

<b>PROJECT</b> NH-N881 (008)	<b>DESIGNATION</b> 0014210
<b>CONTRACT</b> 152-45-02730	<b>BRIDGE FILE</b> 152-45-02730

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
152-45-02730	POST - TENSIONED CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BULB TEE BEAM BRIDGE	3 SPANS: 144'-0", 183'-0", 144'-0" SKEW: 15° RT.	CSX & INDIANA HARBOR BELT RAILROAD	140+15.50 "PR-A"
SUBJECT				
1	INDEX AND TITLE SHEET			
2-3	TYPICAL SECTIONS			
4-5	PLAT NO. I			
6-8	LOCATION CONTROL ROUTE SURVEY PLAN			
9	DETOUR PLAN			
10-12	ROAD PLAN AND PROFILE LINE "PR-A"			
13-14	ROAD PLAN AND PROFILE LINE "AC-I"			
15-21	CONSTRUCTION DETAILS			
22	LAYOUT			
23	GENERAL PLAN			
24	BRIDGE SUMMARY			
25-27	STRUCTURE DATA TABLE			

INDIANA  
DEPARTMENT OF  
TRANSPORTATION

R/W CODE: 4520

TRAFFIC DATA		STATE ROAD 152	
A.A.D.T.	2005	25,110	V.P.D.
A.A.D.T.	2005	29,850	V.P.D.
D.H.V.	2005	4,480	V.P.H.
DIRECTIONAL DISTRIBUTION		50 %	
TRUCKS		5 % D.H.V.	
MAINLINE ESAL'S			
DESIGN DATA			
DESIGN SPEED		35 M.P.H.	
PROJECT DESIGN CRITERIA		RECONSTRUCTION (Non-Freeway)	
FUNCTIONAL CLASSIFICATION		PRINCIPAL ARTERIAL	
RURAL/URBAN		URBAN (BUILT-UP)	
TERRAIN		LEVEL	
ACCESS CONTROL		PARTIAL	

# RIGHT OF WAY PLANS

PROJECT NO. ~~NH-N881 (008)~~ P.E.

PROJECT NO. NH-N881 (008) R/W

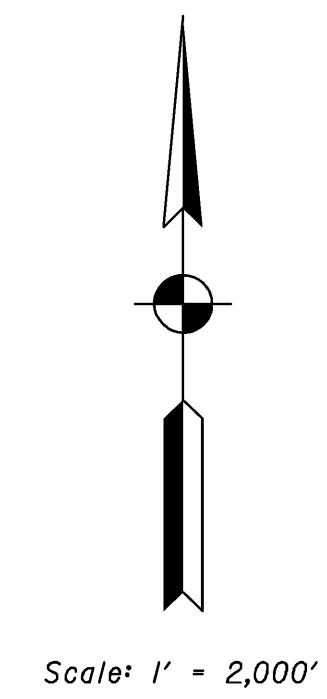
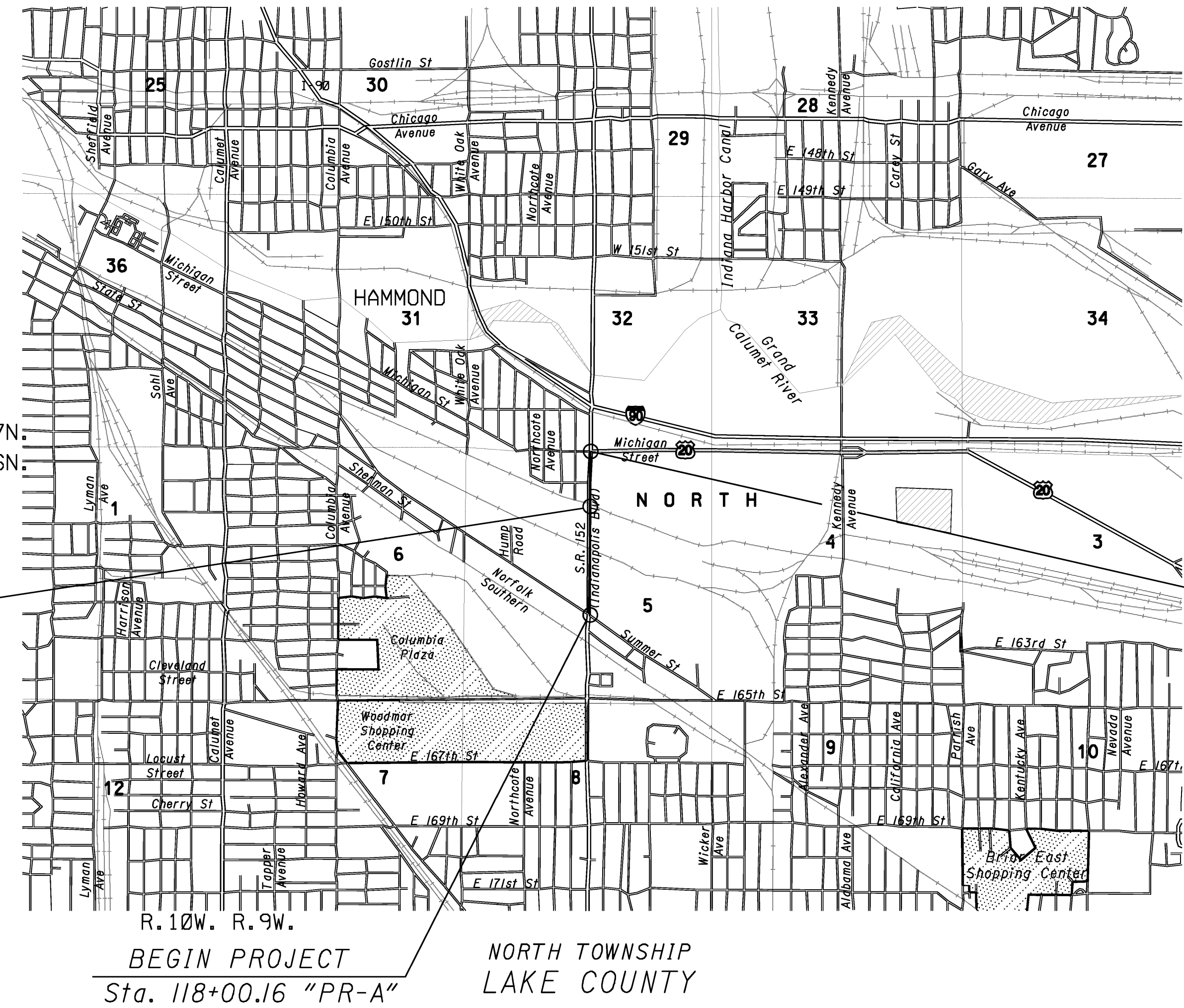
PROJECT NO. ~~NH-N881 (008)~~ CONST.

This bridge replacement is on State Road 152 over CSX & IHB Railroads located approximately 0.4 miles north of Summer Street in Section 5, T-36-N, R-9-W, North Township, Lake County, Indiana.  
RP 2-24

RIGHT OF WAY INDEX	
1	INDEX AND TITLE SHEET
2-4	LOCATION CONTROL ROUTE SURVEY PLAT
5-6	PLAT NO. I
7-8	TYPICAL SECTIONS
9-II	ROAD PLAN AND PROFILE LINE "PR-A"
12-13	ROAD PLAN AND PROFILE LINE "AC-I"
14-20	CONSTRUCTION DETAILS
21	LAYOUT
22	GENERAL PLAN
23	BRIDGE SUMMARY



BRIDGE LENGTH :	0.090 Mile
ROADWAY LENGTH :	0.555 Mile
TOTAL LENGTH :	0.645 Mile
MAX. GRADE :	-4.75 %



BRIDGE NO. 152-45-02730

END PROJECT  
Sta. 152+05.11 "PR-A"

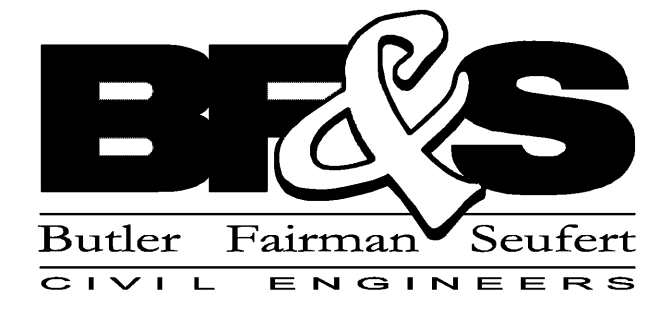
BEGIN PROJECT  
Sta. 118+00.16 "PR-A"

### GENERAL NOTES

- \*\* All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded, except where sodding is specified.
- The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
- The paper relocation will be cross-sectioned by the engineer before construction.
- Existing asphalt pavement located outside construction limits, between Sta. \_\_\_\_\_ and Sta. \_\_\_\_\_, shall be removed or corrected.
- The quantity of peat excavation shown on the plans has been estimated on the basis of theoretical cross sections by using treatment of existing fills, in treatment by removal, or treatment by replacement, where each treatment applies.
- All limited access right-of-way (L.A. R/W) is to be fenced with chain link type fence (CLTF) or farm field type fence (FFTF) where specified in the plans.

\*\* REPRESENTS GENERAL NOTES REQUIRED

R/W ENGINEERING PLANS PREPARED BY:



8450 Westfield Boulevard, Suite 300  
Indianapolis, Indiana 46240-8302  
Telephone: 317-713-4615  
Fax: 317-713-4616  
E-Mail: bfs@bfsengr.com



**AMERICAN CONSULTING, INC.**  
ARCHITECTS  
CONSULTANTS  
ENGINEERS  
7260 SHADELAND STATION  
INDIANAPOLIS, IN 46256-3957  
(317) 547-5580 FAX: (317) 543-0270  
Copyright (C) 1966-2006 by American Consulting, Inc.

APPROVED:	CHIEF, DIVISION OF LAND ACQUISITION	DATE
RECOMMENDED FOR APPROVAL:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2011  
TO BE USED WITH THESE PLANS

BRIDGE FILE		152-45-02730
DESIGNATION NO.		0014210
SHEETS		
		1 of 23
CONTRACT	PROJECT NO.	
	NH-N881 (008)	

R:\1512\0615\ProjDevelopment\ROW\RMENG\CalculationDrawings\IN2003.0534.2.RW.01.dwg    Craig Swearengen    Plot: 2/22/2011 10:24 AM    Save: 2/9/2011 10:00 AM

1:3

2011-004886

STATE OF INDIANA  
LAKE COUNTY  
FILED FOR RECORD

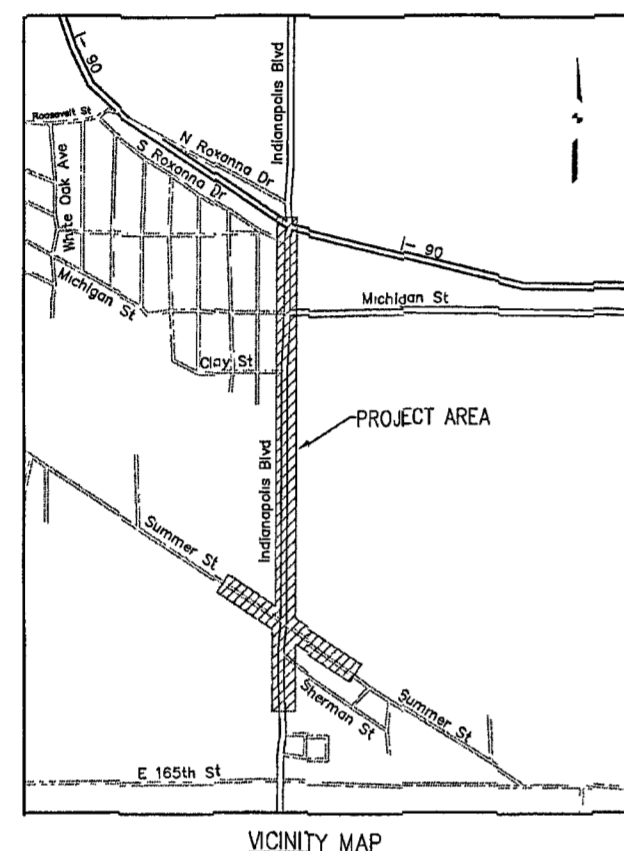
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22/18

2011 004886

2011 JAN 25 AM 10 33

200012  
12



- 5 Grant of Public Right-of-way Deed Book 480, Page 358
- 6 The City of Hammond, Indiana Instr No 779301

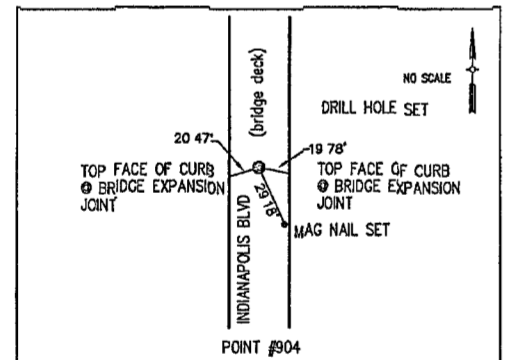
Section 5, T-36-N, R-9-W  
North Township  
Lake County, IN

Line "S" is the centerline of Summer Street right-of-way and was established as a best fit of found monumentation as shown hereon

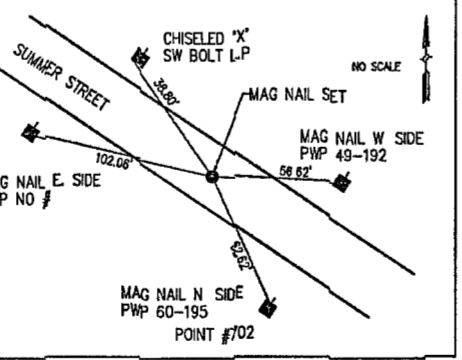
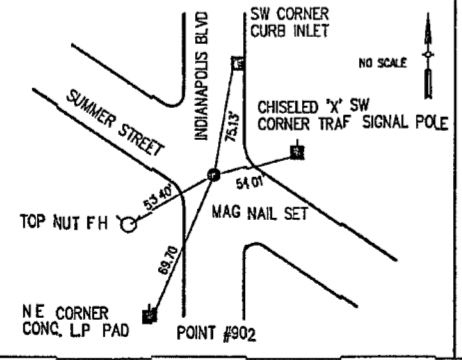
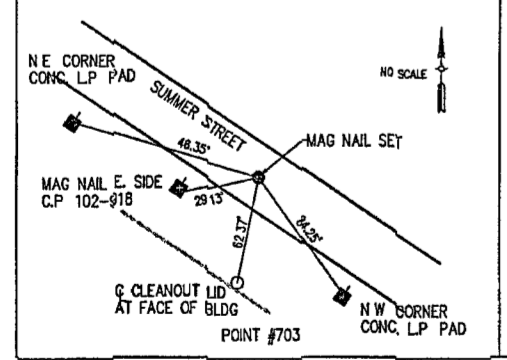
**Right-of-Way Note**  
The right of way, parcel lines, and ownership information shown on this plat are preliminary. This information is shown only to help orient the user of this plat as it relates to the centerline. The source of this information is from the last deed of record obtained from the County Recorder's Office. The consultant responsible for the Right of Way Engineering will complete the final determination of this information.

**FILED**  
JAN 25 2011  
PEGGY HOLINGA KATONA  
LAKE COUNTY AUDITOR

PLOT SCALE 1:1. EDIT DATE 1/17/11 - 10 05 AM. EDITED BY MSMTM. DRAWING FILE: P:\IN2003\0334\DRAWINGS\SURVEY\IN20030334 SV 2011-01-17.RSP.DWG



POINT	NORTH	EAST	STATION	OFFSET	LINE
702	6289.1830	5714.2820	58+53.15	4.02 RT	S
703	7151.5630	4426.3420	43+03.17	2.73 LT	S
902	6759.6960	5005.0850	117+59.70	1.62 LT	PR-A
904	7472.330	5011.787	124+72.36	0.00	PR-A



**FOUND PROPERTY CORNER MONUMENTS**

POINT	NORTH	EAST
527	6842.7634	4815.0247
528	6816.5224	4858.4604
530	6983.4885	4748.5428
531	6854.7419	4570.3934
532	6821.8631	4620.7017
533	6739.2780	4745.5391
534	6710.4142	4787.9884

**AMERICAN STRUCTUREPOINT INC**  
7250 SHADELAND STATION  
INDIANAPOLIS, IN 46259-3557  
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www.structurepoint.com

**MICHAEL J. SMITH**  
REGISTERED  
No. 20500025  
STATE OF INDIANA  
LAND SURVEYOR

"I AFFIRM UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REHEAT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW."  
MICHAEL J SMITH  
1-19-11  
REGISTERED LAND SURVEYOR DATE

**INDIANA DEPARTMENT OF TRANSPORTATION**  
LOCATION CONTROL ROUTE SURVEY PLAT  
S.R. 152, LAKE COUNTY, INDIANA

HORIZONTAL SCALE	BRIDGE FILE
COUNTY	152-45-02730
LAKE	DESIGNATION
	001421Q
SURVEY BOOK	PLAN SHEETS
	1 OF 3
CONTRACT	PROJECT
	NH-N881(008)

2:3

2011-004886

STATE OF INDIANA  
LAKE COUNTY  
FILED FOR RECORD

22/18

2011 004886

2011 JAN 25 AM 10:33

MICHAEL J. SMITH  
RECORDER



**FILED**  
JAN 25 2011  
PEGGY HOLINGA KATONA  
LAKE COUNTY AUDITOR



① Stauffer Chemical Company of Indiana, Inc  
Deed Book 531, Page 283

**Right-of-Way Note**

The right of way, parcel lines, and ownership information shown on this plat are preliminary. This information is shown only to help orient the user of this plat as it relates to the boundaries. The source of this information is from the last deed of record obtained from the County Recorder's Office. The consultant responsible for the Right of Way Engineering will complete the final determination of this information.

This shaded area is the only part of Indianapolis Boulevard for which a right-of-way grant was not found (outside of the right-of-way of the Michigan Central Railroad). The adjoining deed (D.B. 1029, page 335) refers to an existing 33 foot half right-of-way, calling it out as the east line of the land conveyed by said deed.

Section 5, T-36-N, R-9-W  
North Township  
Lake County, IN

Chicago, Indiana & Southern Railroad Co  
Deed Book 121, Page 322

Section 5, T-36-N, R-9-W  
North Township  
Lake County, IN

Ownership Unknown  
Last Deed of Record not found

The right-of-way for Forsyth Avenue was established by a series of dedications "to the public" (not to a specific governmental unit) in 1898-1899. Recording data for these grants is shown where said grants have not been superseded by newer instruments.

The original right-of-way between the Little Calumet River and Summer Street is 33 feet on each side of the north-south centerline of Section 32 and Section 5. The right-of-way of the Michigan Central Railroad is an exception to this dedication.

NOTE: In Deed Book 117, page 353 the Chicago, Indiana and Southern Railroad conveyed a strip of land to the City of Hammond for right-of-way for Jump Road, west of Indianapolis Boulevard. This conveyance was made in consideration of the City of Hammond vacating the portion of "Forsyth Avenue" between the north right of way line of the Michigan Central Railroad and the south right of way line of the Chicago, Indiana and Southern Railroad" along the north-south centerline of Section 5, according to a resolution passed by the Board of Public Works of the City of Hammond on November 16, 1906. Further research is needed to determine if this resolution exists and what rights, if any, the public presently has to the affected portion of Indianapolis Blvd.

The New York Central Railroad Co  
Deed Book 284, Page 154

Chicago, Indiana & Southern Railroad Co  
Deed Book 121, Page 322

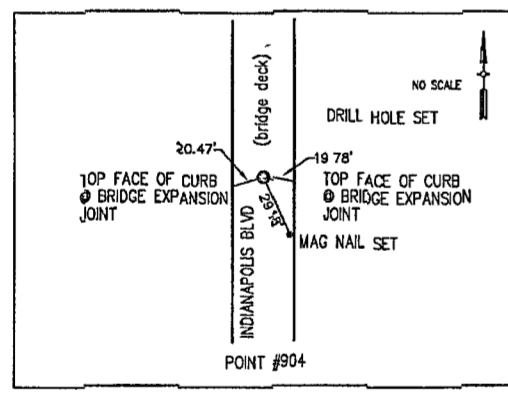
JR Real Estate LLC  
Instr. 2006-002124

NE Corner SW 1/4  
Section 5, T-36-N, R-9-W  
Lake County Surveyor's Office  
Corner references not available

Sandridge Bank Land Trst #13-7565  
Instr. 2003-005986

Grant of Public Right-of-way  
Deed Book 89, Page 95

JR Real Estate LLC  
Instr. 2006-002124



**CONTROL POINT**

POINT	NORTH	EAST	STATION	OFFSET	LINE
904	7472.330	5011.767	124+72.36	0 00	PR-A

**MISCELLANEOUS ALIGNMENT POINTS**

POINT	NORTH	EAST	STATION	OFFSET	LINE
101	6763.3297	5006.7158	P I 117+63.34	0 00	PR-A
102	10227.1011	5031.3912	P I 152+27.20	0 00	PR-A
103	10999.8581	5023.4088	P O T 160+00.00	0 00	PR-A
104	10227.0785	5016.3964	152+27.07	14.99 LT	PR-A
105	10227.1084	5034.8949	152+27.23	3.50 RT	PR-A
106	7040.4897	4568.8607	P O T 45+00.00	0 00	S
107	6487.7379	5422.2087	P O T 55+00.00	0 00	S
108	7647.3346	5008.3042	126+47.33	4.71 LT	PR-A
702	6289.1830	5714.2820	58+53.15	4.02 RT	S
703	7151.5630	4426.3420	43+03.17	2.73 LT	S
900	5000.0000	5000.0000	100+00.00	0 00	PR-A
902	6759.6960	5005.0650	117+59.70	1.62 LT	PR-A
905	9863.7830	4995.8020	145+63.57	40.86 LT	PR-A
907	10276.7770	4999.1910	152+77.21	31.69 LT	PR-A
908	10954.5360	5020.3850	159+54.71	3.49 LT	PR-A
910	12991.4943	4989.9601			

**FOUND PROPERTY CORNER MONUMENTS**

POINT	NORTH	EAST
537	10198.8448	4861.2700
538	10197.1300	4845.1000
539	10257.0200	4719.3900
540	10198.5419	4680.0700
542	10396.7610	4687.4179
543	10622.7426	4860.0099
544	10623.0081	4839.7507
545	10682.9741	4838.8214
546	10742.8967	4837.3825
547	10983.5221	4832.7774
550	10397.5438	4985.0991
551	10397.8746	4861.7165
552	10622.4461	4983.3239
553	10743.6130	4981.1899
554	10983.5274	4975.0584
555	9948.6191	4880.1949
559	9597.1600	4859.1162
560	9336.9145	4857.7563

PLOT SCALE 1:1 EDIT DATE: 1/17/11 - 10:06 AM EDITED BY: MSMTM DRAWING FILE: P:\IN2003\0554.D DRAWINGS\SURVEY\IN20030554.SV 2011-01-17 RSP.DWG

**AMERICAN STRUCTUREPOINT INC.**  
7260 SHABELAND STATION  
INDIANAPOLIS, IN 46256-3857  
TEL: 317 547 5589 FAX: 317 543 0270  
www.structurepoint.com

**MICHAEL J. SMITH**  
REGISTERED LAND SURVEYOR  
No. 20500025  
STATE OF INDIANA

"I AFFIRM UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW."  
MICHAEL J. SMITH  
REGISTERED LAND SURVEYOR  
DATE: 1-19-11

**INDIANA DEPARTMENT OF TRANSPORTATION**  
LOCATION CONTROL ROUTE SURVEY PLAT  
S.R. 152, LAKE COUNTY, INDIANA

HORIZONTAL SCALE	BRIDGE FILE
COUNTY	152-45-02730
LAKE	DESIGNATION
	0014210
SURVEY BOOK	PLAN SHEETS
	2 OF 3
CONTRACT	PROJECT
	NH-N881(008)

3:3

2011-004886

2011 004886

STATE OF INDIANA  
LAKE COUNTY  
FILED FOR RECORD

2011 JAN 25 AM 10 33

MICHAEL J. SMITH  
REGISTERED LAND SURVEYOR

BOOK 22 PAGE 18

22/18

CONTROL POINTS

POINT	NORTH	EAST	STATION	OFFSET	LINE
905	9563.7830	4985.8020	145+63.57	40.86 LT	PR-A
907	10276.7770	4899.1910	152+77.21	31.69 LT	PR-A
908	10954.5380	5020.3850	158+54.71	3.49 LT	PR-A

**Right-of-Way Note**  
The right of way, parcel lines, and ownership information shown on this plat are preliminary. This information is shown only to help orient the user of this plat as it relates to the centerlines. The source of this information is from the last deed of record obtained from the County Recorder's Office. The consultant responsible for the Right of Way Engineering will complete the final determination of this information.

FILED  
JAN 25 2011  
PEGGY HOLINGA KATONA  
LAKE COUNTY AUDITOR

**SURVEYOR'S REPORT**

Route Survey - State Road 152  
Project - Bridge over CSX and Indiana Harbor Railroad  
Lake County, Indiana

**Fieldwork**  
June - December, 2004

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

The units of this survey are US Survey Feet.

Field measurements for this survey are in accordance with the specifications outlined in 865 IAC 1-12-22.

The relative positional accuracy (uncertainty due to random errors in measurement) of any point on the survey relative to any other point on the survey at the ninety-five percent (95%) confidence level is within the specifications for an Urban Survey (0.07 feet + 50 ppm) as defined in 865 IAC 1-12-7, and not to exceed 0.5 feet per 865 IAC 1-12-22(a).

The latest research date was January 4, 2011.

**Horizontal Control**

The basis of bearings for this survey is the east line of the East Half of Section 5, Township 36 North, Range 9 West which bears North 00 degrees 10 minutes 47 seconds East.

All measurements and coordinates shown on this plat are on a local ground system which is based on the southwest corner of the Southeast Quarter of Section 5, Township 36 North, Range 9 West having an assigned coordinate value of 5,000 North and 5,000 East.

**Alignment**

Line "PR-A" is a paper relocated alignment.

Line "S" is the centerline of Summer Street and was established based on found monumentation in the area.

**Existing Right-of-Way**

The right-of-way of Forsyth Avenue (Indianapolis Blvd.) was established by a series of dedications "to the public" (not to a specific governmental unit) in 1898-1899. Recording data for these grants is shown where said grants have not been superseded by newer instruments.

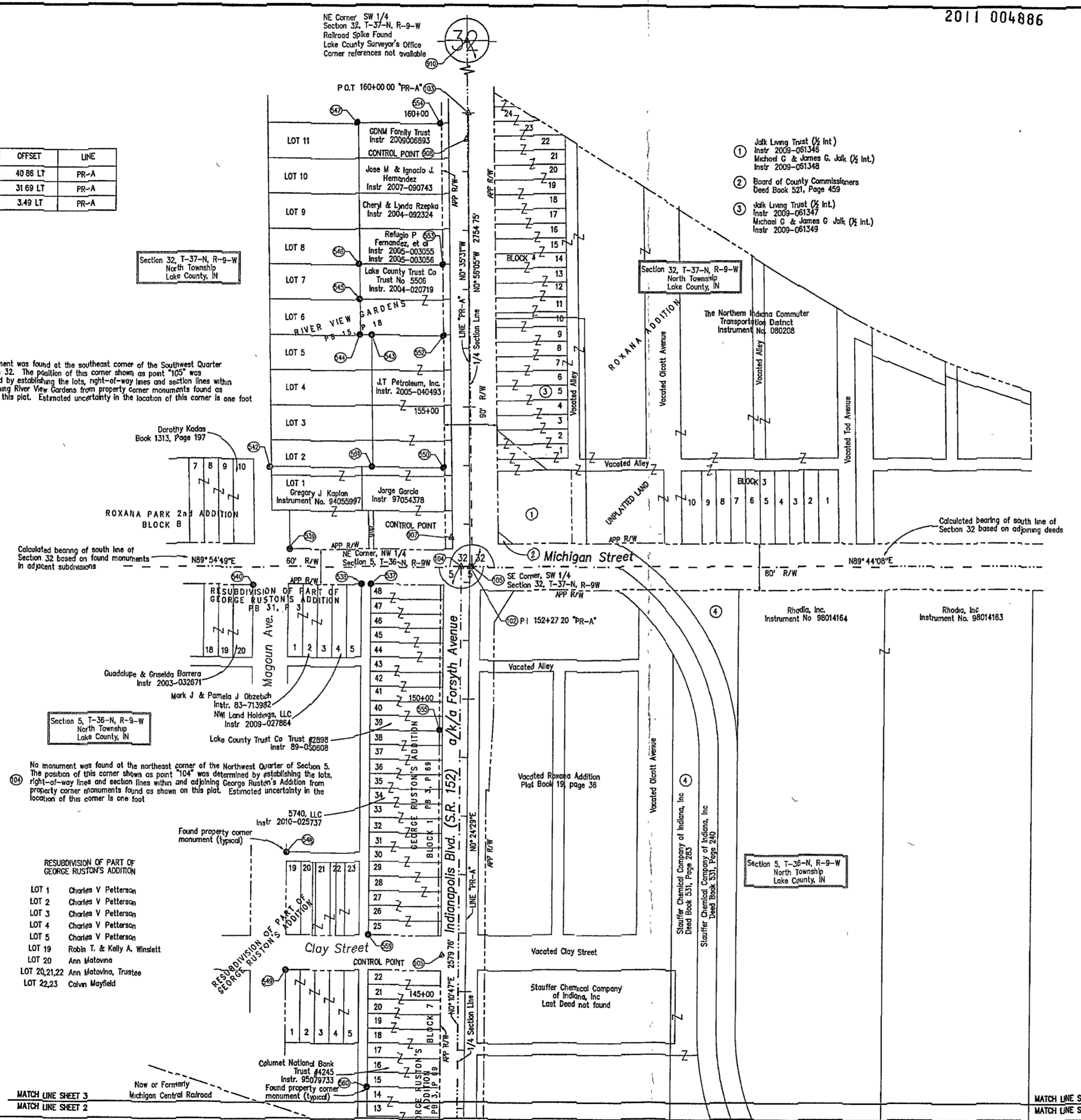
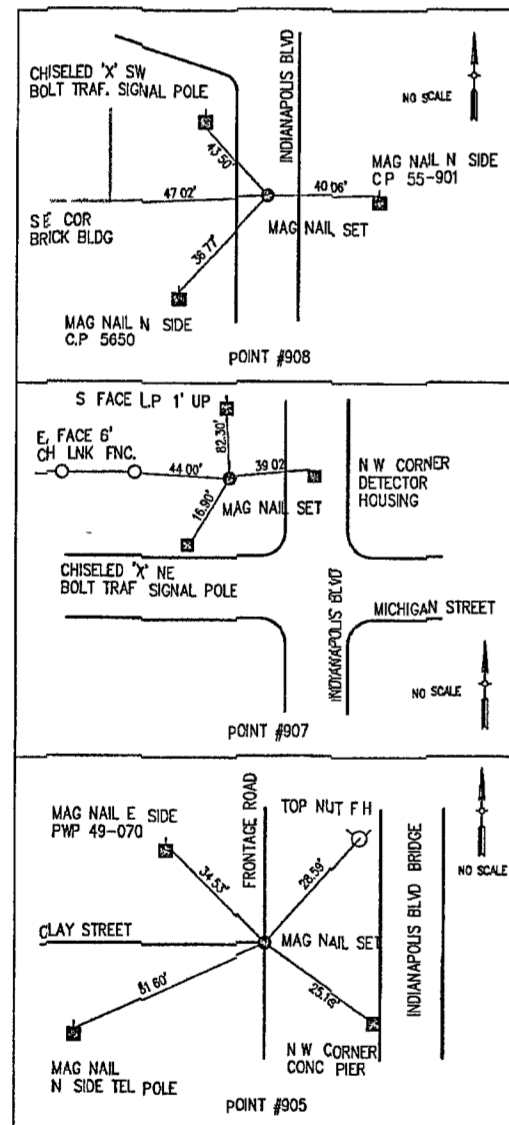
The right-of-way of Summer Street and Michigan Street are shown per adjoining subdivision plats.

To the best of my knowledge and belief, the route survey was executed in accordance with Title 865, Article 1, Chapter 12-20 through 12-25 of the Indiana Administrative Code as such pertains to Route Surveys. The following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established on this survey as a result of:

- (i) Availability and condition of reference monuments  
Unless otherwise noted, there is negligible uncertainty associated with the locations of these corners.  
Southwest Quarter of Section 32, Township 37 North, Range 9 West  
Northeast Corner Railroad Spike found. No records available from the County Surveyor.  
Southeast Corner No monument found. No records available from the County Surveyor. The position of this corner shown as point "105" was determined by establishing the lots, right-of-way lines and section lines within and adjoining River View Gardens from property corner monuments found as shown on this plat. Estimated uncertainty in the location of this corner is one foot.  
Section 5, Township 36 North, Range 9 West  
North Quarter Corner No monument found. No records available from the County Surveyor. The position of this corner shown as point "104" was determined by establishing the lots, right-of-way lines and section lines within and adjoining George Ruston's Addition from property corner monuments found as shown on this plat. Estimated uncertainty in the location of this corner is one foot.  
Center of Section No monument found. No records available from the County Surveyor. Location established from Instrument Number 779301. Estimated uncertainty in the location of this corner is one foot.  
South Quarter Corner Harrison Monument found. No records available from the County Surveyor.
- (ii) Occupation or Possession Lines  
In my opinion, there is negligible uncertainty with the locations of any of the control lines due to occupation or possession.

Michael J. Smith  
Professional Land Surveyor No. LS2050025  
Date 1-19-11

Prepared By: Michael J. Smith



- RESUBDIVISION OF PART OF GEORGE RUSTON'S ADDITION
- LOT 1 Charles V. Petterson
  - LOT 2 Charles V. Petterson
  - LOT 3 Charles V. Petterson
  - LOT 4 Charles V. Petterson
  - LOT 5 Charles V. Petterson
  - LOT 19 Robin T. & Kelly A. Windlett
  - LOT 20 Ann Matovina
  - LOT 20,21,22 Ann Matovina, Trustee
  - LOT 22,23 Calvin Mayfield

PLAT SCALE: 1" = 100.00' DATE: 1/17/11 10:06 AM EDITED BY: MSMTI DRAWING FILE: P:\IN2003\0534.D DRAWING SURVEY\IN2003\0534.SV 2011-01-17 10:06 AM

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STATE OF INDIANA

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MICHAEL J. SMITH  
1-19-11  
DATE

**INDIANA DEPARTMENT OF TRANSPORTATION**  
LOCATION CONTROL ROUTE SURVEY PLAT  
S.R. 152, LAKE COUNTY, INDIANA

HORIZONTAL SCALE	BRIDGE FILE
COUNTY	152-45-02730
LAKE	DESIGNATION
	0014210
SURVEY BOOK	PLAN SHEETS
	3 OF 3
CONTRACT	PROJECT
	NH-NB81(008)

R/W CODE:4520

105

110

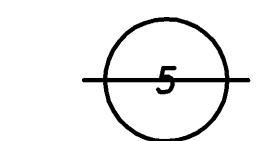
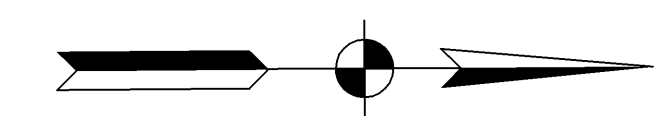
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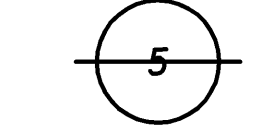
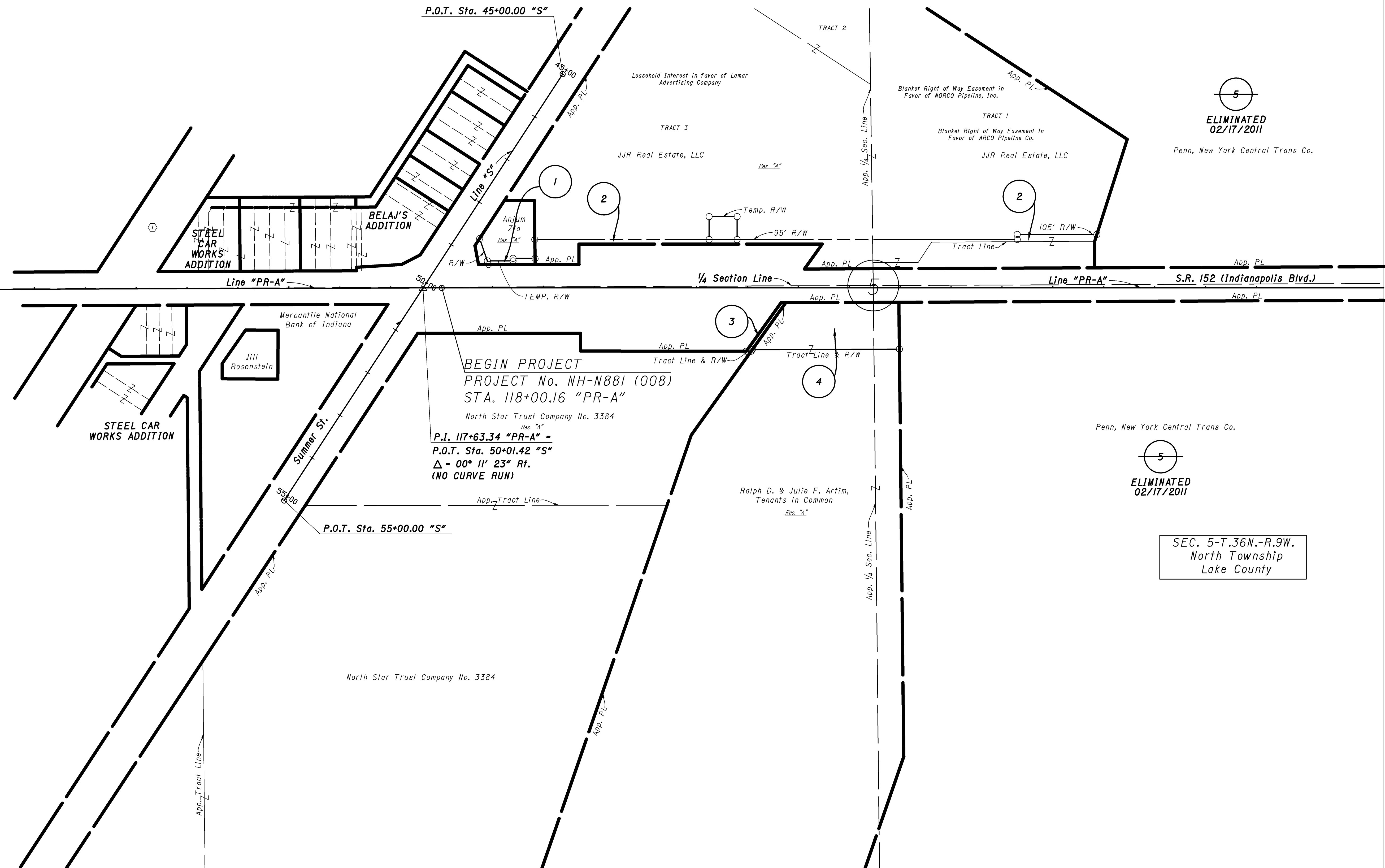
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ELIMINATED  
02/17/2011

Penn, New York Central Trans Co.



ELIMINATED  
02/17/2011

Penn, New York Central Trans Co.

SEC. 5-T.36N.-R.9W.  
North Township  
Lake County

R: 14512 10615 ProDevelopment\PROJ\RWENG\CalculationDrawings\IN2003.0534.2.RW.04.dwg Roy Lee Plot: 3/7/2011 3:49 PM Save: 3/7/2011 3:46 PM

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED:	MB	DRAWN:	BNM	CHECKED:	DAD

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

PLAT No. 1  
S.R. 152 (INDIANAPOLIS BLVD.)

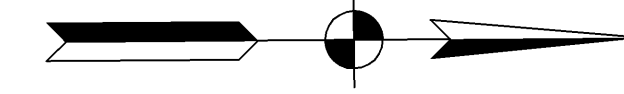
HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	5 of 23
CONTRACT	PROJECT NO.
	NH-N881 (008)

135 140 145 150 155 160

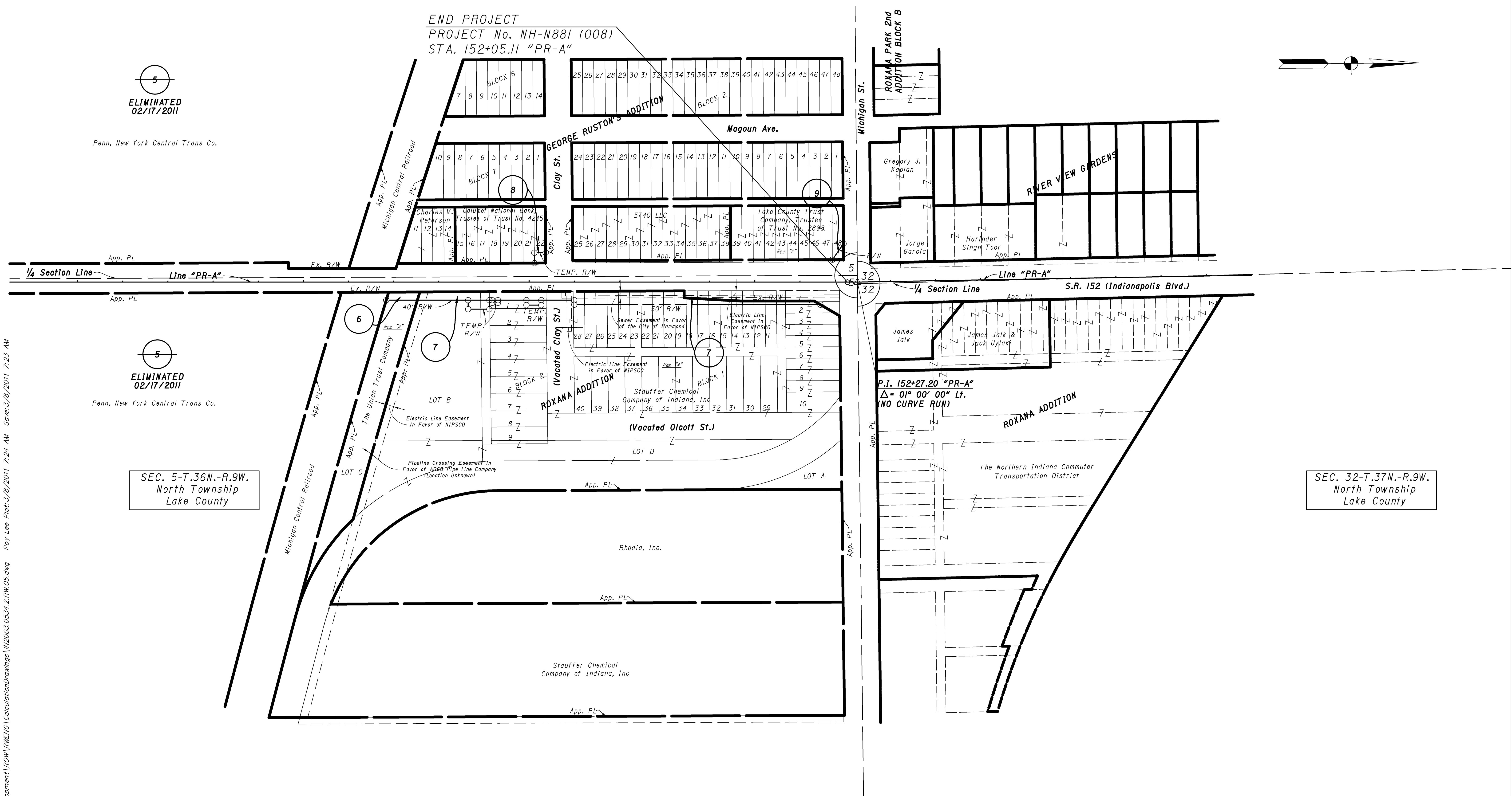
END PROJECT  
PROJECT No. NH-N881 (008)  
STA. 152+05.11 "PR-A"



ELIMINATED  
02/17/2011



Penn, New York Central Trans Co.



ELIMINATED  
02/17/2011

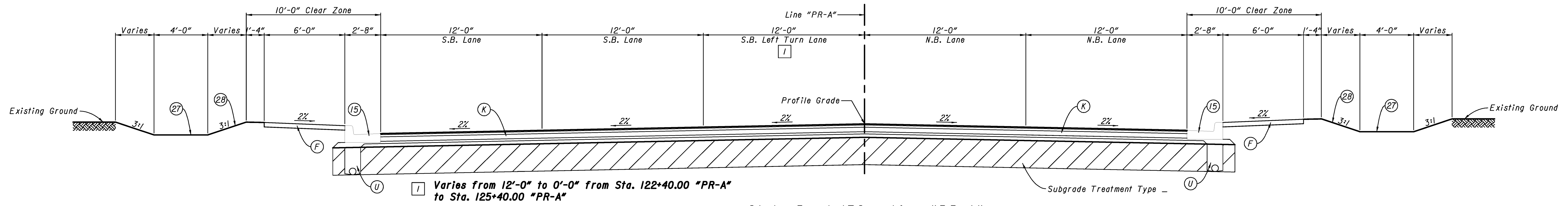
Penn, New York Central Trans Co.

SEC. 5-T.36N.-R.9W.  
North Township  
Lake County

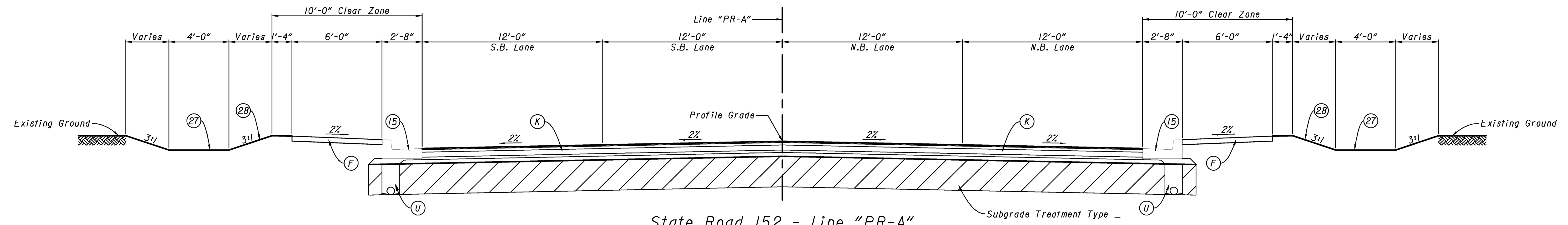
SEC. 32-T.37N.-R.9W.  
North Township  
Lake County

R: 14512 10615 ProDevelopment\PROJ\RWENG\CalculationDrawings\IN2003.0534.2.RW.05.dwg Roy Lee Plot: 3/8/2011 7:24 AM Save: 3/8/2011 7:23 AM

RECOMMENDED FOR APPROVAL DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION PLAT No 1 S.R. 152 (INDIANAPOLIS BLVD.)		HORIZONTAL SCALE 1" = 100'	BRIDGE FILE 152-45-02730
			VERTICAL SCALE	DESIGNATION NO. 0014210
DESIGNED: MB CHECKED: _____	DRAWN: BNM CHECKED: DAD	SURVEY BOOK CONTRACT		SHEETS 6 of 23 PROJECT NO. NH-N881 (008)

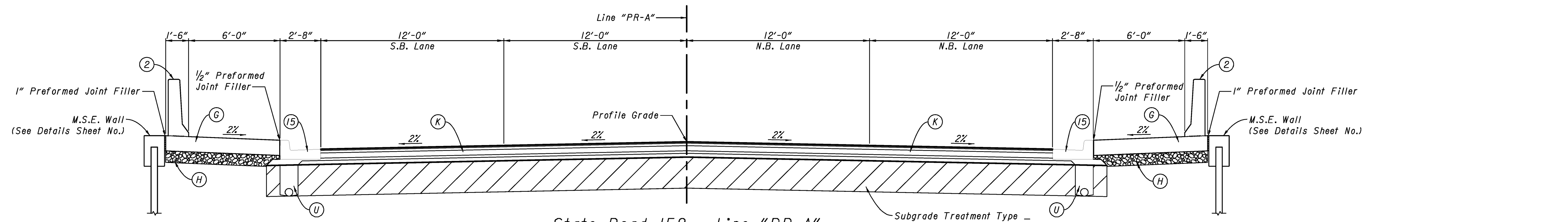


State Road 152 - Line "PR-A"  
Sta. 118+00.16 "PR-A" to Sta. 125+40.00 "PR-A"

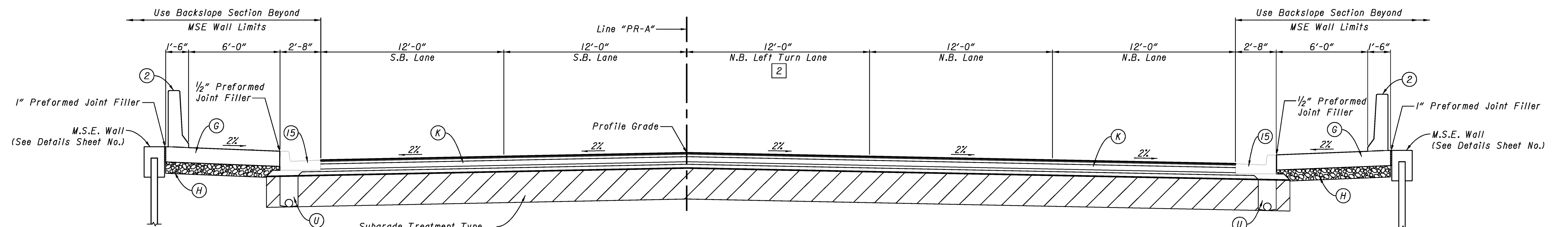


State Road 152 - Line "PR-A"  
Sta. 125+40.00 "PR-A" to Sta. 137+47.77 "PR-A"

PAVING EXCEPTION:  
137+47.77 "PR-A" to 142+83.23 "PR-A"



State Road 152 - Line "PR-A"  
Sta. 142+83.23 "PR-A" to Sta. 146+30.00 "PR-A"



Varies from 0'-0" to 12'-0" from Sta. 146+30.00 "PR-A" to Sta. 149+30.00 "PR-A"

State Road 152 - Line "PR-A"  
Sta. 146+30.00 "PR-A" to Sta. 152+05.11 "PR-A"

LEGEND

- (F) Sidewalk, Concrete
- (G) Reinforced Concrete Moment Slab
- (H) Coarse Aggregate, No. 8
- (K) 165 #/SYD. QC/QA-HMA, 3, 76, Surface 9.5 mm on 550 #/SYD. QC/QA-HMA, 3, 76, Intermediate 19.0 mm on 275 #/SYD. QC/QA-HMA, 5, 76, Intermediate C19.0 mm on 550 #/SYD. QC/QA-HMA, 3, 76, Base 25.0 mm
- (U) 6" Underdrain (See Sheet )
- (2) Concrete Bridge Rail
- (15) Combined Concrete Curb & Gutter, "C"
- (27) Seed Mixture, "D"
- (28) Mulched Seeding, "R"

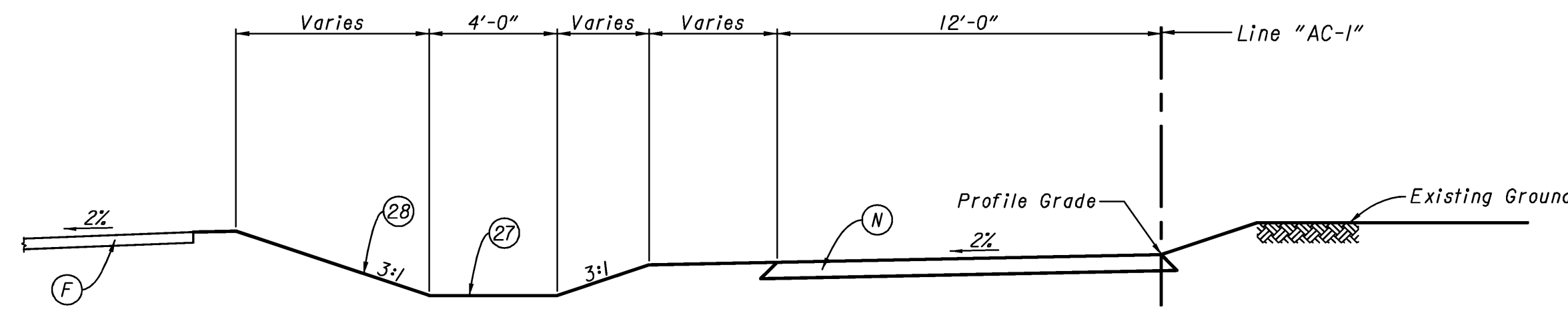
RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER DATE

DESIGNED: BNM DRAWN: BNM  
CHECKED: DAD/WSL CHECKED: DAD/WSL

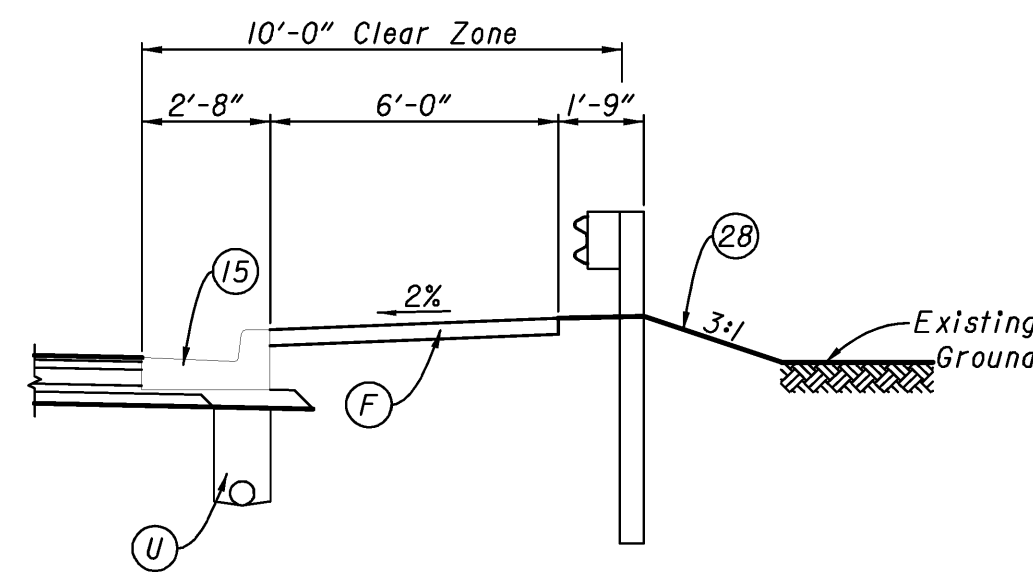
INDIANA DEPARTMENT OF TRANSPORTATION  
TYPICAL SECTIONS  
LINE "PR-A"

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1/4" = 1'-0"	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 7 of 23
CONTRACT	PROJECT NO. NH-1881 (008)

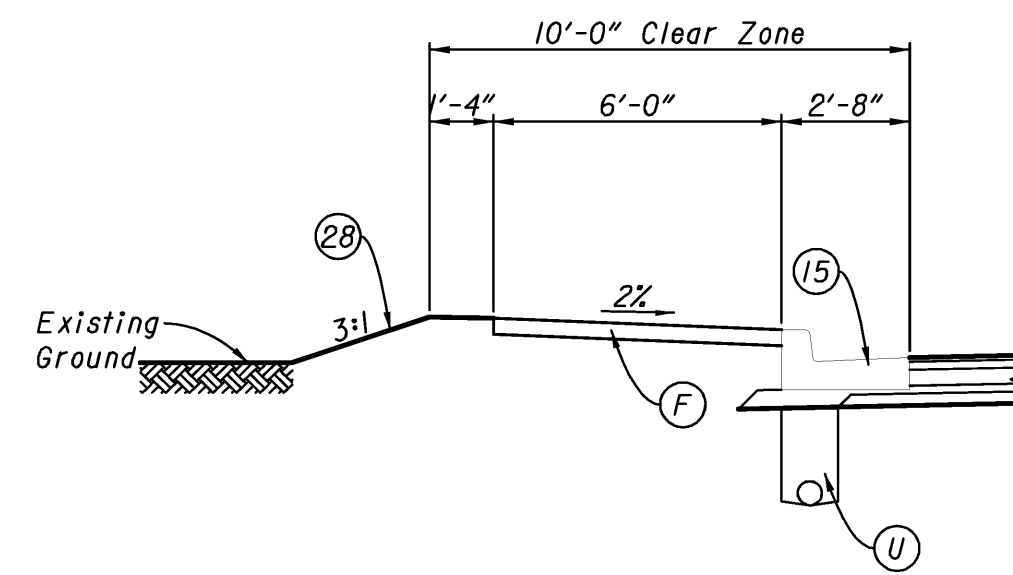
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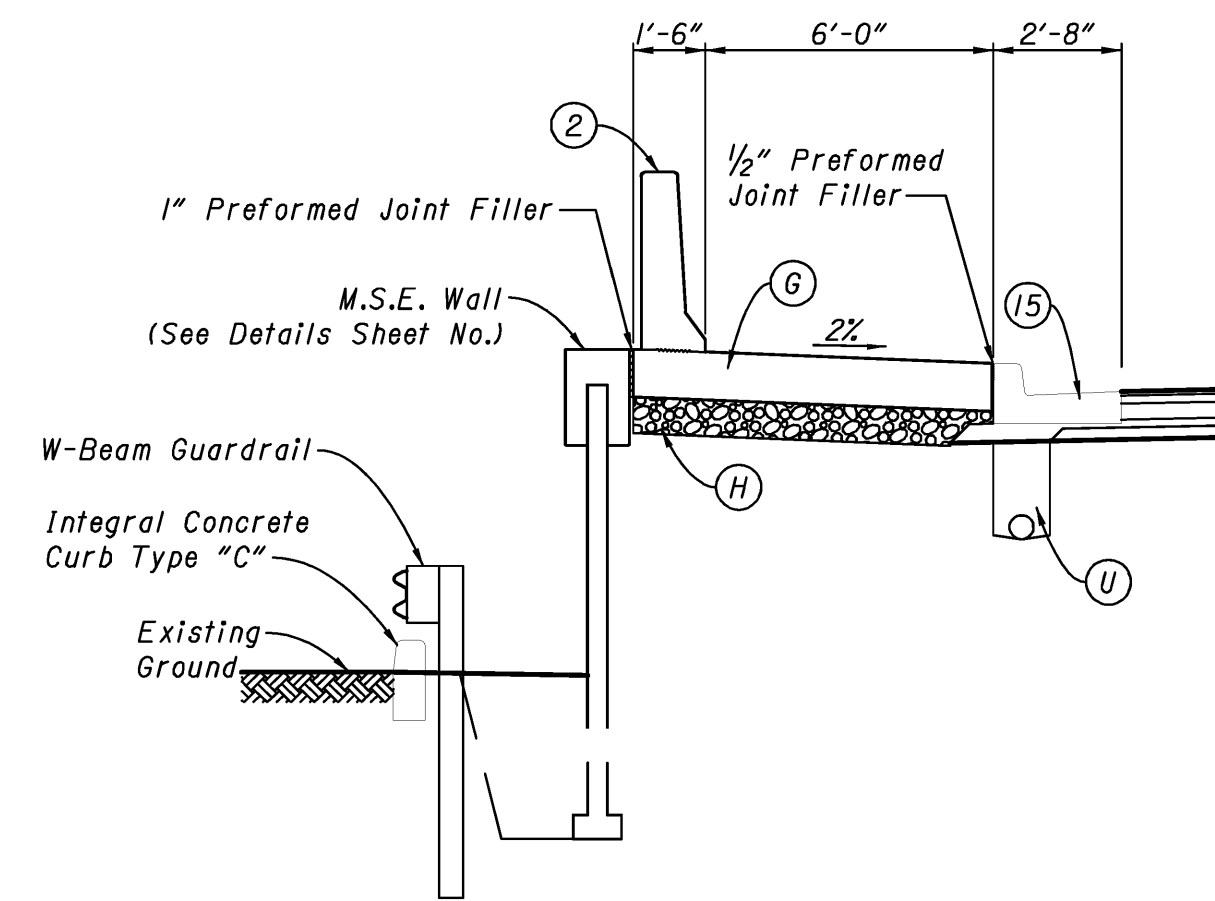
R.R. Access Road - Line "AC-1"  
Sta. 118+00.16 "PR-A" to Sta. 125+40.00 "PR-A"



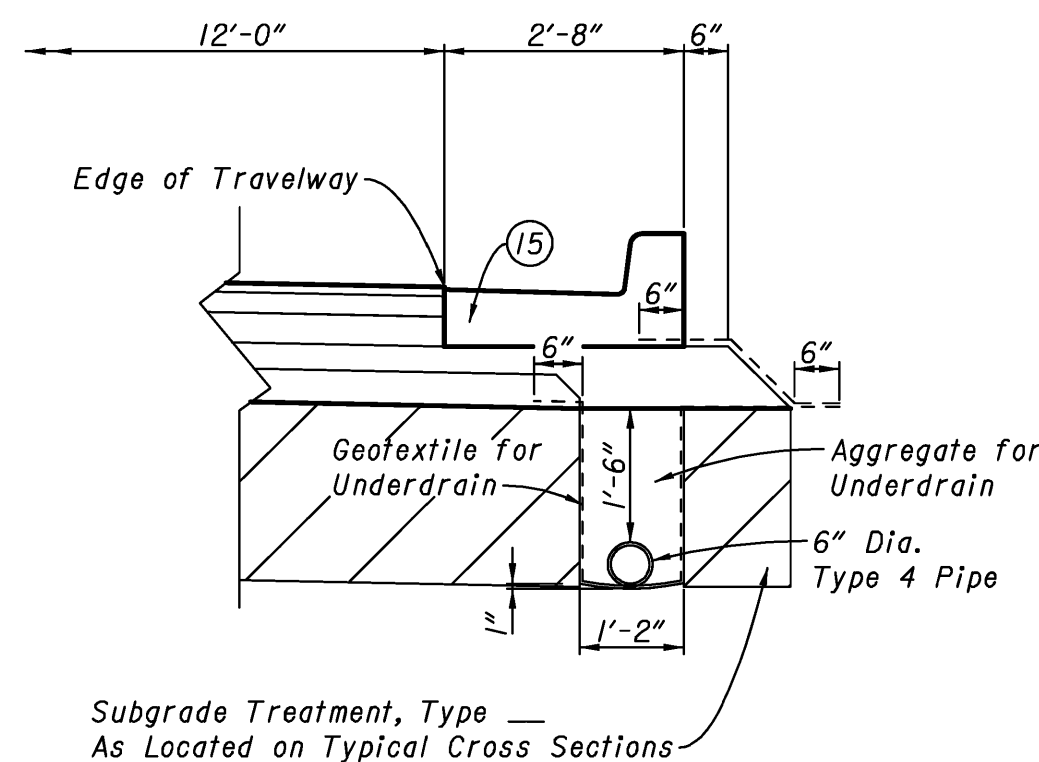
SECTION SHOWING GUARDRAIL  
ADJACENT TO SIDEWALK  
Sta. 136+78.16 "PR-A" to  
Sta. 137+28.16 "PR-A"



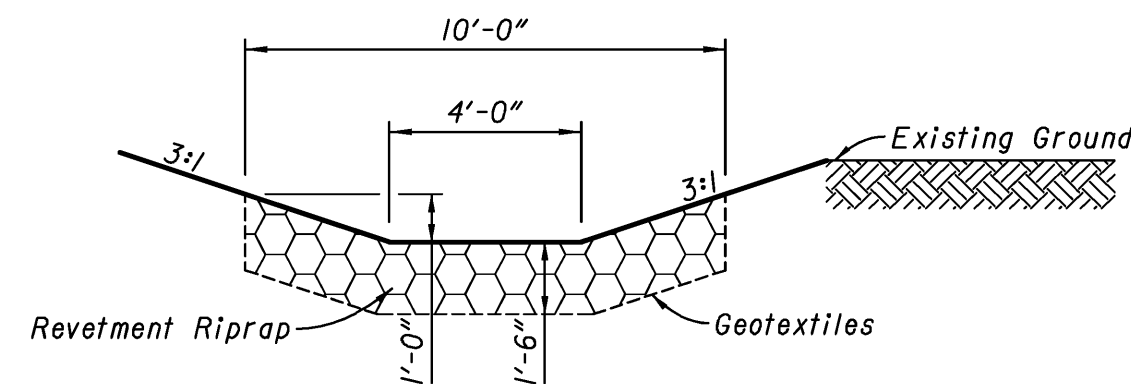
SECTION SHOWING BACKSLOPE  
Sta. 149+75.00 "PR-A" to  
Sta. 152+05.11 "PR-A"



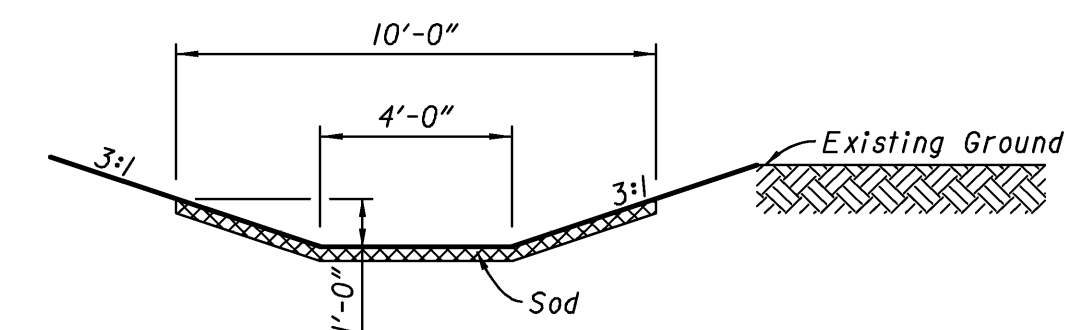
SECTION SHOWING GUARDRAIL  
WITH INTEGRAL CURB  
Sta. 147+56.63 "PR-A" to  
Sta. 149+75.38 "PR-A"



TYPICAL UNDERDRAIN DETAIL  
No Scale



TYPICAL RIPRAP DITCH DETAIL



TYPICAL SODDED DITCH DETAIL

LEGEND

- (F) Sidewalk, Concrete
- (G) Reinforced Concrete Moment Slab
- (H) Coarse Aggregate, No. 8
- (K) 165 #/SYD. OC/QA-HMA, 3, 76, Surface 9.5 mm on 550 #/SYD. OC/QA-HMA, 3, 76, Intermediate 19.0 mm on 275 #/SYD. OC/QA-HMA, 5, 76, Intermediate C19.0 mm on 550 #/SYD. OC/QA-HMA, 3, 76, Base 25.0 mm
- (N) 6" Compacted Aggregate for Surface, No. 53
- (U) 6" Underdrain (See Sheet ...)
- (2) Concrete Bridge Rail
- (15) Combined Concrete Curb & Gutter, "C"
- (27) Seed Mixture, "D"
- (28) Mulched Seeding, "R"

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED:	BNM	DRAWN:	BNM
CHECKED:	DAD/WSL	CHECKED:	DAD/WSL

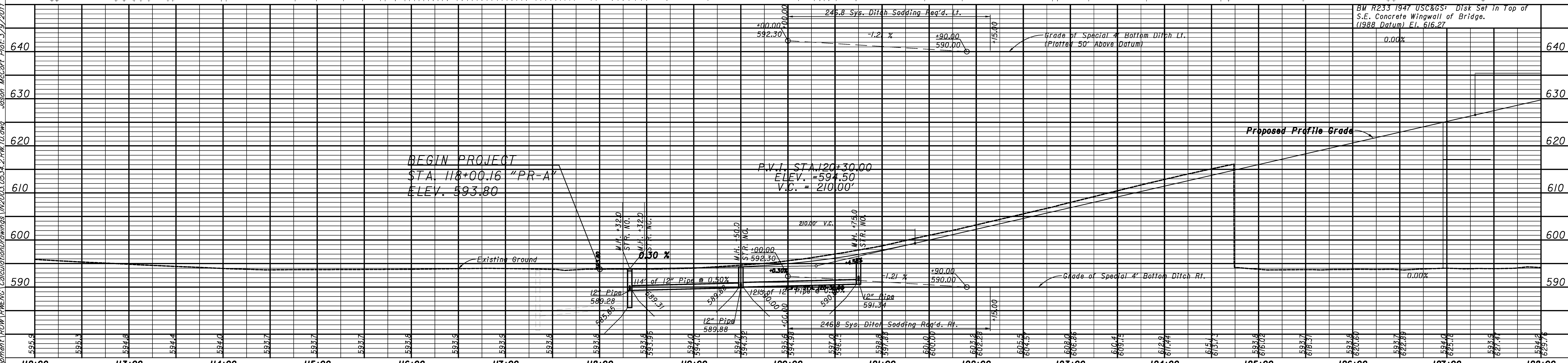
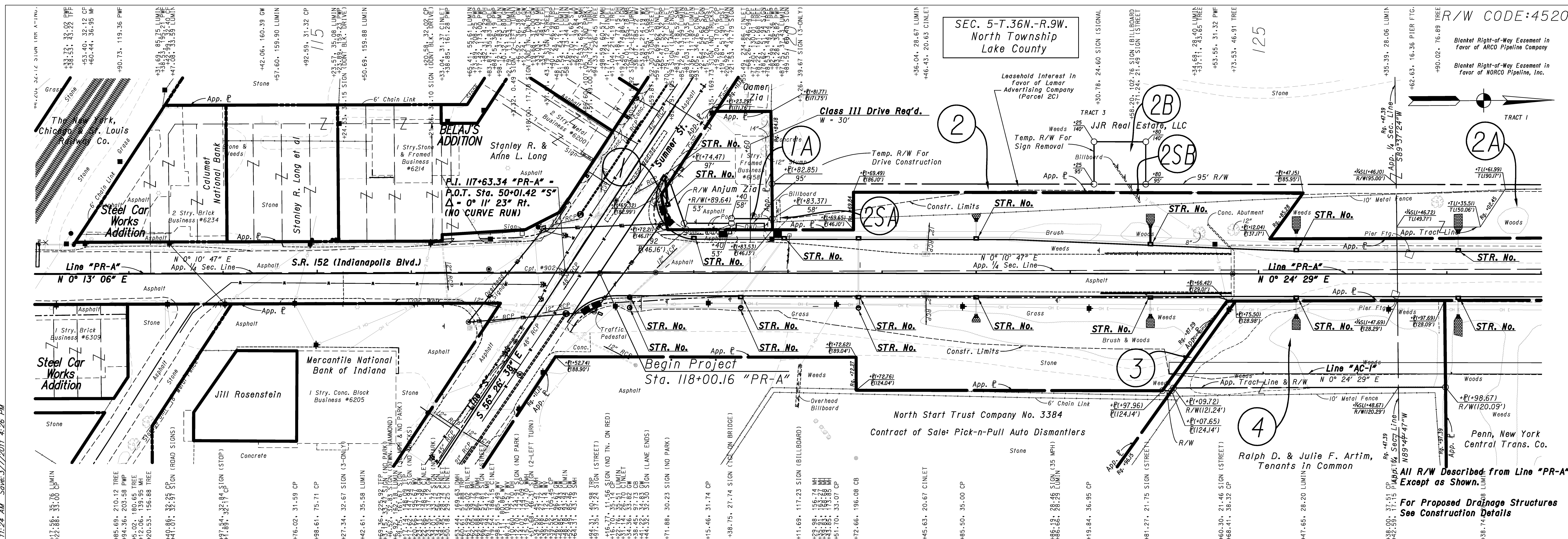
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS  
LINE "PR-A"

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1/4" = 1'-0"	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS
	8 of 23
CONTRACT	PROJECT NO. NH-1081 (008)

R:\1512\06151\Proj\Development\ROW\RMENG\CalculationDrawings\12003.0534.2.RW.03.dwg    Craig\_Swearingen\_Plot:1/10/2011 8:54 AM    Save:12/28/2010 9:06 AM

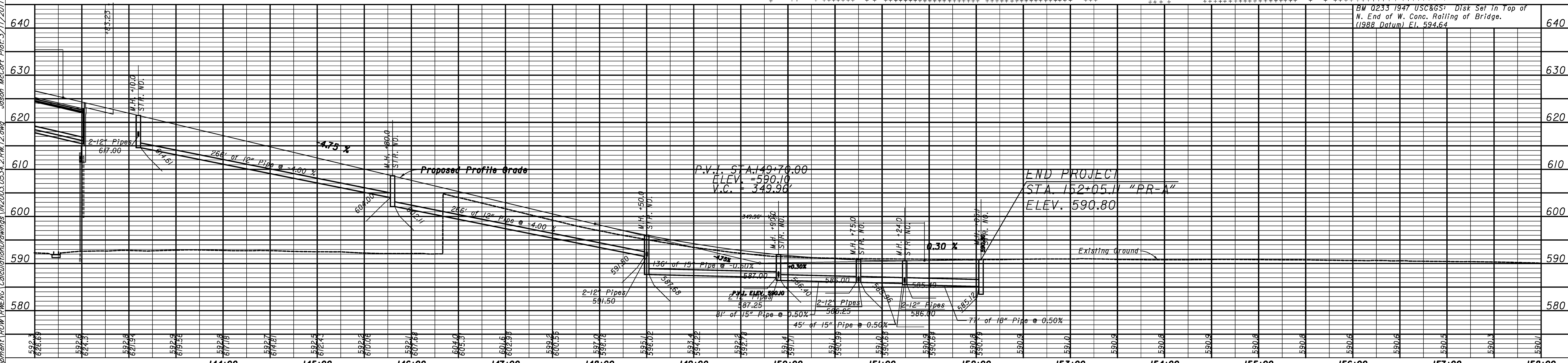
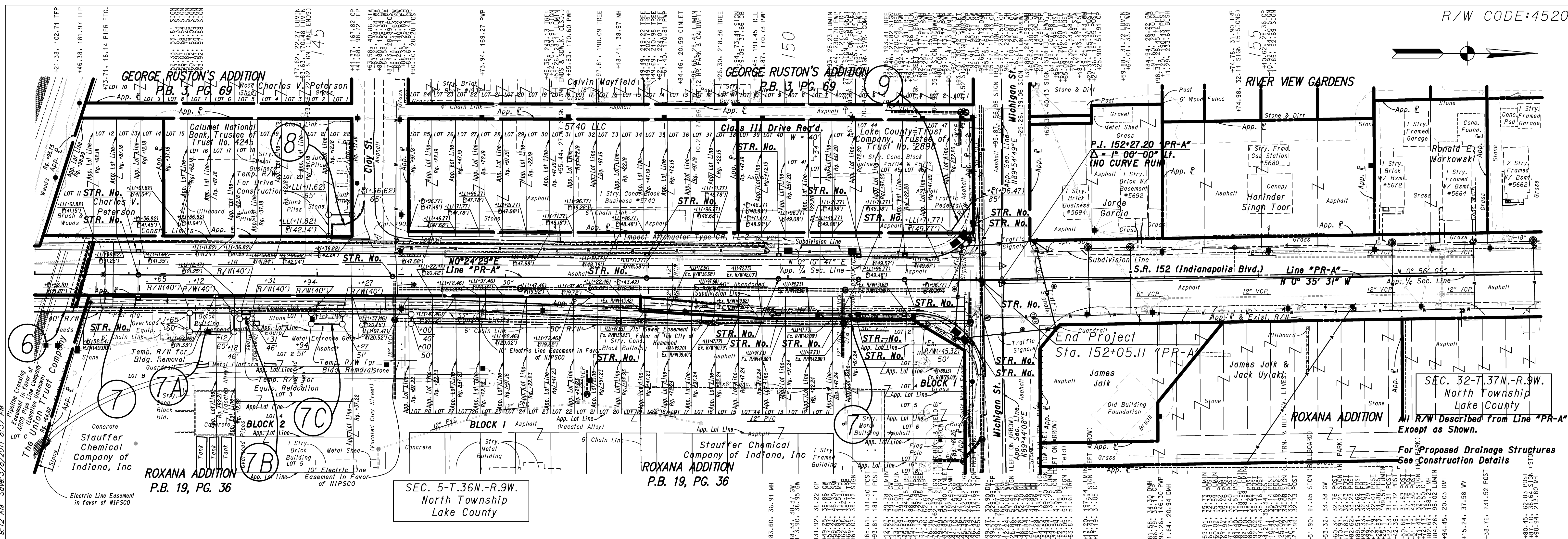




		<b>INDIANA</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>HORIZONTAL SCALE</b> 1" = 50'-0"	<b>BRIDGE FILE</b> 152-45-02730
<b>RECOMMENDED FOR APPROVAL</b>		<b>DESIGN ENGINEER</b>		<b>VERTICAL SCALE</b> 1" = 10'-0"	<b>DESIGNATION NO.</b> 0014210
<b>DESIGNED:</b> BNM/MJK	<b>DRAWN:</b> BNM	<b>DATE</b>		<b>SURVEY BOOK</b>	<b>SHEETS</b> 9 of 23
<b>CHECKED:</b> DAD/WSL	<b>CHECKED:</b> DAD/WSL	<b>PLAN &amp; PROFILE</b> 118+00 to 128+00 - LINE "PR-A"		<b>CONTRACT</b>	<b>PROJECT NO.</b> NH-NB81 (008)

R:\14512\0015\Proj\Development\1\_Plan\Profile\Calculations\Drawings\112003\0534.2.RW\10.dwg Jason McCort Plot: 3/9/2011 11:24 AM Save: 3/7/2011 4:26 PM



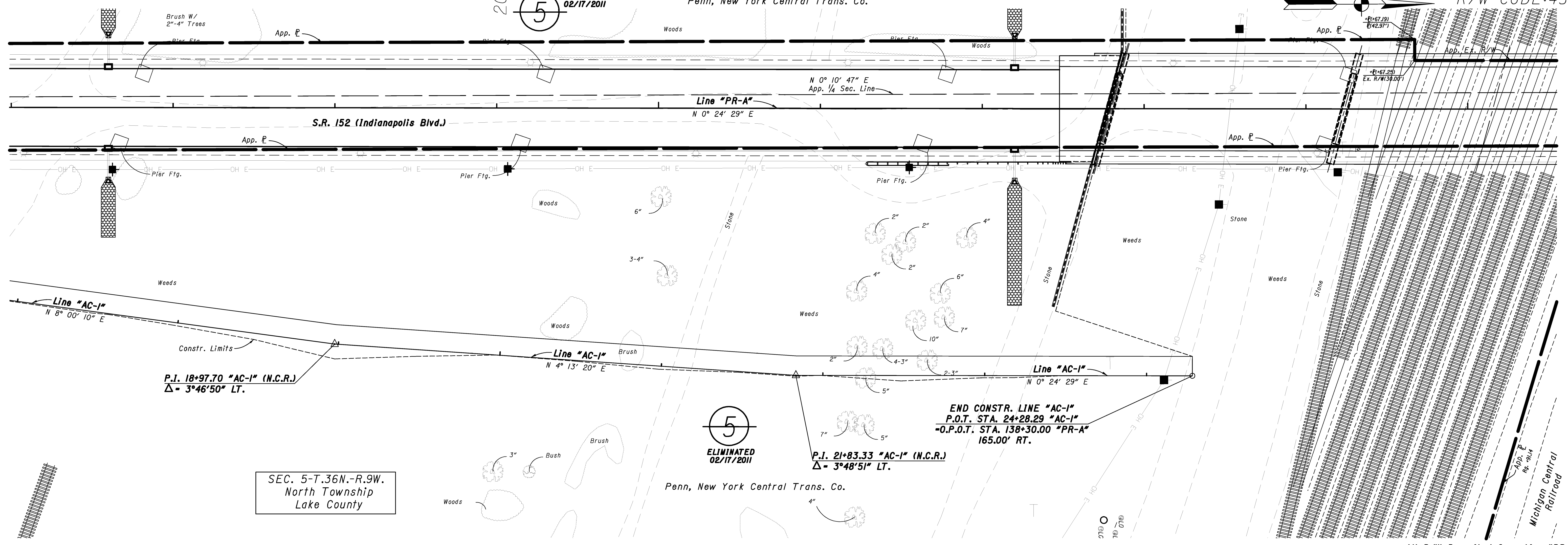


<p>Weg Nail in N. Side T.P. CPT #905 25.18' N.W. Corner Conc. Plat Line "PR-A"</p>		<p>Chisled "x" W.E. Bolt of Traffic Pole 16.90' E. Face S. Face 82.30' L.P. 1' up N.W. Corner Dev. Hiquette</p>		<p><b>RECOMMENDED FOR APPROVAL</b></p> <p>DESIGNED: BNM/MJK    DRAWN: BNM</p> <p>CHECKED: DAD/WSL    CHECKED: DAD/WSL</p>	<p><b>INDIANA DEPARTMENT OF TRANSPORTATION</b></p> <p>PLAN &amp; PROFILE</p> <p>142+00 to 153+00 - LINE "PR-A"</p>	<p>HORIZONTAL SCALE 1" = 50'-0"</p>	<p>BRIDGE FILE 152-45-02730</p>
<p>O.P.O.T. STA. 145+63.58 "PR-A", 40.86' LT. N. 9563.783 E. 4985.802</p>		<p>O.P.O.T. STA. 152+77.21 "PR-A", 31.69' LT. N. 10726.777 E. 4999.191</p>				<p>VERTICAL SCALE 1" = 10'-0"</p>	<p>DESIGNATION NO. 0014210</p>
						<p>SURVEY BOOK</p>	<p>SHEETS 11 of 23</p>
						<p>CONTRACT</p>	<p>PROJECT NO. NH-N81 (008)</p>

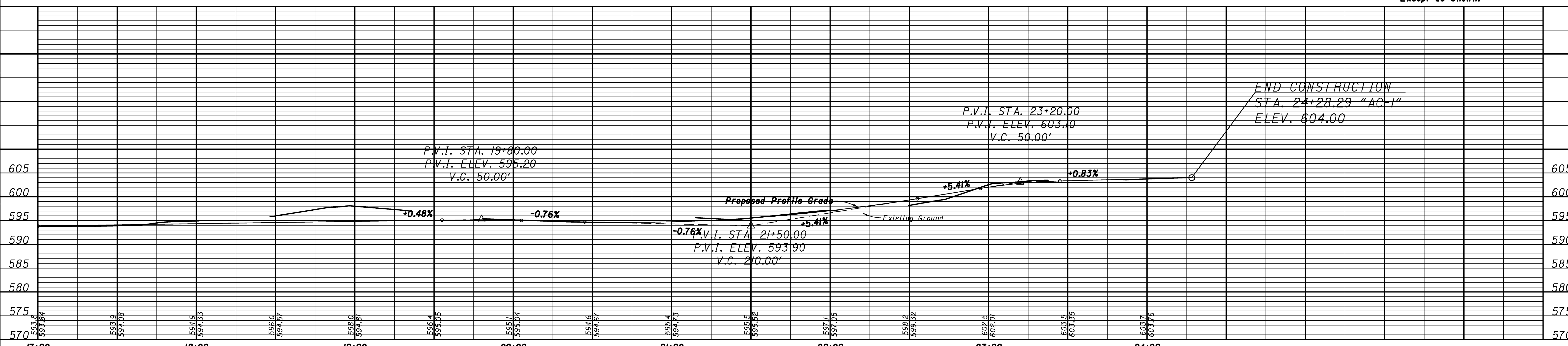


Penn, New York Central Trans. Co.

20  
5  
ELIMINATED  
02/17/2011



All R/W Described from Line "PR-A" Except as Shown.



DESIGNED: BNM	DRAWN: BNM
CHECKED: DAD	CHECKED: DAD

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE

INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

17+00 to 24+28.29 - LINE "AC-1"

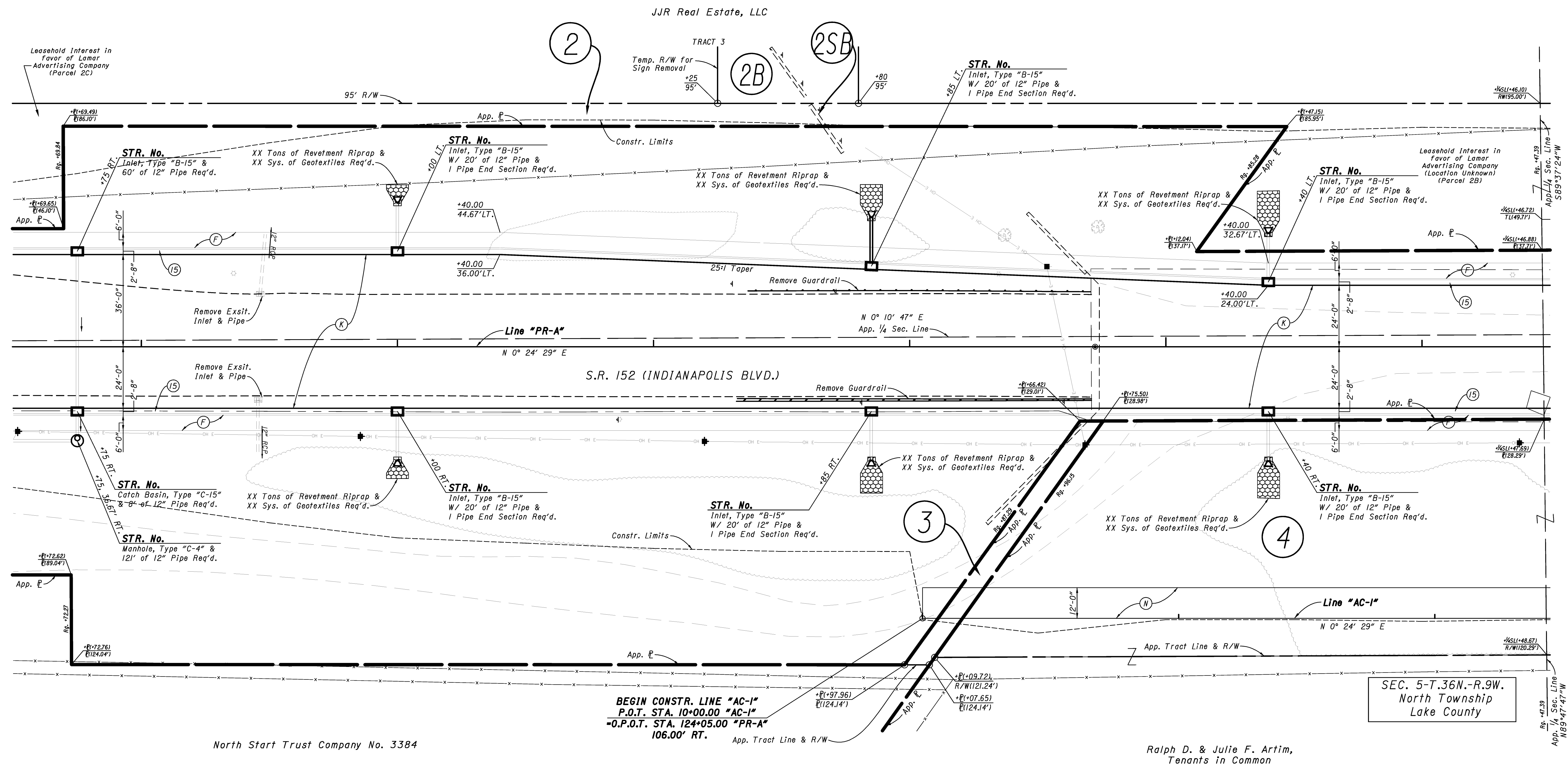
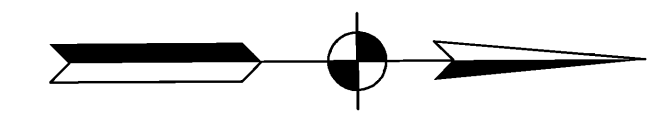
HORIZONTAL SCALE 1" = 30'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 10'-0"	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 13 of 23
CONTRACT	PROJECT NO. NH-N881 (008)

R:\4512\0615\Development\FROM\RWENG\Calculations\Drawings\IN2003\0534\2.RW14.dwg Craig Swearingen Plot: 2/23/2011 2:14 PM Save: 2/23/2011 8:35 AM



SEC. 5-T.36N.-R.9W.  
North Township  
Lake County

125



North Start Trust Company No. 3384

Ralph D. & Julie F. Artim,  
Tenants in Common

**LEGEND**

- (C) 6 in. PCCP for Driveways on  
6 in. Compacted Aggregate, No. 53
- (F) Concrete Sidewalk, 4 in.
- (K) Full Depth QC/QA HMA Pavement (See Typical Sections)
- (N) 6" Compacted Aggregate for Surface, No. 53
- (15) Combined Concrete Curb & Gutter, "C"
- (F) Concrete Curb Ramp, Type "F"
- (H) Concrete Curb Ramp, Type "H"

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED:	BNM/MJK	DRAWN:	BNM		
CHECKED:	DAD/WSL	CHECKED:	DAD/WSL		

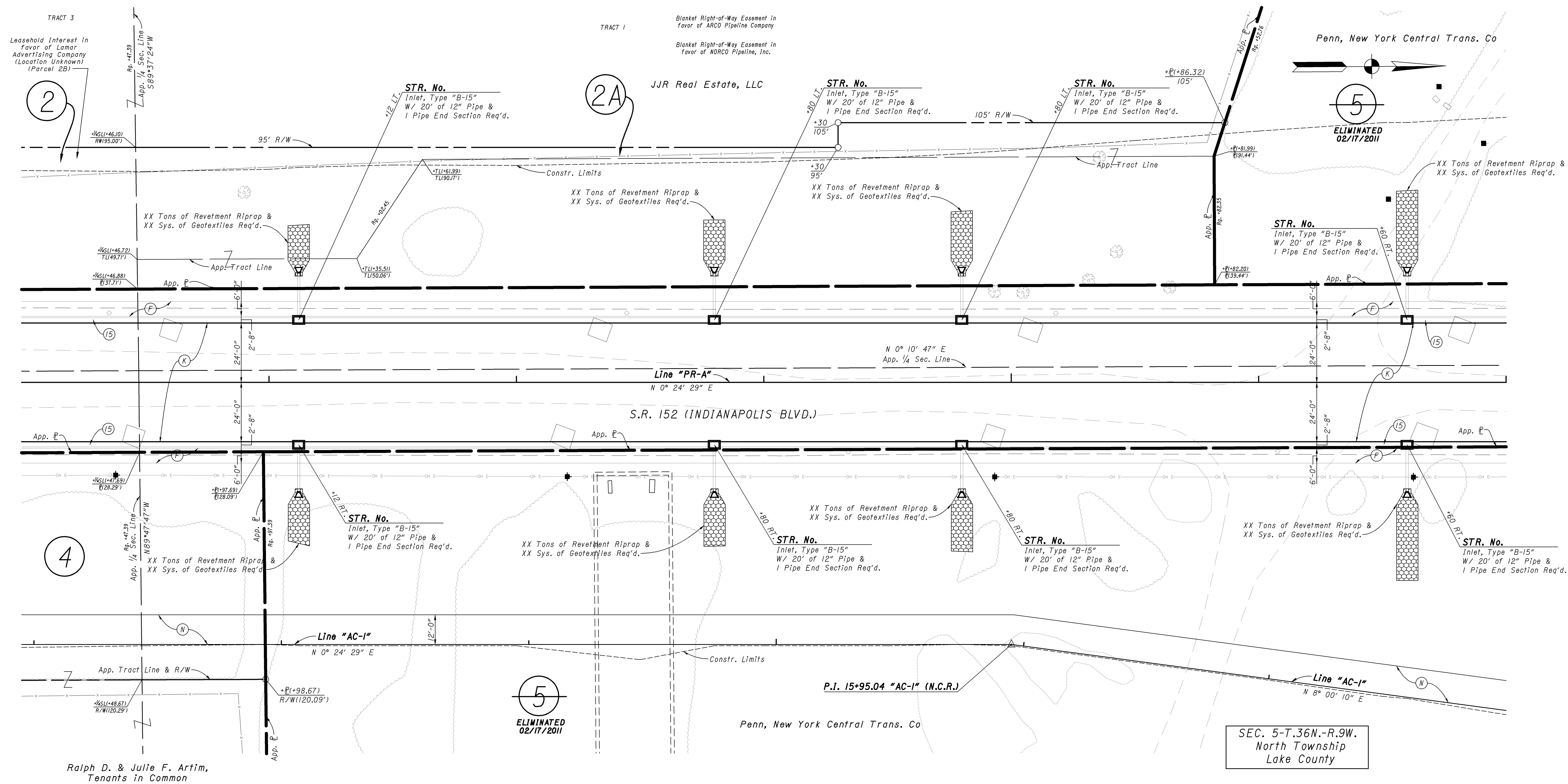
**INDIANA DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS  
120+50 to 126+50 - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	15 of 23
CONTRACT	PROJECT NO.
	NH-N881 (008)

R: 14512 | 0615 | ProDevelopment | ROM | RMEVIG | CalculationDrawings | IN2003.0534.2 | RW16.dwg | Jason, McCort | Plot: 3/9/2011 11:22 AM | Save: 3/9/2011 11:21 AM

130



Ralph D. & Julie F. Artim,  
Tenants in Common

SEC. 5-T.36N.-R.9W.  
North Township  
Lake County

R:\\_14512\_10615\_1\Proj\Development\1\ROW\RWENG\CalculationDrawings\IN2003.05.34.2.RW.17.dwg - Roy Lee Plot.3/8/2011 7:56 AM Save.3/8/2011 7:55 AM

**LEGEND**

- (C) 6 in. PCCP for Driveways on  
6 in. Compacted Aggregate, No. 53 Base
- (F) Concrete Sidewalk, 4 in.
- (K) Full Depth QC/OA HMA Pavement (See Typical Sections)
- (N) 6" Compacted Aggregate for Surface, No. 53
- (15) Combined Concrete Curb & Gutter, "C"
- (F) Concrete Curb Ramp, Type "F"
- (H) Concrete Curb Ramp, Type "H"

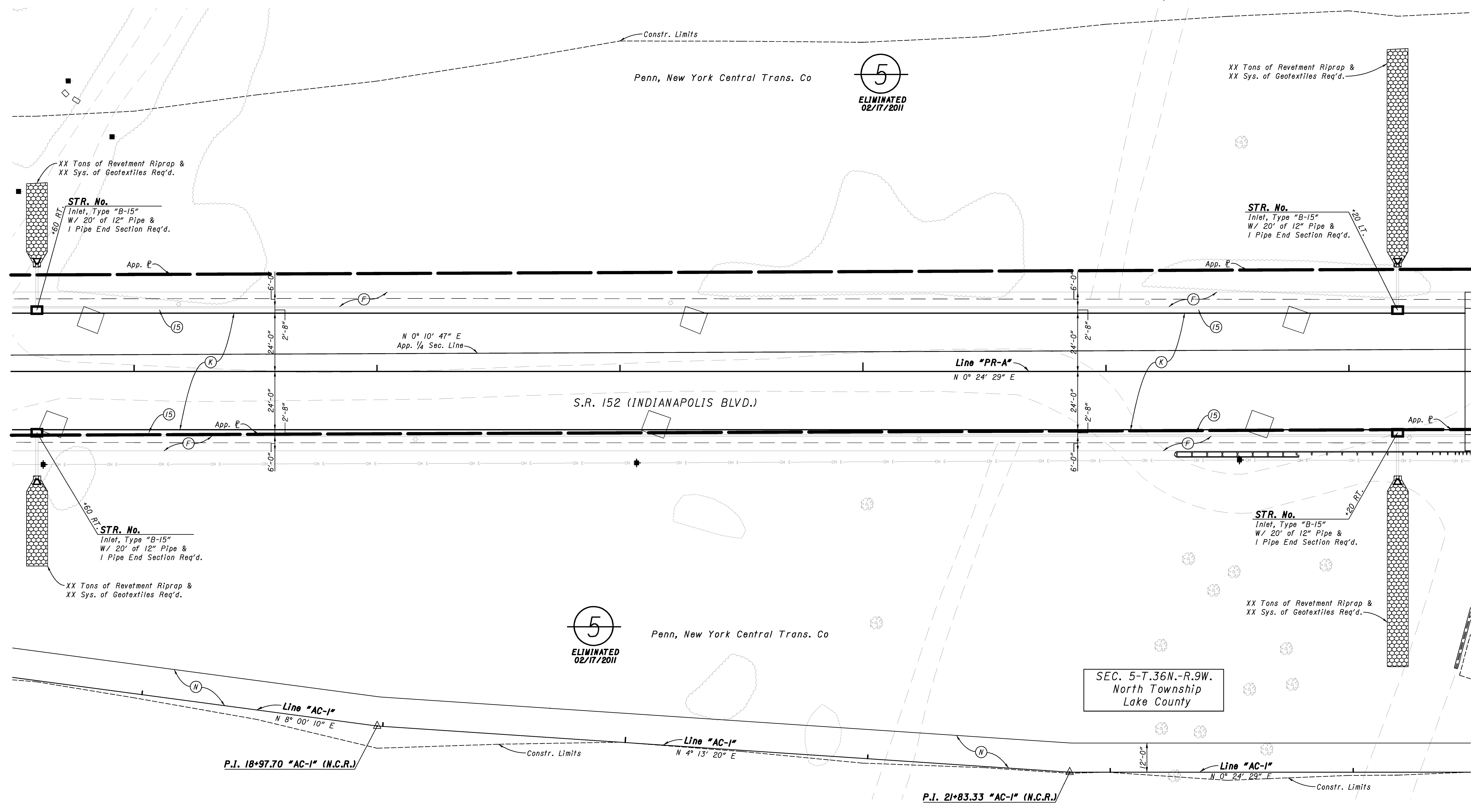
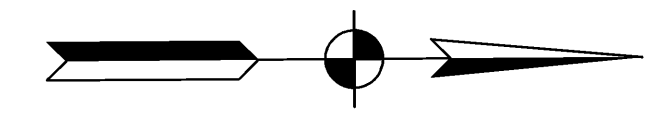
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED:	BNM/MJK	DRAWN:	BNM
CHECKED:	DAD/WSL	CHECKED:	DAD/WSL

<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>	
CONSTRUCTION DETAILS	
126+00 to 132+00 - LINE "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	16 of 23
CONTRACT	PROJECT NO.
	NH-N881 (008)



135



**LEGEND**

- (C) 6 in. PCCP for Driveways on  
6 in. Compacted Aggregate, No. 53 Base
- (F) Concrete Sidewalk, 4 in.
- (K) Full Depth QC/QA HMA Pavement (See Typical Sections)
- (N) 6" Compacted Aggregate for Surface, No. 53
- (15) Combined Concrete Curb & Gutter, "C"
- (F) Concrete Curb Ramp, Type "F"
- (H) Concrete Curb Ramp, Type "H"

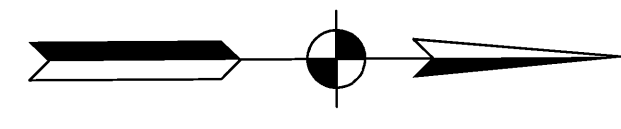
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED:	BNM/MJK	DRAWN:	BNM
CHECKED:	DAD/WSL	CHECKED:	DAD/WSL

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

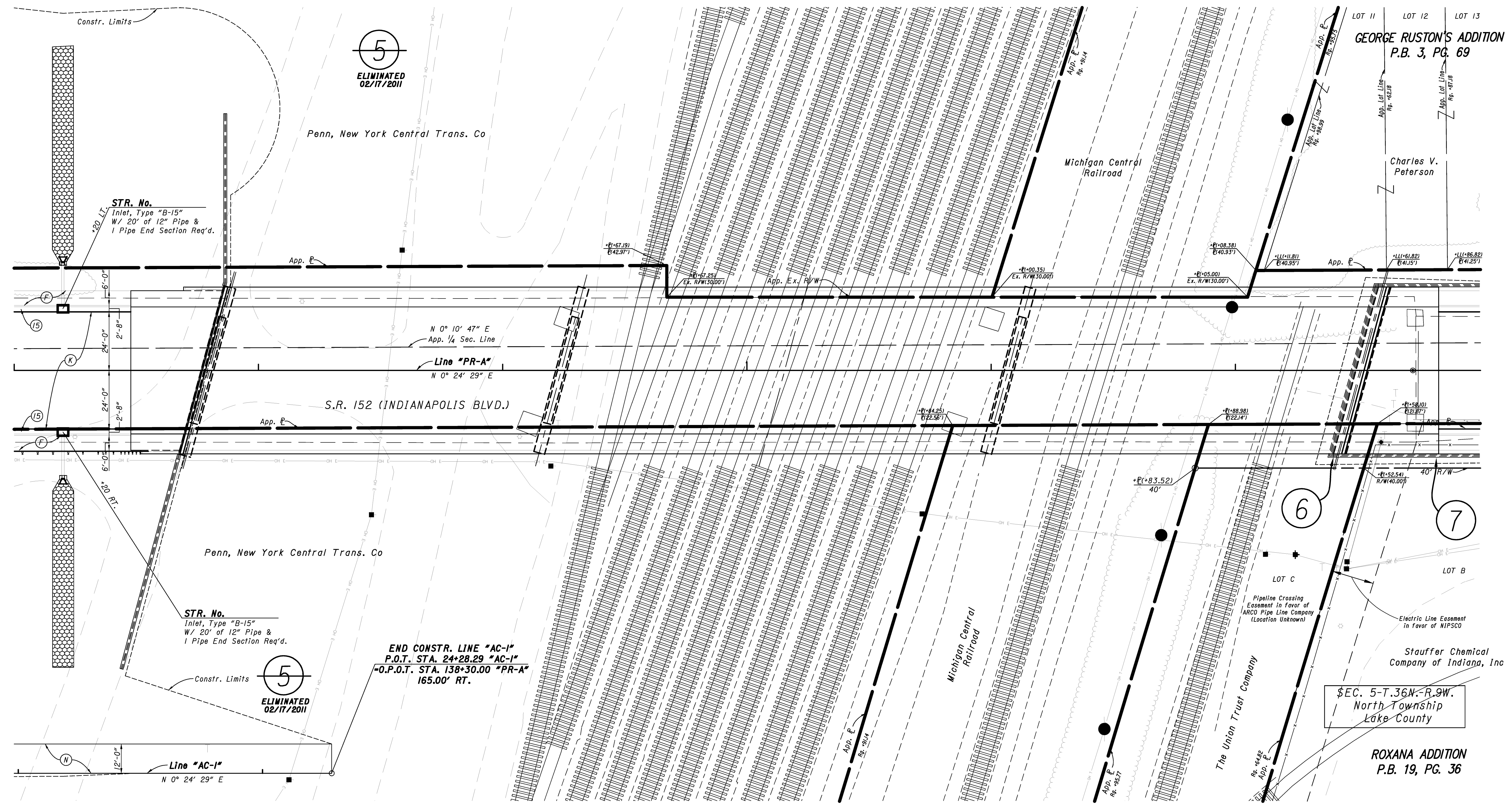
CONSTRUCTION DETAILS  
131+50 to 137+50 - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	17 of 23
CONTRACT	PROJECT NO.
	NH-N881 (008)

R: 14512 | 0615 | ProDevelopment | ROM | RMEVIG | CalculationDrawings | IN2003.0534.2 | RW:18.dwg | Craig Swearingen | Plot: 2/23/2011 10:38 AM | Save: 2/18/2011 11:32 AM



140



5  
ELIMINATED  
02/17/2011

5  
ELIMINATED  
02/17/2011

STR. No.  
Inlet, Type "B-15"  
W/ 20' of 12" Pipe &  
1 Pipe End Section Req'd.

STR. No.  
Inlet, Type "B-15"  
W/ 20' of 12" Pipe &  
1 Pipe End Section Req'd.

END CONSTR. LINE "AC-1"  
P.O.T. STA. 24+28.29 "AC-1"  
-O.P.O.T. STA. 138+30.00 "PR-A"  
165.00' RT.

**LEGEND**

- (C) 6 in. PCCP for Driveways on  
6 in. Compacted Aggregate, No. 53 Base
- (F) Concrete Sidewalk, 4 in.
- (K) Full Depth QC/QA HMA Pavement (See Typical Sections)
- (N) 6" Compacted Aggregate for Surface, No. 53
- (S) Combined Concrete Curb & Gutter, "C"
- (F) Concrete Curb Ramp, Type "F"
- (H) Concrete Curb Ramp, Type "H"

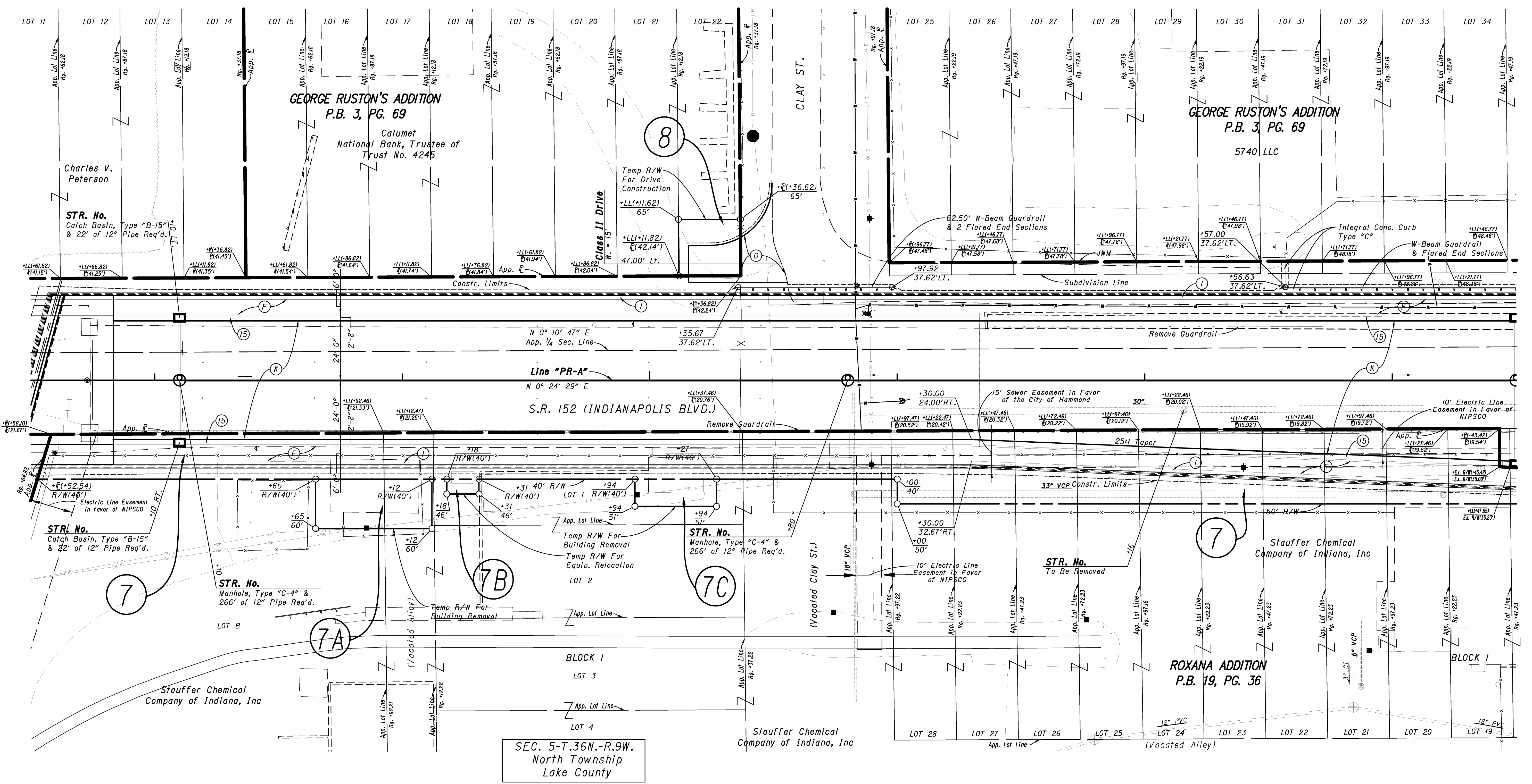
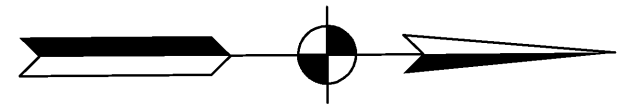
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED:	BNM/MJK	DRAWN:	BNM
CHECKED:	DAD/WSL	CHECKED:	DAD/WSL

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

CONSTRUCTION DETAILS  
137+00 to 143+00 - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	18 of 23
CONTRACT	PROJECT NO.
	NH-N881 (008)

R:\4512\0615\ProDevelopment\IOW\PMENGC\CalculationDrawings\IN2003\0534\_2\FW19.dwg    Craig Swearingen Plot: 2/23/2011 2:14 PM    Save: 2/23/2011 10:44 AM



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**LEGEND**

(D) 165 #/SYD. HMA Surface, Type A on 275 #/SYD. HMA Intermediate, Type A on 8 In. Compacted Aggregate Base, No. 53	(1) 3'-9" Concrete Bridge Railing
(F) Concrete Sidewalk, 4 in.	(15) Combined Concrete Curb & Gutter, "C"
(K) Full Depth QC/QA HMA Pavement (See Typical Sections)	(F) Concrete Curb Ramp, Type "F"
	(H) Concrete Curb Ramp, Type "H"

<b>RECOMMENDED FOR APPROVAL</b>	
DESIGNED: BNM/MJK	DRAWN: BNM
CHECKED: DAD/WSL	CHECKED: DAD/WSL

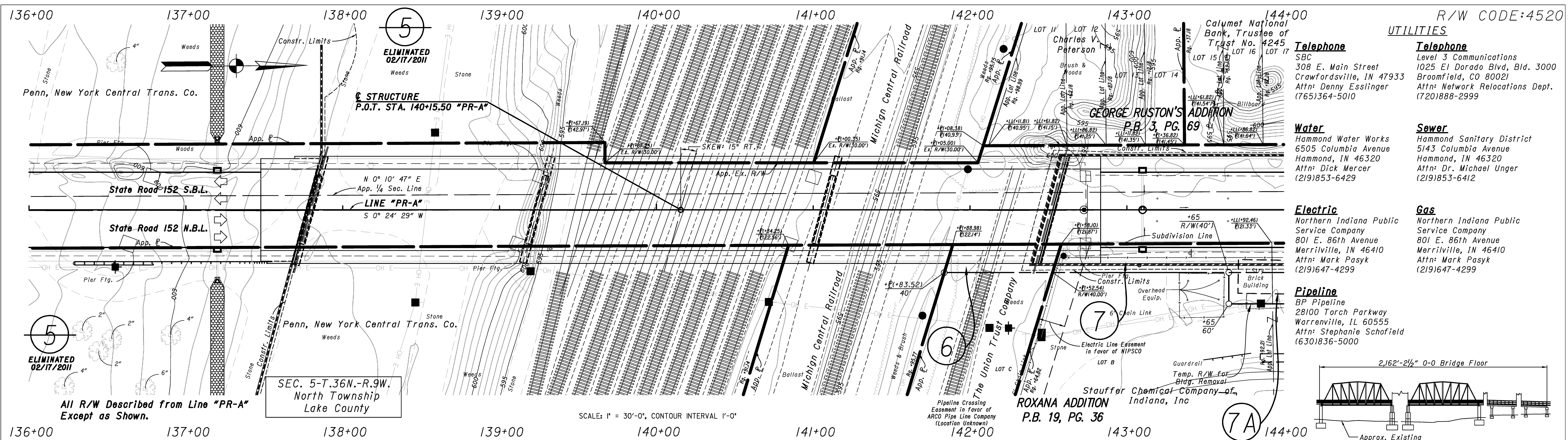
**INDIANA DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS

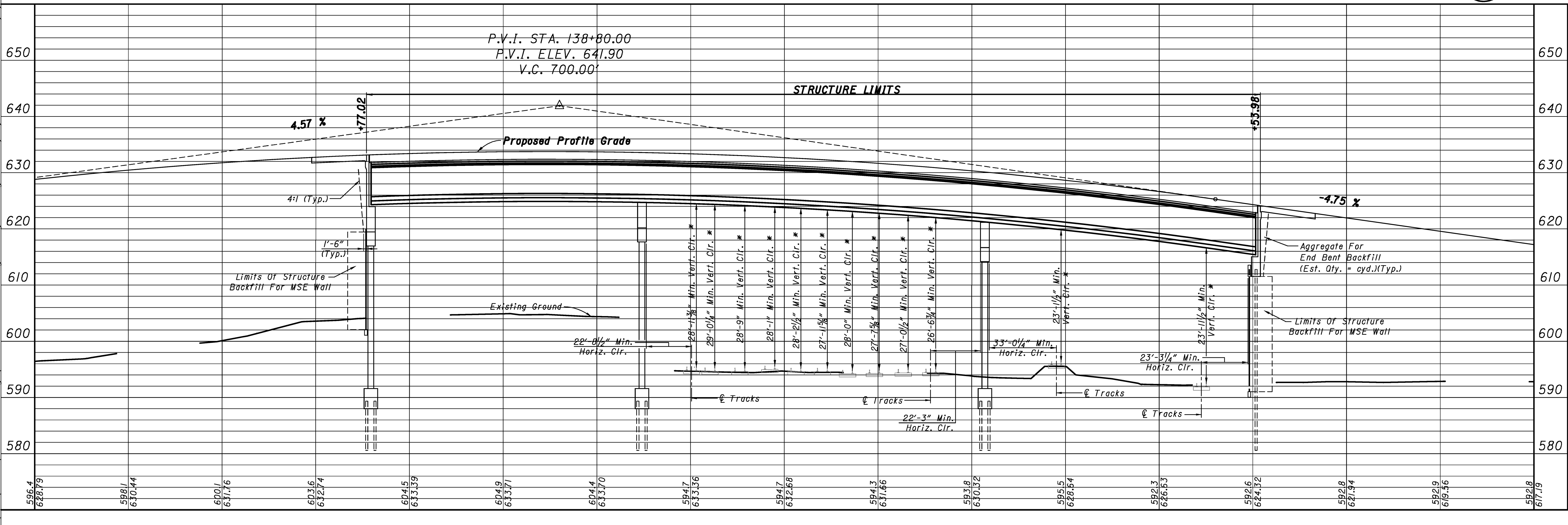
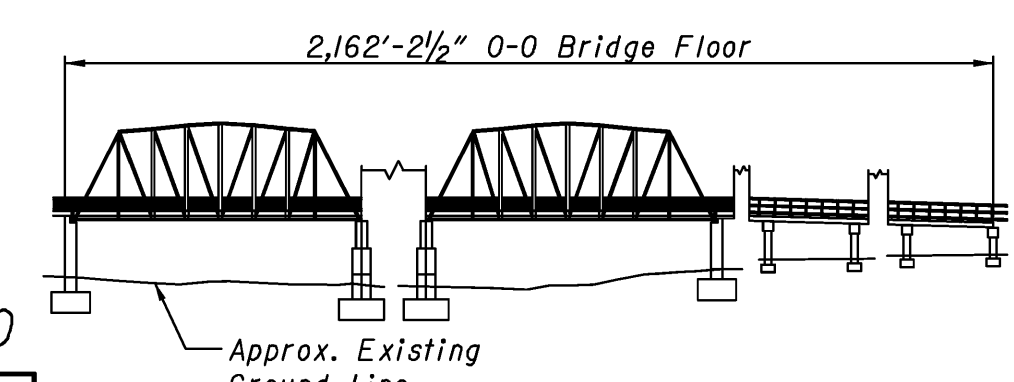
142+50 to 148+50 - LINE "PR-A"

<b>HORIZONTAL SCALE</b> 1" = 20'	<b>BRIDGE FILE</b> 152-45-02130
<b>VERTICAL SCALE</b>	<b>DESIGNATION NO.</b> 0014210
<b>SURVEY BOOK</b>	<b>SHEETS</b> 19 of 23
<b>CONTRACT</b>	<b>PROJECT NO.</b> NH-N881 (008)





- R/W CODE: 4520
- UTILITIES**
- Telephone**  
 Level 3 Communications  
 1025 El Dorado Blvd, Bld. 3000  
 Broomfield, CO 80021  
 Attn: Network Relocations Dept.  
 (720)888-2999
- Water**  
 Hammond Water Works  
 6505 Columbia Avenue  
 Hammond, IN 46320  
 Attn: Dick Mercer  
 (219)853-6429
- Sewer**  
 Hammond Sanitary District  
 5143 Columbia Avenue  
 Hammond, IN 46320  
 Attn: Dr. Michael Unger  
 (219)853-6412
- Electric**  
 Northern Indiana Public Service Company  
 801 E. 86th Avenue  
 Merrillville, IN 46410  
 Attn: Mark Pasyk  
 (219)647-4299
- Gas**  
 Northern Indiana Public Service Company  
 801 E. 86th Avenue  
 Merrillville, IN 46410  
 Attn: Mark Pasyk  
 (219)647-4299
- Pipeline**  
 BP Pipeline  
 28100 Torch Parkway  
 Warrenville, IL 60555  
 Attn: Stephanie Schofield  
 (630)836-5000



- EXISTING STRUCTURE**  
 NO SCALE
- EARTHWORK SUMMARY**
- |                   |   |      |
|-------------------|---|------|
| Fill +20%         | = | Cys. |
| Common Excavation | = | Cys. |
| Borrow (Waste)    | = | Cys. |

- NOTES:**
- \* All Vertical Clearance Points Are Actually 6' Right of  $\bar{C}$  Tracks. Shown on Track For Clarity.
  - All R/W on this sheet is described from Line "PR-A".
  - For Guardrail Limits and Side Ditch Grades, See Road Plan and Profile Sheet.
  - For Alignment References, Benchmarks and Topo References, See Road Plan & Profile Sheets.

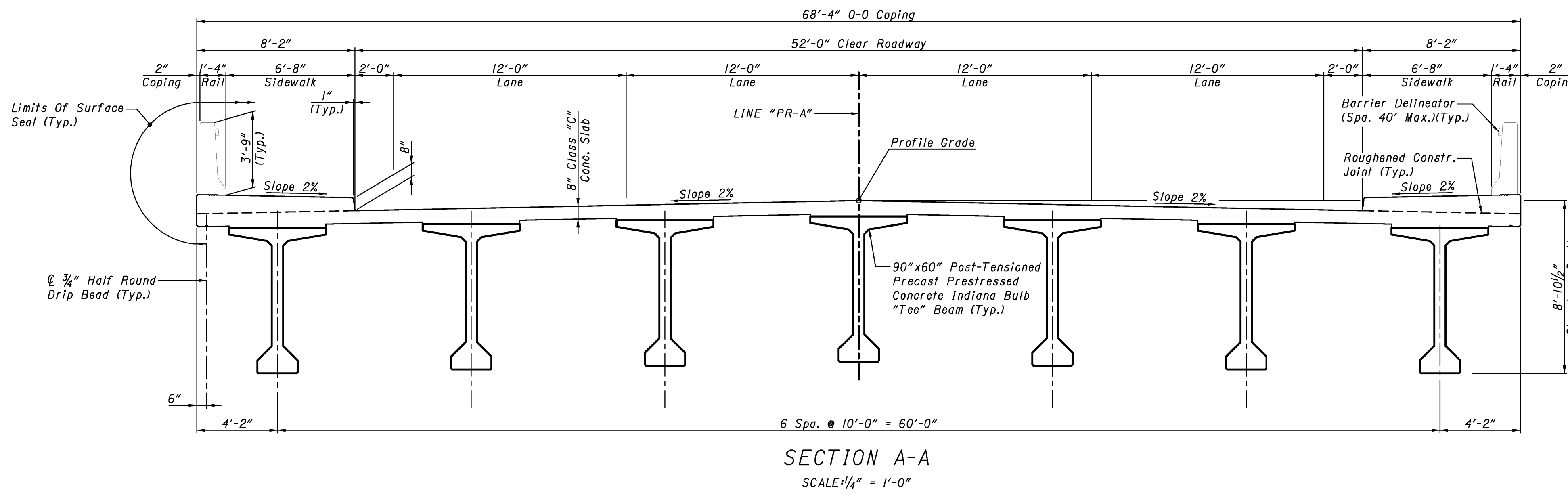
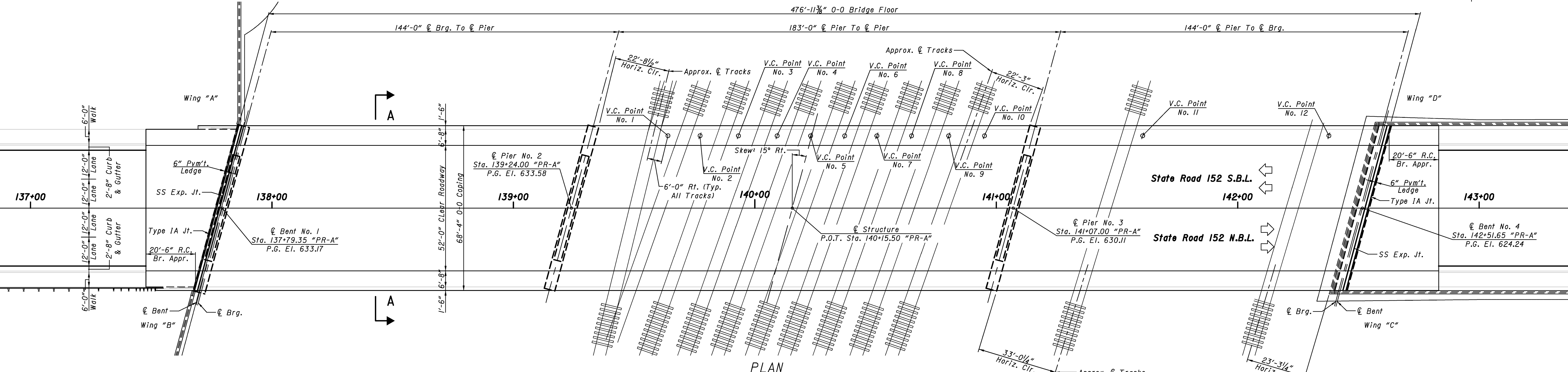
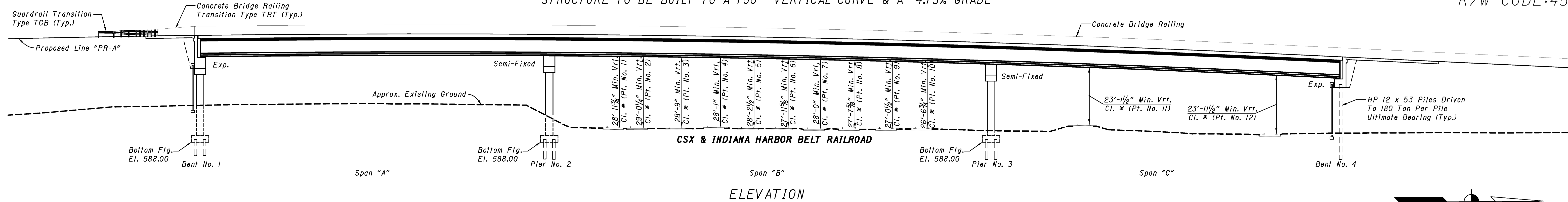
**POST - TENSIONED CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BULB TEE BEAM BRIDGE**  
**STATE ROAD 152 OVER CSX & INDIANA HARBOR BELT RAILROAD**  
 3 SPANS: 144'-0", 183'-0", 144'-0"  
 SKEW: 15° RT. 52'-0 CLEAR ROADWAY

SCALES: 1" = 30'-0" HORIZONTAL, 1" = 10'-0" VERTICAL

<b>RECOMMENDED FOR APPROVAL</b>	<b>DESIGN ENGINEER</b>	<b>DATE</b>	<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>
			<b>LAYOUT</b>
<b>DESIGNED:</b> MJK	<b>DRAWN:</b> BNM 2/18/05		
<b>CHECKED:</b> ELS	<b>CHECKED:</b> DAD		

<b>HORIZONTAL SCALE</b> AS NOTED	<b>BRIDGE FILE</b> 152-45-02130
<b>VERTICAL SCALE</b> AS NOTED	<b>DESIGNATION NO.</b> 0014210
<b>SURVEY BOOK</b>	<b>SHEETS</b>
	21 of 23
<b>CONTRACT</b>	<b>PROJECT NO.</b>
	NH-N881 (008)

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**NOTES:**

\* All Vertical Clearance Points Are Actually 6' Right of C/ Tracks. Shown on Track For Clarity.

**GENERAL NOTES**

Reinforcing steel covering to be 2 1/2" in the top and 1" min. in the bottom of floor slabs, 3" in the footings except the bottom steel which shall be 4", and 2" in all other parts, unless noted.

**DESIGN DATA**

**LIVE LOAD:** HS25-44 and military loading with impact and distribution of loads and sidewalk live load in accordance with 2002 AASHTO Specifications and Interim Specifications. Checked for Toll Road Loadings Shown on this sheet.

**DEAD LOAD:** Actual Weight plus 35 Lbs./Sft. for future wearing surface and 15 Lbs./Sft. for permanent metal deck forms.

**FLOOR SLAB:** Designed for 20,000 Lbs. wheel load impact with a structural depth of 6 1/2".

**UNIT STRESSES:** Reinforcing Steel, F<sub>y</sub> = 60,000 p.s.i.  
Concrete Class B, f'<sub>c</sub> = 3,000 psi  
Concrete Class A, f'<sub>c</sub> = 3,500 psi  
Concrete Class C, f'<sub>c</sub> = 4,000 psi

**ALLOWABLE STRESSES:** In accordance with 2002 AASHTO Specifications and Interim Specifications using Load Factor Design Method.

**POST - TENSIONED CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BULB TEE BEAM BRIDGE STATE ROAD 152 OVER CSX & INDIANA HARBOR BELT RAILROAD**

3 SPANS: 144'-0", 183'-0", 144'-0" SKEW: 15° RT. 52'-0 CLEAR ROADWAY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER		DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: MJK		DRAWN: BNM		1" = 20'-0", UNLESS NOTED	152-45-02730
CHECKED: DAD	CHECKED: DAD			GENERAL PLAN	VERTICAL SCALE	DESIGNATION NO.
					1" = 20'-0", UNLESS NOTED	0014210
					SURVEY BOOK	SHEETS
					22 of 23	
					CONTRACT	PROJECT NO.
						NH-N881 (008)

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