

PROJECT	DESIGNATION
IM-80-1(158)	9910600
CONTRACT	
R-26991	

INDIANA DEPARTMENT  
OF TRANSPORTATION

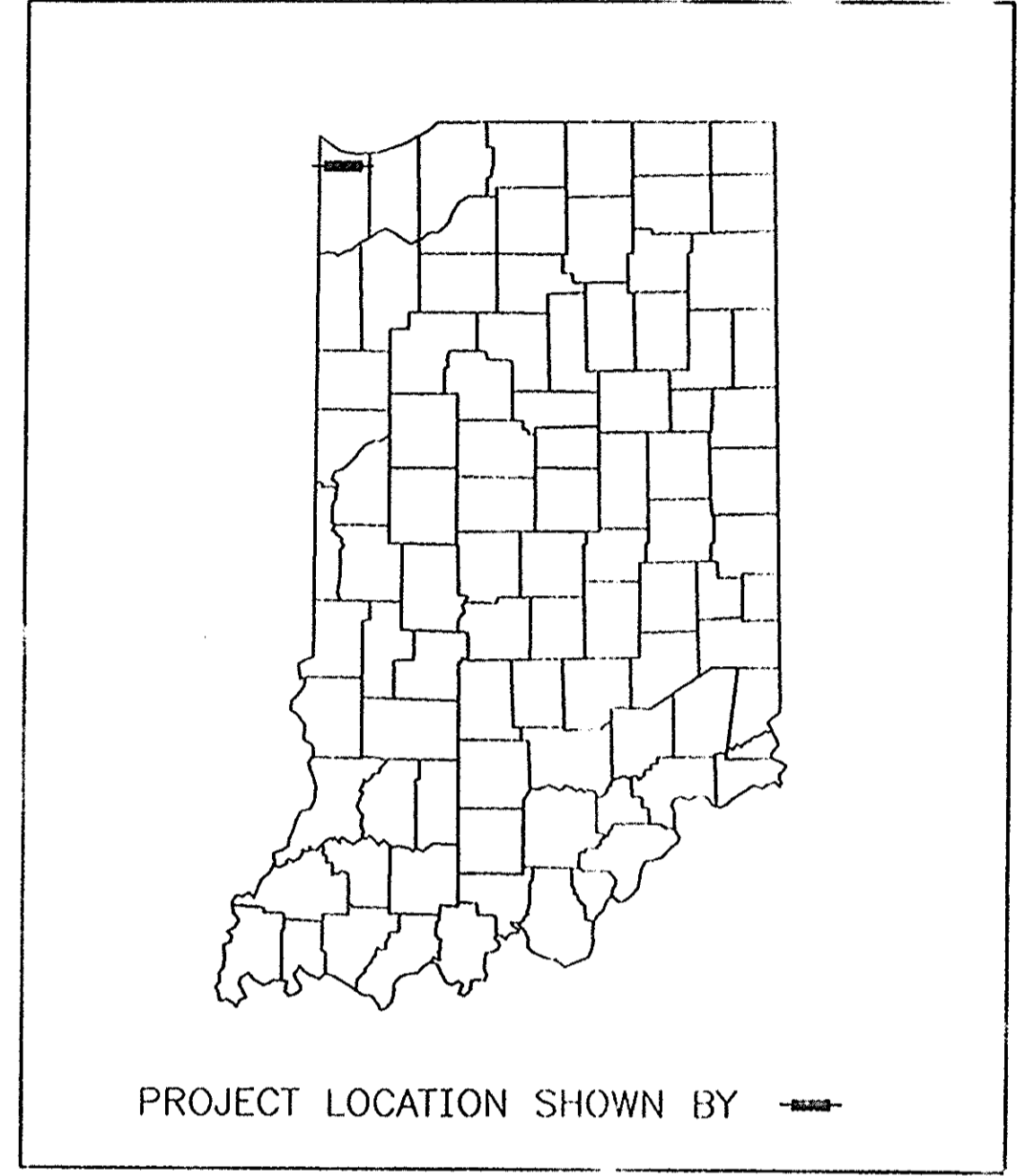
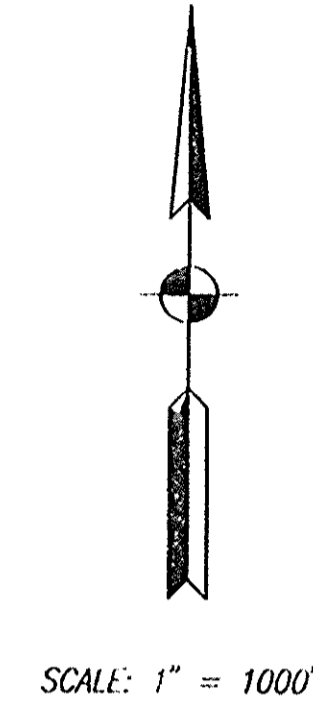
4678  
**ROAD PLANS**

PROJECT No. - IM-80-1(158) P.E.  
PROJECT No. - IM-80-1(158) R/W  
PROJECT No. - IM-80-1(158) CONST.

TRAFFIC DATA		BORMAN EXPRESSWAY
A.D.T. (2003)		169,920
A.D.T. (2023)		208,190
D.H.V. (2023)		14587
DIRECTIONAL DISTRIBUTION		
TRUCKS		34 %
		2 %
DESIGN DATA		
DESIGN SPEED		60
PROJECT DESIGN CRITERIA	COMPLETE CONST.	ON (FR. INT.)
FUNCTIONAL CLASSIFICATION		N (SUB)
RURAL/URBAN		
TERRAIN		
ACCESS CONTROL		

RP 0152 to RP 3+45  
GROSS LENGTH: 2.930 miles  
NET LENGTH: 2.876 Miles  
MAXIMUM GRADES: 3.0%

Complete Reconstruction of Interstate 94 from 0.02 Miles east of Calumet Avenue to 1.07 miles east of Kennedy Avenue



R-26991  
PART 1 of 10

Begin Project No. IM-80-1(158)  
Sta. 87+50.00 Line "K"

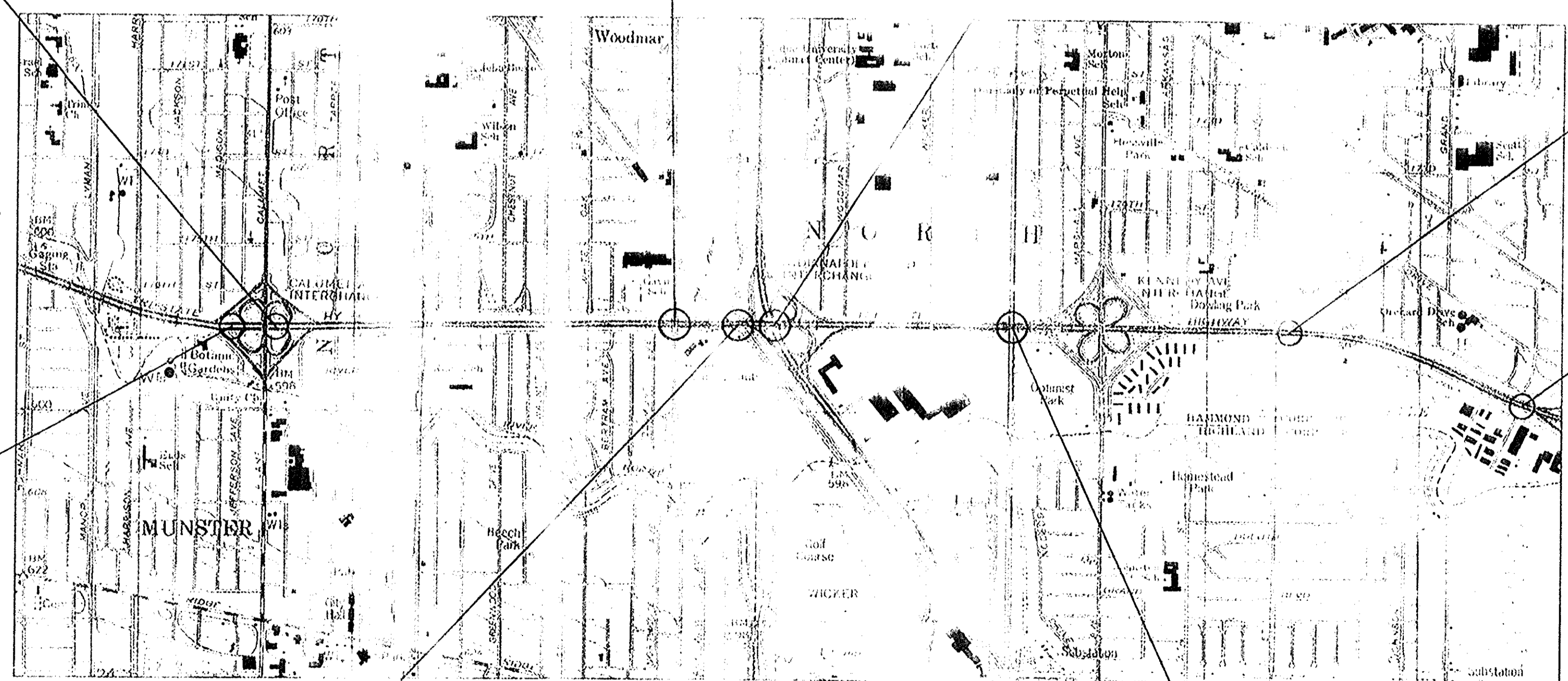
Bridge Replacement Str. No. 1  
Bridge File: I-80-08472  
Des. No. 9910640  
To Be Built in Combination,  
With Road Contract

Bridge Replacement Str. No. 3  
Bridge File: I-80-08470  
Des. No. 9910660  
To Be Built in Combination  
With Road Contract

End Project No. IM-80-1(158)  
Sta. 244+96.11 Line "PR-K"

End Incidental Construction No. IM-80-1(158)  
Sta. 285+58.18 Line "K"

Begin Incidental Construction No. IM-80-1(158)  
Sta. 134+75.50 Line "KK"



Bridge Replacement Str. No. 2  
Bridge File: I-80-08471  
Des. No. 9910650  
To Be Built in Combination,  
With Road Contract

LAKE COUNTY  
LOCATION MAP

Bridge Replacement Str. No. 4  
Bridge File: I-80-08469  
Des. No. 9910670  
To Be Built in Combination  
With Road Contract



RECOMMENDED FOR APPROVAL: *Ronald L. Ramey* 1/22/05  
MANAGER, R/W ENGINEERING SECTION

THE INFORMATION CONTAINED IN THESE PLANS IS NOT COMPLETE FOR CONSTRUCTION. THESE PLANS ARE CERTIFIED FOR COMPLIANCE WITH INDOT LEVEL ONE DESIGN CRITERIA EXCEPT AS NOTED IN THE "SCOPE OF SERVICES" SECTION OF THE CONTRACT DOCUMENTS.

[INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 1999 TO BE USED WITH THESE PLANS]

1625 N. Post Road  
Indianapolis, Indiana 46219  
Phone: 317-895-2585  
Fax: 317-895-2596 Web: www.ucca.com

FEDERAL HIGHWAY ADMINISTRATION  
U.S. DEPT. OF TRANSPORTATION  
APPROVED: \_\_\_\_\_  
DIVISION ADMINISTRATOR

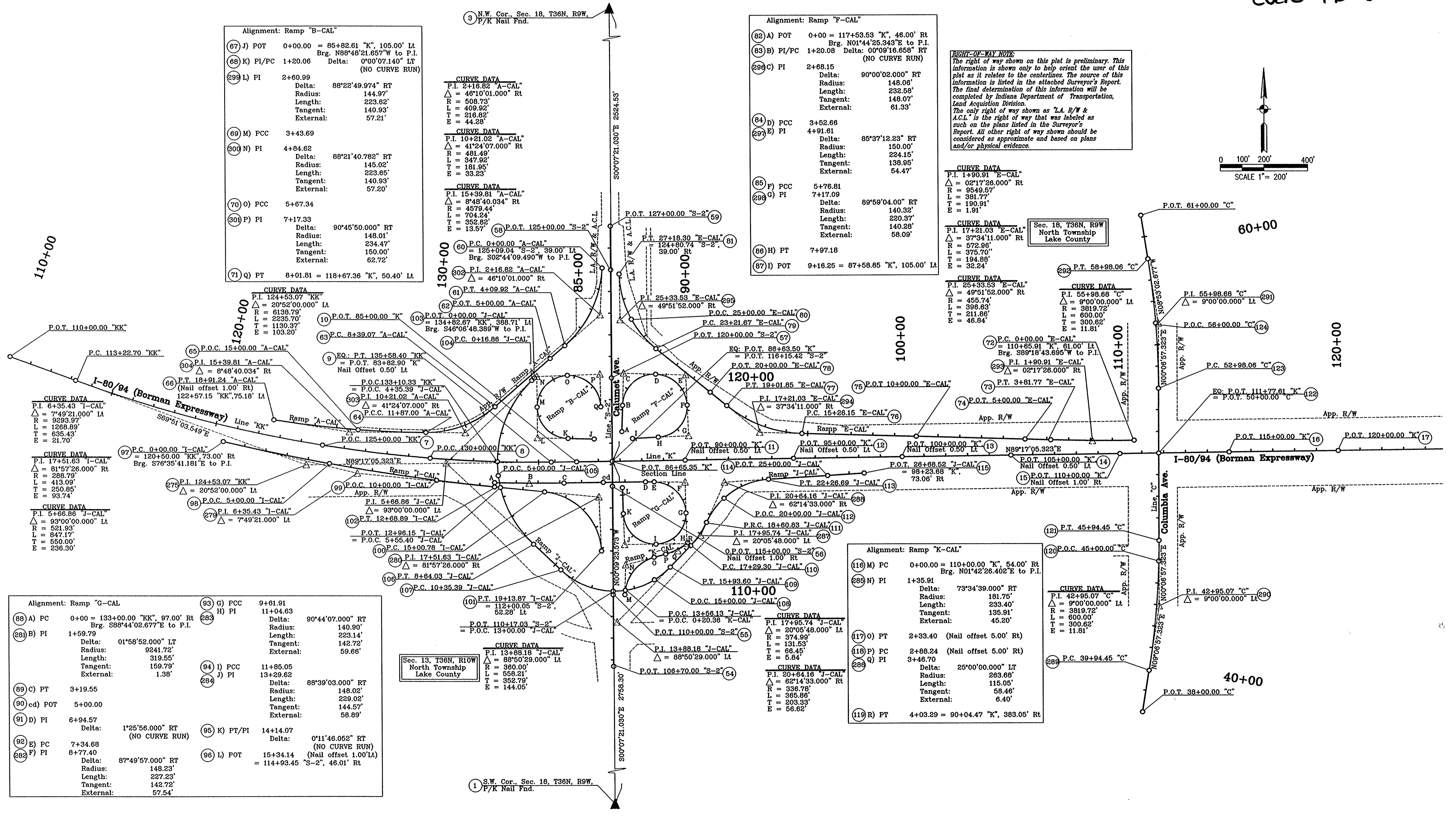
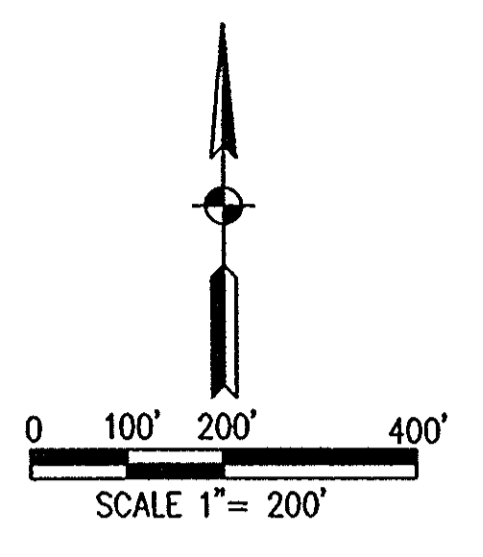
PLANS PREPARED BY: UNITED CONSULTING ENGINEERS & ARCHITECTS (317) 895-2585  
PHONE NUMBER  
CERTIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED FOR LETTING: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHIEF, DIVISION OF DESIGN



DESIGNATION	9910600
SHEETS	1 of 11
PROJECT	IM-80-1(158)
SURVEY BOOK	
CONTRACT	R-26991



Code 4678



Alignment: Ramp "B-CAL"

(67) J) POT	0+00.00	= 85+82.61 "K", 105.00' Lt
(68) K) PI/PC	1+20.06	Brg. N88°48'21.657"W to P.I. Delta: 0°00'07.140" Lt (NO CURVE RUN)
(299) L) PI	2+60.99	Delta: 88°22'49.974" Rt Radius: 144.97' Length: 223.62' Tangent: 140.93' External: 57.21'
(69) M) PCC	3+43.69	
(300) N) PI	4+84.62	Delta: 86°21'40.782" Rt Radius: 145.02' Length: 223.65' Tangent: 140.93' External: 57.20'
(70) O) PCC	5+67.34	
(301) P) PI	7+17.33	Delta: 90°45'50.000" Rt Radius: 148.01' Length: 234.47' Tangent: 150.00' External: 62.72'
(71) Q) PT	8+01.81	= 118+67.36 "K", 50.40' Lt

CURVE DATA

P.I. 2+16.82 "A-CAL"
Δ = 48°10'01.000" Rt
R = 508.73'
L = 409.92'
T = 216.82'
E = 44.28'

CURVE DATA

P.I. 10+21.02 "A-CAL"
Δ = 41°24'07.000" Rt
R = 481.49'
L = 347.92'
T = 181.92'
E = 33.23'

CURVE DATA

P.I. 15+39.81 "A-CAL"
Δ = 6°48'40.034" Rt
R = 4579.44'
L = 704.24'
T = 352.82'
E = 13.57'

Alignment: Ramp "F-CAL"

(82) A) POT	0+00	= 117+53.53 "K", 46.00' Rt Brg. N01°44'25.343"E to P.I.
(83) B) PI/PC	1+20.08	Delta: 0°09'16.658" Rt (NO CURVE RUN)
(298) C) PI	2+68.15	Delta: 90°00'02.000" Rt Radius: 148.06' Length: 232.58' Tangent: 148.07' External: 61.33'
(84) D) PCC	3+52.68	
(299) E) PI	4+91.61	Delta: 85°37'12.23" Rt Radius: 150.00' Length: 224.15' Tangent: 138.95' External: 54.47'
(85) F) PCC	5+76.81	
(298) G) PI	7+17.09	Delta: 89°59'04.00" Rt Radius: 140.32' Length: 220.37' Tangent: 140.28' External: 58.09'
(86) H) PT	7+97.18	
(87) I) POT	9+16.25	= 87+58.85 "K", 105.00' Lt

**RIGHT-OF-WAY NOTE**  
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The only right of way shown as "L.A. R/W" & "A.C.L." is the right of way that was labeled as such on the plans listed in the Surveyor's Report. All other right of way shown should be considered as approximate and based on plans and/or physical evidence.

CURVE DATA

P.I. 1+90.91 "E-CAL"
Δ = 02°17'26.000" Rt
R = 9549.57'
L = 381.77'
T = 190.91'
E = 1.91'

CURVE DATA

P.I. 17+21.03 "E-CAL"
Δ = 37°34'11.000" Rt
R = 572.98'
L = 375.70'
T = 194.88'
E = 32.24'

CURVE DATA

P.I. 6+35.43 "I-CAL"
Δ = 7°49'21.000" Lt
R = 9293.97'
L = 1268.89'
T = 635.43'
E = 21.70'

CURVE DATA

P.I. 17+51.63 "I-CAL"
Δ = 81°57'26.000" Rt
R = 288.79'
L = 413.09'
T = 250.85'
E = 93.74'

Alignment: Ramp "G-CAL"

(88) A) PC	0+00	= 133+00.00 "KK", 97.00' Rt Brg. S88°44'02.677"E to P.I.
(281) B) PI	1+59.79	Delta: 01°58'52.000" Lt Radius: 9241.72' Length: 319.55' Tangent: 159.79' External: 1.38'
(89) C) PT	3+19.55	
(90) cd) POT	5+00.00	
(91) D) PI	6+94.57	Delta: 1°25'56.000" Rt (NO CURVE RUN)
(92) E) PC	7+34.68	
(282) F) PI	8+77.40	Delta: 87°49'57.000" Rt Radius: 148.23' Length: 227.23' Tangent: 142.72' External: 57.54'
(93) G) PCC	9+61.91	
(283) H) PI	11+04.63	Delta: 90°44'07.000" Rt Radius: 140.90' Length: 223.14' Tangent: 142.72' External: 59.66'
(94) I) PCC	11+85.05	
(284) J) PI	13+29.62	Delta: 88°39'03.000" Rt Radius: 148.02' Length: 229.02' Tangent: 144.57' External: 58.89'
(95) K) PT/PI	14+14.07	Delta: 0°11'46.052" Rt (NO CURVE RUN)
(96) L) POT	15+34.14	(Nail offset 1.00' Lt) = 114+93.45 "S-2", 46.01' Rt

Sec. 13, T36N, R10W  
North Township  
Lake County

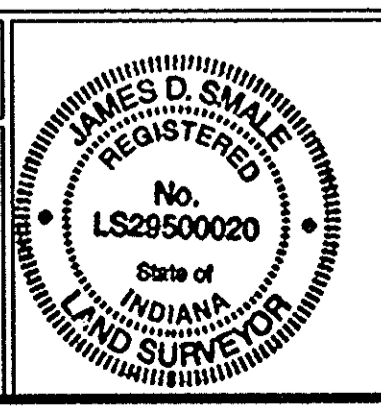
1 S.W. Cor., Sec. 18, T36N, R9W,  
P/K Nail Fnd.

SURVEY STARTED		
11/07/01		
SURVEY COMPLETED		
01/10/03		
ROUTE PLAT SHEETS		
1	OF	9

Lake County Recorder  
Instr. #2003051548 Bk. 010, Pg. 19  
Date: 5/21/03

SURVEYOR STATEMENT

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



USI CONSULTANTS, INC.  
8415 EAST 56TH STREET  
INDIANAPOLIS, IN 46216  
(317)544-4996

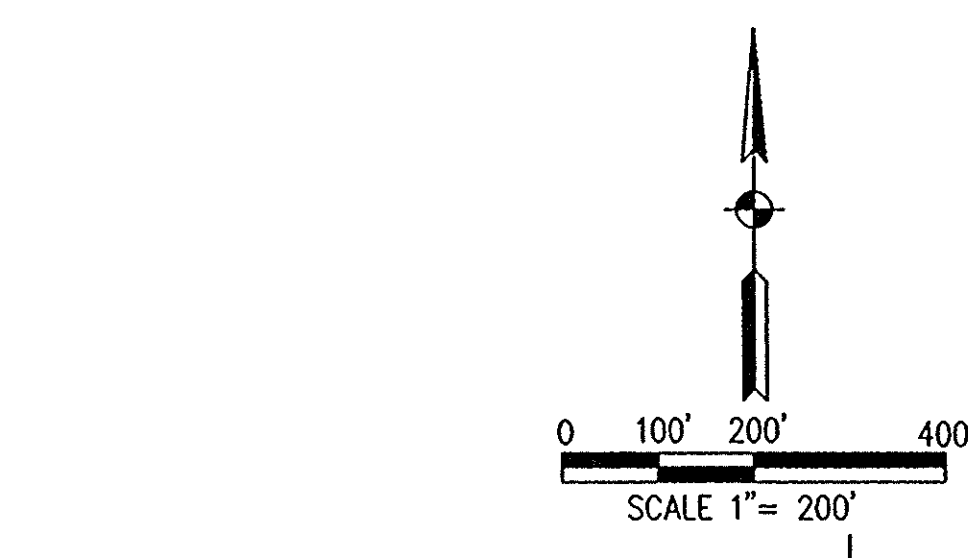
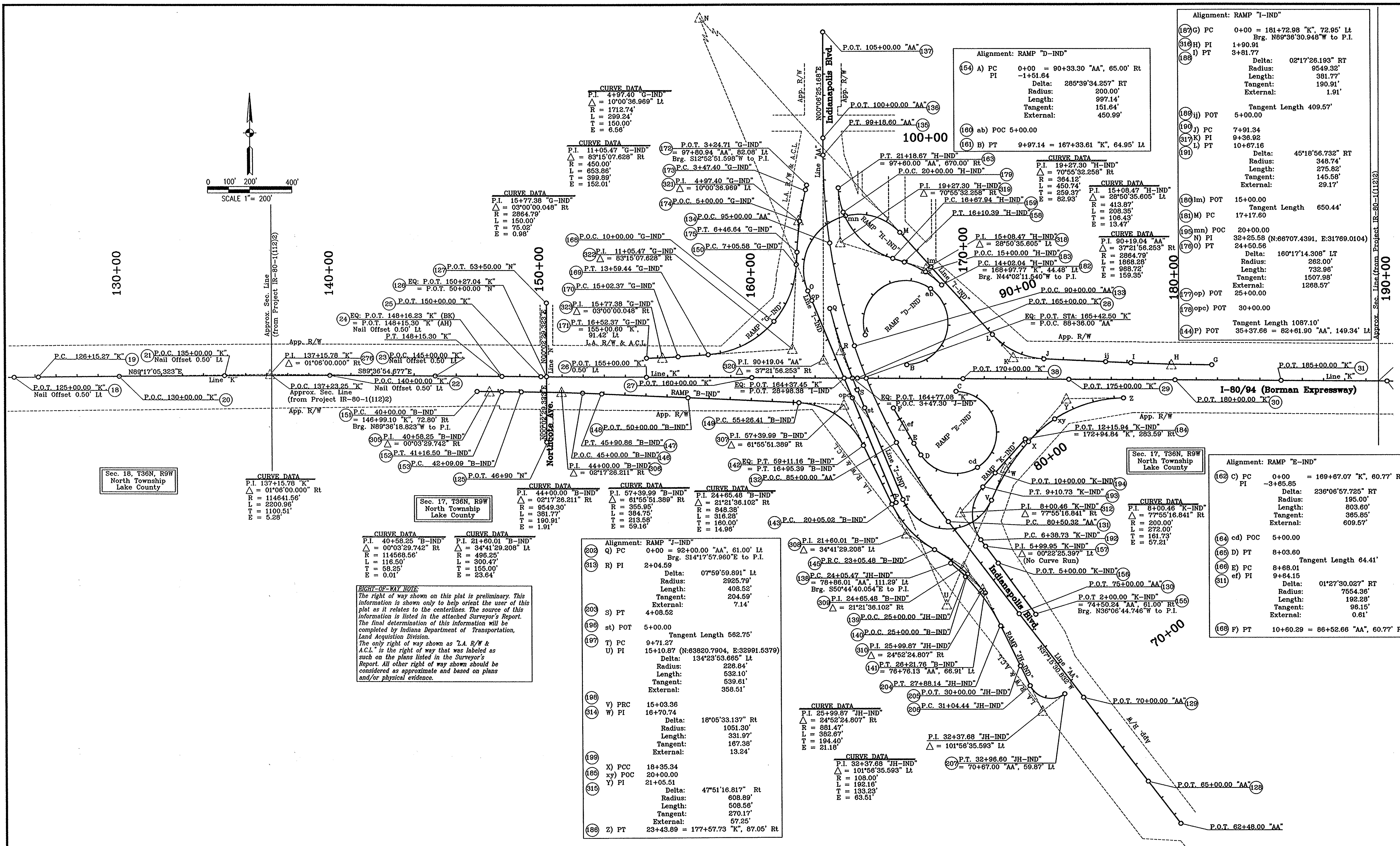
RECOMMENDED FOR APPROVAL

SIGNATURE: *James D. Smale* 5-19-03  
DATE: JAMES D. SMALE, PLS

INDIANA  
DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1" = 200'	
COUNTY	DESIGNATION
LAKE	9910600
SURVEY BOOK	PLAN SHEETS
	OF
CONTRACT	PROJECT
	IM-80-1



Sec. 18, T36N, R9W  
 North Township  
 Lake County

Sec. 17, T36N, R9W  
 North Township  
 Lake County

Sec. 17, T36N, R9W  
 North Township  
 Lake County

**RIGHT-OF-WAY NOTE:**  
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SURVEY STARTED	11/07/01
SURVEY COMPLETED	01/10/03
ROUTE PLAT SHEETS	2 OF 9

Lake County Recorder  
 Instr. #2003051548 Bk. 010, Pg. 19  
 Date: 5/21/03

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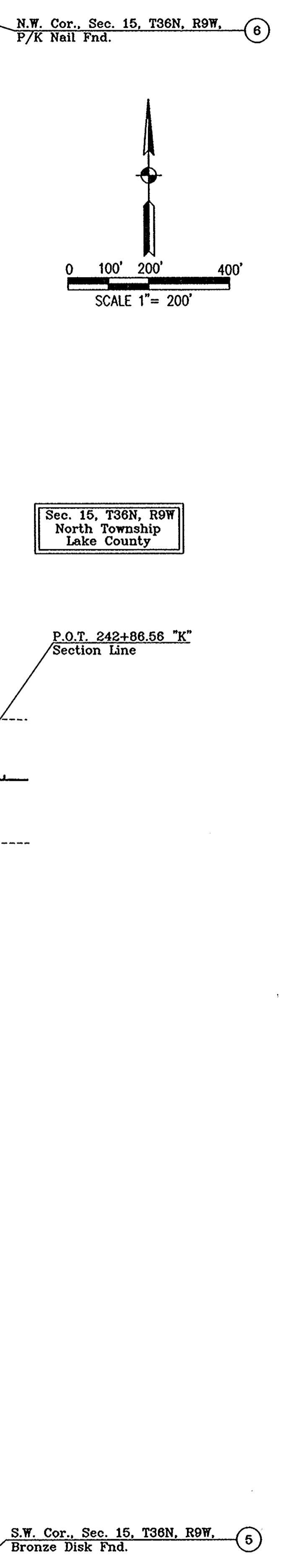
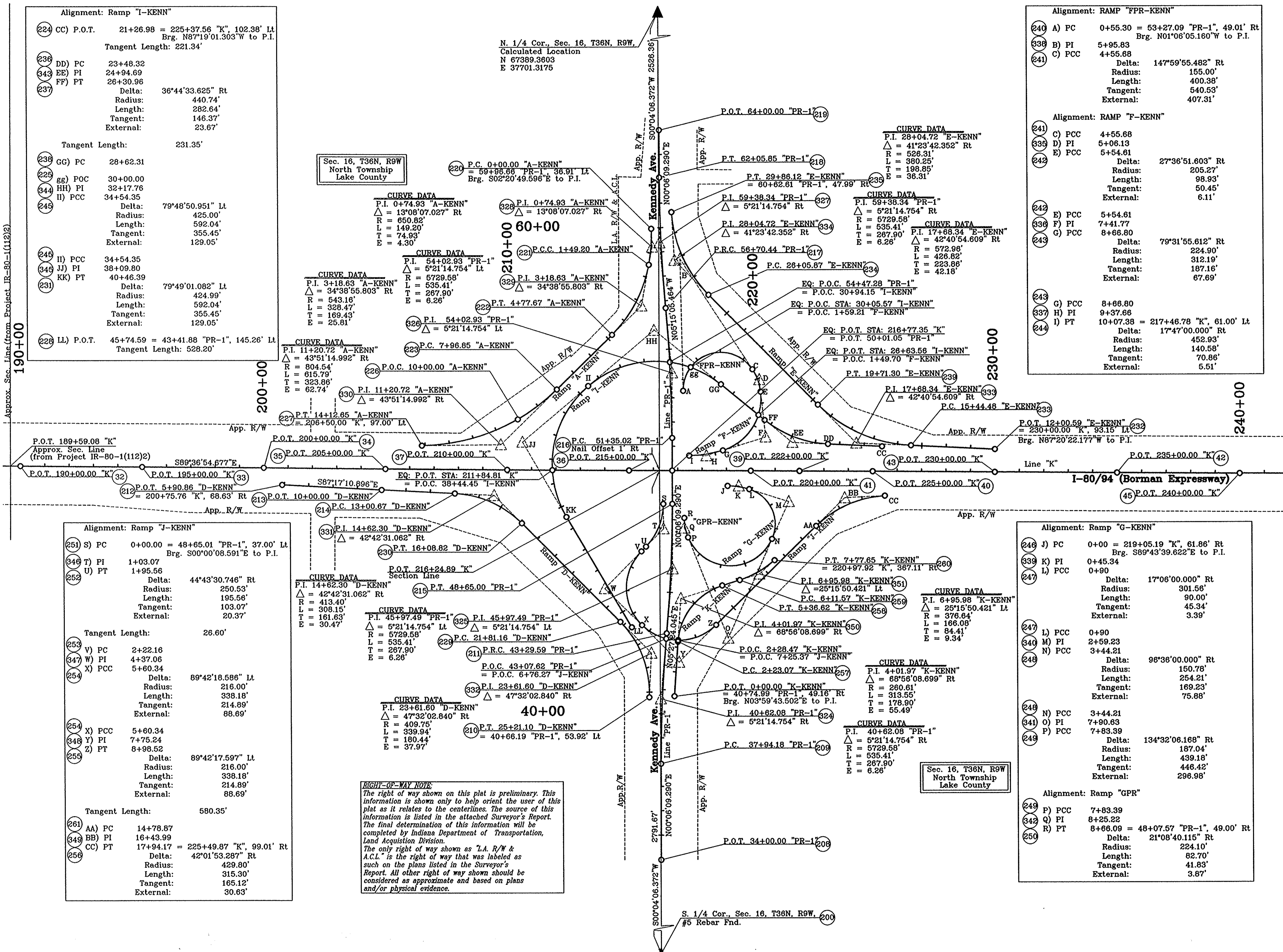
**USI CONSULTANTS, INC.**  
 8415 EAST 56TH STREET  
 INDIANAPOLIS, IN 46216  
 (317)544-4996

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 SIGNATURE: *James D. Smale* 5.19.03  
 JAMES D. SMALE, PLS DATE

**INDIANA DEPARTMENT OF TRANSPORTATION**

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1" = 200'	
COUNTY	DESIGNATION
LAKE	9910600
SURVEY BOOK	PLAN SHEETS
	OF
CONTRACT	PROJECT
	IM-80-1



Approx. Sec. Line from Project IR-80-1(112)2

Section Line

Section Line

Section Line

Section Line

Section Line

Section Line

Section Line

Section Line

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SURVEY STARTED		
11/07/01		
SURVEY COMPLETED		
01/10/03		
ROUTE PLAT SHEETS		
3	OF	9

Lake County Recorder  
Instr. #2003051548 Bk. 010, Pg. 19  
Date: 5/21/03

**SURVEYOR STATEMENT**

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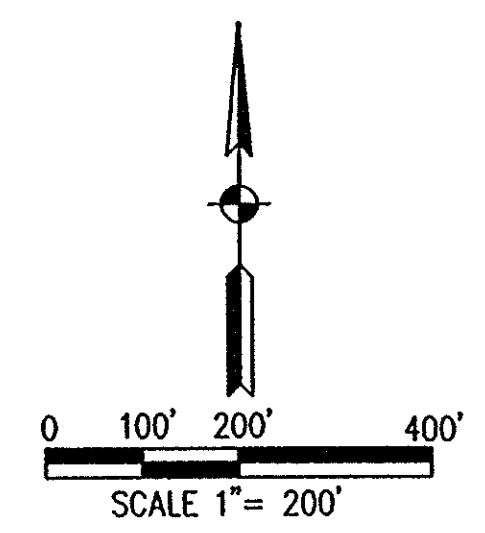
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8415 EAST 56TH STREET  
INDIANAPOLIS, IN 46216  
(317)544-4996

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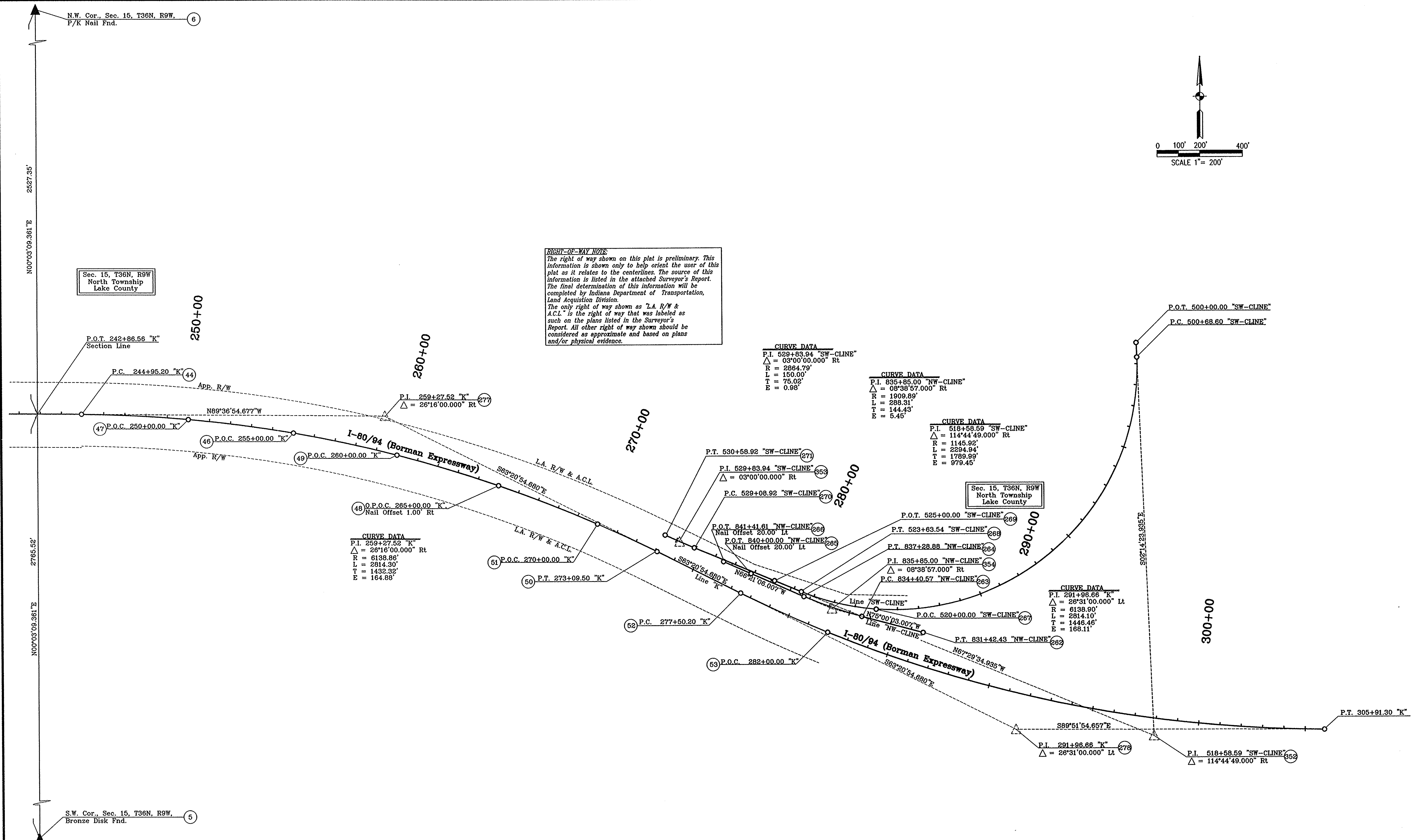
**INDIANA DEPARTMENT OF TRANSPORTATION**

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1" = 200'	
COUNTY	DESIGNATION
LAKE	9910600
SURVEY BOOK	PLAN SHEETS
	OF
CONTRACT	PROJECT
	IM-80-1



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**CURVE DATA**  
 P.I. 259+27.52 "K" (277)  
 $\Delta = 26^{\circ}16'00.000''$  Rt  
 R = 6138.86'  
 L = 2814.30'  
 T = 1432.32'  
 E = 164.88'

**CURVE DATA**  
 P.I. 529+83.94 "SW-CLINE"  
 $\Delta = 03^{\circ}00'00.000''$  Rt  
 R = 2864.79'  
 L = 150.00'  
 T = 75.02'  
 E = 0.95'

**CURVE DATA**  
 P.I. 835+85.00 "NW-CLINE"  
 $\Delta = 08^{\circ}38'57.000''$  Rt  
 R = 1909.89'  
 L = 288.31'  
 T = 144.43'  
 E = 5.45'

**CURVE DATA**  
 P.I. 518+58.59 "SW-CLINE"  
 $\Delta = 114^{\circ}44'49.000''$  Rt  
 R = 1145.92'  
 L = 2294.94'  
 T = 1789.99'  
 E = 979.45'

**CURVE DATA**  
 P.I. 291+96.66 "K"  
 $\Delta = 26^{\circ}31'00.000''$  Lt  
 R = 6138.90'  
 L = 2814.10'  
 T = 1448.46'  
 E = 168.11'

N.W. Cor., Sec. 15, T36N, R9W,  
 P/K Nail Fnd. (6)

Sec. 15, T36N, R9W  
 North Township  
 Lake County

Sec. 15, T36N, R9W  
 North Township  
 Lake County

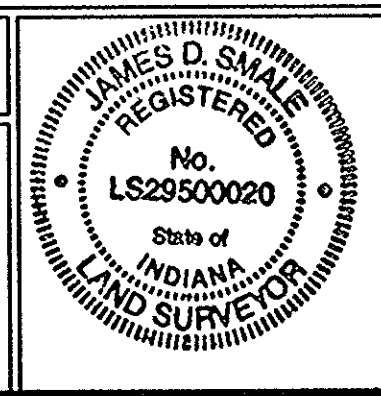
S.W. Cor., Sec. 15, T36N, R9W,  
 Bronze Disk Fnd. (5)

SURVEY STARTED		
11/07/01		
SURVEY COMPLETED		
01/10/03		
ROUTE PLAT SHEETS		
4	OF	9

Lake County Recorder  
 Instr. #2003051548 Bk. 010, Pg. 19  
 Date: 5/21/03

**SURVEYOR STATEMENT**

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



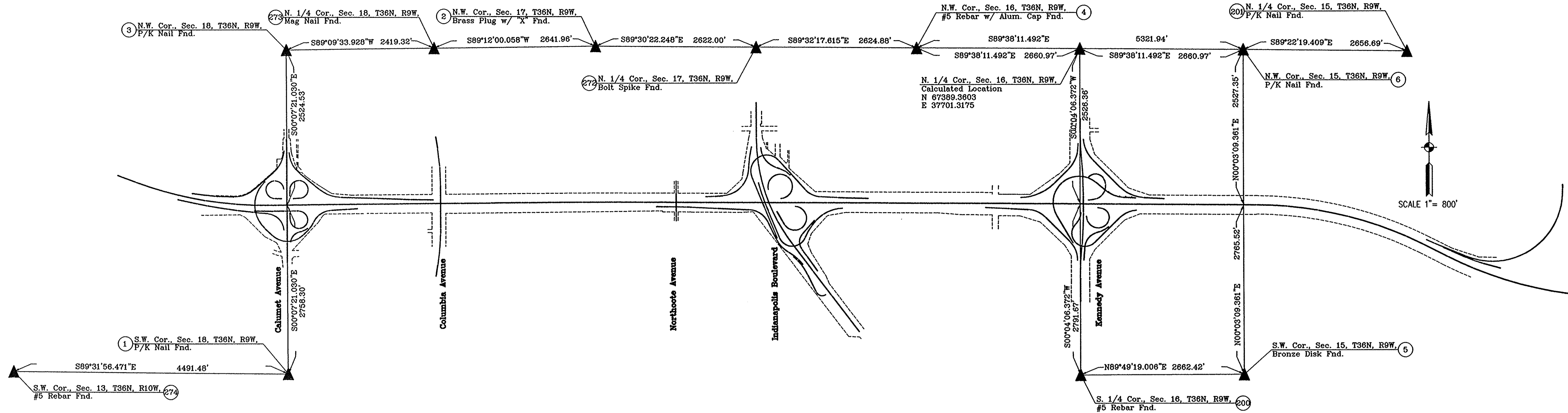
**USI CONSULTANTS, INC.**  
 8415 EAST 56TH STREET  
 INDIANAPOLIS, IN 46216  
 (317)544-4996

RECOMMENDED FOR APPROVAL  
 SIGNATURE: *James D. Smale* 5-19-03  
 JAMES D. SMALE, PLS DATE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
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COUNTY	DESIGNATION
LAKE	9910600
SURVEY BOOK	PLAN SHEETS
	OF
CONTRACT	PROJECT
	IM-80-1



**SURVEYOR'S REPORT**  
 ROUTE SURVEY - I-80 (BORMAN EXPRESSWAY)  
 LAKE COUNTY  
 PROJ. NO. IM-80-1  
 DES. NO. 9910600

**GENERAL:**

Monument reference ties are shown on the route survey plat. Should additional USPLS corners be needed where none were found, they should be reestablished and tied into this survey.

Field measurements for this survey were in accordance with the specifications outlined in 865 IAC 1-12. Measurements are shown to the nearest 0.01 feet. Coordinates are shown to the nearest 0.0001 feet and the bearings to the 0.001 seconds, not to indicate the precision of the work, but to allow for closure and adjustment by others if desired.

Located on I-80 (Borman Expressway) in sections 15, 16, 17 & 18, T36N, R9W and in Section 13, T36N, R10W, from the West side of Calumet Ave to the East side of SR. 912. The coordinates shown on the monuments are of a local coordinate system. The starting bearing at Station P.O.T. 110+00.00 Line "KK" being South 69 degrees 51 minutes 03.549 seconds East, based on grid north per GPS observations.

INDOT Project Numbers: UI-285(6) Dated 1947, UI-285(8) Dated 1951, UI-285(17) & UI-285(18) Dated 1954, MM-220-1(028) Dated 1992, IR-80-1(108)1 Dated 1990, IR-80-1(110)3 Dated 1989 & 1991, and IR-80-1(112)2 Dated 1989 & 1992 was used to determine the existing right of way along said I-80. As well as some physical features at the Calumet Blvd. Exchange due to lack of information available for this area. Any apparent property lines or corners, or subdivision are based on physical evidence or testimony. For example, a fence between two houses could be noted as an apparent property line. This is not a property retracement survey.

The alignments were determined from the following record plans. Project numbers: UI-285 (6) dated 1947, UI-285 (8) dated 1951, UI-285 (17) & UI-285 (18) dated 1954, MM-220-1 (028) dated 1992, IR-80-1 (109) 1 dated 1990, IR-80-1 (110) 3 dated 1989 & 1991, and IR-80-1 (112) 2 dated 1989 & 1992. Alignments were established from these plans and then rotated and translated to fit into existing control found on project. Stamped "X"s along the median wall along Borman Expressway were located and used as control to the north south position of the plan centerline. These "X"s are from unknown origin, but fit very well with even station intervals along the line. Rebar monuments in concrete were found along the centerline of Kennedy Avenue at the P.L.'s, P.C.'s, and P.T.'s at the point Kennedy crosses the Borman Expressway. These monuments checked within hundredths of the plan information. The Kennedy interchange was then established per plan holding these monuments. The east/west stationing for the Borman Expressway was established by holding the plan station at the intersection of Kennedy and the Borman. The interchange of Borman and Calumet Avenue, centerline monuments were found along Calumet Avenue. This reflected a check of 0.4' east/west and north/south from the original plan intersection stationing. The remaining alignments were then established per plan along the established Borman alignment.

There are no county regulated drains within the limits of this survey. The little Calumet river was formerly a lake county regulated drain. The county's drainage easement and the responsibility of administering the stream have been transferred to the following state agency:

The little Calumet river basin development commission  
 Dan Gardner, executive director  
 6100 Southport road  
 Portage, in 46368  
 Ph. (219) 783-6060

The uncertainty for monuments and for all section and quarter section corners used as a part of this survey are as follows:

Section Corners - See references - Estimated uncertainty of these points is +/- 1 foot.

Alignment Points - See references - Estimated uncertainty of these points is +/- 0.10 feet.

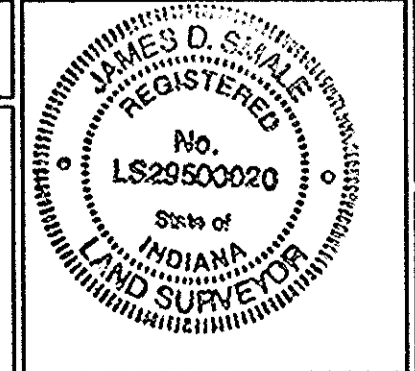
1 NORTH: 62094.8014 EAST: 24744.2355 Cut "X" in Strain Pole Base (Typ.) Broadmoor Ave. P.K. Nail Fnd. S.W. Cor. Sec. 18, T36N, R9W	2 NORTH: 67449.9940 EAST: 29793.7031 P.K. Nail Utl. Pole #62/197 White Oak Ave. "X" on Brass Rod Fnd. in 3" PVC 173rd St. Cut Cross N. End Sidewalk P.K. Nail Utl. Pole #71/216 N.W. Cor. Sec. 17, T36N, R9W	3 NORTH: 67377.6151 EAST: 24732.9399 Bolt on "Walgreen" Sign Top of Fire Hyd. N.E. Bolt "Amoco" Sign N.W. Bolt Signpost N.W. Cor. Sec. 18, T36N, R9W	4 NORTH: 67406.2409 EAST: 35040.4032 House #7250 173rd St. Wetler Blvd. "X" on Brass Rod Fnd. in 3" PVC Cut "X" on Curb N.W. Cor. Sec. 16, T36N, R9W	5 NORTH: 62079.6094 EAST: 40357.3727 P.K. Nail Utl. Pole #64/500 Cor. of Garage Fndn. 23.75' 18.07' 10.45' Cut Cross S.W. Cor. Drain Frame S.W. Cor. Sec. 15, T36N, R9W	6 NORTH: 67372.4797 EAST: 40362.2318 Top of Fire Hyd. 173rd St. P.K. Nail Fnd. Center of 3 Ref. Walls H & W in PWP #47/522 N.W. Cor. Sec. 15, T36N, R9W	7 NORTH: 64927.4243 EAST: 23401.6918 Mile Marker Sign 106.70' 6.95' Mog Nail Set in Barrier Wall P.O.T. 125+00.00 Line "KK"	8 NORTH: 64867.9794 EAST: 23998.0063 Mile Marker Sign 76.60' 6.44' Mog Nail Set in Barrier Wall P.O.C. 130+00.00 Line "KK"	9 NORTH: 64849.5625 EAST: 24455.9099 Mile Marker Sign 113.50' 6.82' Mog Nail Set in Barrier Wall EQU: P.T. 135+58.40, 0.50' Lt. "KK" = P.O.T. 83+82.90, 0.50' Lt. "X"	10 NORTH: 64851.0242 EAST: 24573.0008 Mile Marker Sign 230.60' 7.60' Mog Nail Set in Barrier Wall P.O.T. 85+00.00 Line "X"	11 NORTH: 64857.2652 EAST: 25072.9819 Mile Marker Sign 202.20' 6.55' Mog Nail Set in Barrier Wall P.O.T. 90+00.00, 0.50' Lt. Line "X"	12 NORTH: 64863.5062 EAST: 25572.9229 Mile Marker Sign Line "X" Mog Nail Set in Barrier Wall P.O.T. 95+00.00, 0.50' Lt. Line "X"	13 NORTH: 64869.7473 EAST: 26072.8840 Mile Marker Sign 155.50' 6.89' Mog Nail Set in Barrier Wall P.O.T. 100+00.00, 0.50' Lt. Line "X"	14 NORTH: 64875.9883 EAST: 26572.8450 Mile Marker Sign 131.90' 6.22' Mog Nail Set in Barrier Wall P.O.T. 105+00.00, 0.50' Lt. Line "X"	15 NORTH: 64882.2293 EAST: 27072.8060 Mile Marker Sign 110.50' 6.01' Mog Nail Set in Barrier Wall P.O.T. 110+00.00, 1.00' Rt. Line "X"	16 NORTH: 64888.4704 EAST: 27572.7671 Mile Marker Sign 87.70' 6.11' Mog Nail Set in Barrier Wall P.O.T. 115+00.00 Line "X"	17 NORTH: 64894.7114 EAST: 28072.7281 Mile Marker Sign 63.40' 6.65' Mog Nail Set in Barrier Wall P.O.T. 120+00.00, 0.50' Lt. Line "X"	18 NORTH: 64900.9524 EAST: 28572.6892 Mile Marker Sign 32.60' 6.20' Mog Nail Set in Barrier Wall P.O.T. 125+00.00, 0.50' Lt. Line "X"	19 NORTH: 64902.3912 EAST: 28687.9502 Mile Marker Sign 148.00' 5.82' Mog Nail Set in Barrier Wall P.C. 126+15.27 Line "X"	20 NORTH: 64906.5479 EAST: 29072.8576 Mile Marker Sign 11.70' 6.54' Mog Nail Set in Barrier Wall P.O.C. 130+00.00 Line "X"	21 NORTH: 64910.0208 EAST: 29572.8451 Mile Marker Sign 14.40' 6.23' Mog Nail Set in Barrier Wall P.O.C. 135+00.00, 0.50' Lt. Line "X"	22 NORTH: 64911.3129 EAST: 30072.8431 Mile Marker Sign 32.40' 6.58' Mog Nail Set in Barrier Wall P.O.C. 140+00.00, 0.50' Lt. Line "X"	23 NORTH: 64910.4244 EAST: 30572.8419 Mile Marker Sign 67.10' 6.04' Mog Nail Set in Barrier Wall P.O.C. 145+00.00, 0.50' Lt. Line "X"	24 NORTH: 64908.7304 EAST: 30889.7972 Mile Marker Sign 255.10' 6.89' Mog Nail Set in Barrier Wall EQU: O.P.O.T. 148+15.23 (O.C.), 0.50' Lt. "X" = O.P.O.T. 148+15.30 (MID), 0.50' Lt. "X"
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SURVEY STARTED	11/07/01
SURVEY COMPLETED	01/10/03
ROUTE PLAT SHEETS	5 OF 9

Lake County Recorder  
 Instr. #2003051548 Bk. 010, Pg. 19  
 Date: 5/21/03

**SURVEYOR STATEMENT**

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



**USI CONSULTANTS, INC.**  
 8415 EAST 56TH STREET  
 INDIANAPOLIS, IN 46216  
 (317)544-4996

RECOMMENDED FOR APPROVAL  
 SIGNATURE: *James D. Smale 5-19-03*  
 JAMES D. SMALE, PLS DATE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1" = 200'	
COUNTY	DESIGNATION
LAKE	9910600
SURVEY BOOK	PLAN SHEETS
	OF
CONTRACT	PROJECT
	IM-80-1

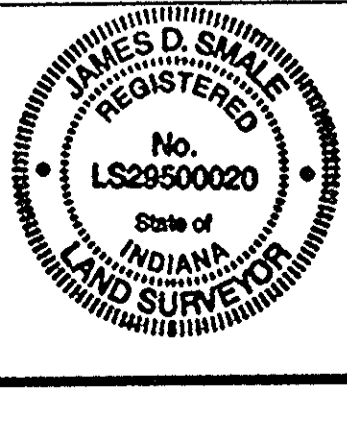


SURVEY STARTED	
11/07/01	
SURVEY COMPLETED	
01/10/03	
ROUTE PLAT SHEETS	
6	OF 9

Lake County Recorder  
Instr. #2003051548 Bk. 010, Pg. 19  
Date: 5/21/03

**SURVEYOR STATEMENT**

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 36, I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS; EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



**USI CONSULTANTS, INC.**  
8415 EAST 56TH STREET  
INDIANAPOLIS, IN 46216  
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RECOMMENDED FOR APPROVAL

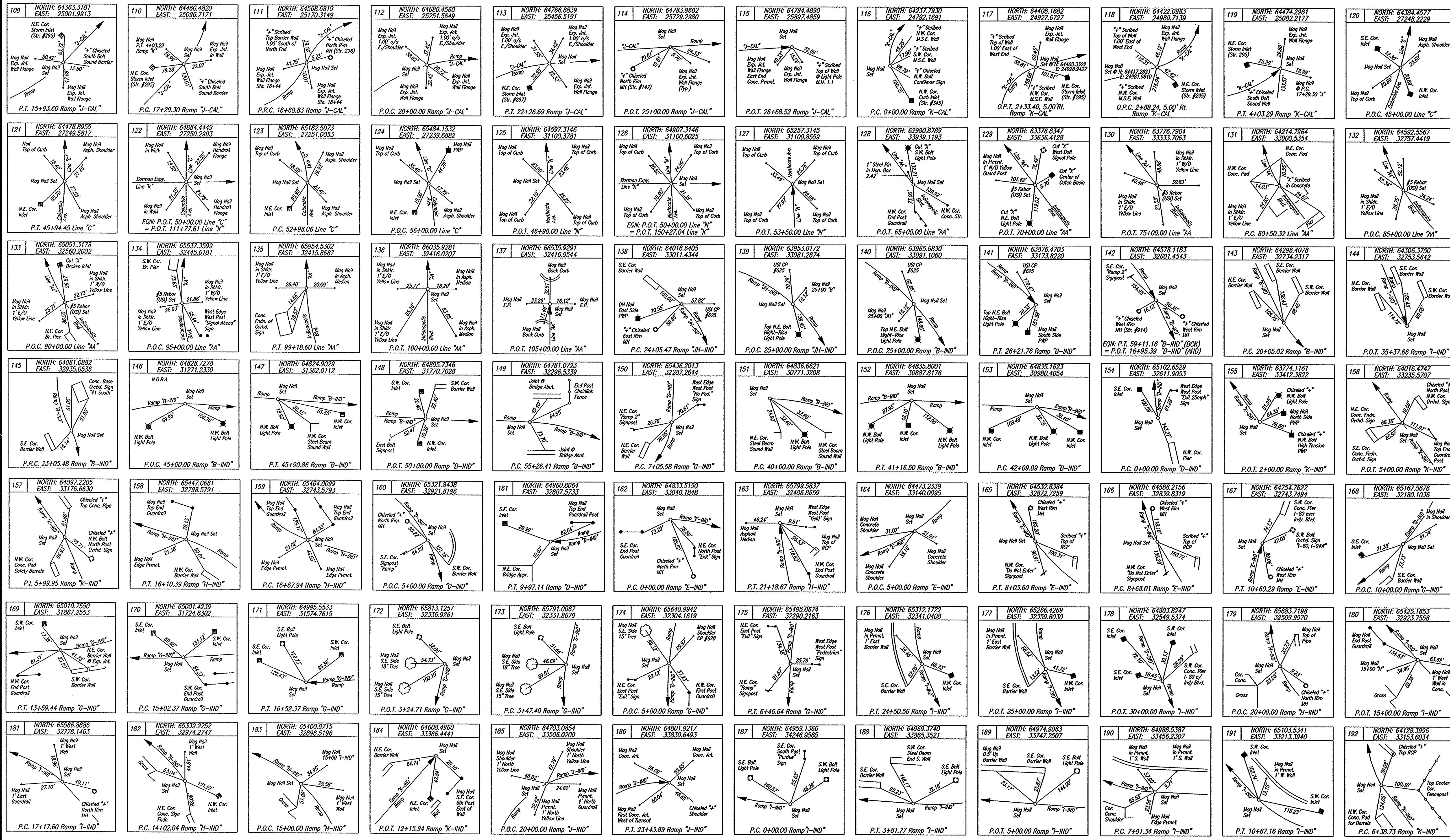
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DATE: JAMES D. SMALE, PLS

INDIANA  
DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	
1" = 200'	
BRIDGE FILE	
COUNTY	DESIGNATION
LAKE	9910600
SURVEY BOOK	
PLAN SHEETS	
OF	
CONTRACT	
PROJECT	
IM-80-1	



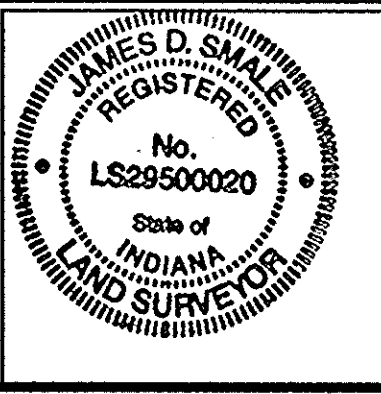


SURVEY STARTED	
11/07/01	
SURVEY COMPLETED	
01/10/03	
ROUTE PLAT SHEETS	
7	OF 9

Lake County Recorder  
Instr. #2003051548 Bk. 010, Pg. 19  
Date: 5/21/03

**SURVEYOR STATEMENT**

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS; EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



**USI CONSULTANTS, INC.**  
8415 EAST 56TH STREET  
INDIANAPOLIS, IN 46216  
(317)544-4996

RECOMMENDED FOR APPROVAL

SIGNATURE: *James D. Smale* 5-19-03  
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INDIANA  
DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1" = 200'	
COUNTY	DESIGNATION
LAKE	9910600
SURVEY BOOK	PLAN SHEETS
	OF
CONTRACT	PROJECT
	IM-80-1

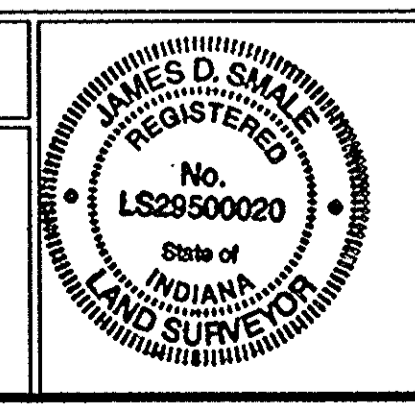


SURVEY STARTED	
11/07/01	
SURVEY COMPLETED	
01/10/03	
ROUTE PLAT SHEETS	
8	OF 9

Lake County Recorder  
Instr. #2003051548 Bk. 010, Pg. 19  
Date: 5/21/03

**SURVEYOR STATEMENT**

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



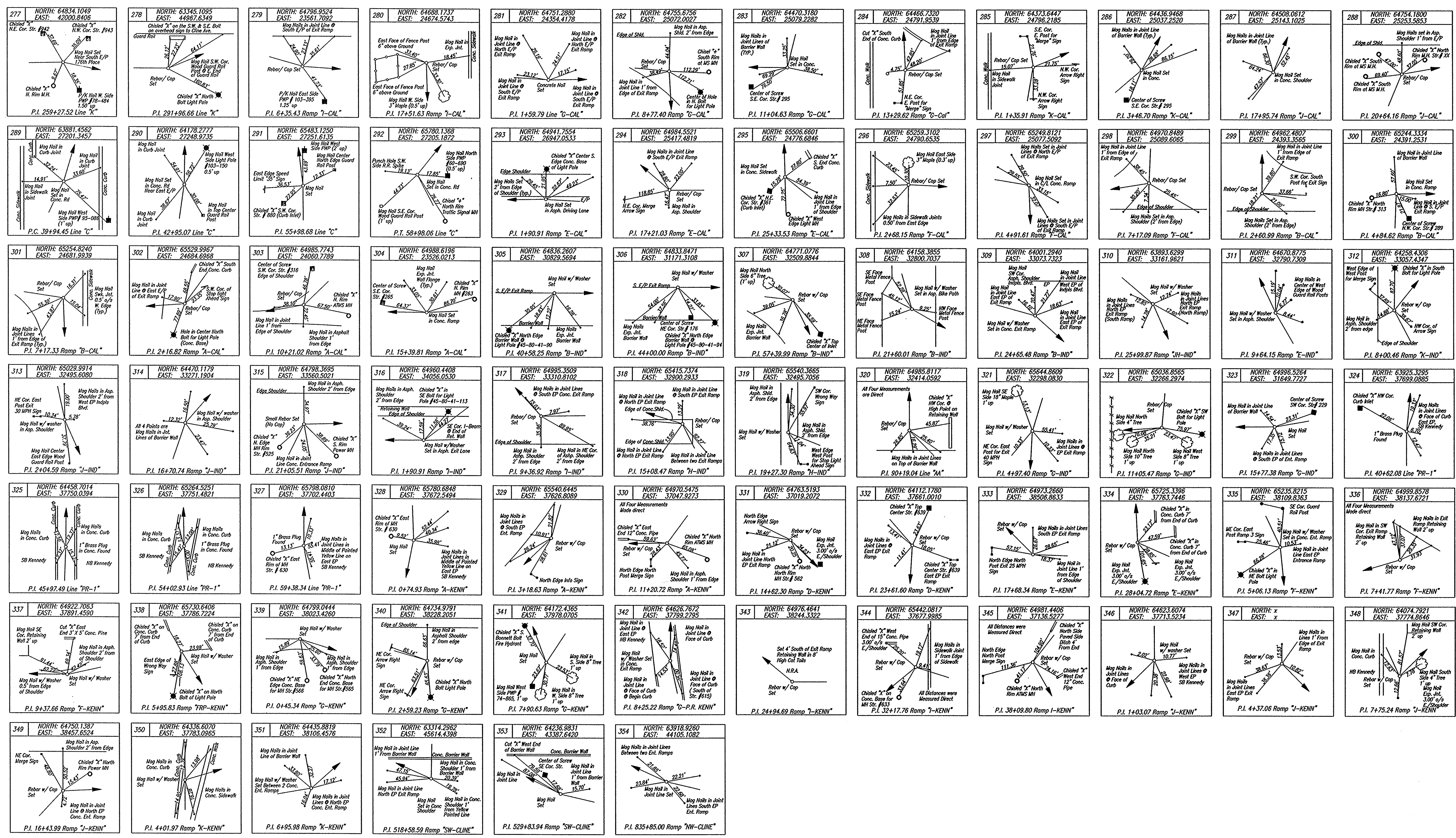
**USI CONSULTANTS, INC.**  
8415 EAST 56TH STREET  
INDIANAPOLIS, IN 46216  
(317)544-4996

RECOMMENDED FOR APPROVAL  
SIGNATURE: *James D. Smale* 5-19-03  
DATE: JAMES D. SMALE, PLS

INDIANA  
DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE		BRIDGE FILE	
1" = 200'			
COUNTY		DESIGNATION	
LAKE		9910600	
SURVEY BOOK		PLAN SHEETS	
		OF	
CONTRACT		PROJECT	
		IM-80-1	

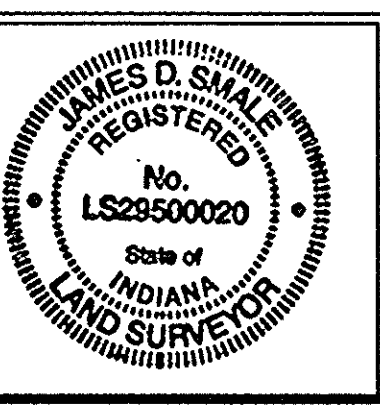


SURVEY STARTED	
11/07/01	
SURVEY COMPLETED	
01/10/03	
ROUTE PLAT SHEETS	
9	OF 9

Lake County Recorder  
Instr. #2003051548 Bk. 010, Pg. 19  
Date: 5/21/03

**SURVEY STATEMENT**

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 36S I.A.C. 1-1-12-20 THROUGHOUT 1-1-12-25 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWING REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



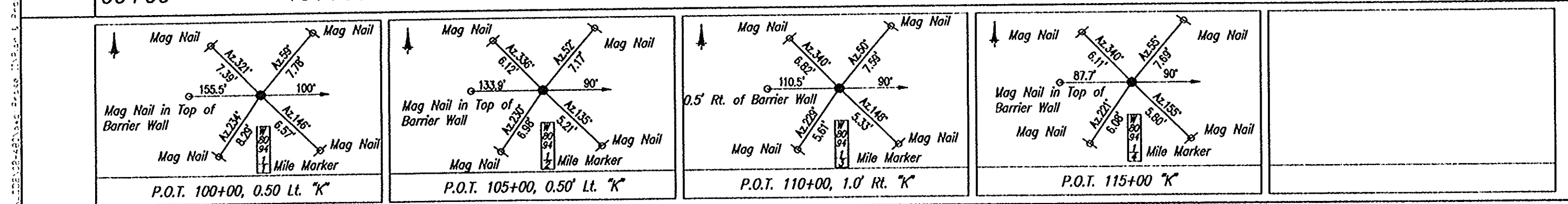
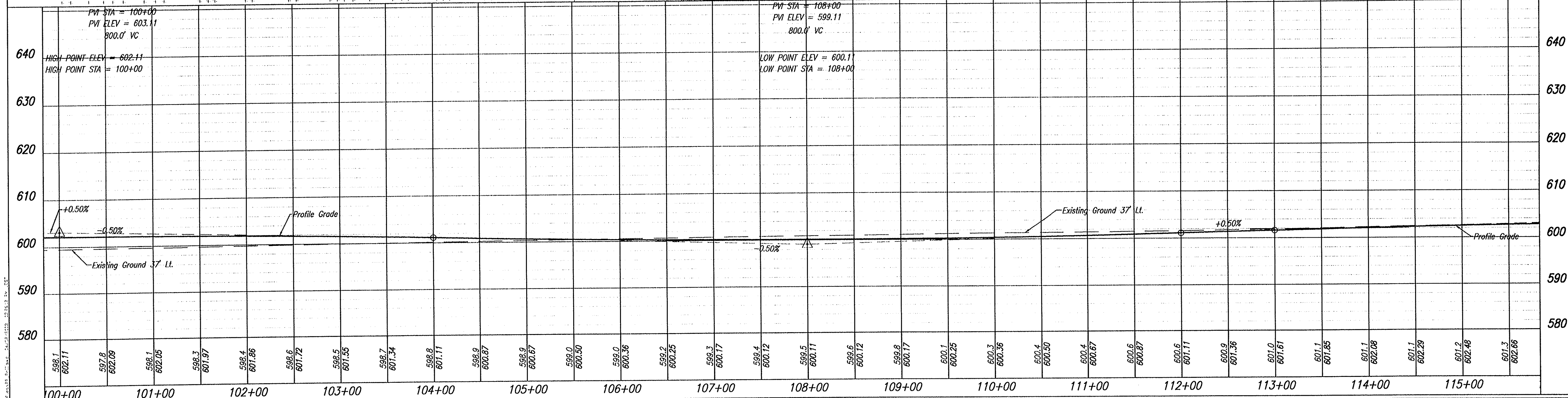
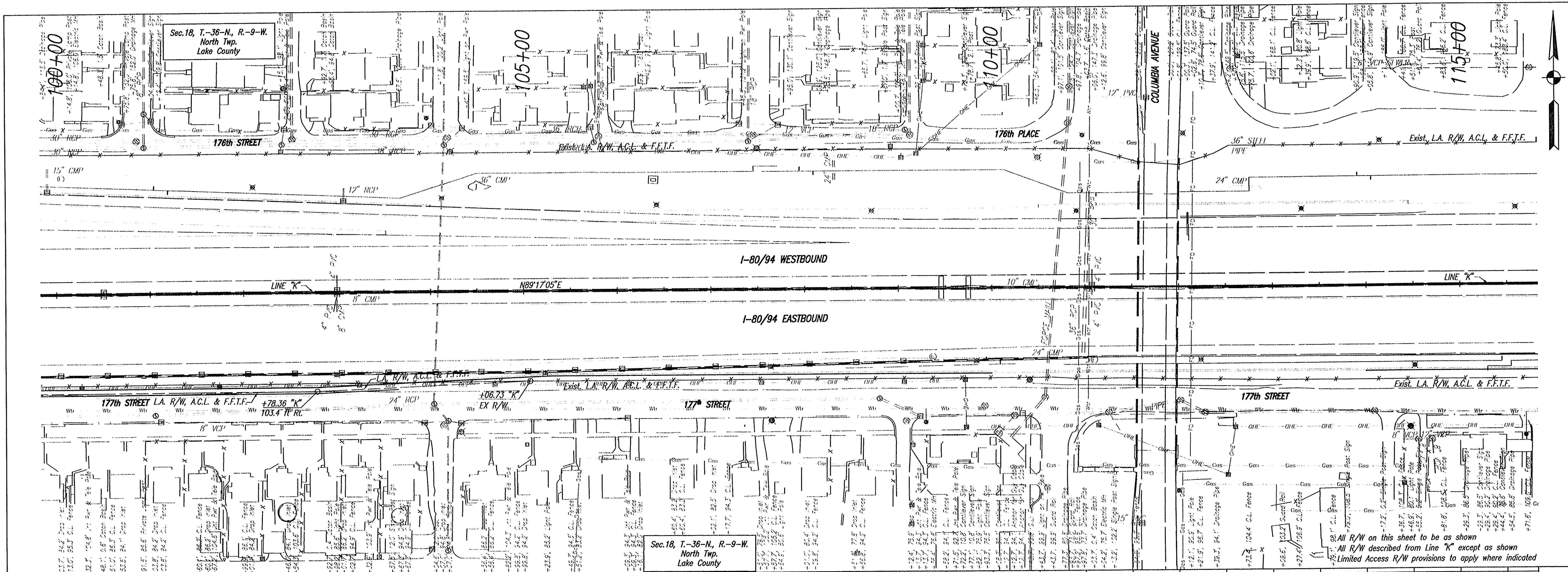
**USI CONSULTANTS, INC.**  
8415 EAST 56TH STREET  
INDIANAPOLIS, IN 46216  
(317)544-4996

RECOMMENDED FOR APPROVAL  
SIGNATURE: *James D. Smale* 5-19-03  
DATE: JAMES D. SMALE, PLS

INDIANA  
DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	
1" = 200'	
BRIDGE FILE	
COUNTY	
LAKE	
DESIGNATION	
9910600	
SURVEY BOOK	
PLAN SHEETS	
OF	
CONTRACT	
PROJECT	
IM-80-1	



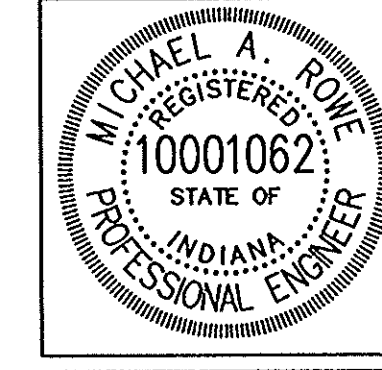
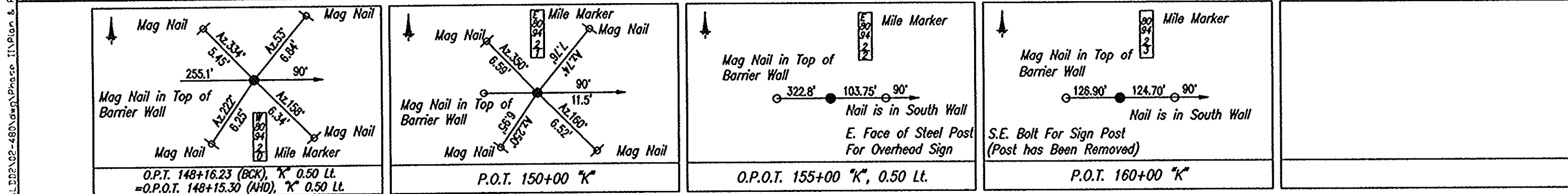
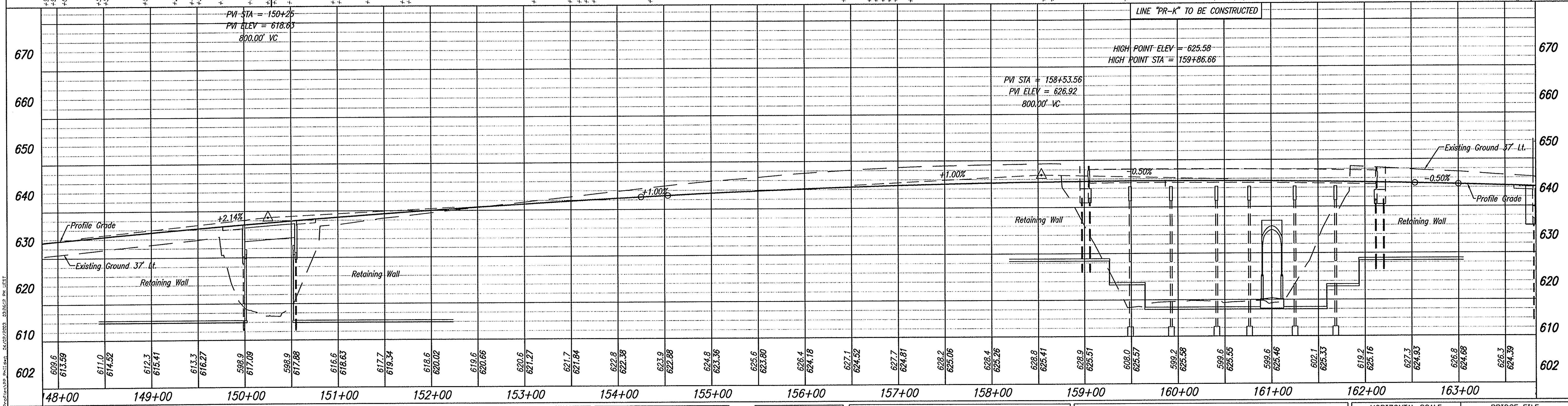
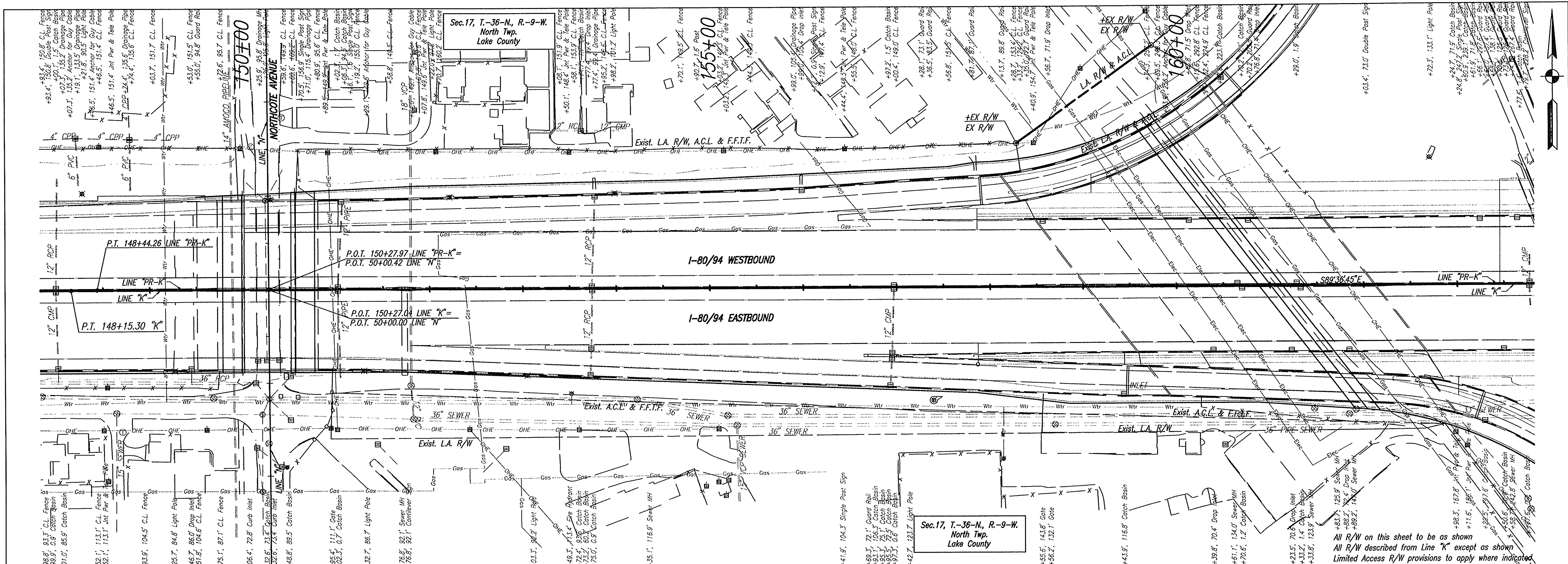
**MICHAEL A. ROWE**  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF INDIANA  
10001062

RECOMMENDED FOR APPROVAL: \_\_\_\_\_  
DESIGNED: BWC      DRAWN: DJZ  
CHECKED: MAR      CHECKED: ARE

**INDIANA DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE LINE "K"**  
Sta. 99+83 to Sta. 115+83

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 9910600
SURVEY BOOK	SHEETS 3 of 11
CONTRACT R-26991	PROJECT IM-80-1(158)



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: BWC	DRAWN: DJZ	
CHECKED: MAR	CHECKED: ARE	

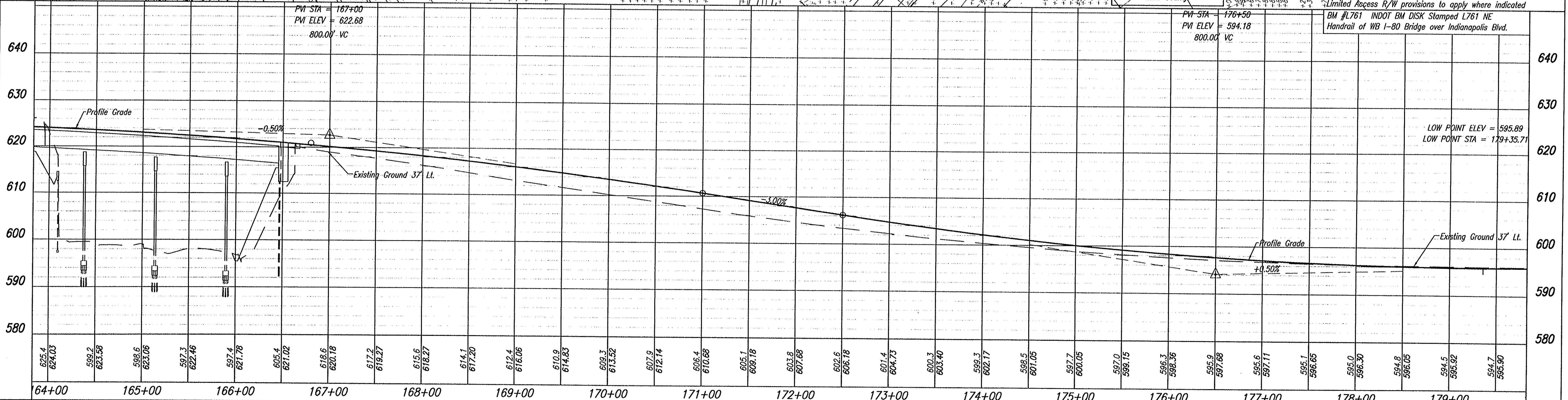
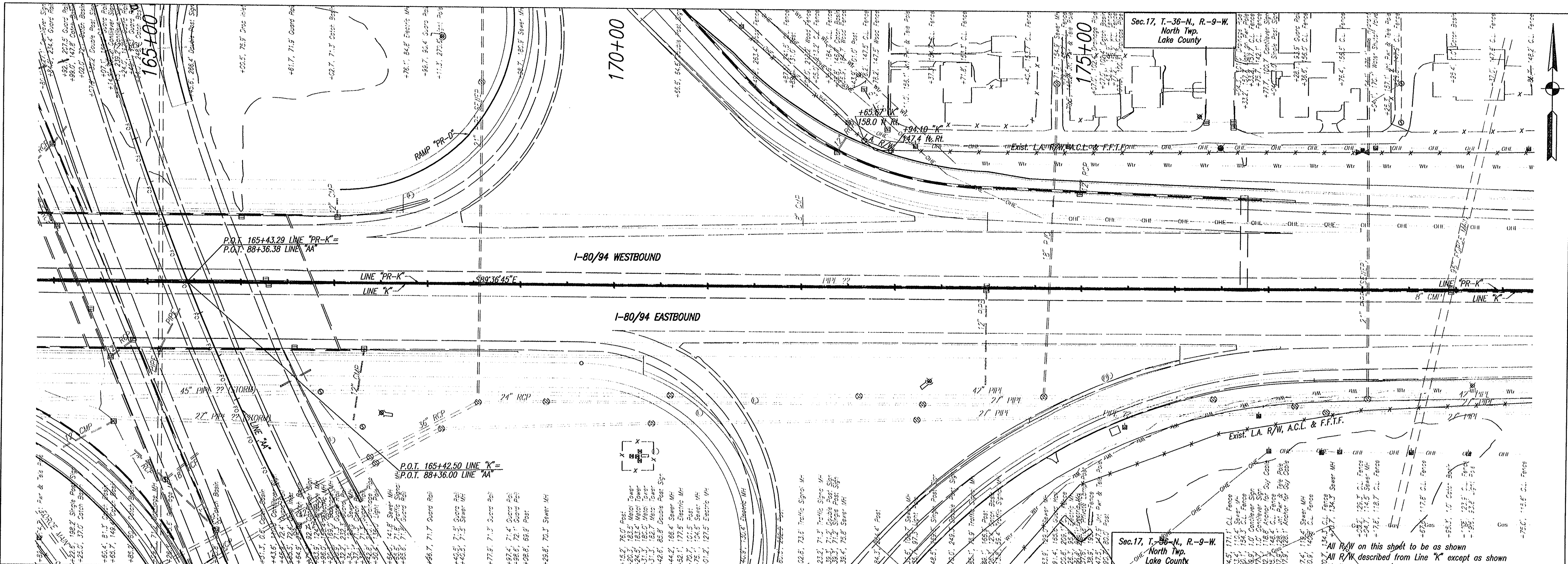
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE LINE "PR-K"**  
**Sta. 147+83 to Sta. 163+83**

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 9910600
SURVEY BOOK	SHEETS 4 of 11
CONTRACT R-26991	PROJECT IM-80-1(158)

Sec. 17, T.-36-N., R.-9-W.  
North Twp.  
Lake County

Sec. 17, T.-36-N., R.-9-W.  
North Twp.  
Lake County



<p>P.O.I. 165+00 K</p>	<p>P.O.I. 170+00 K</p>	<p>P.O.I. 175+00 K</p>		RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
				DESIGNED: BWC	DRAWN: DJZ	
CHECKED: MAR	CHECKED: ARE		<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>  <b>PLAN &amp; PROFILE LINE "PR-K"</b> <b>Sta. 163+83 to Sta. 179+83</b>			
HORIZONTAL SCALE 1" = 50' VERTICAL SCALE 1" = 10'		BRIDGE FILE DESIGNATION 9910600		SURVEY BOOK SHEETS 5 of 11 CONTRACT R-26991 PROJECT IM-80-1(158)		

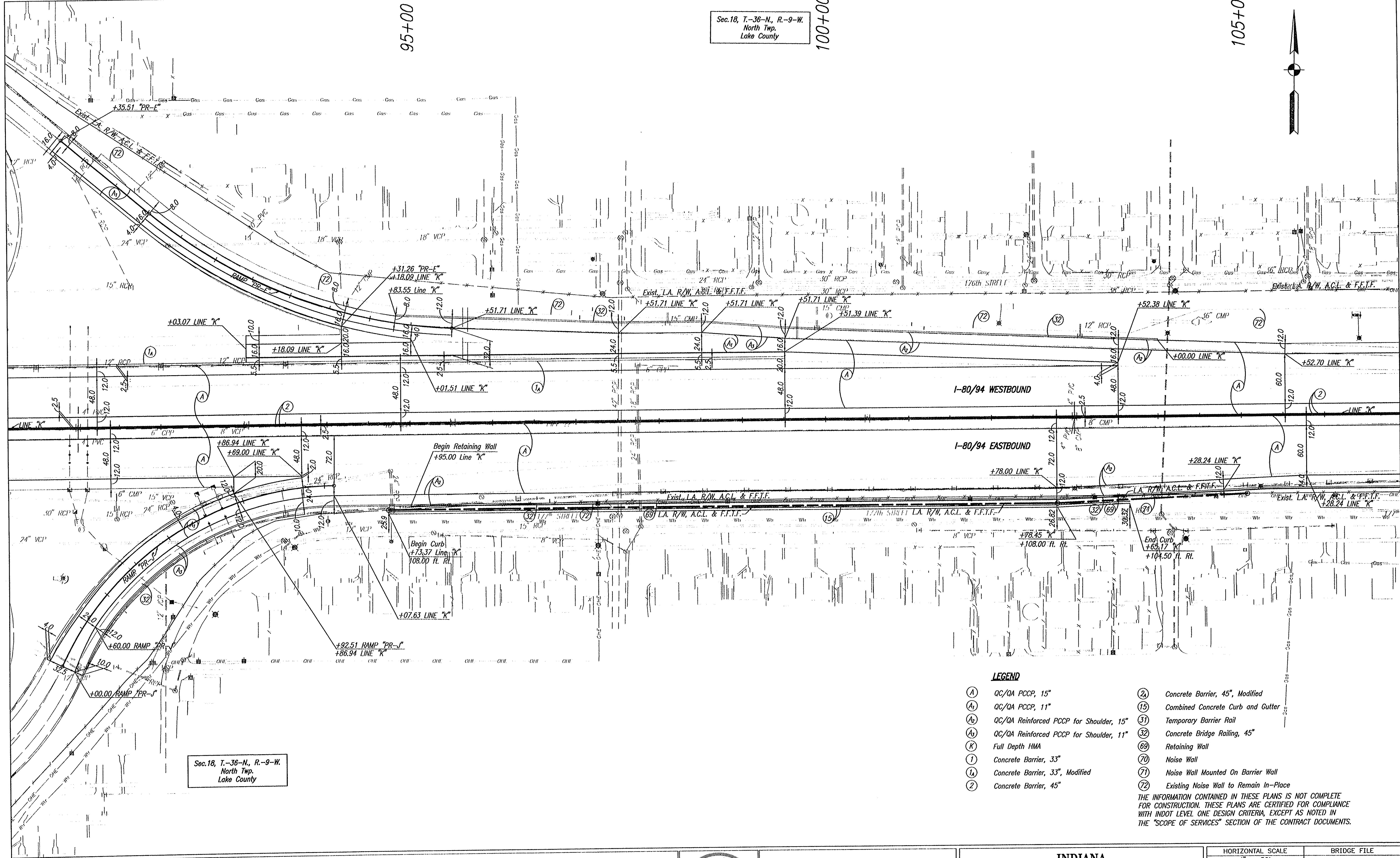
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Sec. 18, T.-36-N., R.-9-W.  
North Twp.  
Lake County

95+00

100+00

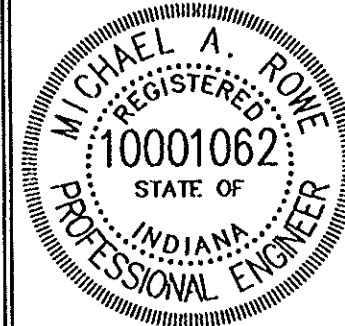
105+00



Sec. 18, T.-36-N., R.-9-W.  
North Twp.  
Lake County

- LEGEND**
- (A) QC/QA PCCP, 15"
  - (A<sub>1</sub>) QC/QA PCCP, 11"
  - (A<sub>2</sub>) QC/QA Reinforced PCCP for Shoulder, 15"
  - (A<sub>3</sub>) QC/QA Reinforced PCCP for Shoulder, 11"
  - (K) Full Depth HMA
  - (1) Concrete Barrier, 33"
  - (1<sub>A</sub>) Concrete Barrier, 33", Modified
  - (2) Concrete Barrier, 45"
  - (2<sub>A</sub>) Concrete Barrier, 45", Modified
  - (15) Combined Concrete Curb and Gutter
  - (31) Temporary Barrier Rail
  - (32) Concrete Bridge Railing, 45"
  - (69) Retaining Wall
  - (70) Noise Wall
  - (71) Noise Wall Mounted On Barrier Wall
  - (72) Existing Noise Wall to Remain In-Place

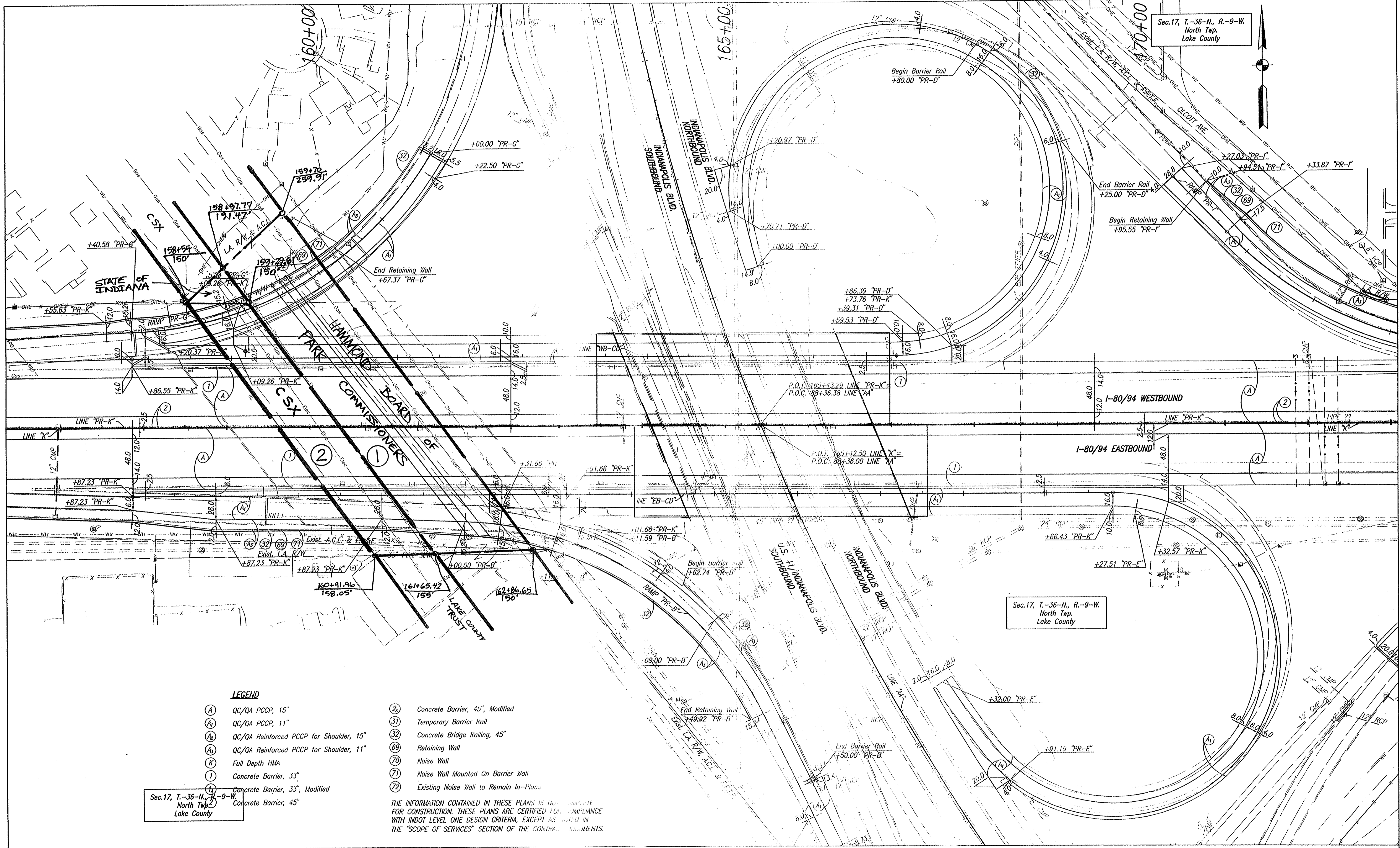
THE INFORMATION CONTAINED IN THESE PLANS IS NOT COMPLETE FOR CONSTRUCTION. THESE PLANS ARE CERTIFIED FOR COMPLIANCE WITH INDOT LEVEL ONE DESIGN CRITERIA, EXCEPT AS NOTED IN THE "SCOPE OF SERVICES" SECTION OF THE CONTRACT DOCUMENTS.



RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
DESIGNED: BWC DRAWN: DJZ  
CHECKED: MAR CHECKED: ARE

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**CONSTRUCTION DETAIL**  
**90+50.00 TO 106+50.00 "K"**

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 9910600
SURVEY BOOK	SHEETS 6 of 11
CONTRACT R-26991	PROJECT IM-80-1(158)

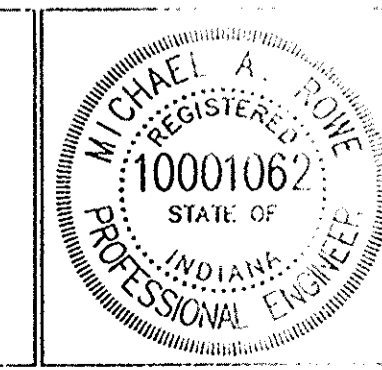


Sec. 17, T.-36-N., R.-9-W.  
North Twp.  
Lake County

**LEGEND**

- (A) QC/QA PCCP, 15"
- (A<sub>1</sub>) QC/QA PCCP, 11"
- (A<sub>2</sub>) QC/QA Reinforced PCCP for Shoulder, 15"
- (A<sub>3</sub>) QC/QA Reinforced PCCP for Shoulder, 11"
- (K) Full Depth HMA
- (I) Concrete Barrier, 33"
- (I<sub>1</sub>) Concrete Barrier, 33", Modified
- (I<sub>2</sub>) Concrete Barrier, 45"
- (2) Concrete Barrier, 45", Modified
- (31) Temporary Barrier Rail
- (32) Concrete Bridge Railing, 45"
- (69) Retaining Wall
- (70) Noise Wall
- (71) Noise Wall Mounted On Barrier Wall
- (72) Existing Noise Wall to Remain In-Place

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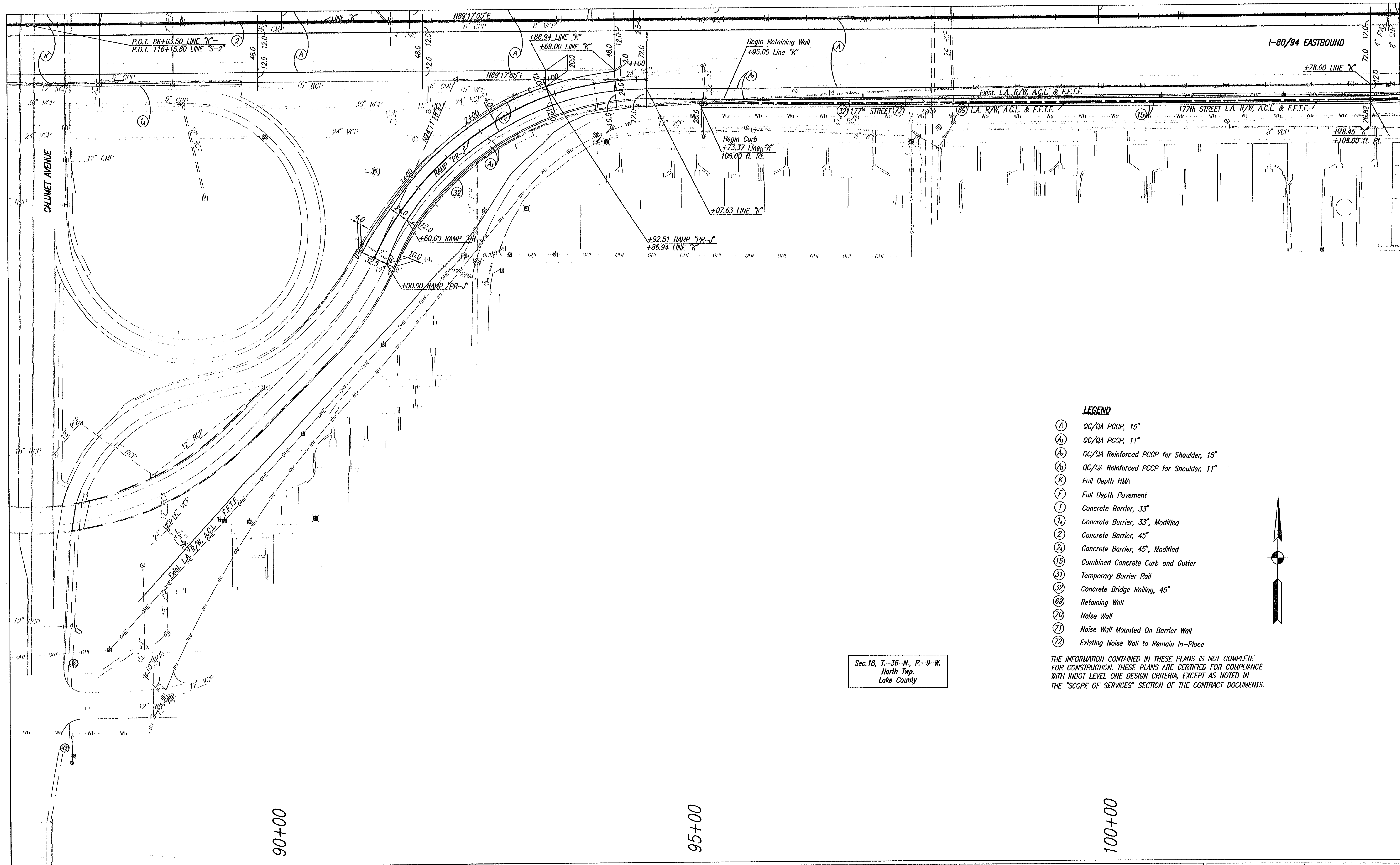


DESIGNED BY: [ ]  
 CHECKED BY: [ ]  
 DRAWN: DJZ  
 CHECKED: ARE  
 DATE: [ ]

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
**CONSTRUCTION DETAIL**  
**156+50.00 TO 173+00.00 "PR-K"**

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 9910600
SURVEY BOOK	SHEETS
CONTRACT R-26991	7 of 11 PROJECT IM-80-1(158)

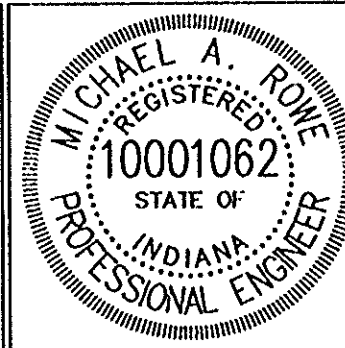




Sec. 18, T.-36-N., R.-9-W.  
North Twp.  
Lake County

- LEGEND**
- (A) QC/QA PCCP, 15"
  - (A<sub>1</sub>) QC/QA PCCP, 11"
  - (A<sub>2</sub>) QC/QA Reinforced PCCP for Shoulder, 15"
  - (A<sub>3</sub>) QC/QA Reinforced PCCP for Shoulder, 11"
  - (K) Full Depth HMA
  - (F) Full Depth Pavement
  - (1) Concrete Barrier, 33"
  - (1A) Concrete Barrier, 33", Modified
  - (2) Concrete Barrier, 45"
  - (2A) Concrete Barrier, 45", Modified
  - (15) Combined Concrete Curb and Gutter
  - (31) Temporary Barrier Rail
  - (32) Concrete Bridge Railing, 45"
  - (69) Retaining Wall
  - (70) Noise Wall
  - (71) Noise Wall Mounted On Barrier Wall
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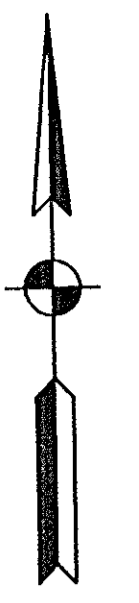
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BWC	DRAWN: DJZ	
CHECKED: MAR	CHECKED: ARE	

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**INTERCHANGE CONSTRUCTION DETAIL**  
**S.E. QUAD. BORMAN & CALUMET**

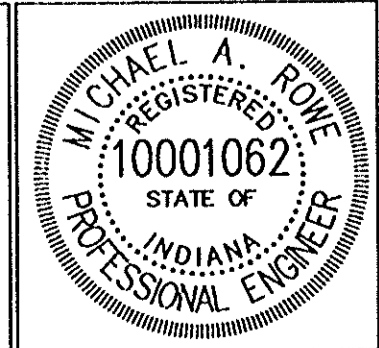
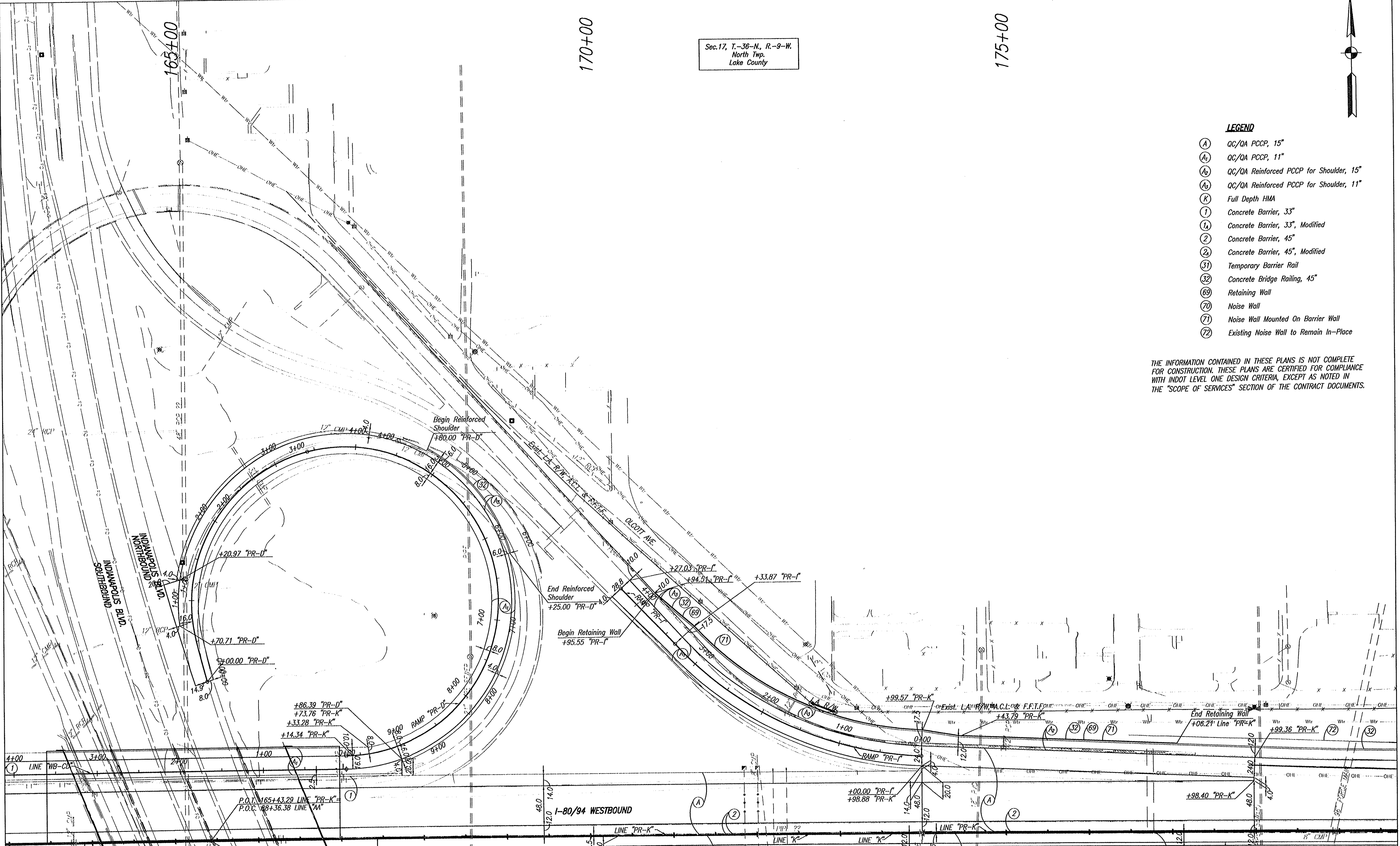
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 9910600
SURVEY BOOK	

Sec. 17, T.-36-N., R.-9-W.  
North Twp.  
Lake County



- LEGEND**
- (A) QC/QA PCCP, 15"
  - (A<sub>1</sub>) QC/QA PCCP, 11"
  - (A<sub>2</sub>) QC/QA Reinforced PCCP for Shoulder, 15"
  - (A<sub>3</sub>) QC/QA Reinforced PCCP for Shoulder, 11"
  - (K) Full Depth HMA
  - (1) Concrete Barrier, 33"
  - (1A) Concrete Barrier, 33", Modified
  - (2) Concrete Barrier, 45"
  - (2A) Concrete Barrier, 45", Modified
  - (31) Temporary Barrier Rail
  - (32) Concrete Bridge Railing, 45"
  - (69) Retaining Wall
  - (70) Noise Wall
  - (71) Noise Wall Mounted On Barrier Wall
  - (72) Existing Noise Wall to Remain In-Place

THE INFORMATION CONTAINED IN THESE PLANS IS NOT COMPLETE FOR CONSTRUCTION. THESE PLANS ARE CERTIFIED FOR COMPLIANCE WITH INDOT LEVEL ONE DESIGN CRITERIA, EXCEPT AS NOTED IN THE "SCOPE OF SERVICES" SECTION OF THE CONTRACT DOCUMENTS.

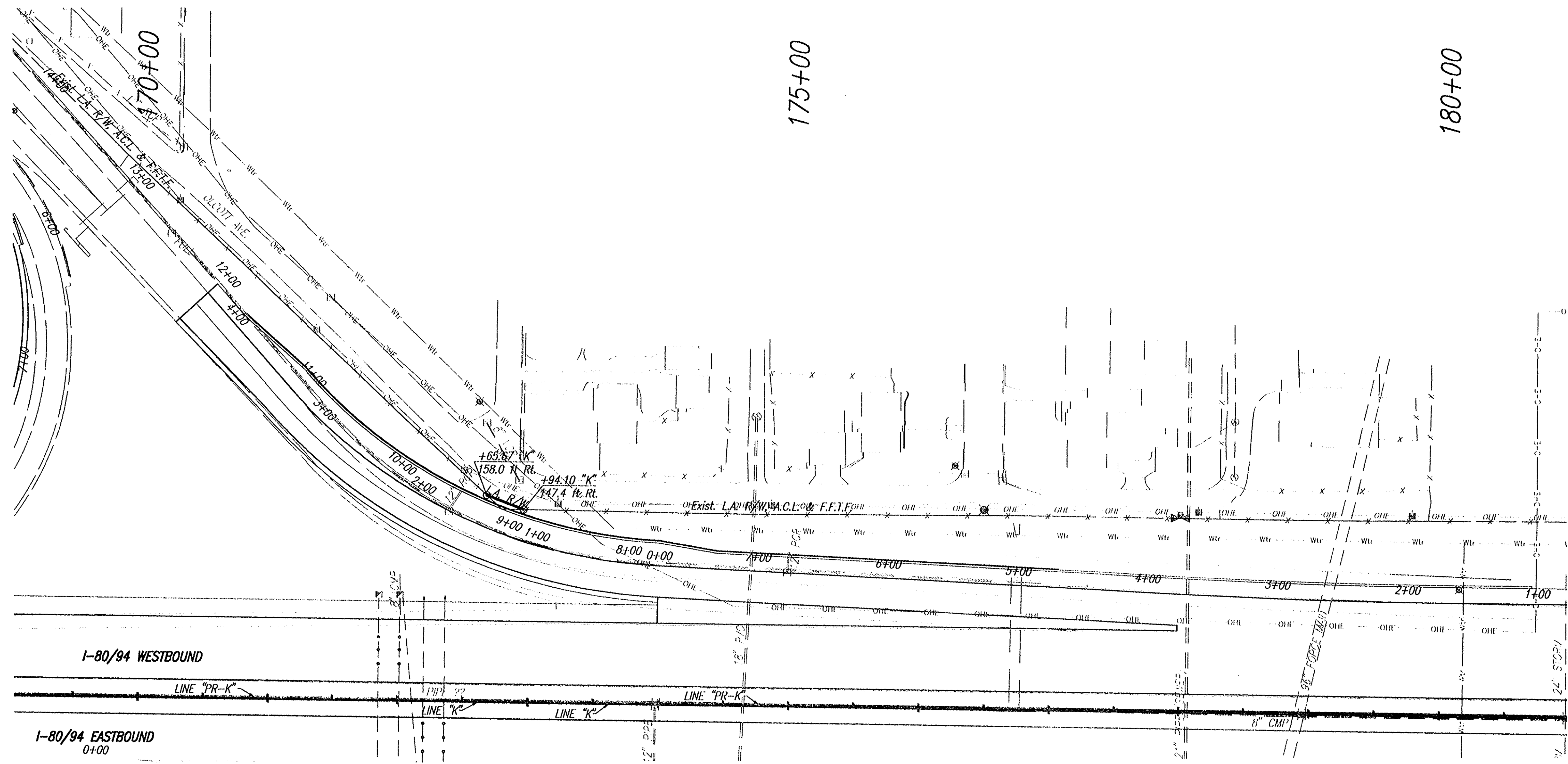


RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
DESIGN ENGINEER  
DESIGNED: BWC DRAWN: DJZ  
CHECKED: MAR CHECKED: ARE

INDIANA  
DEPARTMENT OF TRANSPORTATION  
INTERCHANGE CONSTRUCTION DETAIL  
N.E. QUAD. BORMAN & INDIANAPOLIS

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 9910600
SURVEY BOOK	SHEETS 9 of 11
CONTRACT R-26991	PROJECT IM-80-1(158)

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175+00

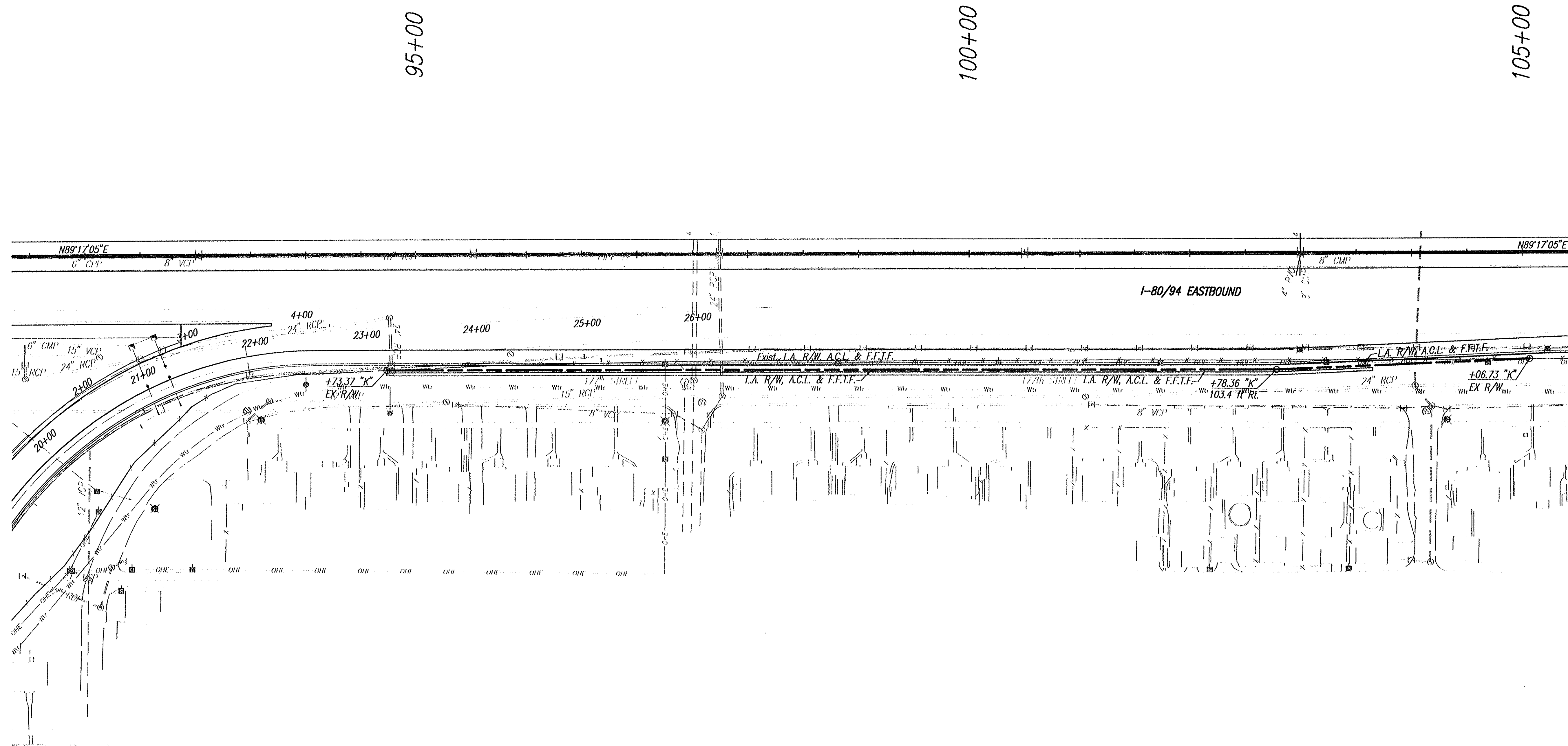
180+00

RECOMMENDED FOR APPROVAL	
DESIGNED: BWC	DRAWN: BDF
CHECKED: MAR	CHECKED: ARE

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
**RIGHT-OF-WAY DETAIL**  
**STA. 170+00 to STA. 180+00 "K"**

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 9910600
SURVEY BOOK	SHEETS 10 of 11
CONTRACT R-26991	PROJECT IM-80-1(158)

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RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
DESIGNED: BWC	DRAWN: BDF		1" = 50'	
CHECKED: MAR	CHECKED: ARE	RIGHT-OF-WAY DETAIL STA. 92+00 to STA. 105+00 Line "K"	VERTICAL SCALE	DESIGNATION
			N/A	9910600
			SURVEY BOOK	SHEETS
			CONTRACT	11 of 11
			R-26991	PROJECT
				IM-80-1(158)