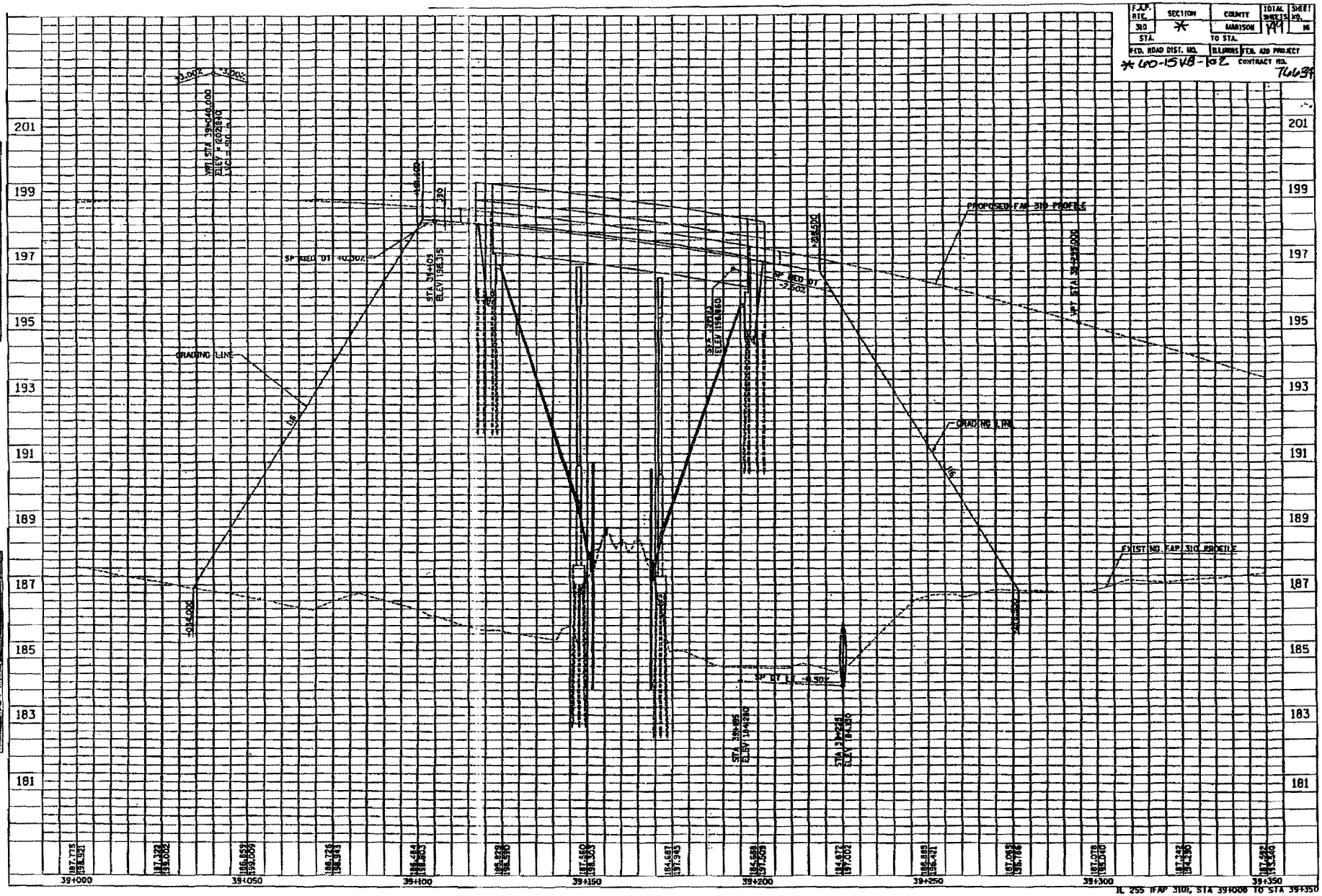

F.A.P. RTE. 310
SECTION *
COUNTY MADISON
TOTAL SHEETS 149
SHEET NO. 16
STA.
TO STA.
FED. ROAD DIST. NO.
ILLINOIS
FED. AID PROJECT
* LPO-15VB-02
CONTRACT NO. 76639
PROPOSED FAP 310 PROFILE
EXIST NO. FAP 310 PROFILE
GRADING LINE
SP FWD 01 +0.00%
STA. 394+05
ELEV. 198.05
STA. 394+85
ELEV. 194.80
STA. 394+25
ELEV. 194.60
STA. 394+25
ELEV. 194.30
STA. 394+00
ELEV. 198.00
STA. 394+00
ELEV. 198.00
STA. 394+25
ELEV. 198.00
STA. 394+25
ELEV. 198.00

BM 3022 - Railroad spike in power pole located on west side of railroad tracks. Bidline Sta. 39+175, 27 m (88.58') Lt. Elev. 188.010

Existing Structure - None

## TEMPORARY SHEET PILING NOTES

Temporary Sheet Piling shall have a minimum Section Modulus = $1.74 \times 10^6$ $mm^3/m$

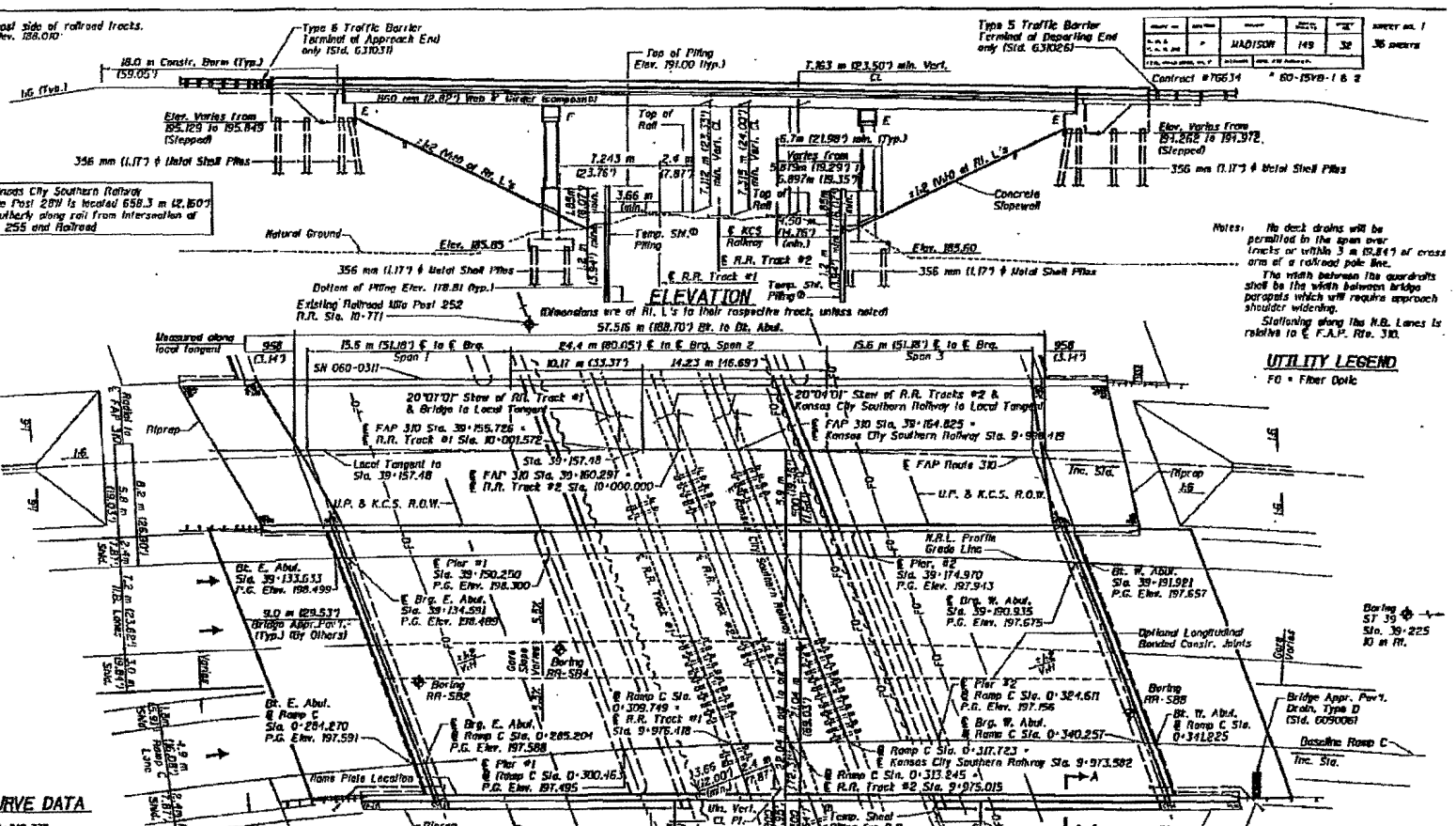
Excavation on pier side of Temp. Sheet Piling shall not extend below Bottom of Pier Footing.

Excavation on Railroad side of Temp. Sht. Piling is not allowed.

Kansas City Southern Railroad
Mile Post 289N is located 658.3 m (2,160') southerly along rail from intersection of IL 255 and Railroad

## INDEX OF SHEETS


| | |
|---|---|
| 1 | General Plan and Elevation |
| 2 | Total Bill of Material, General Notes and Details |
| 3 | Railroad General Notes and Details |
| 4 | Stepwall and Concrete Texture Details |
| 5 | Footing Plan |
| 6-9 | Top of Slab Elevations |
| 10-11 | Top of Approach Slab Elevations |
| 12 | Superstructure |
| 13-14 | Superstructure Details |
| 15 | Preformed Joint Strip Seal |
| 16 | Girder Details & Framing Plan |
| 17 | Girder Details |
| 18-19 | Bearing Details |
| 20 | East Abutment |
| 21-23 | East Abutment Details |
| 24 | West Abutment |
| 25-27 | West Abutment Details |
| 28 | Pier #1 |
| 29 | Pier #1 Details |
| 30 | Pier #2 |
| 31 | Pier #2 Details |
| 32 | Pile Details |
| 33 | Bar Splicer Assembly Details |
| 34-36 | Soil Boring Logs |


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

## FAP 310 CURVE DATA

PI STA. 39+183.523
Δ = 62° 37' 12" (RT)
R = 780.000 m (2,559.05')
T = 474.512 m (1,556.79')
L = 852.596 m (2,797.23')
E = 132.998 m (435.34')
PC Sta. 38+709.010
PT Sta. 39+561.606
SE = 5.5%

## RAMP C CURVE DATA

PI Sta. = 0+312.778
Δ = 8° 58' 29" (RT)
R = 525.000 m (1,722.44')
T = 41.201 m (135.17')
L = 82.234 m (269.80')
E = 1.614 m (5.30')
SE = 5.5%
PC Sta. = 0+271.577
PT Sta. = 0+353.811

## GORE TRANSITION

Gore cross slope transitions from 1.0% to 2.08% from FAP 310 Sta. 39+178.890 to Sta 39+210.881

## DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

### LOADING MS18

Allow 2.4 kN/$m^2$ for future wearing surface.

### SEISMIC DATA

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

## DESIGN STRESSES

### FIELD UNITS

f'c = 24 MPa
fr = 400 MPa (reinf.)
fy = 345 MPa (M270M Grade 345)
fy = 250 MPa (M270M Grade 250)

## UTILITY LEGEND

FO = Fiber Optic

Notes: No deck drains will be permitted in the span over tracks or within 3 m (9.84') of cross arm of a railroad pole line.

The width between the guardrails shall be the width between bridge parapets which will require approach shoulder widening.

Stationing along the R.R. Lanes is relative to ℄ F.A.P. Rte. 310.

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
STATE OF ILLINOIS DESIGN FIRM = 184-2738

| | |
|---|---|
| DESIGNED | ADL |
| CHECKED | WLW |
| DRAWN | DGR/ADL |
| CHECKED | WLW |

# GENERAL PLAN & ELEVATION
# FAP RTE 310 (IL RTE 255) NB & RAMP C OVER UNION PACIFIC & KANSAS CITY SOUTHERN R.R.
## SECTION 60-15VB-1 & 2
## MADISON COUNTY
## STATION 39+160.297
## STRUCTURE NUMBER 060-0310

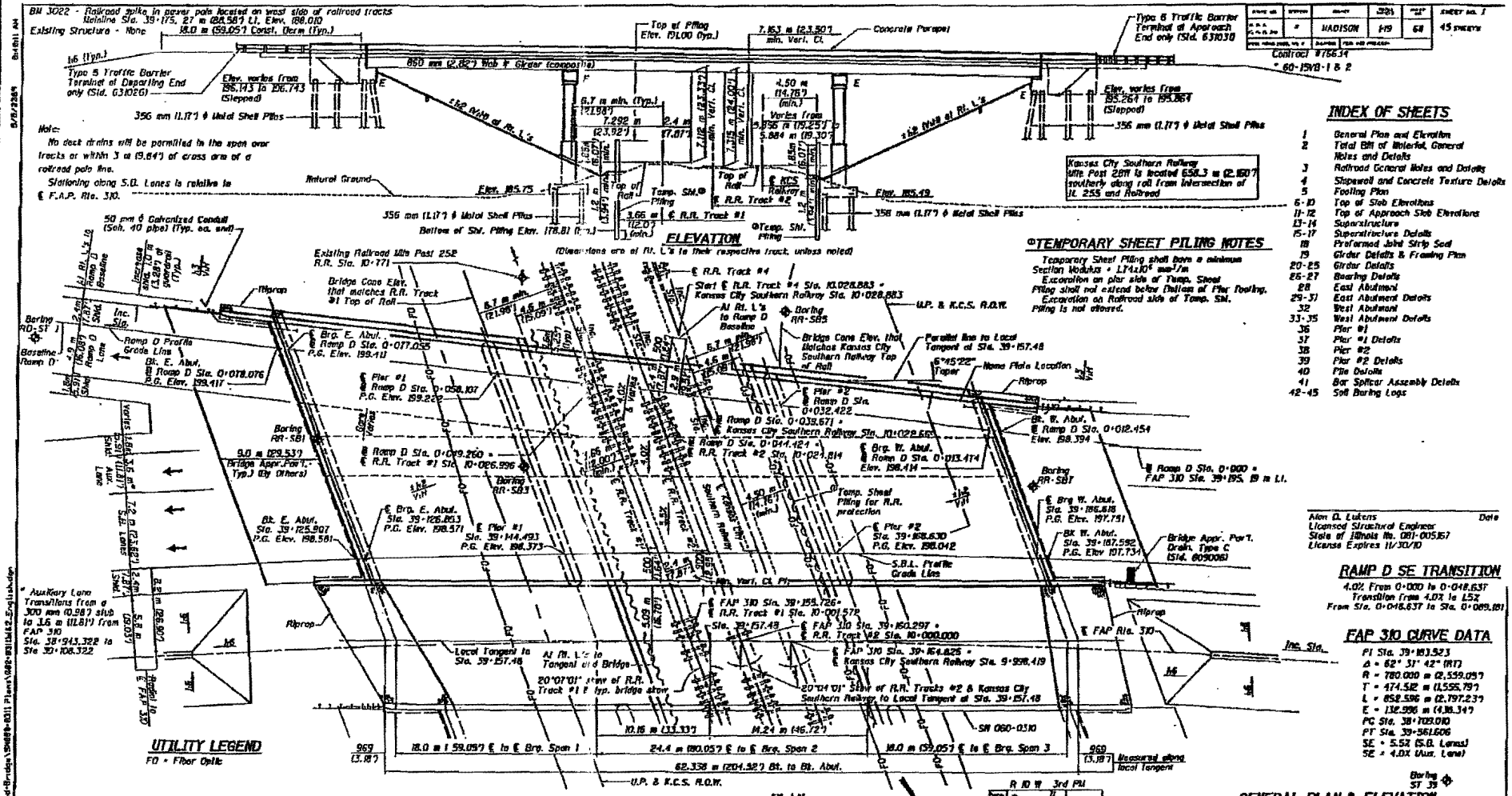
Klingner & Assoc., P.C.

| STATE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0.0.0. 0.0.0.0 | * | MADISON | 119 | 68 |

SHEET NO. 1
45 SHEETS

Contract #75634
* 60-15VB-1 & 2

BM 3022 - Railroad spike in power pole located on west side of railroad tracks Mainline Sta. 39+175, 27 m (88.58') Lt. Elev. 198.010
Existing Structure - None




## INDEX OF SHEETS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| 19 | Girder Details & Framing Plan |
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| 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 = 1.74x10⁶ mm³/m
Excavation on pier side of Temp. Sheet Piling shall not extend below Bottom of Pier Footing.
Excavation on Railroad side of Temp. Sh. Piling is not allowed.

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

## RAMP D SE TRANSITION

4.0% From 0+000 to 0+048.631
Transition from 4.0% to 1.5% From Sta. 0+048.631 to Sta. 0+089.181

## FAP 310 CURVE DATA

PI Sta. 39+183.523
Δ = 62° 31' 42" (RT)
R = 780.000 m (2,559.05')
T = 474.512 m (1,555.79')
L = 852.596 m (2,797.23')
E = 132.996 m (436.34')
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

### DESIGN STRESSES

FIELD UNITS

f'c = 24 MPa
fy = 400 MPa (rebar)
fy = 345 MPa (M270M Grade 345)
fy = 250 MPa (M270M Grade 250)

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
STATE OF ILLINOIS DESIGN FIRM = 184-0736

| | |
|---|---|
| DESIGNED | ADL |
| CHECKED | WW |
| DRAWN | DGW/ADL |
| CHECKED | WW |

# 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

Klingner & Assoc., P.C.

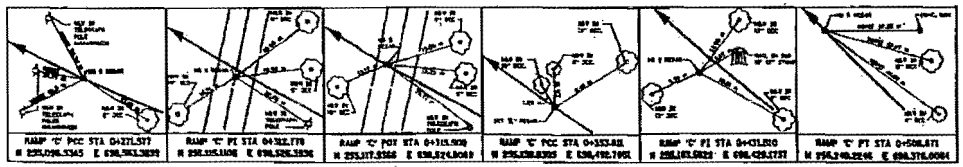
COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

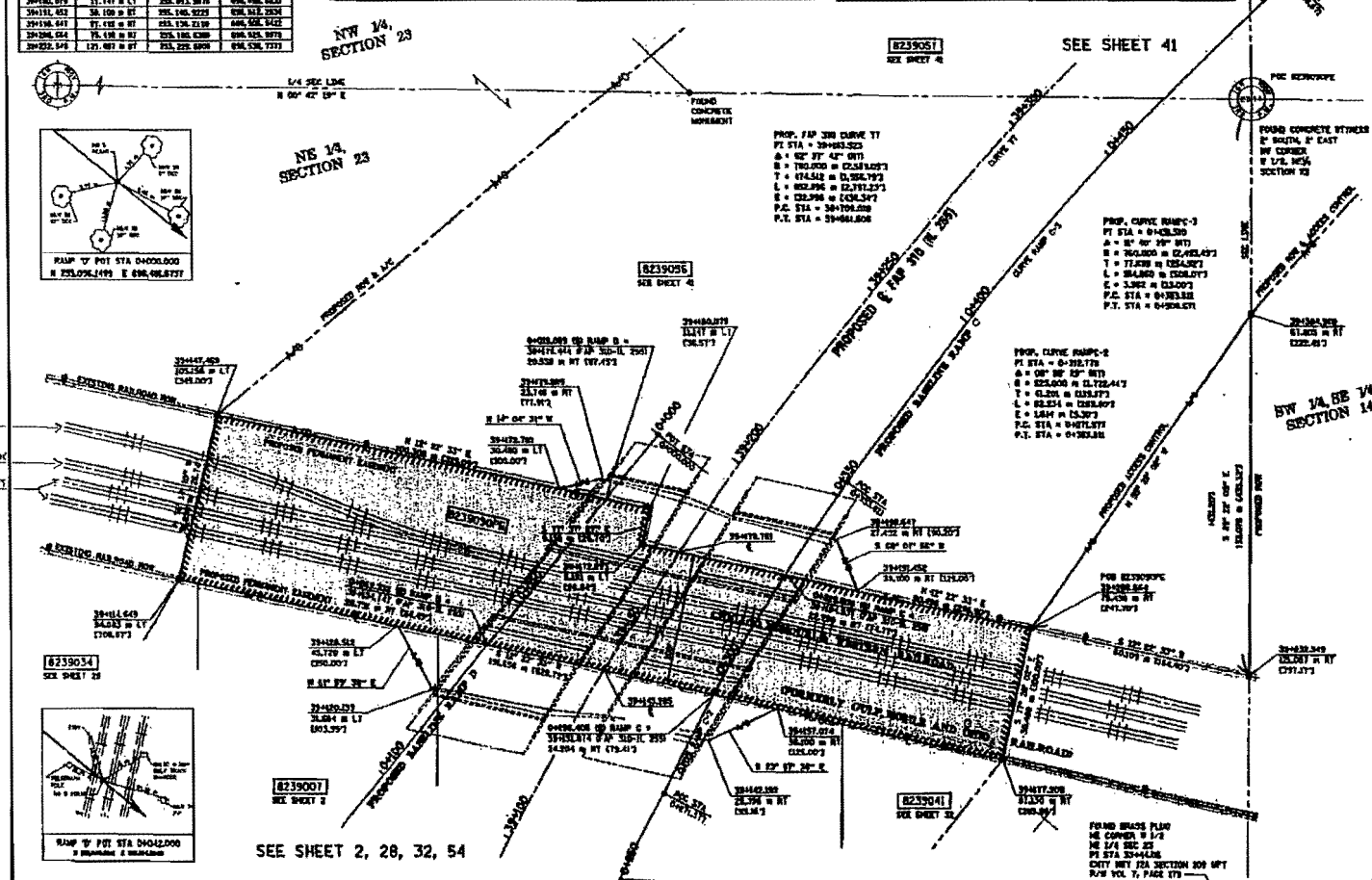
# PART OF THE NE 1/4 OF SECTION 23, T6N, R10W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

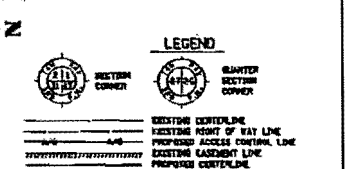
BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

COORDINATE TABLE

| STATION | OFFSET | NORTH | EAST |
|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] |




SEARCH OF PROPOSED RIGHT OF WAY. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY DESCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

SEARCH OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY DESCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STATE OF ILLINOIS )
COUNTY OF ADAMS ) SS

THIS IS TO CERTIFY THAT I, JOHN E. BASINGER AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE DIRECTED THE SURVEY AND DRAFTING OF THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 23, TOWNSHIP 6 NORTH, RANGE 10 WEST, OF THE THIRD PRINCIPAL MERIDIAN, MADISON COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED 11-30-2005

JOHN E. BASINGER, PLS #2766
LICENSE EXPIRATION DATE: 11-30-2006
"THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY."
FIELD WORK COMPLETED: APRIL 2004

KLINGNER
Engineers/Architects

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 310 (IL 255)
SECTION 60-15
MADISON COUNTY
JOB NO. R-98-039-92
STATION 39+143.295 TO STATION 39+75.731
SCALE 1:600
SHEET 1 OF 1

| PARCEL NO. | OWNER | TOTAL REQUIRED | GROSS | | PER SIMPLE ACQUISITION PREVIOUSLY DEDICATED | | NET | | REMAINDER | EASEMENTS TE = TEMPORARY | | EASEMENT PURPOSE | PERMANENT TAX NUMBER | PROPERTY ACQUIRED BY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ACRES | ACRES | SQ. FT. | ACRES | SQ. FT. | ACRES | SQ. FT. | ACRES | ACRES | SQ. FT. | | | |
| 8239096 | THE KANSAS CITY SOUTHERN RAILWAY COMPANY AS SUCCESSOR BY MERGER TO GATEWAY WESTERN RAILWAY COMPANY, AS TO AN UNDIVIDED 1/2 INTEREST; AND UNION PACIFIC RAILROAD COMPANY, AS TO AN UNDIVIDED 1/2 INTEREST TITLE REPORT NO. MA-3781.6, MA-3840 REVISED | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | TE 1.0 AC | TL 0.61 | BRIDGE OVER RAILROAD | 24-1-01-23-00-000-006 | |

EXHIBIT 1C