PROJECT	DESIGNATION
STP-194-1(018)	9611280
CONTRACT	
R-29694	

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS

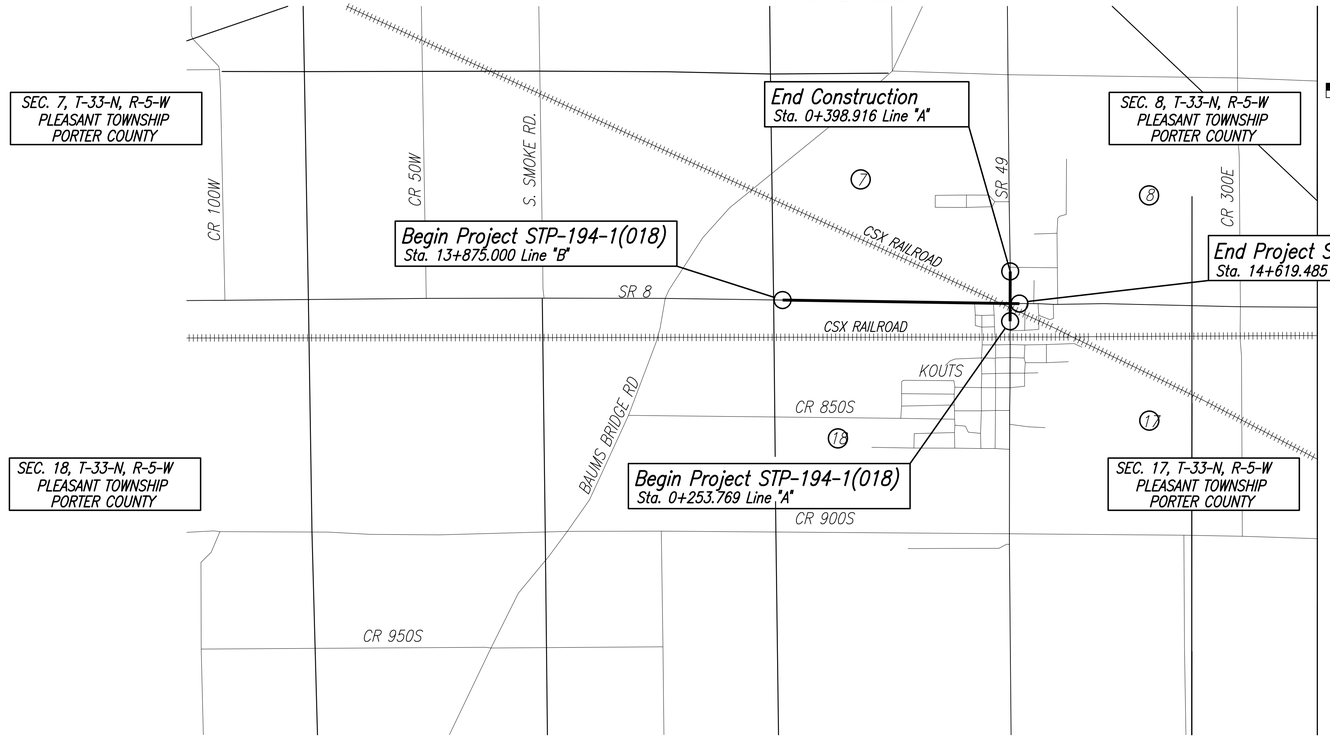
PROJECT NO. STP-194-1 (018) P.E.
STP-194-1 (018) R/W
STP-194-1 ( ) CONST.

ROADWAY AND INTERSECTION IMPROVEMENTS ON SR8 AND SR49 BEGINNING AT A POINT APPROXIMATELY 711M WEST OF THE INTERSECTION OF SR 49 & SR 8 SEC 18, T-33-N, R-5-W. ALL IN PLEASANT TOWNSHIP, PORTER COUNTY.
FROM REF PT. 8+62 TO PT. 9+08 SR-8
FROM REF PT. 20+37 TO PT. 20+46 SR-49

LONGITUDE: 87°01'33"W LATITUDE 41°19'06"N

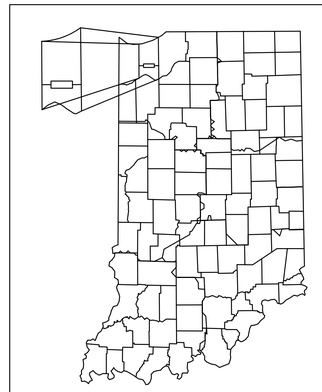
GROSS LENGTH: 0.889 KM
NET LENGTH: 0.889 KM
PLAN: LONG 1:500
TRANS 1:500
PROFILE: HORIZ:1:500
VERT:1:50
MAX GRADE: 0.79%

PORTER COUNTY



TRAFFIC DATA	S.R. 8	S.R. 49
A.A.D.T.(2005)	4,646 V.P.D.	8,630 V.P.D.
A.A.D.T.(2025)	5,566 V.P.D.	10,339 V.P.D.
D.H.V.(2025)	445 V.P.D.	930 V.P.D.
DIRECTIONAL DISTRIBUTION	50%	50%
TRUCKS	9 % D.H.V.	9 % D.H.V.
	12 % A.A.D.T.	10 % A.A.D.T.
DESIGN DATA		
DESIGN SPEED	70 km/h *	40 km/h I
	60 km/h **	60 km/h II
PROJECT DESIGN CRITERIA	3R NON (FREEWAY)	3R NON (FREEWAY)
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR	STATE COLLECTOR
RURAL/URBAN	URBAN	URBAN
TERRAIN	LEVEL	LEVEL
ACCESS CONTROL	NONE	NONE

* Sta. 13+875 to 14+586.052
** Sta. 14+586.052 to 14+619.485
I Sta. 0+253.769 to 0+304.800
II 0+304.800 to 0+398.916


PROJECT LOCATION SHOWN BY

Scale 1: 20,000

FINAL TRACINGS

FERUARY 2009

[INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2008 TO BE USED WITH THESE PLANS]

HERCEG
KEN HERCEG & ASSOCIATES, INC.
ENGINEERS, ARCHITECTS & LAND SURVEYORS
211 West Washington Street
Suite 2100
South Bend, Indiana 46601
Phone (219) 288-4580
Fax (219) 288-0195

KENNETH R HERCEG REGISTERED No. 15423 STATE OF INDIANA PROFESSIONAL ENGINEER

PLANS PREPARED BY: KEN HERCEG AND ASSOCIATES, INC. 574-288-4580 PHONE NUMBER

CERTIFIED BY: FEBRUARY 26, 2009 DATE

APPROVED FOR LETTING: FEBRUARY 26, 2009 DATE
CHIEF, DIVISION OF DESIGN

NITIN V. TIMBLE REGISTERED No. 10707587 STATE OF INDIANA PROFESSIONAL ENGINEER

Nitin V. Timble

DESIGNATION	9611280
SHEETS	1 of 67
CONTRACT	R-29694
PROJECT	STP-194-1(018)

UTILITIES

UTILITY	OWNER	ADDRESS
TELEPHONE	GTE Corp	8001 W. Jefferson Avenue Fort Wayne, Indiana 46801 219–461–2519
ELECTRIC	NIPSCO	P.O. Box 10033 Merriville, Indiana 46411 1–800–464–7726
CABLE TV	Mid America Cable	9320 W. 53rd Terrace Merriam, Kansas 66203 913–384–4988
PIPELINE	Buckeye Pipe Line Company	123 Pipeline Drive Griffith, Indiana 46319 219–924–4107
WATER	Kouts Utilities	210 S. Main Street Kouts, Indiana 46347 219–766–3312
SEWER	Kouts Utilities	210 S. Main Street Kouts, Indiana 46347 219–766–3312

REVISIONS

SHEET NO.	DATE	REVISED

R/W INDEX

SHEET NO.	DESIGNATION

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.
	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, treatment by removal, or treatment by displacement, where each treatment applies.
**	The contractor shall verify all post lengths and overhead sign structure lengths prior to any ordering of posts or sign structures.
**	Aluminum bar bracing (6 mm x 25 mm x length required) will be required on all square post mounted signs exceeding 1.5 m in length.
**	Post lengths are approximate. The contractor shall determine the post lengths required to assure that the signs are installed with the mounting height being in accordance with the Miscellaneous Traffic Standard Detail Sheets.
**	It is the contractor's responsibility to contact any and all utility companies within the limits of this project 3 weeks prior to any construction.
**	Unless otherwise noted in these plans, the contractor shall furnish and install all material required for the complete installation of the signs and sign supports.
**	All signing and lighting support design shall conform with the standard specifications for structural supports for highway signs, luminaries and traffic signals, latest edition.
**	For salvageable items, see the special provisions.
**	No sign shall be removed until the proposed sign has been installed. The contractor shall remove the existing sign within two (2) working days after the proposed sign has been installed.
**	All salvageable items shall become the property of the Contractor and their salvageable value shall be reflected in the unit cost of various items within this contract.
**	This set plans shall not be construed to be a property retractment survey. Where apparent property lines, corners, subdivision or section corner information is shown, it is based on physical evidence or testimony.
**	Sheet Signs and Posts shall not be ordered until the exact number of signs and length of each post has been determined upon field investigation.
**	All signs shall be marked for identification. The Marking Material shall be either ScotchLite, Seibulite, Reflexite or approved equal. The identifying message shall consist of INDOT and the Month and Year the sign is installed. The Message Copy shall consist of White or Black Lettering (of a minimum of 25 mm in height.) on Black or White Background respectively. The Marking for Sheet signs shall be placed in the lower corner closest to the center line of the road. The Marking for Panel Signs shall be placed on the bottom panel on the end closest to the center line of the roadway. The Marking shall not be covered by the Sign's support after installation of the Sign.
**	Exit direction sign and stop sign shall not be removed until the new one is at the job site and ready to install. These two signs shall be seen by travel motorist at all times. At least one advance guide sign is required in advance of the exit point.
**	All design shall be in accordance with the Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals, latest edition.

** REPRESENTS GENERAL NOTES REQUIRED

INDEX

SHEET NO.	DESIGNATION		
1	TITLE SHEET		
2	INDEX AND GENERAL NOTES		
3–4	TYPICAL SECTIONS		
5	PLAT NO. 1		
6–14	MAINTENANCE OF TRAFFIC		
15–19	PLAN AND PROFILE		
20–27	CONSTRUCTION DETAILS		
28	INTERSECTION DETAIL SHEET		
29	OUTFALL PLAN		
30–32	EROSION CONTROL PLANS		
33	INTERSECTION SIGNAL PLAN		
34–35	PAVEMENT MARKINGS & SIGNAGE		
36	SIGN DETAILS		
37	SIGN SUMMARY SHEET		
38	APPROACH TABLE		
39–40	STRUCTURE DATA SHEET		
41	PIPE MATERIAL TABLE		
42	MISCELLANEOUS TABLES		
43–63	CROSS SECTIONS – LINE "B"		
64–67	CROSS SECTIONS – LINE "A"		

HERCEG
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Fax (219) 288-0195

BRIAN W.W. THOMASEN
REGISTERED
No. 10707971
STATE OF INDIANA
PROFESSIONAL ENGINEER

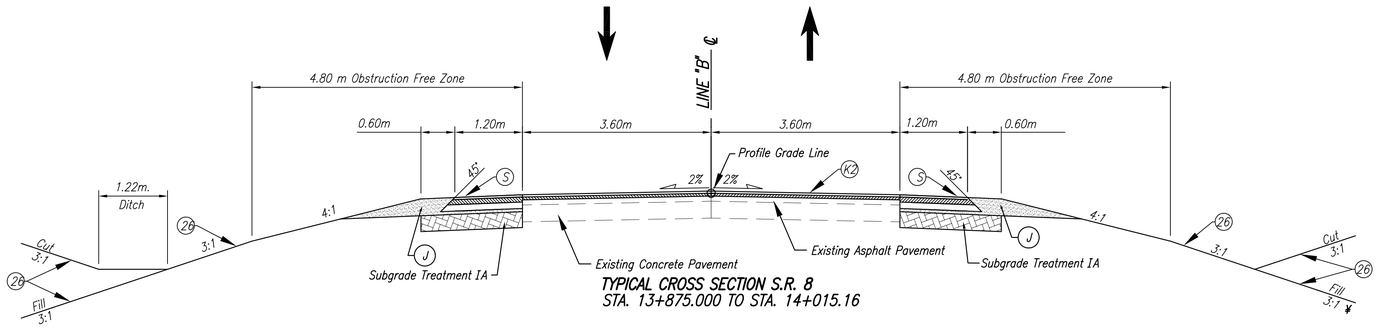
RECOMMENDED FOR APPROVAL Brian W.W. Thomasen 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA
DEPARTMENT OF TRANSPORTATION

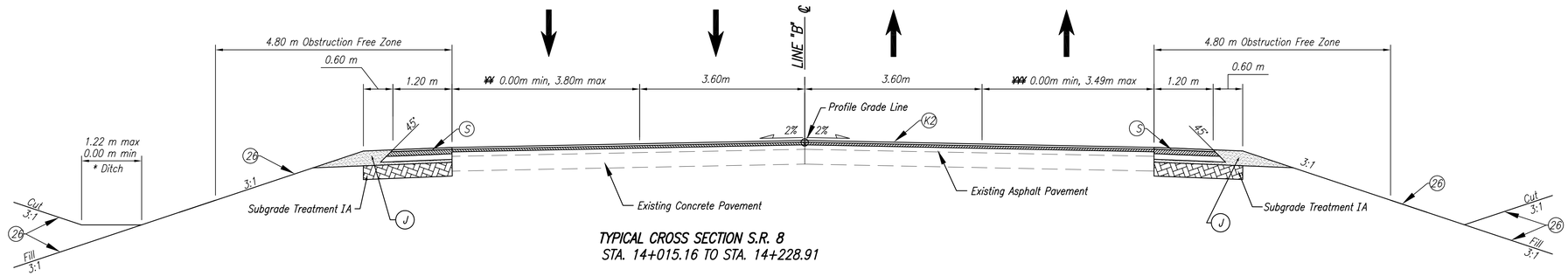
INDEX & GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	9611280
SURVEY BOOK	SHEETS
	02 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)



TYPICAL CROSS SECTION S.R. 8
STA. 13+875.000 TO STA. 14+015.16

¥ *From Station 13+875.000 To 13+941.00, 20:1 Slope Applies To Provide Cover Over Pipe.*

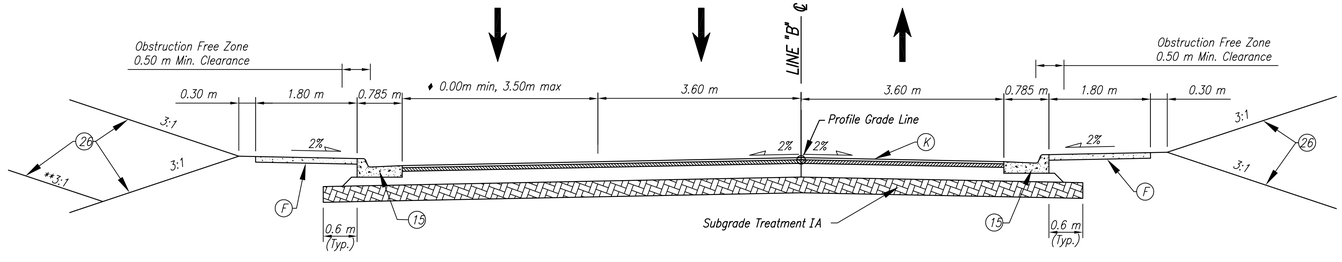


TYPICAL CROSS SECTION S.R. 8
STA. 14+015.16 TO STA. 14+228.91

¥¥ *0.00 m, Sta. 14+015.16 To Sta. 14+037.30*
Varies from 0.00 m To 2.90 m , Sta. 14+037.30 To Sta. 14+058.67
Varies from 2.90 m To 3.80 m, Sta. 14+058.67 To Sta. 14+071.94
Varies from 3.80 m To 3.50 m, Sta. 14+071.94 To Sta. 14+091.98
3.50 m, Sta. 14+091.98 To Sta. 14+228.91

¥¥¥ *Varies from 0.00 m To 3.49m, Sta. 14+015.16 To Sta. 14+037.51*
3.49 m, Sta. 14+037.51 To Sta. 14+179.46
Varies from 3.49 m To 2.14 m, Sta. 14+179.46 To Sta. 14+208.18
Varies from 2.14 m To 0.00 m, Sta. 14+208.18 To Sta. 14+228.91

* *1.22 m, Sta. 14+015.16 To Sta, 14+220.00*
Varies from 1.22 m To 0.00 m, Sta. 14+220.00 To Sta. 14+228.91



TYPICAL CROSS SECTION S.R. 8
STA. 14+228.91 TO STA. 14+491.82

♦ *Varies from 3.50 m To 0.00 m, Sta. 14+228.91 To Sta. 14+248.16*
0.0m from Sta. 14+248.16 To Sta. 14+491.82

** *V-Ditch From 14+228.91 To 14+248.16*

(26) *Sodding*

(A) *250 mm PCCP*
Dense Graded Subbase
Subgrade Treatment (Type IA)

(F) *Sidewalk, Concrete, 100 mm*

(K) *90 kg/m² QC/QA-HMA, 3, 76, Surface 9.5mm, on*
150 kg/m² QC/QA-HMA, 3, 76, Intermediate 19.0 mm, on
480 kg/m² QC/QA-HMA, 3, 64, Base 25.0 mm, on
Subgrade Treatment (Type IA)

(K2) *Mill & Overlay*
Mill Existing Pavement 25 mm
Overlay 90 kg/m²QC/QA-HMA,3,76, Surface 9.5 mm
On Variable Depth QC/QA-HMA,3,76,19.0 mm, Intermediate (25 mm min.)

(15) *Combined Concrete Curb & Gutter*

FOR SHOULDERS USE:

(S) *90 kg/m² QC/QA-HMA, 3, 76, Surface 9.5mm, on*
210 kg/m² QC/QA-HMA, 3, 76, Intermediate 19.0 mm, on
270 kg/m² QC/QA-HMA, 3, 64, Base 25.0 mm, on
62.5 mm No. 53 Aggregate, Base
Subgrade Treatment (Type IA)

(J) *300 mm No. 53 Compacted Aggregate Base, on*
Subgrade Treatment (Type IA)

FOR DRIVEWAY USE:

(C) *150 mm PCCP, On*
Subgrade Treatment Type IIIA

(D) *90 kg/m² HMA Surface Type B*
150 kg/m² HMA Intermediate Type B
480 kg/m² HMA Base Type B
Subgrage Treatment Type IIIA

(G) *150 mm Compacted Aggregate, No. 53, Base*

(I) *150mm HMA For Approaches, Type B, On*
Subgrade Treatment Type IIIA

(N) *225 mm PCCP, On*
Subgrade Treatment Type IIIA

(P) *150 mm PCCP, For Approaches*

(Q) *90 kg/m² HMA Surface Type B*
210 kg/m² HMA Intermediate Type B
Subgrade Treatment Type IIIA

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CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
2:1	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
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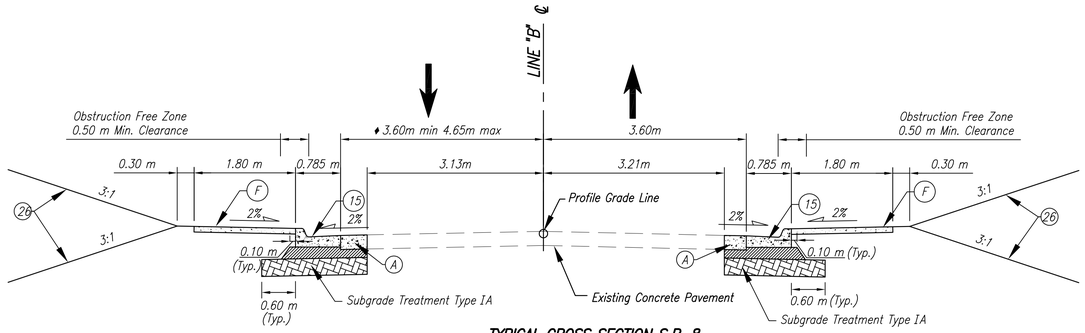
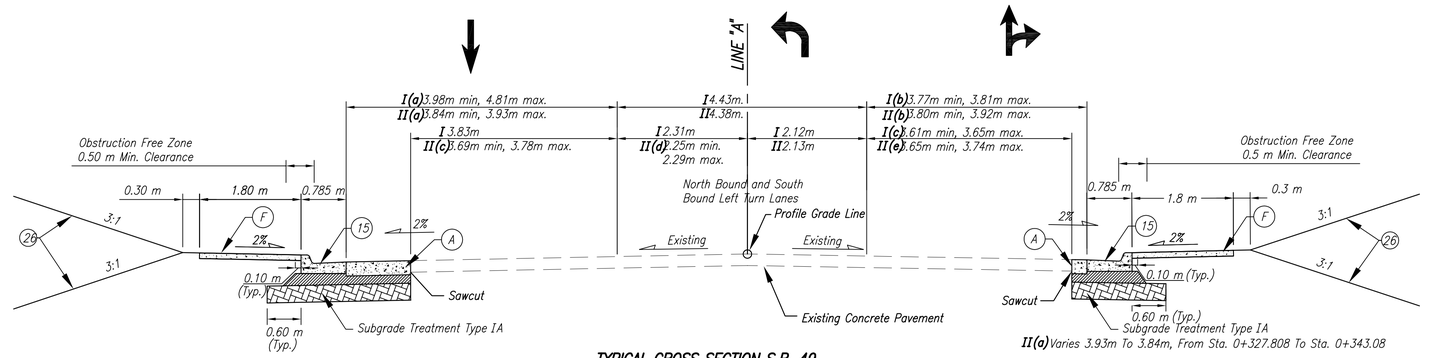
CONTRACT	PROJECT
R-29694	STP-194-1(108)



♦ Varies from 3.60 m to 4.65 m, From Sta. 14+545.06 to Sta. 14+560.832

TYPICAL CROSS SECTION S.R. 8
STA. 14+491.82 TO STA. 14+560.832

Note: See Intersection detail sheet for construction from Sta. 14+560.832 to 14+619.485.



TYPICAL CROSS SECTION S.R. 49
I STA. 0+253.769 TO STA. 0+280.581
II STA. 0+327.808 TO STA. 0+343.08

Note: See Intersection detail sheet for construction from Sta. 0+280.581 to 0+327.808. See detail sheets for station and offsets.

I(a) 3.98m From Sta. 0+260.68 To Sta. 0+266.05
Varies 3.98m To 4.81m, From Sta. 0+266.05 To Sta. 0+280.581

I(b) Varies 3.81m To 3.77m, From Sta. 0+253.769 To Sta. 0+280.581

I(c) Varies 3.64m To 3.61m, From Sta. 0+253.769 To Sta. 0+280.581

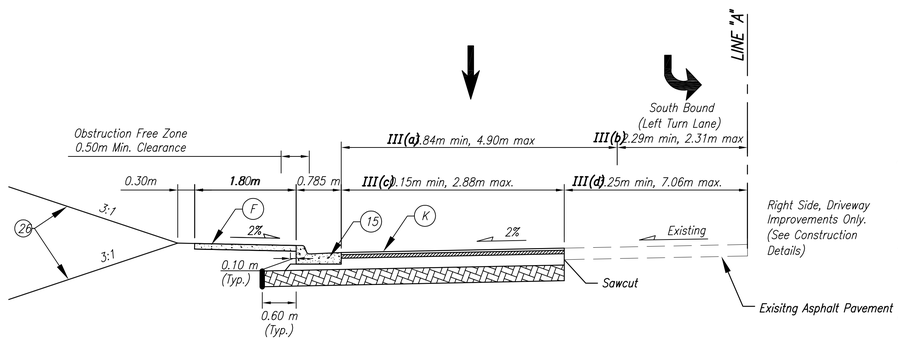
II(a) Varies 3.93m To 3.84m, From Sta. 0+327.808 To Sta. 0+343.08

II(b) Varies 3.90m To 3.92m, From Sta. 0+327.808 To Sta. 0+337.40
Varies 3.92m To 3.81m, From Sta. 0+337.40 To Sta. 0+343.03

II(c) Varies 3.78m To 3.69m, From Sta. 0+327.808 To Sta. 0+343.08

II(d) Varies 2.25m To 2.29m, From Sta. 0+327.808 To Sta. 0+343.08

II(e) Varies 3.74m To 3.65m, From Sta. 0+327.808 To Sta. 0+343.03



Right Side, Driveway Improvements Only. (See Construction Details)

TYPICAL CROSS SECTION S.R. 49
III STA. 0+343.08 TO STA. 0+398.916

III(a) Varies 3.84m To 3.96m, From Sta. 0+343.08 To Sta. 0+380.88
Varies 3.96m To 4.21m, From Sta. 0+380.88 To Sta. 0+386.13
Varies 4.21m To 4.90m, From Sta. 0+386.13 To Sta. 0+398.916

III(b) Varies 2.29m To 2.31m, From Sta. 0+343.08 To Sta. 0+398.916

III(c) Varies 0.15m To 2.88m, From Sta. 0+343.08 To Sta. 0+343.08
2.88m From Sta. 0+343.08 To Sta. 0+380.88
Varies 2.88m To 0.16m, From Sta. 0+380.88 To Sta. 0+380.88
Varies 0.16m To 0.15m, From Sta. 0+380.88 To Sta. 0+398.916

III(d) Varies 5.98m To 3.25m, From Sta. 0+343.08 To Sta. 0+343.08
3.25m, From Sta. 0+343.08 To Sta. 0+380.88
Varies 3.25m To 6.10m, From Sta. 0+380.88 To Sta. 0+380.88
Varies 6.10m To 7.06m, From Sta. 0+380.88 To Sta. 0+398.916

(26) Sodding

(A) 250 mm PCCP
Dense Graded Subbase
Subgrade Treatment (Type IA)

(F) Sidewalk, Concrete, 100 mm

(K) 90 kg/m² QC/QA-HMA, 3, 76, Surface 9.5mm, on
150 kg/m² QC/QA-HMA, 3, 76, Intermediate 19.0 mm, on
480 kg/m² QC/QA-HMA, 3, 64, Base 25.0 mm, on
Subgrade Treatment (Type IA)

(K2) Mill & Overlay
Mill Existing Pavement 25 mm
Overlay 90 kg/m²QC/QA-HMA,3,76, Surface 9.5 mm
On Variable Depth QC/QA-HMA,3,76,19.0 mm, Intermediate (25 mm min.)

(15) Combined Concrete Curb & Gutter

FOR SHOULDERS USE:

(S) 90 kg/m² QC/QA-HMA, 3, 76, Surface 9.5mm, on
210 kg/m² QC/QA-HMA, 3, 76, Intermediate 19.0 mm, on
270 kg/m² QC/QA-HMA, 3, 64, Base 25.0 mm, on
62.5 mm No. 53 Aggregate, Base
Subgrade Treatment (Type IA)

(J) 300 mm No. 53 Compacted Aggregate Base, on
Subgrade Treatment (Type IA)

FOR DRIVEWAY USE:

(C) 150 mm PCCP, On
Subgrade Treatment Type IIIA

(D) 90 kg/m² HMA Surface Type B
150 kg/m² HMA Intermediate Type B
480 kg/m² HMA Base Type B
Subgrage Treatment Type IIIA

(G) 150 mm Compacted Aggregate, No. 53, Base

(I) 150mm HMA For Approaches, Type B, On
Subgrade Treatment Type IIIA

(N) 225 mm PCCP, On
Subgrade Treatment Type IIIA

(P) 150 mm PCCP, For Approaches

(Q) 90 kg/m² HMA Surface Type B
210 kg/m² HMA Intermediate Type B
Subgrade Treatment Type IIIA

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DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
2:1	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	04 of 67
CONTRACT	PROJECT
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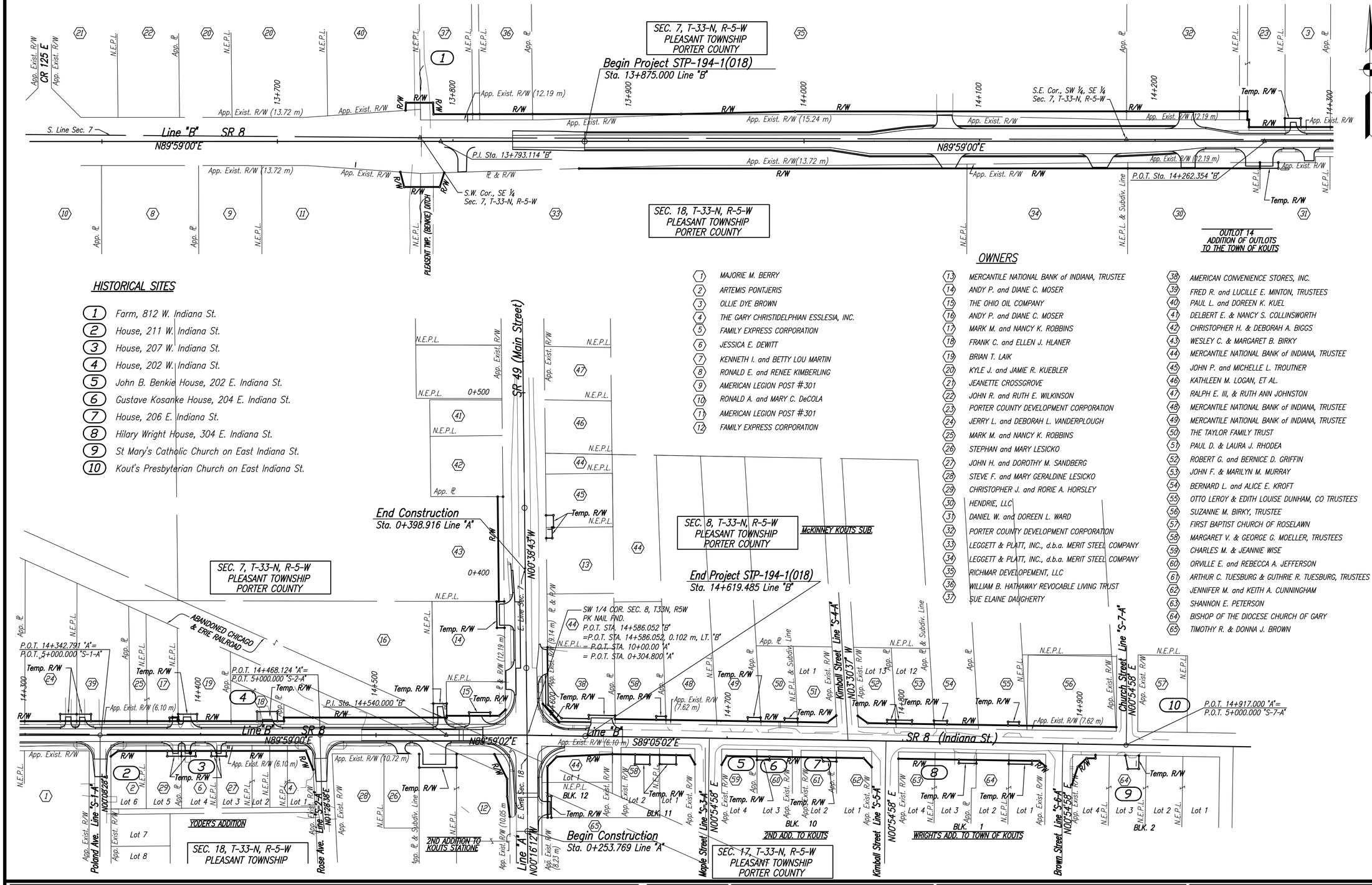

HISTORICAL SITES

1. Farm, 812 W. Indiana St.
2. House, 211 W. Indiana St.
3. House, 207 W. Indiana St.
4. House, 202 W. Indiana St.
5. John B. Benkie House, 202 E. Indiana St.
6. Gustave Kosanke House, 204 E. Indiana St.
7. House, 206 E. Indiana St.
8. Hilary Wright House, 304 E. Indiana St.
9. St Mary's Catholic Church on East Indiana St.
10. Kout's Presbyterian Church on East Indiana St.

OWNERS

1. MAJORIE M. BERRY
2. ARTEMIS PONTJERIS
3. OLLIE DYE BROWN
4. THE GARY CHRISTIDELPHIAN ESSLESIA, INC.
5. FAMILY EXPRESS CORPORATION
6. JESSICA E. DEWITT
7. KENNETH I. and BETTY LOU MARTIN
8. RONALD E. and RENEE KIMBERLING
9. AMERICAN LEGION POST #301
10. RONALD A. and MARY C. DeCOLA
11. AMERICAN LEGION POST #301
12. FAMILY EXPRESS CORPORATION
13. MERCANTILE NATIONAL BANK of INDIANA, TRUSTEE
14. ANDY P. and DIANE C. MOSER
15. THE OHIO OIL COMPANY
16. ANDY P. and DIANE C. MOSER
17. MARK M. and NANCY K. ROBBINS
18. FRANK C. and ELLEN J. HLANER
19. BRIAN T. LAIK
20. KYLE J. and JAMIE R. KUEBLER
21. JEANETTE CROSSGROVE
22. JOHN R. and RUTH E. WILKINSON
23. PORTER COUNTY DEVELOPMENT CORPORATION
24. JERRY L. and DEBORAH L. VANDERPLOUGH
25. MARK M. and NANCY K. ROBBINS
26. STEPHAN and MARY LESICKO
27. JOHN H. and DOROTHY M. SANDBERG
28. STEVE F. and MARY GERALDINE LESICKO
29. CHRISTOPHER J. and RORIE A. HORSLEY
30. HENDRIE, LLC
31. DANIEL W. and DOREEN L. WARD
32. PORTER COUNTY DEVELOPMENT CORPORATION
33. LEGGETT & PLATT, INC., d.b.a. MERIT STEEL COMPANY
34. LEGGETT & PLATT, INC., d.b.a. MERIT STEEL COMPANY
35. RICHMAR DEVELOPEMENT, LLC
36. WILLIAM B. HATHAWAY REVOCABLE LIVING TRUST
37. SUE ELAINE DAUGHERTY
38. AMERICAN CONVENIENCE STORES, INC.
39. FRED R. and LUCILLE E. MINTON, TRUSTEES
40. PAUL L. and DOREEN K. KUEL
41. DELBERT E. & NANCY S. COLLINSWORTH
42. CHRISTOPHER H. & DEBORAH A. BIGGS
43. WESLEY C. & MARGARET B. BIRKY
44. MERCANTILE NATIONAL BANK of INDIANA, TRUSTEE
45. JOHN P. and MICHELLE L. TROUTNER
46. KATHLEEN M. LOGAN, ET AL.
47. RALPH E. III, & RUTH ANN JOHNSTON
48. MERCANTILE NATIONAL BANK of INDIANA, TRUSTEE
49. MERCANTILE NATIONAL BANK of INDIANA, TRUSTEE
50. THE TAYLOR FAMILY TRUST
51. PAUL D. & LAURA J. RHODEA
52. ROBERT G. and BERNICE D. GRIFFIN
53. JOHN F. & MARILYN M. MURRAY
54. BERNARD L. and ALICE E. KROFT
55. OTTO LEROY & EDITH LOUISE DUNHAM, CO TRUSTEES
56. SUZANNE M. BIRKY, TRUSTEE
57. FIRST BAPTIST CHURCH OF ROSELAWN
58. MARGARET V. & GEORGE G. MOELLER, TRUSTEES
59. CHARLES M. & JEANNIE WISE
60. ORVILLE E. and REBECCA A. JEFFERSON
61. ARTHUR C. TUESBURG & GUTHRIE R. TUESBURG, TRUSTEES
62. JENNIFER M. and KEITH A. CUNNINGHAM
63. SHANNON E. PETERSON
64. BISHOP OF THE DIOCESE CHURCH OF GARY
65. TIMOTHY R. & DONNA J. BROWN

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Fax (219) 288-0195

WILLIAM V. TIMBLE
REGISTERED
No. 20600013
STATE OF INDIANA
LAND SURVEYOR

RECOMMENDED FOR APPROVAL: William V. Timble — 02/26/2009
DESIGN ENGINEER — DATE

DESIGNED: B.W.T. | DRAWN: J.H.
CHECKED: N.V.T. | CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1:1000	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	05 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)

PHASE I

WORK AREA

SR 8
CONSTRUCTION OF SR8 FROM PROJECT BEGINNING TO SR49 AS SHOWN IN MAINTENANCE OF TRAFFIC PLANS, PHASE I PARTS 'A' AND 'B'.
LOCAL ONE LANE TWO WAY TRAFFIC SHALL BE MAINTAINED WITH FLAGGERS AND TEMPORARY PAVEMENT DURING CONSTRUCTION WORK HOURS. DURING NON-CONSTRUCTION HOURS LOCAL TWO LANE TWO WAY TRAFFIC WILL BE MAINTAINED WITH ILLUMINATED SIGNS, TEMPORARY PAVEMENT AND TRENCH BACKFILL.
OFFICIAL DETOUR SHALL BE IN EFFECT.

SR 49
RECONSTRUCTION OF WEST PAVEMENT WHILE ALLOWING TWO LANE TWO WAY TRAFFIC ON THE EXISTING EAST PAVEMENT WITHIN PROJECT LIMITS.

SUGGESTED CONSTRUCTION WORK

SR 8
STORM WATER POLLUTION PREVENTION.
TEMPORARY PAVEMENT.
EXISTING PAVEMENT REMOVAL.
UTILITY COORDINATION / RELOCATION.
NEW STORM SEWER, LATERALS, AND INLETS.
GRADING OPERATION AND SUBGRADE IMPROVEMENT.
NEW PAVEMENT, SHOULDER SECTIONS, CURB AND GUTTER, AND SIDEWALK.
SIGNAL WORK.

SR 49
STORM WATER POLLUTION PREVENTION.
EXISTING PAVEMENT REMOVAL AS PER PLANS.
UTILITY COORDINATION / RELOCATION.
NEW STORM SEWER, LATERALS, AND INLETS.
GRADING OPERATION AND SUBGRADE IMPROVEMENT.
NEW PAVEMENT, SHOULDER SECTIONS, CURB AND GUTTER, AND SIDEWALK.

PHASE II

WORK AREA

SR 8
CONSTRUCTION OF SR8 FROM SR49 TO PROJECT END AS SHOWN IN MAINTENANCE OF TRAFFIC PLANS, PHASE II PARTS 'A' AND 'B'.
TWO LANE TWO WAY TRAFFIC MAINTAINED WITH BARRELS ON SR-49 AND SR-8.
OFFICIAL DETOUR SHALL BE IN EFFECT.

SR 49
RECONSTRUCTION OF EAST PAVEMENT WHILE ALLOWING TWO LANE TWO WAY TRAFFIC ON THE RECONSTRUCTED WEST PAVEMENT WITHIN PROJECT LIMITS.

SUGGESTED CONSTRUCTION WORK

SR 8
STORM WATER POLLUTION PREVENTION.
EXISTING PAVEMENT REMOVAL.
UTILITY COORDINATION / RELOCATION.
GRADING OPERATION AND SUBGRADE IMPROVEMENT.
NEW PAVEMENT, SHOULDER SECTIONS, CURB AND GUTTER, AND SIDEWALK.

SR 49
STORM WATER POLLUTION PREVENTION.
EXISTING PAVEMENT REMOVAL.
UTILITY COORDINATION / RELOCATION.
GRADING OPERATION AND SUBGRADE IMPROVEMENT.
NEW PAVEMENT, SHOULDER SECTIONS, CURB AND GUTTER, AND SIDEWALK.

MAINTENANCE OF TRAFFIC

CONSTRUCTION SIGNS

SIGN CODE	mm	x mm	AREA m^2	QTY	TYPE
XG20-1	1500	900	1.35	4	A
XG20-2	1500	600	0.9	6	A
XG20-7a	1500	1000	1.5	4	A
R2-1	600	750	0.45	4	B
R11-3	1500	750	1.125	4	A
R11-3a	1500	750	1.125	1	A
M4-10(L)	1200	450	0.54	1	B
M4-10(R)	1200	450	0.54	1	B
W16-2a	600	300	0.18	2	B
XW20-1	1200	1200	1.44	4	A
XW21-4(1000)	1200	1200	1.44	6	A
XW20-2	1200	1200	1.44	5	A
XW20-7	1200	1200	1.44	2	A
XW20-4	1200	1200	1.44	2	A
E	762	762	0.580644	3	D
W	762	762	0.580644	3	D
M1-16	600	600	0.36	3	B
			TOTAL TYPE A =	44	
			TOTAL TYPE B =	11	

DETOUR ROUTE MARKER ASSEMBLY

NO.	SIGN #1	SIGN #2	SIGN #3	SIGN #4	QTY
A	M4-8	M1-I6	M5-1(LorR)S		8
B	M4-8	M1-I6	M6-1S		6
C	M4-8	M1-I6	M6-3S		41
D	M4-8	M1-I6	M5-1(LorR)S		2
				TOTAL =	57

TYPE III-A BARRICADES

STATION	LENGTH (m)
13+834 LINE "B"	3.6
14+070 LINE "B"	10.8
14+071 LINE "B"	3.6
14+092 LINE "B"	3.6
14+094 LINE "B"	10.8
14+338 LINE "B"	3.6
14+347 LINE "B"	3.6
14+464 LINE "B"	3.6
14+472 LINE "B"	3.6
TOTAL =	46.8

ROAD CLOSURE SIGN ASSEMBLY

STATION	BARRICADE
13+783	III-B
14+071	III-A
14+094	III-A
14+343	III-A
14+343	III-A
14+468	III-A
14+468	III-A
14+573	III-B
14+343	III-B
14+468	III-B
TOTAL =	10

TEMPORARY REMOVABLE PAVEMENT MARKINGS

START STA.	END STA.	LENGTH (m)	TYPE
PHASE I-A			
13+780 Line "B"	14+576 Line "B"	1311.44	4" White
0+235 Line "A"	0+300 Line "A"	68.65	4" White
0+250 Line "A"	0+292 Line "A"	41.97	4" Double Yellow
PHASE I-B			
13+841 Line "B"	14+582 Line "B"	750.46	4" White
0+314 Line "A"	0+405 Line "A"	91.72	4" White
0+317 Line "A"	0+357 Line "A"	39.92	4" Double Yellow
PHASE II-A			
14+590 Line "B"	14+688 Line "B"	102.05	4" White
14+600 Line "B"	14+631 Line "B"	30.54	4" Double Yellow
0+315 Line "A"	0+382 Line "A"	67.96	4" White
PHASE II-B			
14+590 Line "B"	14+631 Line "B"	43.01	4" White
14+600 Line "B"	14+631 Line "B"	30.54	4" Double Yellow
0+235 Line "A"	0+296 Line "A"	60.93	4" White
TOTAL 4" WHITE =		2496.22	
TOTAL 4" DOUBLE YELLOW =		142.97	

Channelizer Drums

STATION	QTY
PHASE I-A	62
13+780 To 14+580	
Drums Will Be Moved For Each Phase Of Construction	
TOTAL =	62

Temporary Pavement

PHASE	START STA.	END STA.	AREA (m^2)	VOLUME (m^3)	WEIGHT (Mg)
90 kg/m^2 HMA Surface, Type B					
PHASE I-A	13+780 Line "B"	14+063 Line "B"	807.14	30.27	71.10
PHASE I-A	14+231 Line "B"	14+562 Line "B"	803.17	30.12	70.76
150 kg/m^2 HMA Intermediate, Type B					
PHASE I-A	13+780 Line "B"	14+063 Line "B"	807.14	50.45	118.51
PHASE I-A	14+231 Line "B"	14+518 Line "B"	667.14	41.70	97.95
150mm Compacted Aggregate No. 53					
PHASE I-A	13+780 Line "B"	14+063 Line "B"	807.14	121.07	284.42
PHASE I-A	14+231 Line "B"	14+562 Line "B"	803.17	120.48	283.02

Total HMA for Temporary Pavement =	358.32
Total Temporary Aggregate =	567.44

NOTE: Design Speed in Construction Zone: 50km/h

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Fax (219) 288-0195

NITIN V. TIMBLE REGISTERED No. 10707587 STATE OF INDIANA PROFESSIONAL ENGINEER

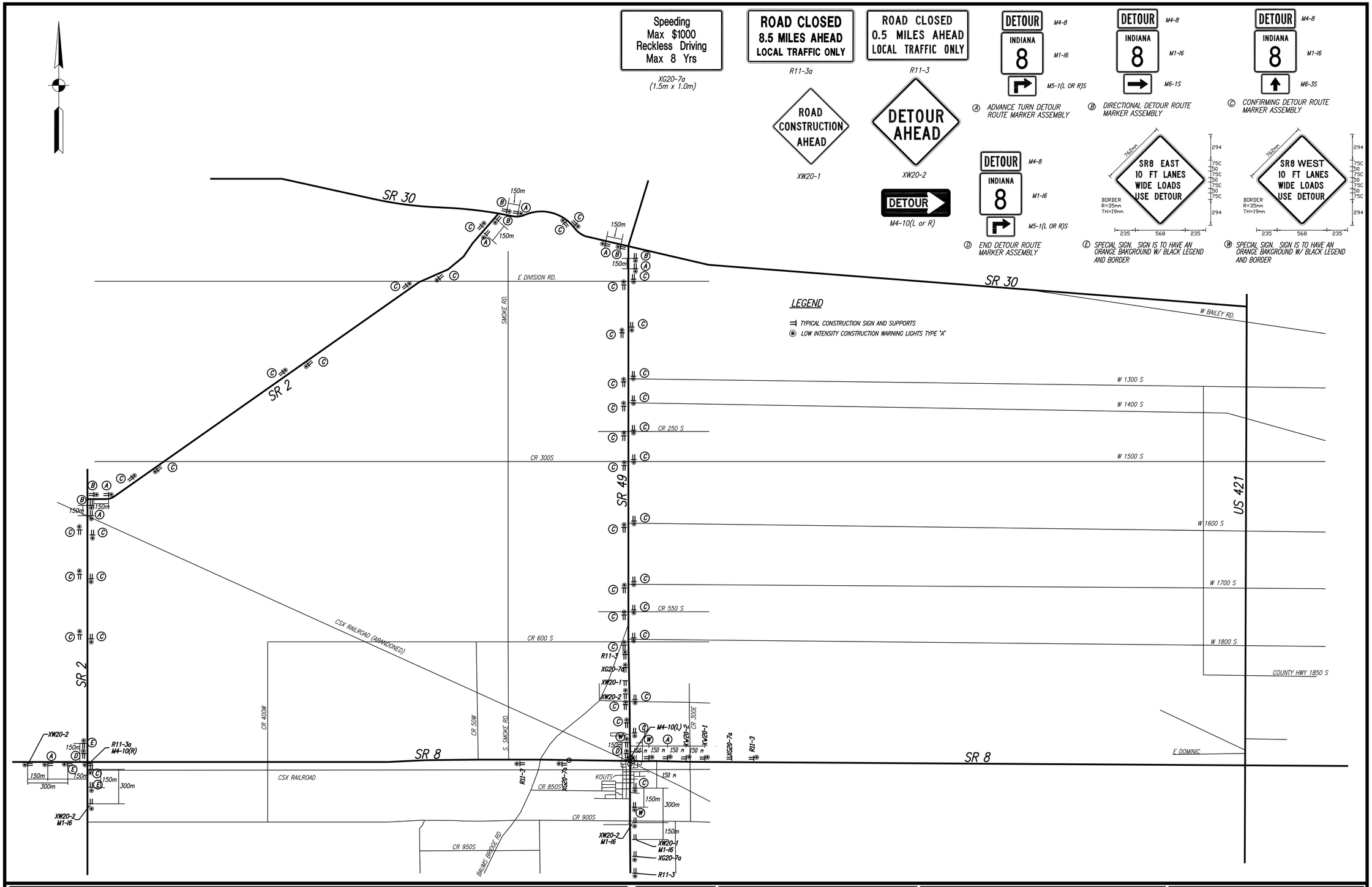
RECOMMENDED FOR APPROVAL Nitin V. Timble 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC NOTES

HORIZONTAL SCALE	BRIDGE FILE
NONE	
VERTICAL SCALE	DESIGNATION
NONE	9611280
SURVEY BOOK	SHEETS
16644	06 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)



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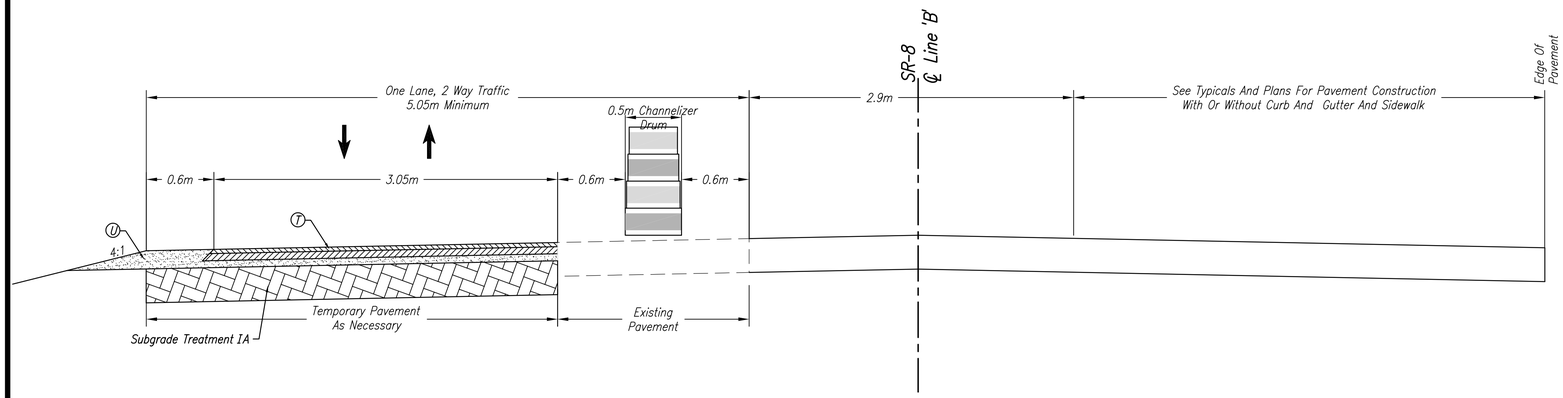
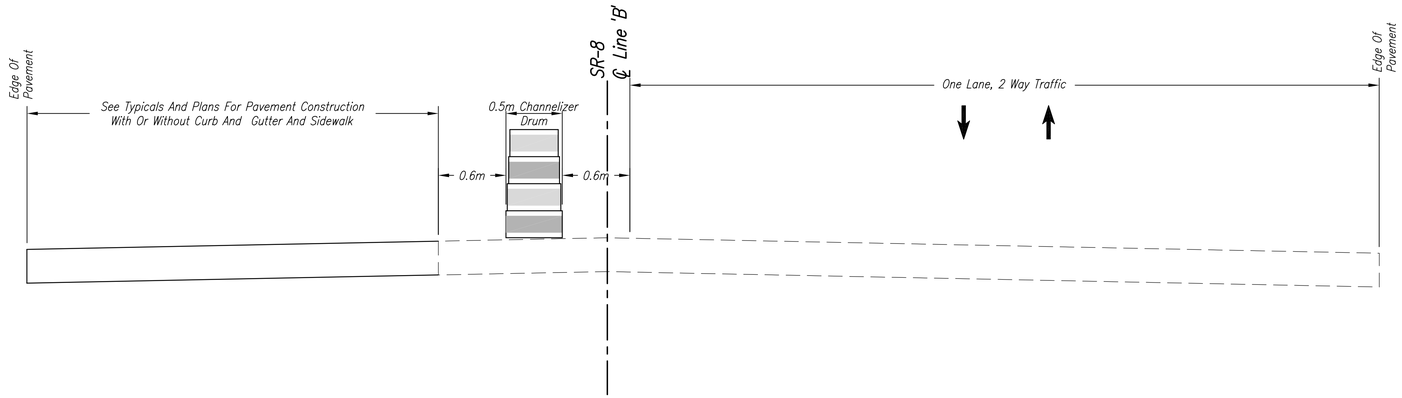
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
OFFICAL DETOUR

HORIZONTAL SCALE	BRIDGE FILE
NONE	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	07 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)



Part "A" Construction

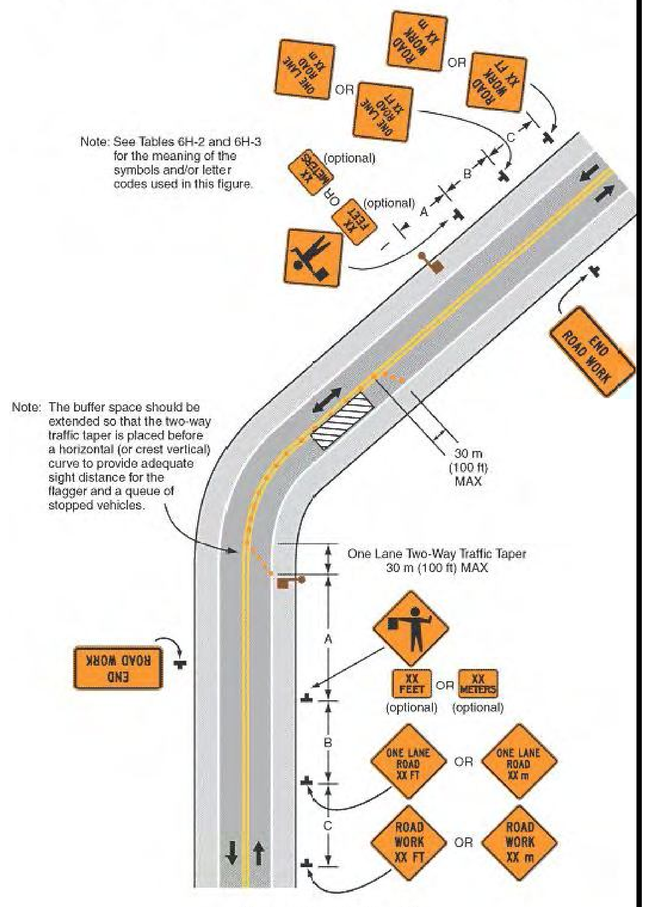


Part "B" Construction

NOTES:

1) Phase I Limits 13+780 To 14+567.109
2) Phase II Limits 14+605.982 To 14+745.356
3) Shoulders And Pavement Shall Be Constructed Up Through The Intermediate Asphalt Course. Final Asphalt Surface Course Shall Be Constructed By The Contractor Towards Project Completion.
4) One Lane, 2 Way Traffic Shall Be Maintained Using Traffic Control Flagger Per MUTCD Standards See Layout 6H-10.

Figure 6H-10. Lane Closure on Two-Lane Road Using Flaggers (TA-10)



Typical Application 10

NOTES:

Distance 'A', 'B', 'C'= 30m (100ft)

LEGEND:

Temporary Pavement

(T) 90 kg/m²HMA Surface, Type "S"
150 kg/m²HMA Intermediate, Type "B"
150 mm Compacted Aggregate No. 53

(U) 250mm Compacted Aggregate No. 53

XG20-2

R2-1 (600 x 750)

XW20-7 (1200 x 1200)

XW20-4 (1200 x 1200)

XW21-4(1000) (1200 x 1200)

W16-2a (600 x 450)

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DESIGN ENGINEER DATE

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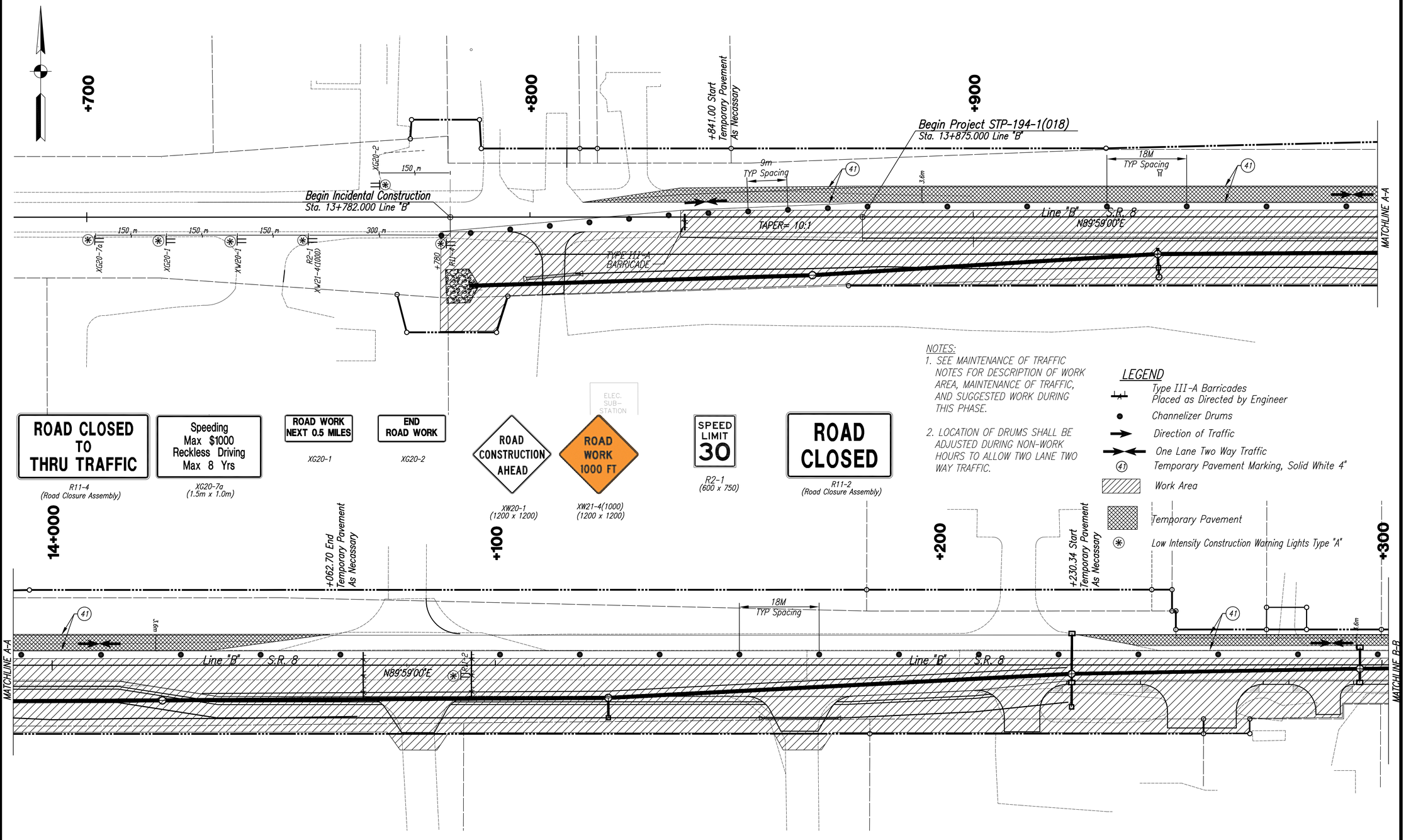
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICALS PHASES I AND II

HORIZONTAL SCALE	BRIDGE FILE
4:1	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	08 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(108)



NOTE: Design Speed in Construction Zone: 50km/h

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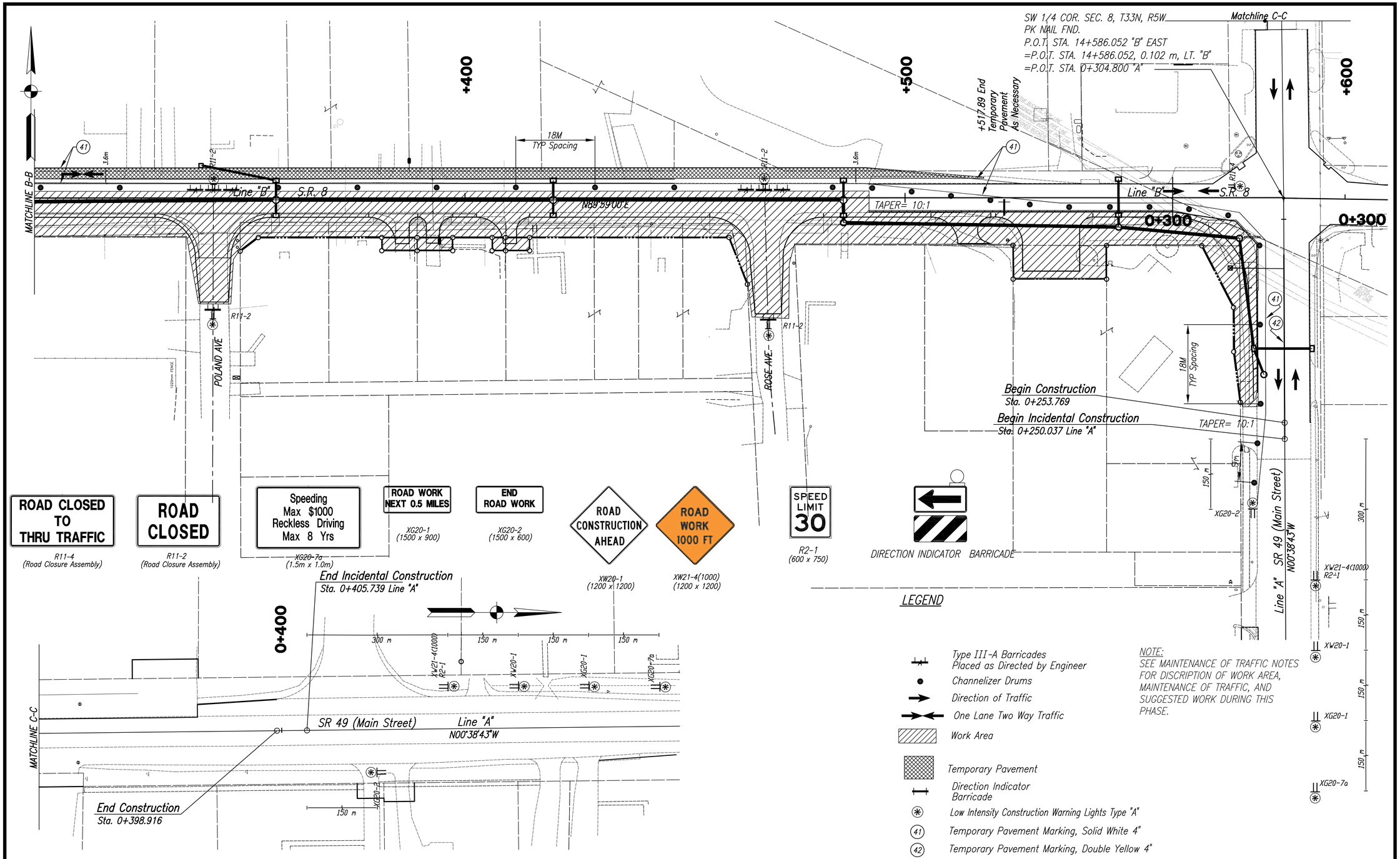
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE I – PART 'A'

HORIZONTAL SCALE	BRIDGE FILE
1:400	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	09 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(108)



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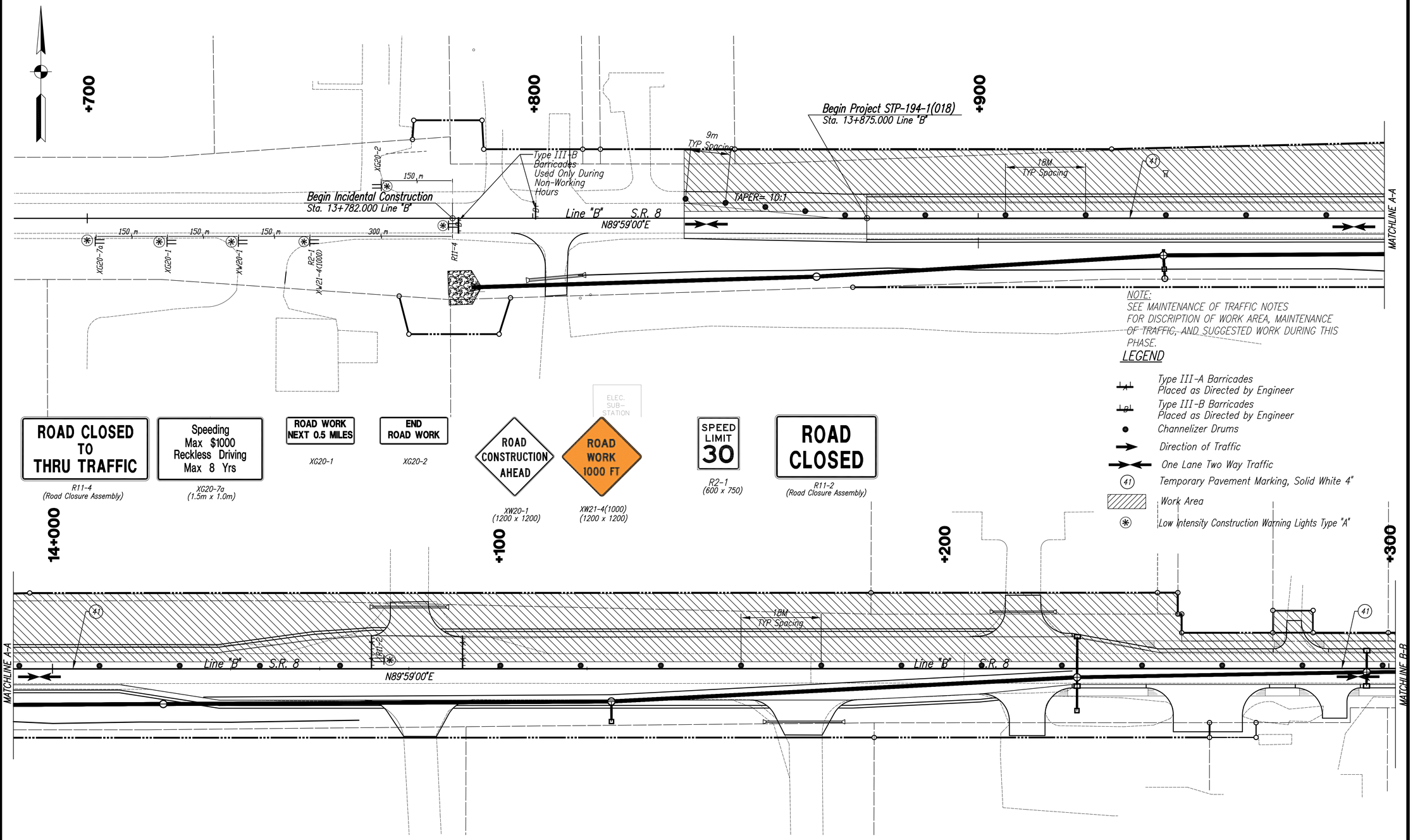
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE I – PART 'A'

HORIZONTAL SCALE	BRIDGE FILE
1:400	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	10 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(108)



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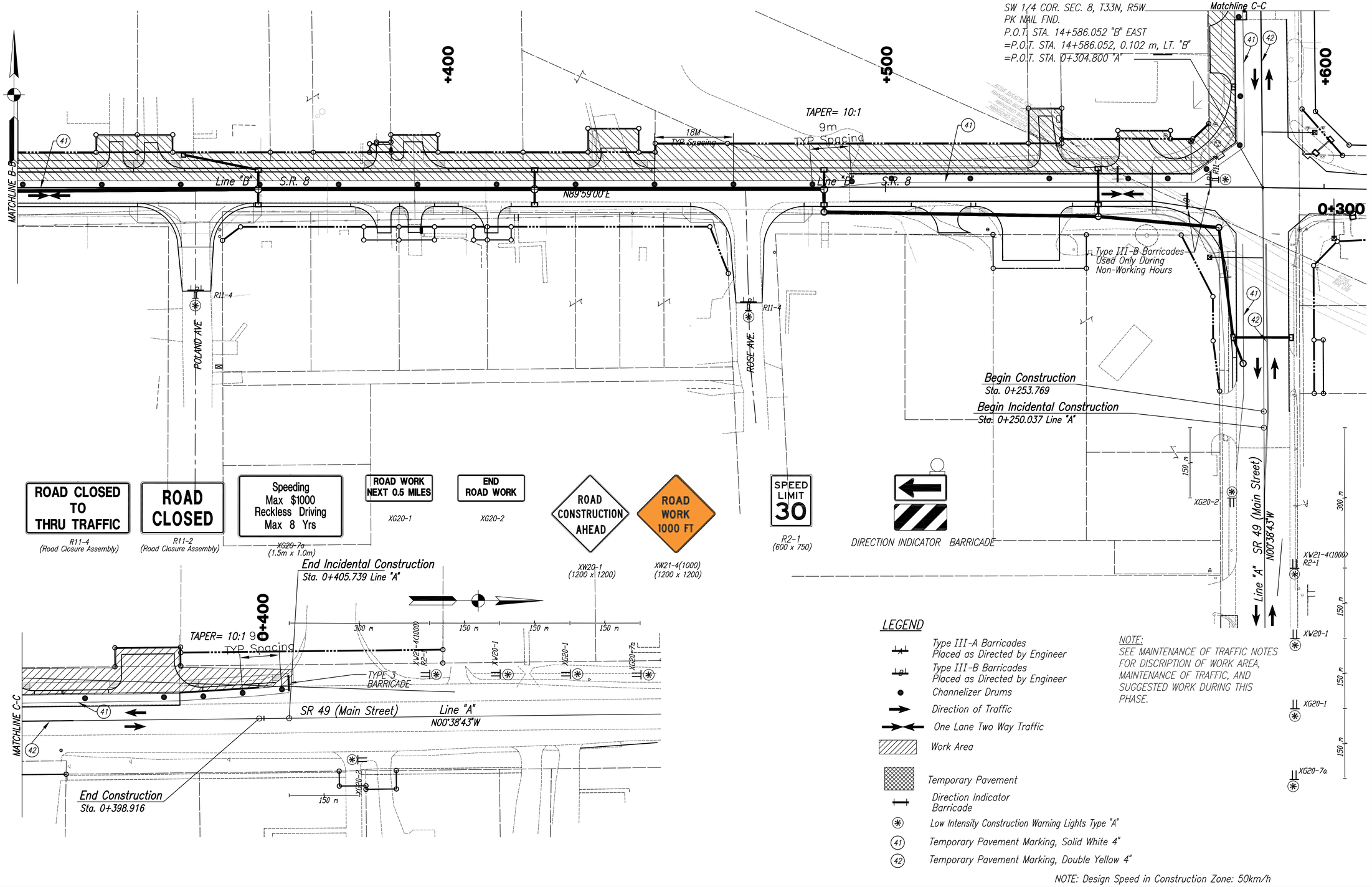
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE I – PART 'B'

HORIZONTAL SCALE	BRIDGE FILE
1:400	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	11 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(108)



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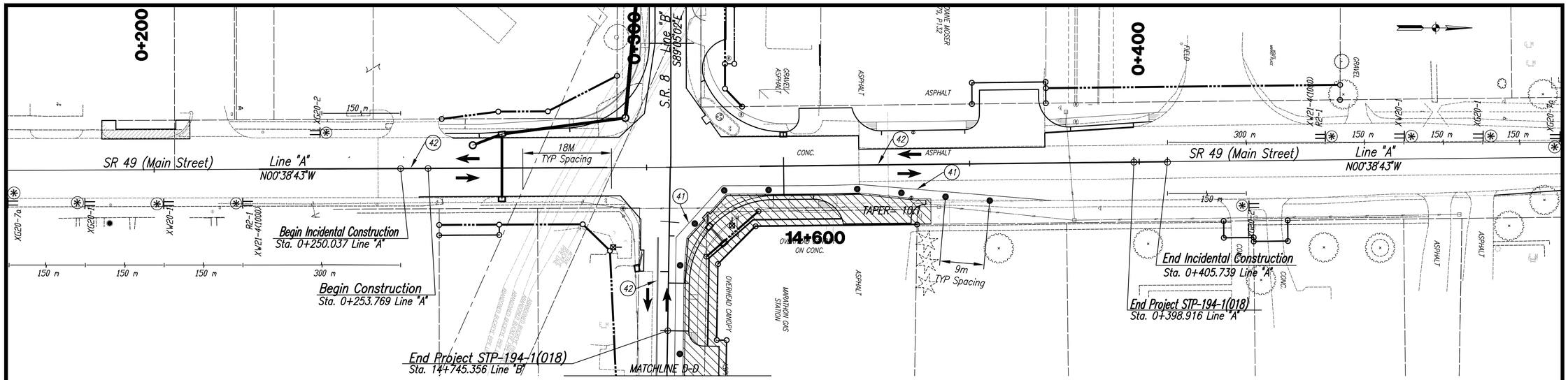
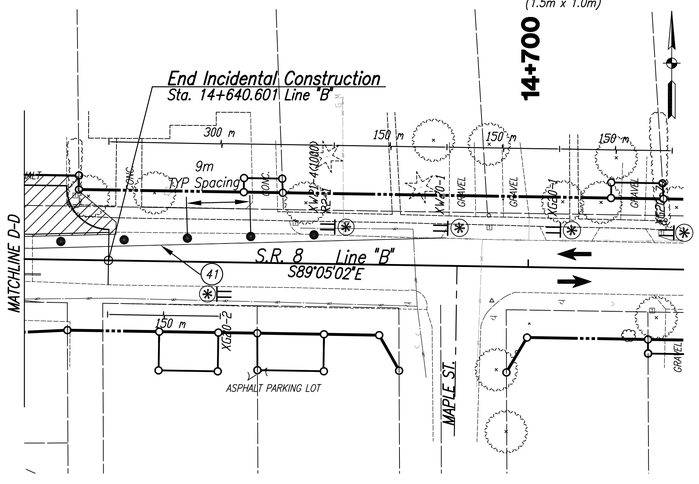
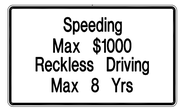
MAINTENANCE OF TRAFFIC
PHASE I – PART 'B'

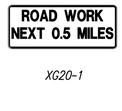
HORIZONTAL SCALE	BRIDGE FILE
1:400	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	12 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(108)







XG20-7a (1.5m x 1.0m)



XG20-1

XG20-2

XW20-1 (1200 x 1200)

XW21-4(1000) (1200 x 1200)

R2-1 (600 x 750)

DIRECTION INDICATOR BARRICADE

NOTE:
SEE MAINTENANCE OF TRAFFIC NOTE FOR DISCRIPTION OF WORK AREA, MAINTENANCE OF TRAFFIC, AND SUGGESTED WORK DURING THIS PHASE.

LEGEND

- Channelizer Drums
- Direction of Traffic
- Work Area
- Temporary Pavement
- Direction Indicator Barricade
- (*) Low Intensity Construction Warning Lights Type "A"
- (41) Temporary Pavement Marking, Solid White 4"
- (42) Temporary Pavement Marking, Double Yellow 4"

NOTE: Design Speed in Construction Zone: 50km/h

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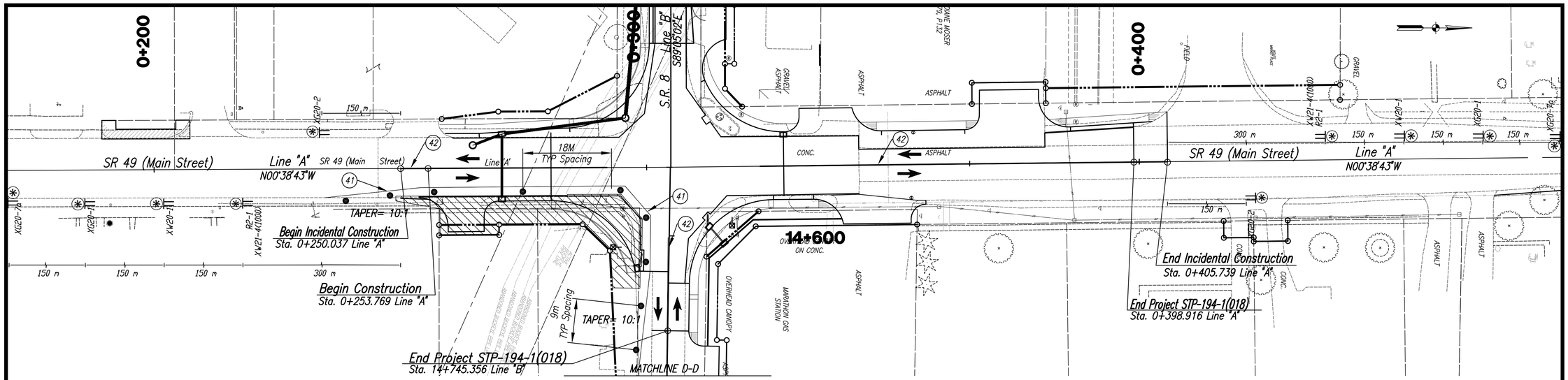
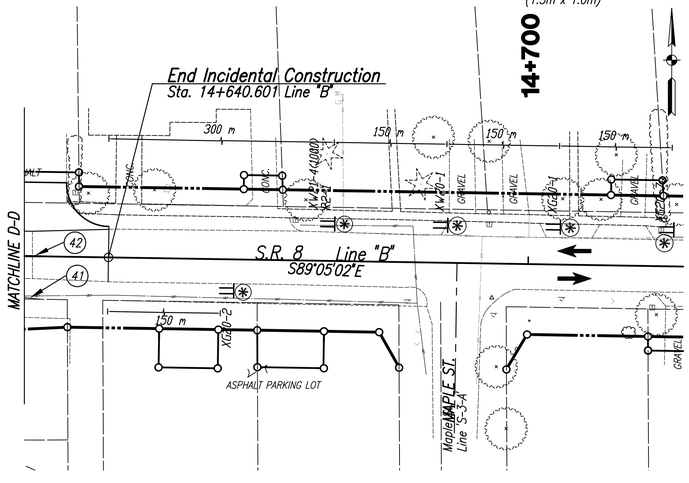
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE II – PART 'A'

HORIZONTAL SCALE	BRIDGE FILE
1:400	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	13 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(108)





Speeding
Max $1000
Reckless Driving
Max 8 Yrs

XG20-7a
(1.5m x 1.0m)

ROAD WORK
NEXT 0.5 MILES

XG20-1

END
ROAD WORK

XG20-2

ROAD
CONSTRUCTION
AHEAD

XW20-1
(1200 x 1200)

ROAD
WORK
1000 FT

XW21-4(1000)
(1200 x 1200)

SPEED
LIMIT
30

R2-1
(600 x 750)

DIRECTION INDICATOR BARRICADE

NOTE:
SEE MAINTENANCE OF TRAFFIC NOTE FOR DISCRIPTION OF WORK AREA, MAINTENANCE OF TRAFFIC, AND SUGGESTED WORK DURING THIS PHASE.

LEGEND

- Channelizer Drums
- Direction of Traffic
- Work Area
- Temporary Pavement
- Direction Indicator Barricade
- (*) Low Intensity Construction Warning Lights Type "a"
- (41) Temporary Pavement Marking, Solid White 4"
- (42) Temporary Pavement Marking, Double Yellow 4"

NOTE: Design Speed in Construction Zone: 50km/h

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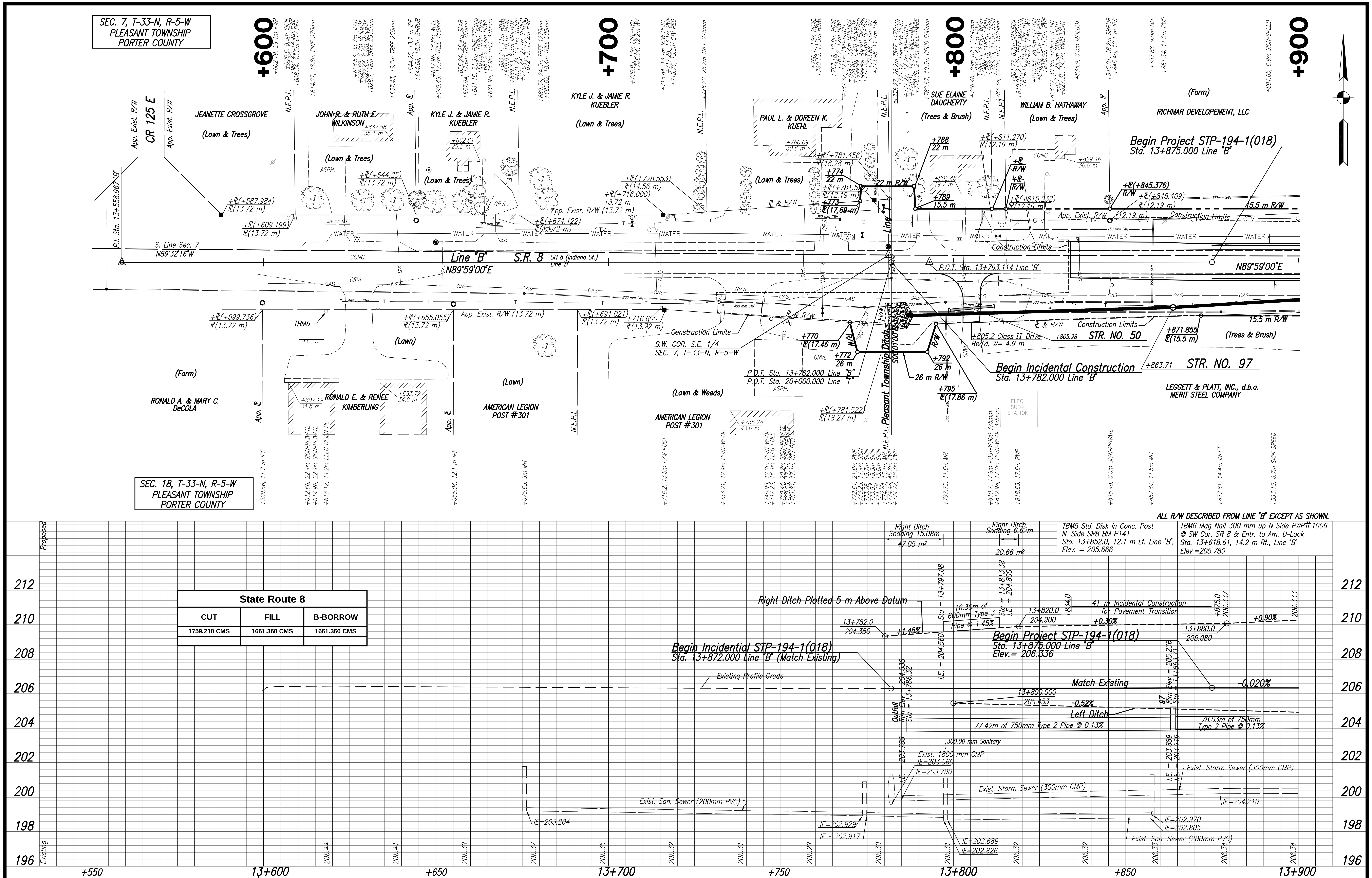
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE II – PART 'B'

HORIZONTAL SCALE	BRIDGE FILE
1:400	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	14 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(108)


SEC. 7, T-33-N, R-5-W
PLEASANT TOWNSHIP
PORTER COUNTY
+600
+700
+800
+900
CR 125 E
JEANETTE CROSSGROVE
(Lawn & Trees)
JOHN R. & RUTH E. WILKINSON
KYLE J. & JAMIE R. KUEBLER
PAUL L. & DOREEN K. KUEHL
SUE ELAINE DAUGHERTY
WILLIAM B. HATHAWAY
(Farm)
RICHMAR DEVELOPEMENT, LLC
Begin Project STP-194-1(018)
Sta. 13+875.000 Line "B"
S. Line Sec. 7
N89°32'16"W
Line "B" S.R. 8
N89°59'00"E
S.W. COR. S.E. 1/4
SEC. 7, T-33-N, R-5-W
P.O.T. Sta. 13+793.114 Line "B"
P.O.T. Sta. 13+782.000 Line "B"
P.O.T. Sta. 20+000.000 Line "T"
Pleasant Township Ditch
STR. NO. 50
STR. NO. 97
Begin Incidental Construction
Sta. 13+782.000 Line "B"
(Farm)
RONALD A. & MARY C. DeCOLA
RONALD E. & RENEE KIMBERLING
(Lawn)
AMERICAN LEGION POST #301
(Lawn & Weeds)
AMERICAN LEGION POST #301
(Trees & Brush)
LEGGETT & PLATT, INC., d.b.a. MERIT STEEL COMPANY
SEC. 18, T-33-N, R-5-W
PLEASANT TOWNSHIP
PORTER COUNTY
ALL R/W DESCRIBED FROM LINE "B" EXCEPT AS SHOWN.
TBM5 Std. Disk in Conc. Post N. Side SR8 BM P141 Sta. 13+852.0, 12.1 m Lt. Line "B", Elev. = 205.666
TBM6 Mag Nail 300 mm up N Side PWP#1006 @ SW Cor. SR 8 & Entr. to Am. U-Lock Sta. 13+618.61, 14.2 m Rt., Line "B" Elev.=205.780
Right Ditch Plotted 5 m Above Datum
Begin Incidential STP-194-1(018)
Sta. 13+872.000 Line "B" (Match Existing)
Begin Project STP-194-1(018)
Sta. 13+875.000 Line "B"
Elev.= 206.336
41 m Incidental Construction for Pavement Transition
Match Existing
Left Ditch
77.42m of 750mm Type 2 Pipe @ 0.13%
78.03m of 750mm Type 2 Pipe @ 0.13%
Existing Profile Grade
Exist. San. Sewer (200mm PVC)
Exist. Storm Sewer (300mm CMP)
Exist. San. Sewer (200mm PVC)
212
210
208
206
204
202
200
198
196
+550
13+600
+650
13+700
+750
13+800
+850
13+900

State Route 8		
CUT	FILL	B-BORROW
1759.210 CMS	1661.360 CMS	1661.360 CMS

P.I. STA. 13+558.967

P.O.T. STA. 13+793.114

STA. 13+781.204 S.W. COR. S.E. 1/4, SEC. 7, T-33-N, R-5-W

HERCEG
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Fax (219) 288-0195

BRIAN W.W. THOMASEN REGISTERED No. 10707971 STATE OF INDIANA PROFESSIONAL ENGINEER

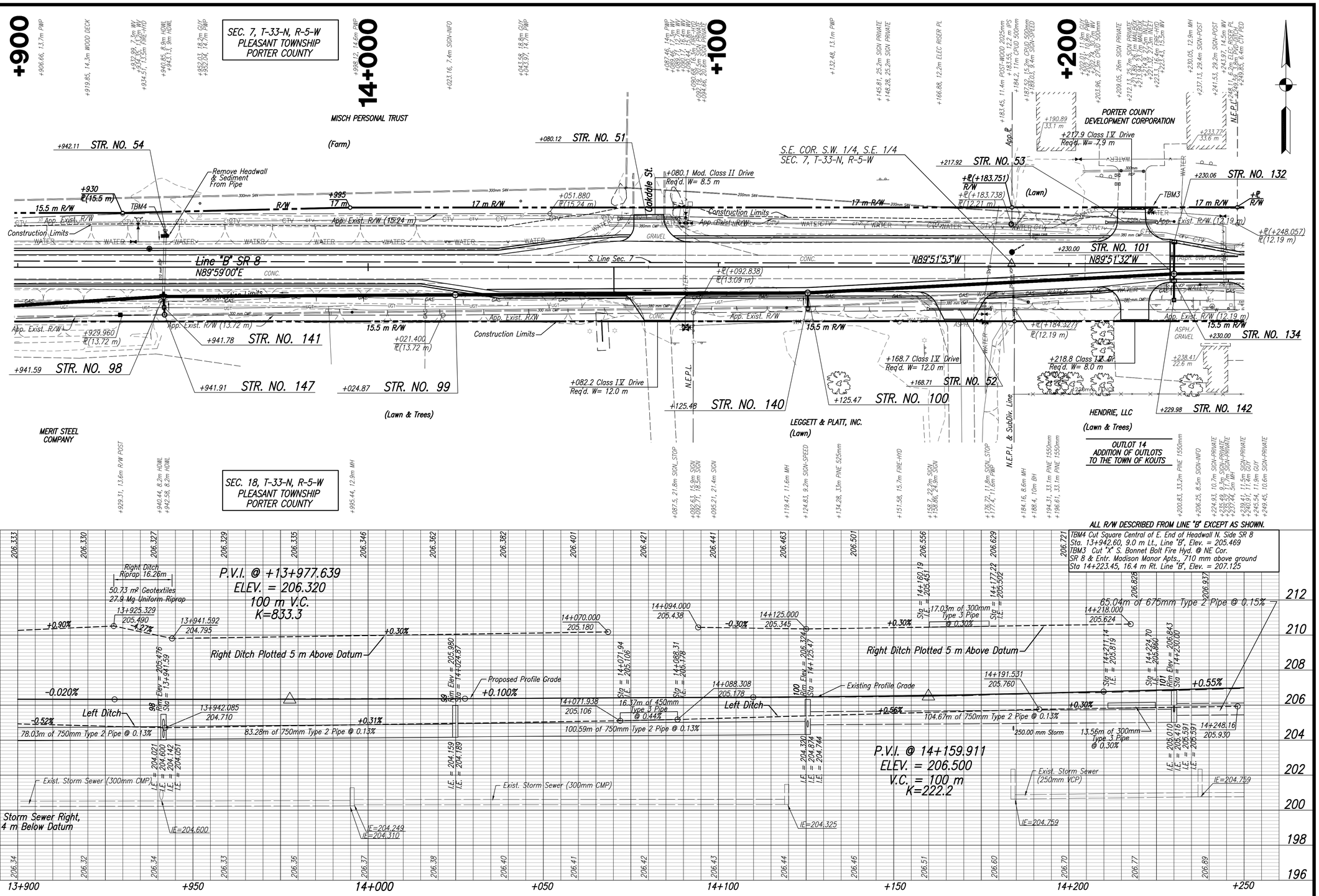
RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 02/26/2009 DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
STA 13+600 TO STA 13+900 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:500	
VERTICAL SCALE	DESIGNATION
1:100	9611280
SURVEY BOOK	SHEETS
16644	15 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)



Fire Hyd. Top Op. Nut
Mag Nail S. Side PWP 431/479
ASPH. Ent. to Merit Steel
RR Spike in ASPH. 3.244m
Brass Plug
Mag Nail N.W. side Ent. to Apartments PWP 431/480
P.T. STA. 14+183.707, 1.006 "B" Lt.
S.E. COR. S.W. 1/4, S.E. 1/4, SEC. 7, T-33-N, R-5-W

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No. 10707971
STATE OF INDIANA
PROFESSIONAL ENGINEER

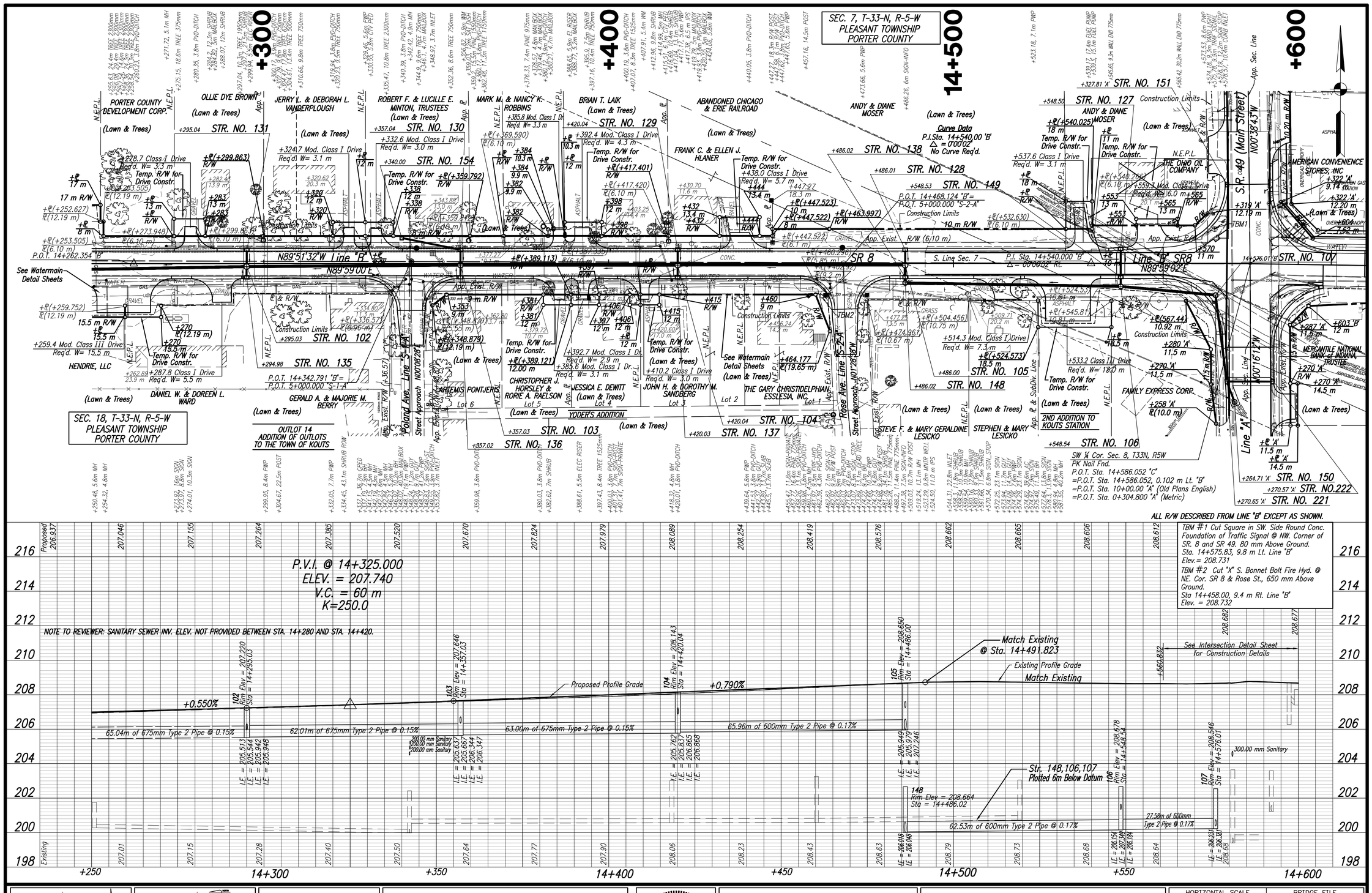
RECOMMENDED FOR APPROVAL Brian W.W. Thomasen 02/26/2009
DESIGN ENGINEER DATE

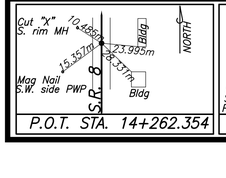
DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

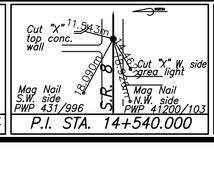
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
STA 13+900 TO STA 14+250 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:500	
VERTICAL SCALE	DESIGNATION
1:100	9611280
SURVEY BOOK	SHEETS
16644	16 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)







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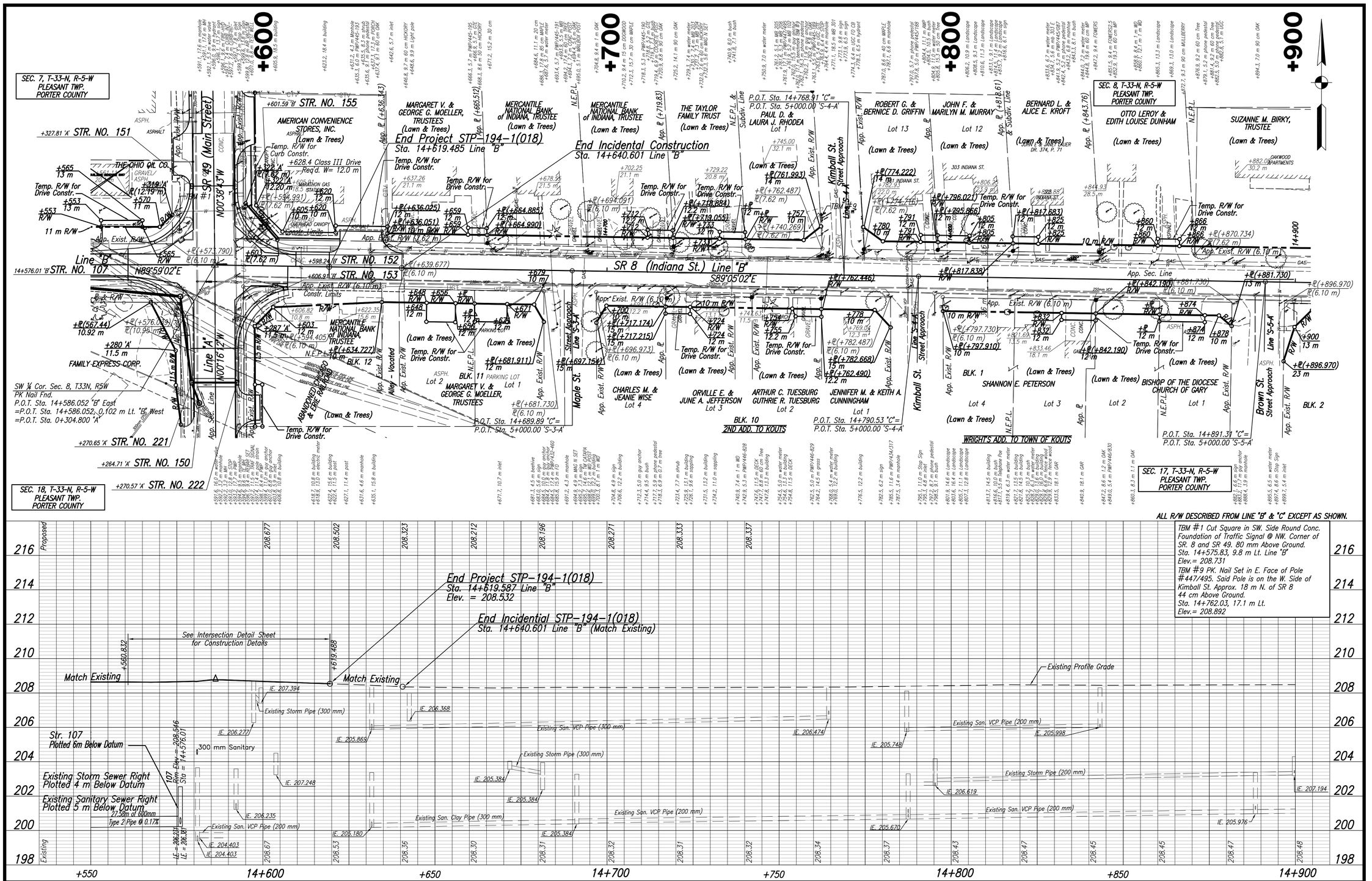
RECOMMENDED FOR APPROVAL Brian W.W. Thomasen 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE STA 14+250 TO STA 14+600 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:500	
VERTICAL SCALE	DESIGNATION
1:100	9611280
SURVEY BOOK	SHEETS
16644	17 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)



HERCEG KEN HERCEG & ASSOCIATES, INC. ENGINEERS, ARCHITECTS & LAND SURVEYORS	211 West Washington Street Suite 2100 South Bend, Indiana 46601 Phone (219) 288-4580 Fax (219) 288-0195

BRIAN W.W. THOMAEN — REGISTERED — No. 10707971 — STATE OF INDIANA — PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL: Brian W.W. Thomaen — DESIGN ENGINEER — 02/26/2009 — DATE

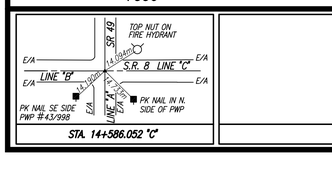
DESIGNED: B.W.T. | DRAWN: J.H.

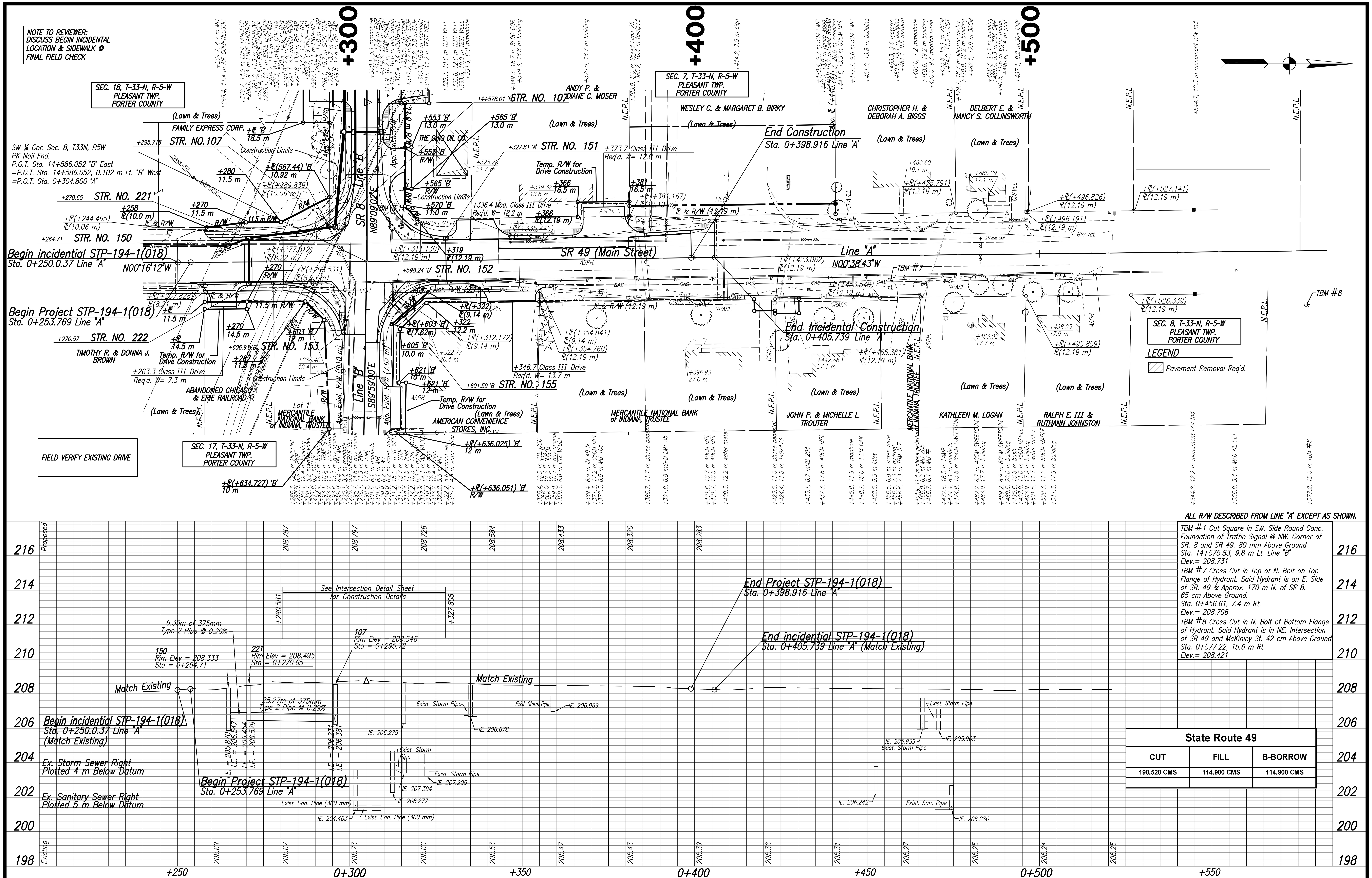
CHECKED: N.V.T. | CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
STA. 14+600 TO STA 14+900 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:500	
VERTICAL SCALE	DESIGNATION
1:100	9611280
SURVEY BOOK	SHEETS
16644	18 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(108)





NOTE TO REVIEWER: DISCUSS BEGIN INCIDENTAL LOCATION & SIDEWALK @ FINAL FIELD CHECK
SEC. 18, T-33-N, R-5-W PLEASANT TWP. PORTER COUNTY
SEC. 7, T-33-N, R-5-W PLEASANT TWP. PORTER COUNTY
SEC. 17, T-33-N, R-5-W PLEASANT TWP. PORTER COUNTY
SEC. 8, T-33-N, R-5-W PLEASANT TWP. PORTER COUNTY
+300
+400
+500
SR 49 (Main Street)
Line "A"
SR 8
Line "B"
Begin incidential STP-194-1(018) Sta. 0+250.0.37 Line "A"
Begin Project STP-194-1(018) Sta. 0+253.769 Line "A"
End Construction Sta. 0+398.916 Line "A"
End Incidental Construction Sta. 0+405.739 Line "A"
FAMILY EXPRESS CORP.
THE OHIO OIL CO.
ANDY P. & DIANE C. MOSER
WESLEY C. & MARGARET B. BIRKY
CHRISTOPHER H. & DEBORAH A. BIGGS
DELBERT E. & NANCY S. COLLINSWORTH
TIMOTHY R. & DONNA J. BROWN
ABANDONED CHICAGO & ERIE RAILROAD
MERCANTILE NATIONAL BANK of INDIANA, TRUSTEE
AMERICAN CONVENIENCE STORES, INC.
JOHN P. & MICHELLE L. TROUTER
KATHLEEN M. LOGAN
RALPH E. III & RUTHANN JOHNSTON
FIELD VERIFY EXISTING DRIVE
LEGEND
Pavement Removal Req'd.
ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS SHOWN.
End Project STP-194-1(018) Sta. 0+398.916 Line "A"
End incidential STP-194-1(018) Sta. 0+405.739 Line "A" (Match Existing)
Match Existing
See Intersection Detail Sheet for Construction Details
Ex. Storm Sewer Right Plotted 4 m Below Datum
Ex. Sanitary Sewer Right Plotted 5 m Below Datum
+250
0+300
+350
0+400
+450
0+500
+550

TBM #1 Cut Square in SW. Side Round Conc. Foundation of Traffic Signal @ NW. Corner of SR. 8 and SR 49. 80 mm Above Ground. Sta. 14+575.83, 9.8 m Lt. Line "B" Elev.= 208.731

TBM #7 Cross Cut in Top of N. Bolt on Top Flange of Hydrant. Said Hydrant is on E. Side of SR. 49 & Approx. 170 m N. of SR 8. 65 cm Above Ground. Sta. 0+456.61, 7.4 m Rt. Elev.= 208.706

TBM #8 Cross Cut in N. Bolt of Bottom Flange of Hydrant. Said Hydrant is in NE. Intersection of SR 49 and McKinley St. 42 cm Above Ground Sta. 0+577.22, 15.6 m Rt. Elev.= 208.421

State Route 49		
CUT	FILL	B-BORROW
190.520 CMS	114.900 CMS	114.900 CMS

P.T. STA. 14+586.052, 0.102 m Rt.

POT. STA. 0+270.000, "A"

POT. STA. 0+515.000, "A"

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BRIAN W. THOMASEN REGISTERED No. 10707971 STATE OF INDIANA PROFESSIONAL ENGINEER

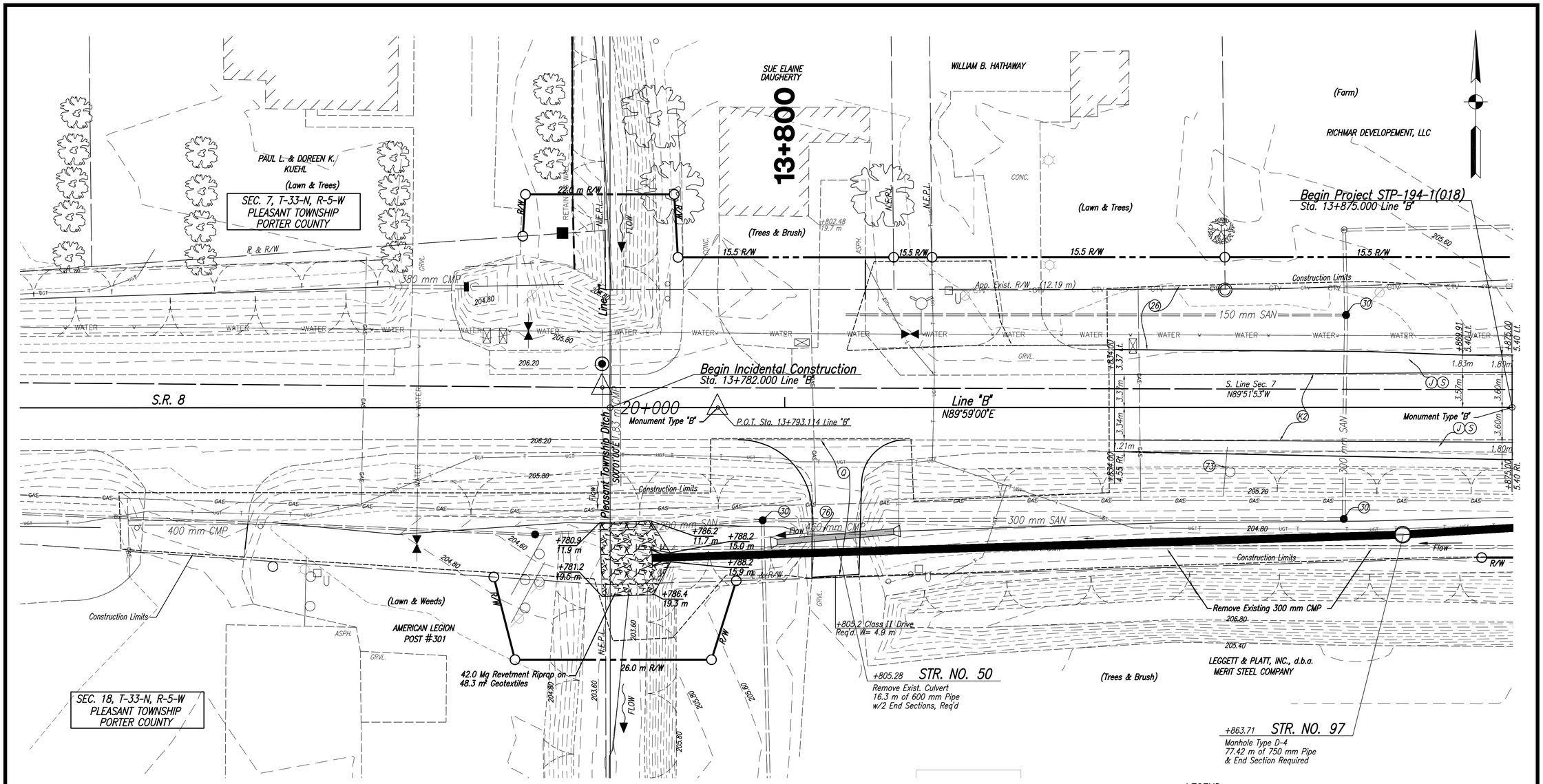
RECOMMENDED FOR APPROVAL [signature] 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

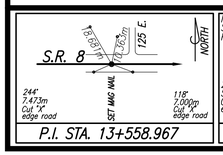
PLAN & PROFILE
STA 0+250 TO 0+500 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1:500	
VERTICAL SCALE	DESIGNATION
1:100	9611280
SURVEY BOOK	SHEETS
16644	19 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)

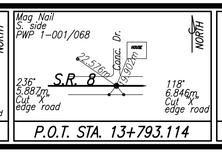


LEGEND

- (J) Shoulder Section, See Typical Section
- (K2) Mill and Overlay, See Typical Section
- (S) Shoulder Section, See Typical Section
- (Q) Driveway Section, See Typical Section
- (26) Seeding, Type "R"
- (30) Adjust Casting to Grade
- (72) Relocate Mailbox
- (73) Relocate Sign
- (76) Remove Culvert



P.I. STA. 13+558.967



P.O.T. STA. 13+793.114

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DESIGN ENGINEER DATE

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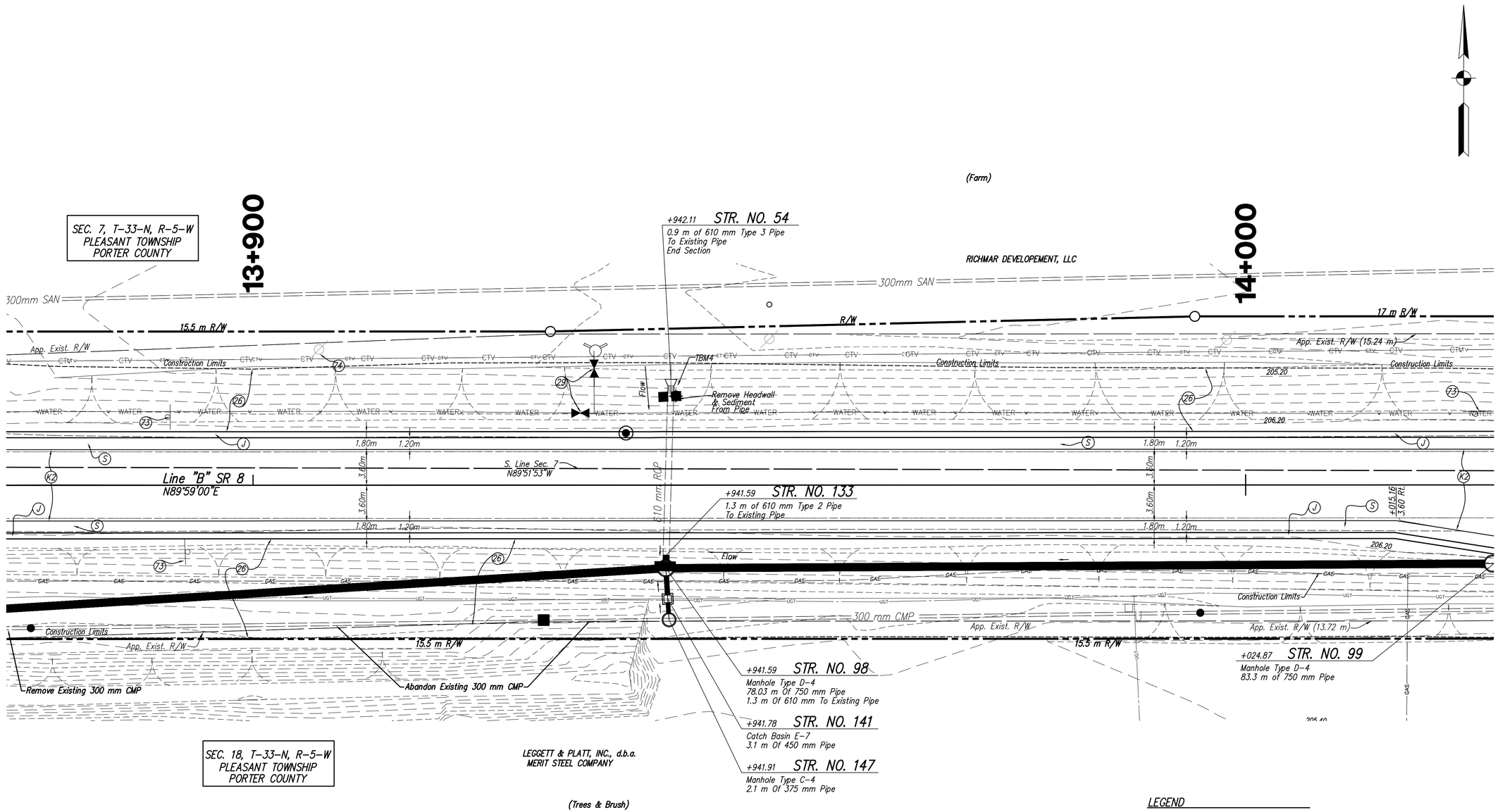
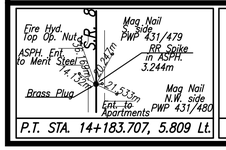
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STA 13+725 TO STA 13+875 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	20 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)





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PROFESSIONAL ENGINEER

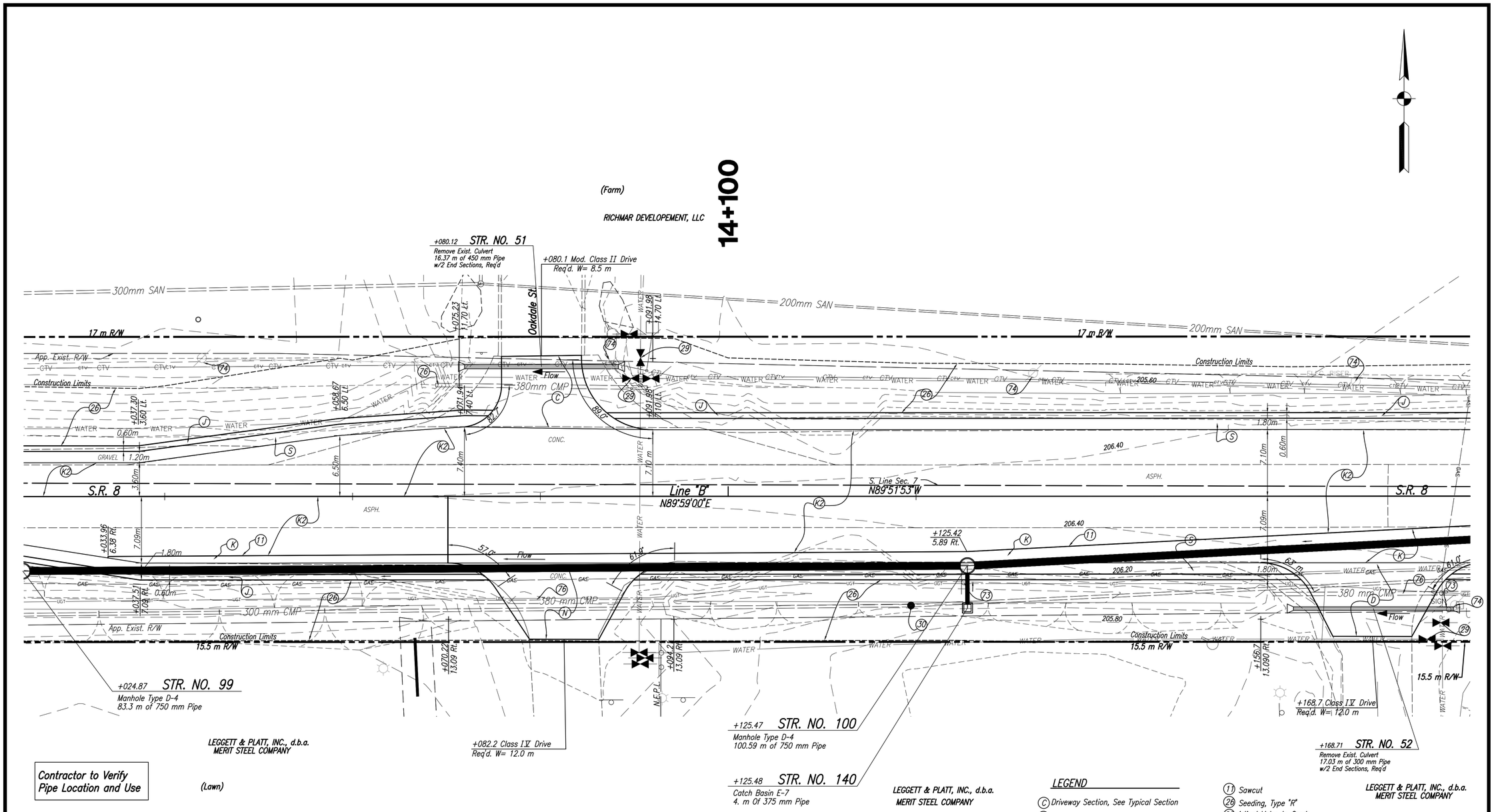
RECOMMENDED FOR APPROVAL Brian W.W. Thomasen 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

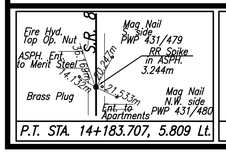
CONSTRUCTION DETAILS
STA 13+875 TO STA 14+025 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	21 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)



LEGEND

- (C) Driveway Section, See Typical Section
- (D) Driveway Section, See Typical Section
- (J) Shoulder Section, See Typical Section
- (K) Full Depth Section, See Typical Section
- (K2) Full Depth Section, See Typical Section
- (N) Driveway Section, See Typical Section
- (S) Shoulder Section, See Typical Section
- (11) Sawcut
- (26) Seeding, Type "R"
- (29) Adjust Valve to Grade
- (30) Adjust Casting to Grade
- (73) Relocate Sign
- (74) Relocate Power Pole (By Others)
- (76) Remove Culvert



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RECOMMENDED FOR APPROVAL Brian W.W. Thomasen 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

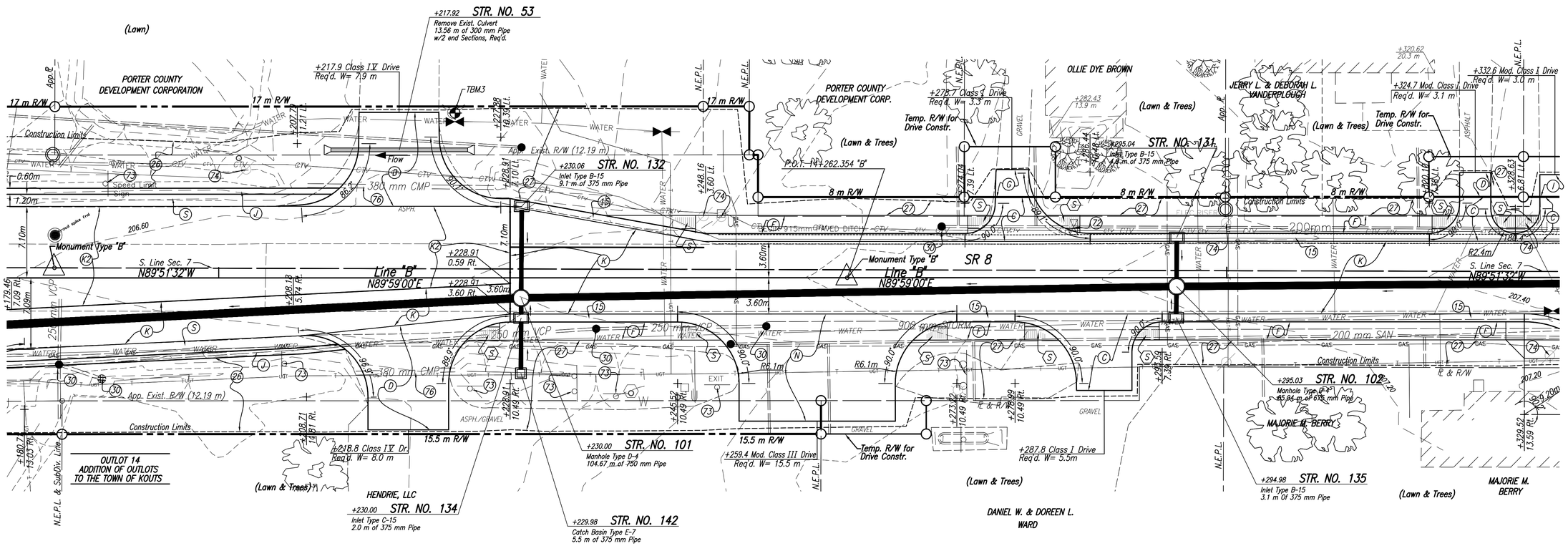
CONSTRUCTION DETAILS
STA 14+025 TO STA 14+179 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	22 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)

14+200

14+300

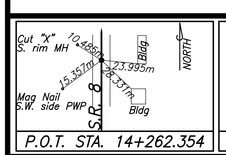
SEC. 7, T-33-N, R-5-W
PLEASANT TOWNSHIP
PORTER COUNTY



SEC. 18, T-33-N, R-5-W
PLEASANT TOWNSHIP
PORTER COUNTY

LEGEND

- (C) Driveway Section, See Typical Section
- (D) Driveway Section, See Typical Section
- (F) Concrete Sidewalk, 100 mm
- (G) Driveway Section, See Typical Section
- (I) Driveway Section, See Typical Section
- (J) Shoulder Section, See Typical Section
- (K) Full Depth Section, See Typical Section
- (K2) Full Depth Section, See Typical Section
- (N) Driveway Section, See Typical Section
- (S) Shoulder Section, See Typical Section
- (S) Sidewalk Elevation Transition
- (19) Combined Conc. Curb & Gutter
- (26) Seeding, Type "R"
- (27) Sodding
- (30) Adjust Casting to Grade
- (72) Relocate Mailbox
- (73) Relocate Sign
- (74) Relocate Power Pole (By Others)
- (76) Remove Culvert



P.O.T. STA. 14+262.354

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PROFESSIONAL ENGINEER

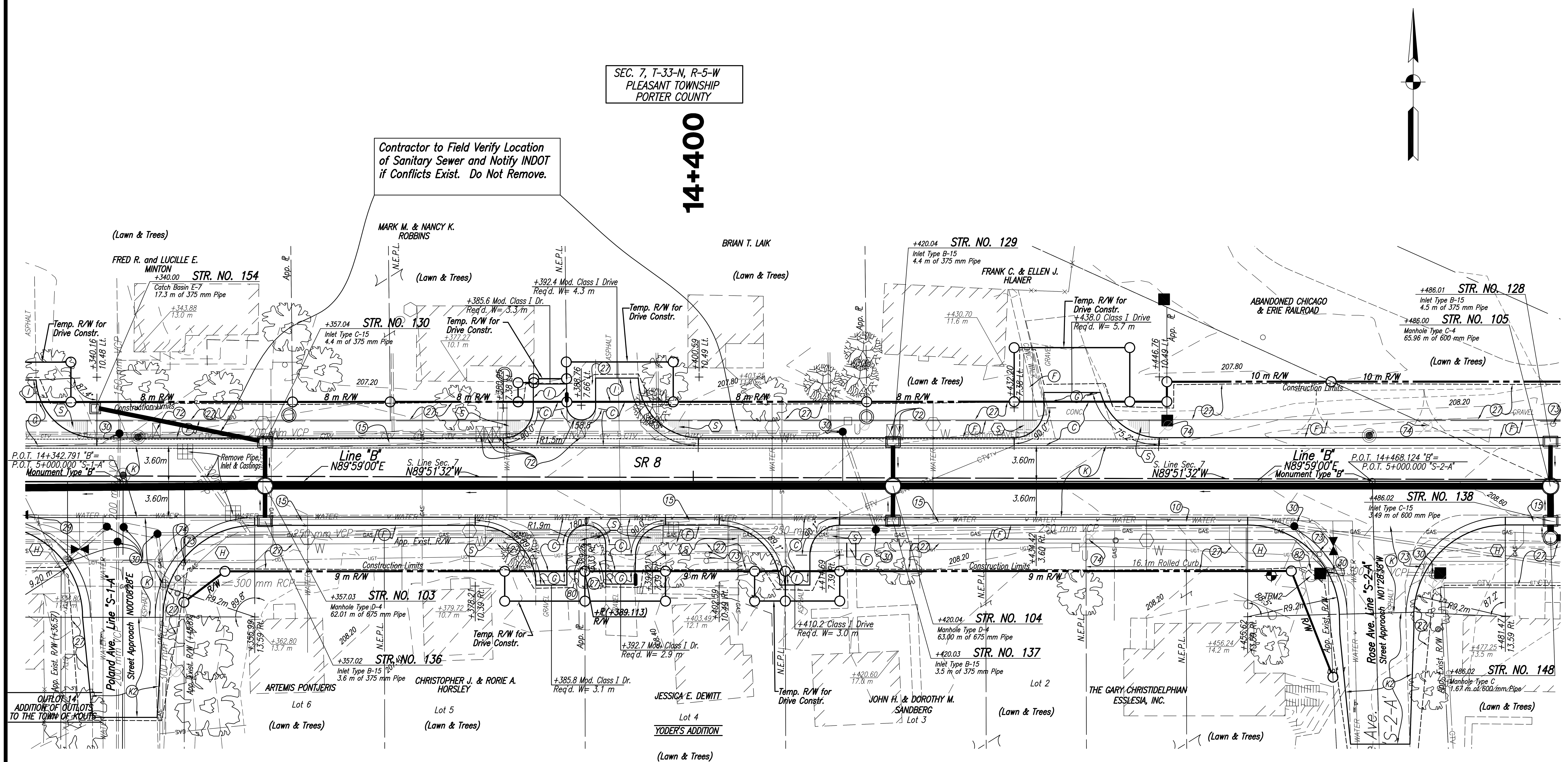
RECOMMENDED FOR APPROVAL Brian W.W. Thomasen 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STA 14+179 TO STA 14+333 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	23 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)



LEGEND

- (C) Driveway Section, See Typical Section
- (F) Concrete Sidewalk, 100 mm
- (G) Driveway Section, See Typical Section
- (I) Driveway Section, See Typical Section
- (K) Full Depth Section, See Typical Section
- (K2) Full Depth Section, See Typical Section
- (S) Shoulder Section, See Typical Section
- (H) Concrete Curb Ramp, Type H
- (S) Sidewalk Elevation Transition
- (10) Combined Conc. Curb & Gutter, Type B
- (15) Combined Conc. Curb & Gutter
- (27) Sodding
- (29) Adjust Valve to Grade
- (30) Adjust Casting to Grade
- (72) Relocate Mailbox
- (73) Relocate Sign
- (74) Relocate Power Pole (By Others)
- (80) Remove Tree, 600-1600 mm
- (82) Relocate Fire Hydrant

P.O.T. STA. 14+262.354

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BRIAN W.W. THOMASEN, REGISTERED No. 10707971, STATE OF INDIANA, PROFESSIONAL ENGINEER

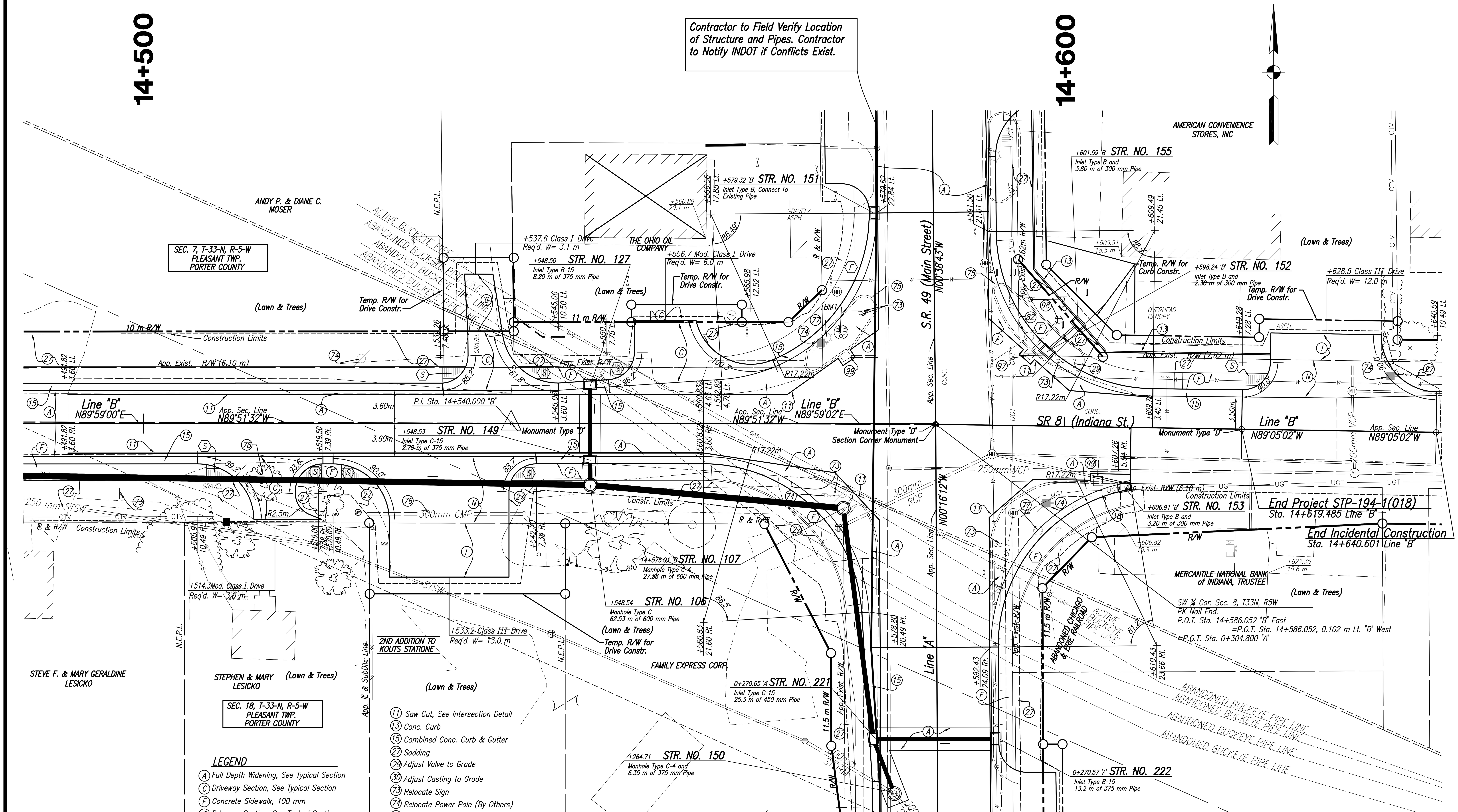
RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 02/26/2009

DESIGNED: B.W.T. | DRAWN: J.H.
CHECKED: N.V.T. | CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STA 14+333 TO STA 14+487 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	24 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)


14+500
14+600
Contractor to Field Verify Location of Structure and Pipes. Contractor to Notify INDOT if Conflicts Exist.
AMERICAN CONVENIENCE STORES, INC
ANDY P. & DIANE C. MOSER
SEC. 7, T-33-N, R-5-W PLEASANT TWP. PORTER COUNTY
THE OHIO OIL COMPANY
+579.32 'B' STR. NO. 151
Inlet Type B, Connect To Existing Pipe
+601.59 'B' STR. NO. 155
Inlet Type B and 3.80 m of 300 mm Pipe
+537.6 Class I Drive
Req'd. W= 3.1 m
+548.50 STR. NO. 127
Inlet Type B-15
8.20 m of 375 mm Pipe
+556.7 Mod. Class I Drive
Req'd. W= 6.0 m
Temp. R/W for Drive Constr.
S.R. 49 (Main Street)
N00°38'43"W
+598.24 'B' STR. NO. 152
2.30 m of 300 mm Pipe
Temp. R/W for Curb Constr.
+628.5 Class III Drive
Req'd. W= 12.0 m
(Lawn & Trees)
10 m R/W
Construction Limits
App. Exist. R/W (6.10 m)
Line "B"
N89°59'00"E
App. Sec. Line
N89°51'32"W
N89°59'02"E
P.I. Sta. 14+540.000 "B"
+548.53 STR. NO. 149
Inlet Type C-15
2.70 m of 375 mm Pipe
Monument Type "D"
Section Corner Monument
SR 8 (Indiana St.)
N89°05'02"W
250 mm STSW
300mm CMP
300mm RCP
250mm VCP
14+576.91 'B' STR. NO. 107
Manhole Type C-4
27.58 m of 600 mm Pipe
+548.54 STR. NO. 106
Manhole Type C
62.53 m of 600 mm Pipe
+606.91 'B' STR. NO. 153
Inlet Type B and
3.20 m of 300 mm Pipe
End Project STP-194-1(018)
Sta. 14+619.485 Line "B"
End Incidental Construction
Sta. 14+640.601 Line "B"
MERCANTILE NATIONAL BANK of INDIANA, TRUSTEE
SW ¼ Cor. Sec. 8, T33N, R5W
PK Nail Fnd.
P.O.T. Sta. 14+586.052 "B" East
=P.O.T. Sta. 14+586.052, 0.102 m Lt. "B" West
=P.O.T. Sta. 0+304.800 "A"
+514.3Mod. Class I Drive
Req'd. W= 3.0 m
2ND ADDITION TO KOUTS STATIONE
+533.2 Class III Drive
Req'd. W= 13.0 m
FAMILY EXPRESS CORP.
STEVE F. & MARY GERALDINE LESICKO
STEPHEN & MARY LESICKO
SEC. 18, T-33-N, R-5-W PLEASANT TWP. PORTER COUNTY
0+270.65 'A' STR. NO. 221
Inlet Type C-15
25.3 m of 450 mm Pipe
Line "A"
N00°16'12"W
+264.71 STR. NO. 150
Manhole Type C-4 and
6.35 m of 375 mm Pipe
0+270.57 'A' STR. NO. 222
Inlet Type B-15
13.2 m of 375 mm Pipe
ABANDONED BUCKEYE PIPE LINE
ACTIVE BUCKEYE PIPE LINE
ABANDONED CHICAGO & ERIE RAILROAD

LEGEND

- (A) Full Depth Widening, See Typical Section
- (C) Driveway Section, See Typical Section
- (F) Concrete Sidewalk, 100 mm
- (G) Driveway Section, See Typical Section
- (I) Driveway Section, See Typical Section
- (N) Driveway Section, See Typical Section
- (F) Concrete Curb Ramp, Type F
- (S) Sidewalk Elevation Transition

- (11) Saw Cut, See Intersection Detail
- (13) Conc. Curb
- (15) Combined Conc. Curb & Gutter
- (27) Sodding
- (29) Adjust Valve to Grade
- (30) Adjust Casting to Grade
- (73) Relocate Sign
- (74) Relocate Power Pole (By Others)
- (75) Curb Removal
- (76) Remove Culvert
- (77) Relocate Light Pole (By Others)
- (78) Remove Tree, 0-300 mm
- (82) Relocate Fire Hydrant
- (97) Remove Inlet
- (98) Remove Inlet & Pipe
- (99) Remove Inlet & Plug Pipe

NOTE: Location And Elevation Of Active Buckeye Pipeline Shall Be Verified By The Contractor Prior To Constructioning Str. #107.

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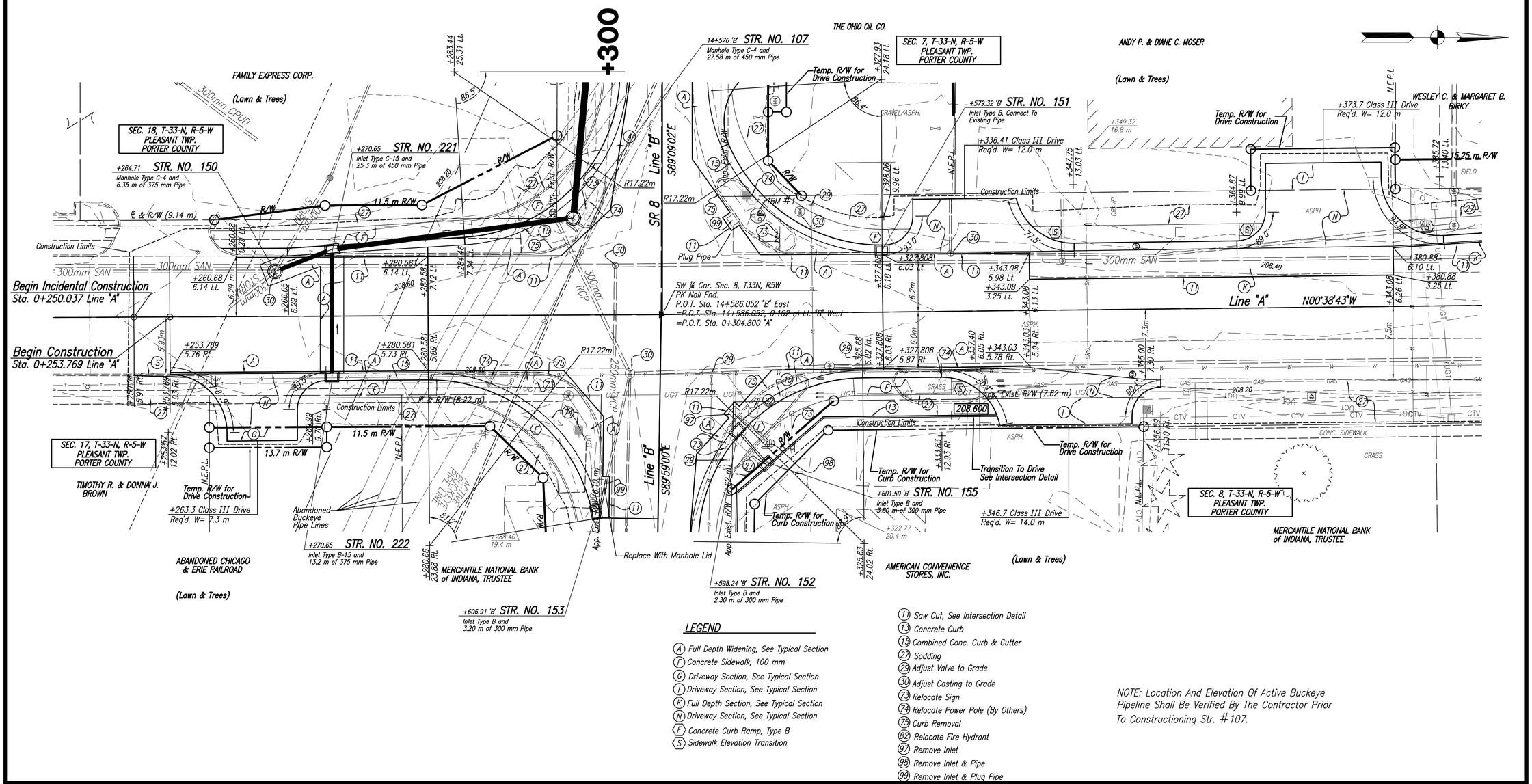
RECOMMENDED FOR APPROVAL [signature] DESIGN ENGINEER 02/26/2009 DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STA. 14+487 Line "B" TO STA 14+641 LINE "B"

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	25 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(108)



LEGEND

- (A) Full Depth Widening, See Typical Section
- (F) Concrete Sidewalk, 100 mm
- (G) Driveway Section, See Typical Section
- (I) Driveway Section, See Typical Section
- (K) Full Depth Section, See Typical Section
- (N) Driveway Section, See Typical Section
- (F) Concrete Curb Ramp, Type B
- (S) Sidewalk Elevation Transition

- (11) Saw Cut, See Intersection Detail
- (13) Concrete Curb
- (15) Combined Conc. Curb & Gutter
- (27) Sodding
- (29) Adjust Valve to Grade
- (30) Adjust Casting to Grade
- (73) Relocate Sign
- (74) Relocate Power Pole (By Others)
- (75) Curb Removal
- (82) Relocate Fire Hydrant
- (97) Remove Inlet
- (98) Remove Inlet & Pipe
- (99) Remove Inlet & Plug Pipe

NOTE: Location And Elevation Of Active Buckeye Pipeline Shall Be Verified By The Contractor Prior To Constructioning Str. #107.

12.633m PK nail S.W. Cor. Curb Inlet N.E. side PWP 431/997 Top op. nut Fire Hyd. S.R. 8 Drill Hole PK nail S.E. side PWP 431/998 PK nail N. side PWP S.R. 49
P.T. STA. 14+586.052, 0.102 m Rt.

Chisled "X" on N. side of round conc. Light Base Mag Nail Set, Flush E/A S.R. 49 LINE "A" PK Nail in N. Face of PWP w/ No. Mag Nail in E. Face of PWP w/ No.
POT. STA. 0+270.000, "A"

PK Nail in E. Face of PWP #431/777 17mm Rebar Set Flush E/A S.R. 49 LINE "A" MAG NAIL SET, FLUSH PK Nail in W. Face of PWP #449/908 E/A
POT. STA. 0+515.000, "A"

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INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STA 0+250 TO 0+390 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
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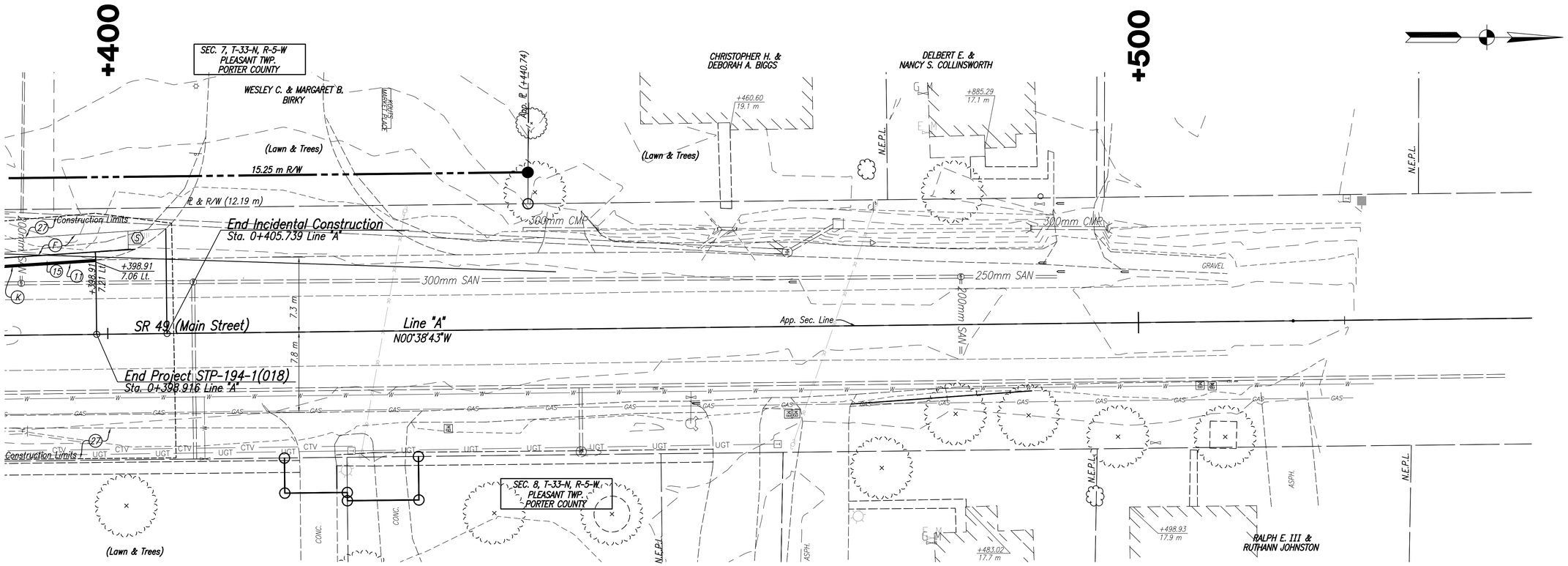
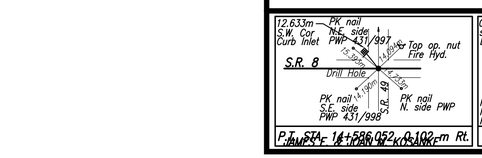
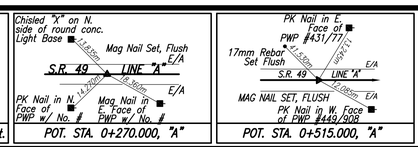


LEGEND

- (F) Concrete Sidewalk, 100 mm
- (K) Full Depth Section, See Typical Section
- (11) Saw Cut, See Intersection Detail
- (15) Combined Conc. Curb & Gutter
- (27) Sodding
- (S) Sidewalk Elevation Transition





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INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STA 0+390 TO 0+515 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
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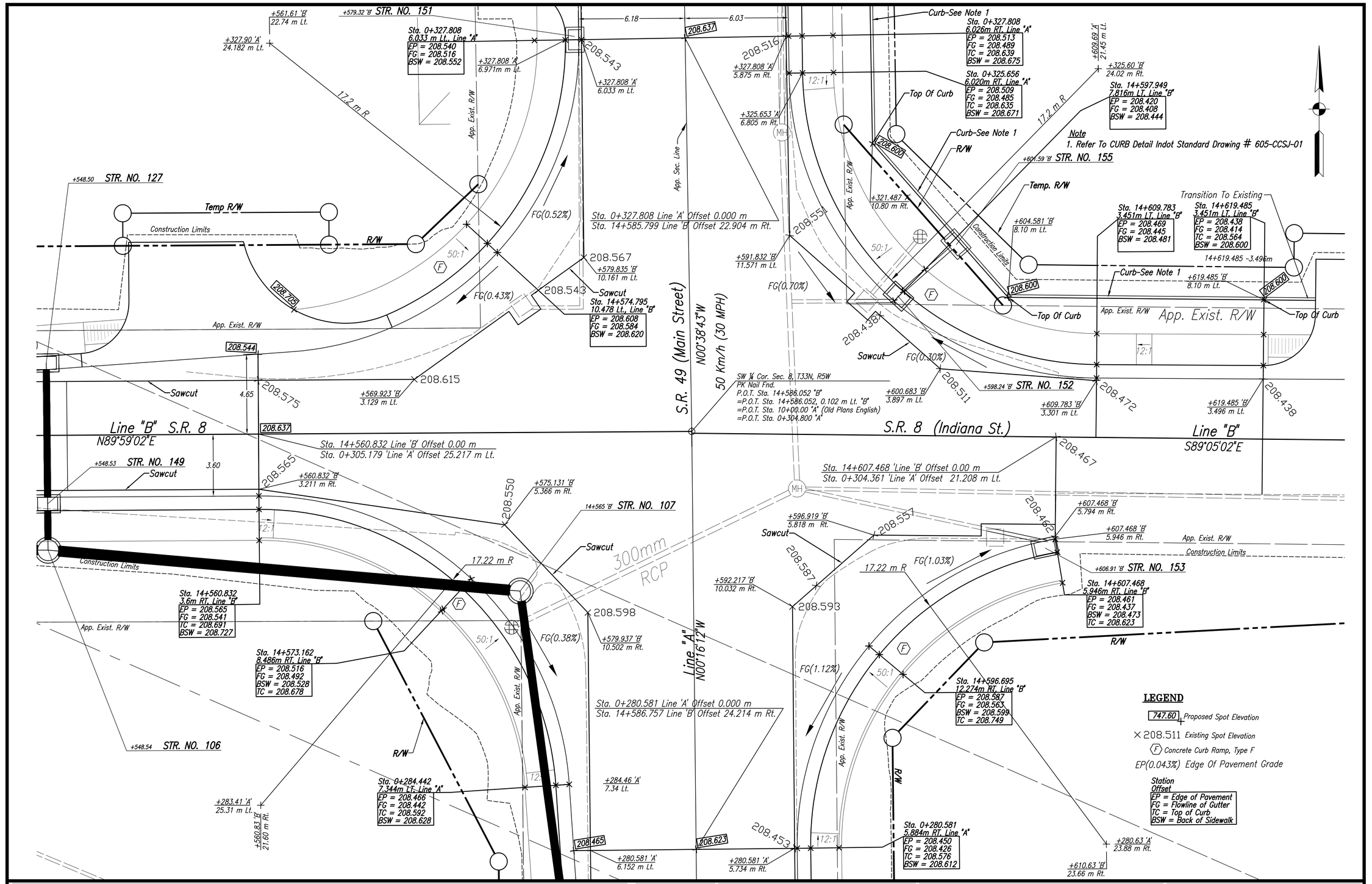

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INDIANA DEPARTMENT OF TRANSPORTATION

INTERSECTION GRADING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1:1	
VERTICAL SCALE	DESIGNATION
	9611280
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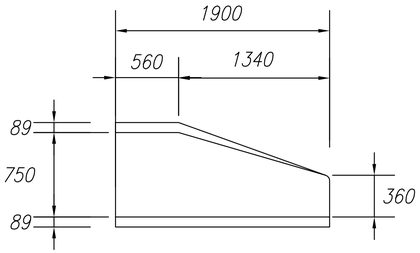

LONGITUDINAL SECTION

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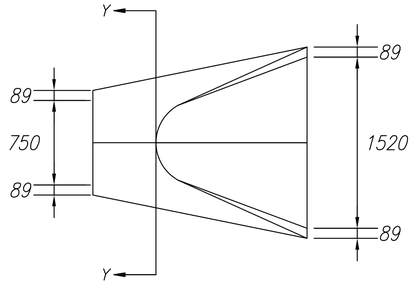
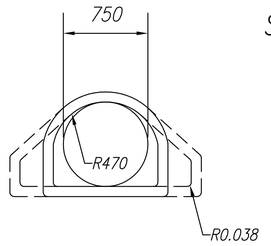


PLAN VIEW

SCALE = 4:1



SECTION Y-Y

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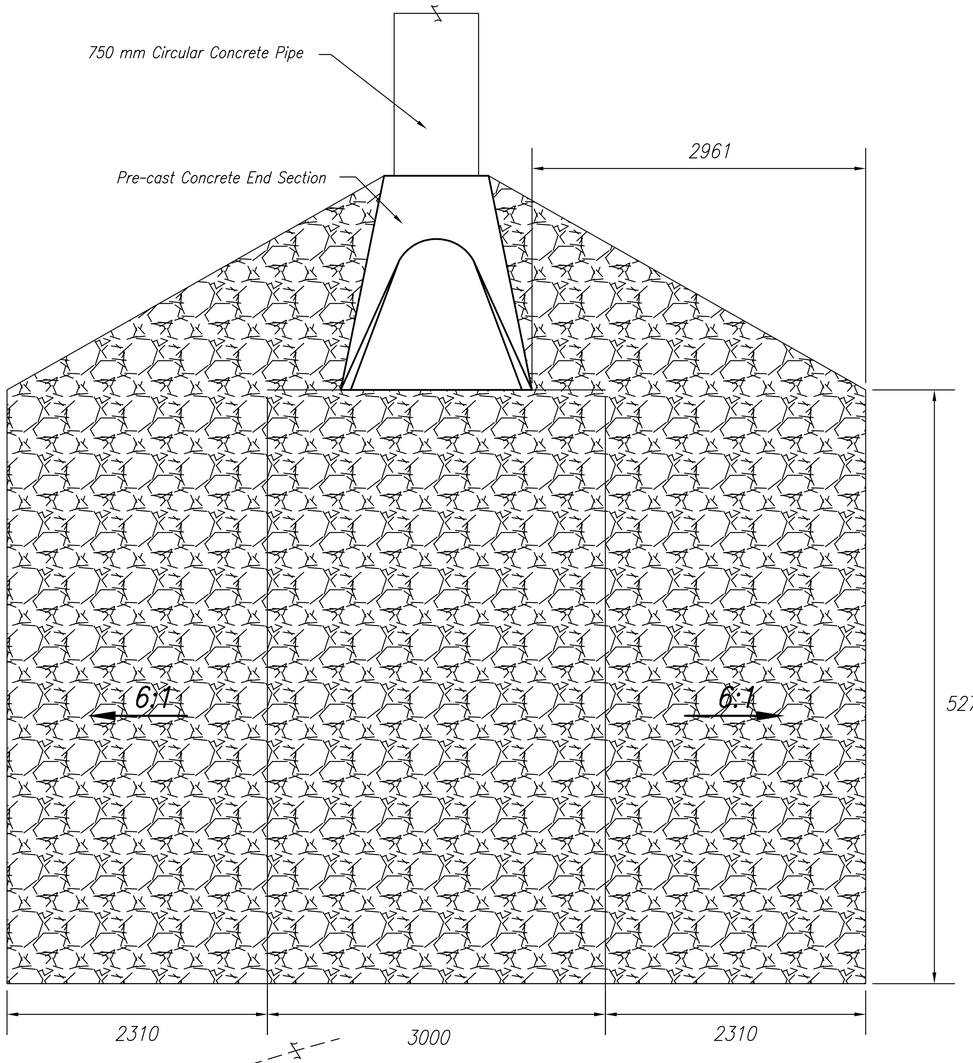

Riprap Detail For Outfall Structure

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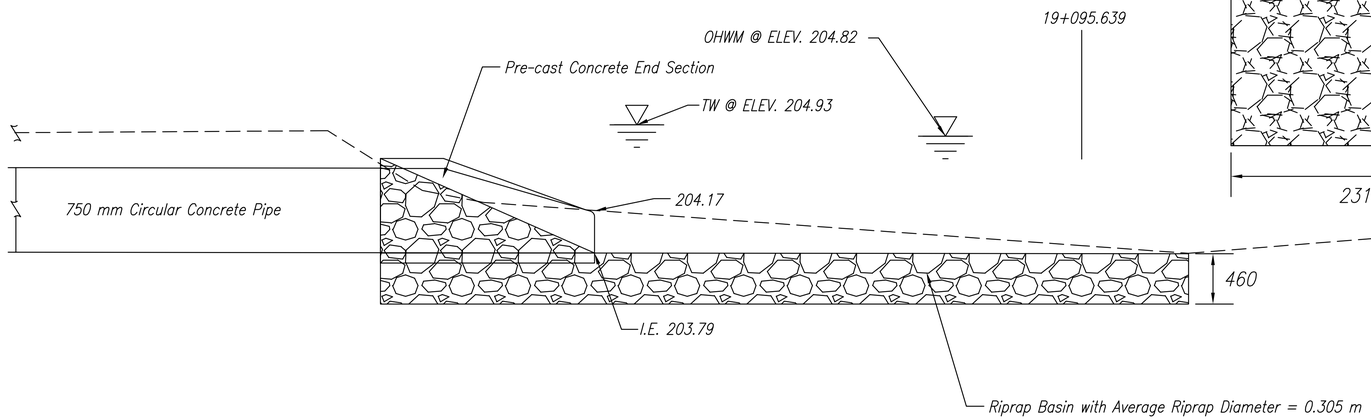

CROSS SECTION @ 19+095.64 SKEWED 1° 45' 30.24"

SCALE = 4:1

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DESIGN ENGINEER DATE

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CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

OUTFALL PLAN

HORIZONTAL SCALE	BRIDGE FILE
4:1	
VERTICAL SCALE	DESIGNATION
	9611280
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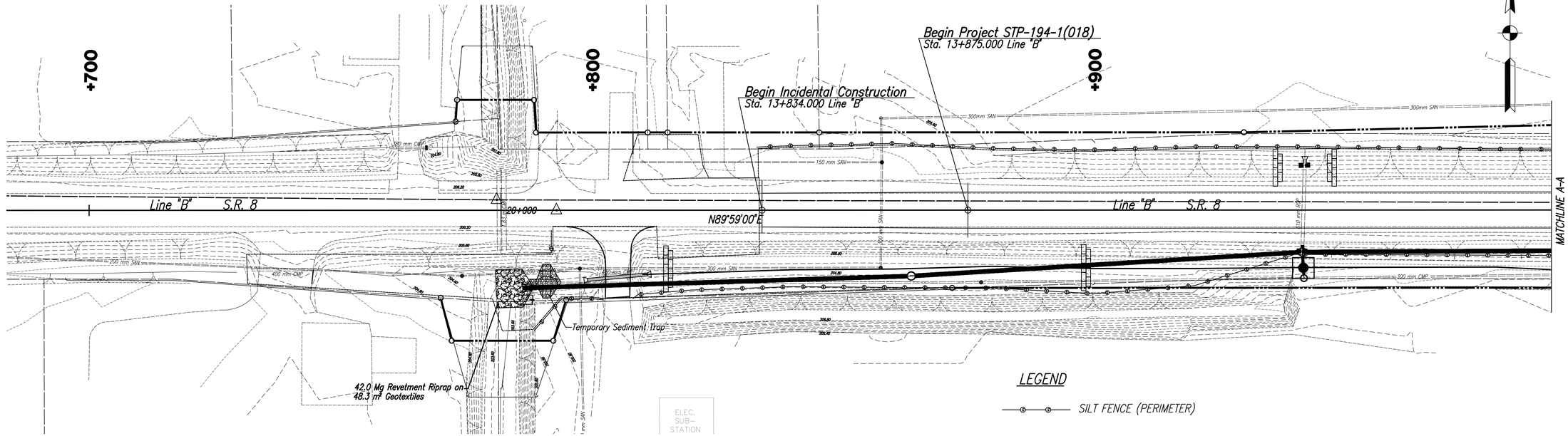

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DESIGN ENGINEER — DATE

DESIGNED: B.W.T. | DRAWN: J.H.
CHECKED: N.V.T. | CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1:4	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
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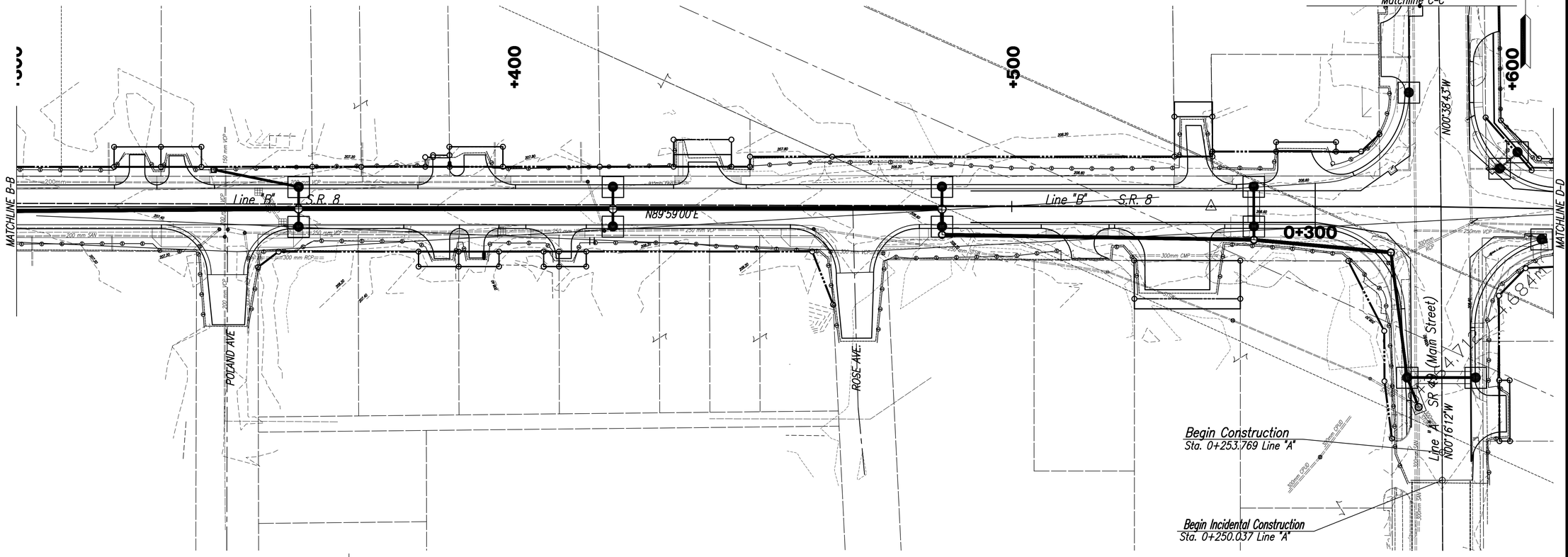
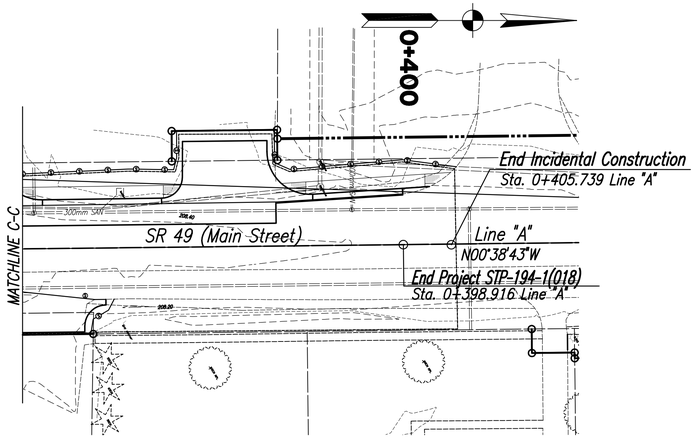
CONTRACT	PROJECT
R-29694	STP-194-1(108)

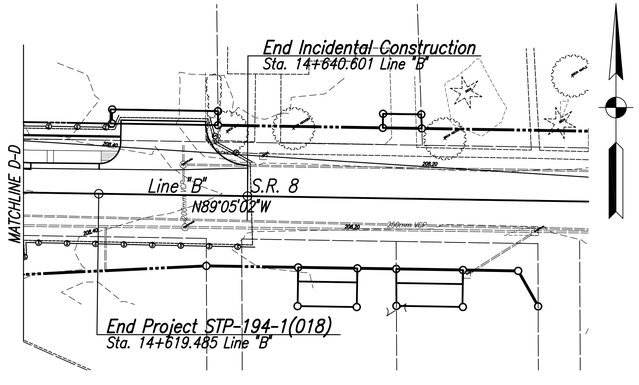




LEGEND

SILT FENCE (PERIMETER)

INLET PROTECTION DEVICE



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NITIN V. TIMBLE REGISTERED No. 10707587 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Nitin V. Timble 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1:4	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
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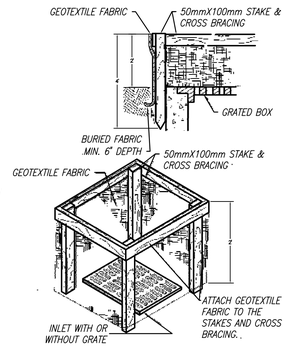
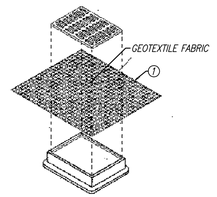
EROSION CONTROL NOTES:

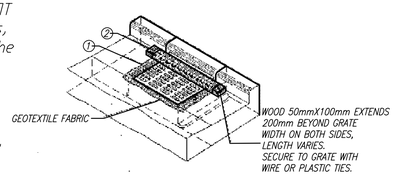
1. The project includes road improvements along S.R. 8 and S.R. 49 and intersection improvements at the intersection of S.R. 8 and S.R. 49. The project is located at Latitude 41°19'06" and Longitude -87°01'35" according to the EPA Longitude and Latitude Site.
2. Hydrologic Unit Code = 07120001090130
3. IDEM 401, Corps of Engineers 404, IDNR Construction in a Floodway, and Rule 5 storm water permit are required.
4. Stormwater for this project will discharge into Pleasant Township Ditch at Station 13+786.32 Line "B" which outlets into the Kankakee River.
5. Pleasant Township Ditch crosses S.R. 8 and is located at Latitude 41°19'07" and Longitude -87°02'08 according to the EPA Longitude and Latitude Site. No Wetlands are affected by this project.
6. There are no apparent areas near the project where stormwater may directly enter groundwater.
7. This project is not located within the 100 year Floodplain.
8. Pre-construction discharge will remain similar to post-construction discharge.
9. No known offsite construction activities are associated with this project.
10. In the event soil stockpiles, borrow and/or disposal areas are utilized either on or off-site, contractor shall contact the local Soil and Water Conservation District with locations, except if area is located at a commercially operated facility off-site.
11. Potential pollutant sources associated with the construction activities are primary exposed soils. All other pollutant sources are associated with construction equipment and are considered minimal. Contractor shall maintain equipment and avoid fuel spillage and leakages. Adverse effects of exposed soil shall be minimized by appropriate measures shown in these plans and INDOT standard drawings and specifications.
12. Permanent seeding shall be applied as shown in the plans at the rate and mixtures given in the INDOT Standard Specifications.
13. The implementation and maintenance requirements for erosion control techniques shown on this erosion control sheet are supplemented by the INDOT standard drawings and specifications. For locations of erosion control devices, see sheets 29-30 and the Temporary Erosion Control Table on Sheet 40 of the Plan Set. .
14. In the event of spills on the site, contractor will clean the effected area by approved methods. Contact IDEM Office of Land Quality for details. Contractor shall be required to follow INDOT Specification 108.03 for all pollutants, including but not limited to fuels, lubricants, asphalts, raw sewage, & concrete waste.
15. The project site owner or their representative, knowledgable in erosion and sediment control, shall inspect the site for stormwater pollution prevention deficiencies at least weekly and again within 24 hours of every rain event equal to or in excess of 1/2 inch.
16. The project site owner or their representative, knowledgable in erosion and sediment control shall be responsible for compliance to 327-IAC-15-5-6.5-8A.
17. Potential post construction pollutants associated with this project include, but are not limited to: deicing agents, oil, grease, antifreeze, brake fluid, brake dust, rubber fragments, gasoline, diesel fuel and other hydrocarbons, metals from vehicular and other sources, grit from wearing of the road surface and falling off of vehicles, trash (including bacteria and other biological agents contained in the trash) from littering and other types of improper disposal or storage, and elevated receiving water temperatures from stormwater runoff contact with impervious surfaces.
18. For Geotextile Fabric Specifications See 2008 INDOT Standard Specifications
19. See INDOT Std. Dwg. E205-TECP-02 for temporary silt fence details.
20. The Contracter shall install four Stablilized Constructiion Entrances. One Stablilized Construction Entrance will be installed at each entrance and exit to the project site from S.R. 8 and S.R. 49
21. Check Dams, Refer to INDOT Standard Drawing No. E-205-TECD-02



TEMPORARY DITCH INLET PROTECTION



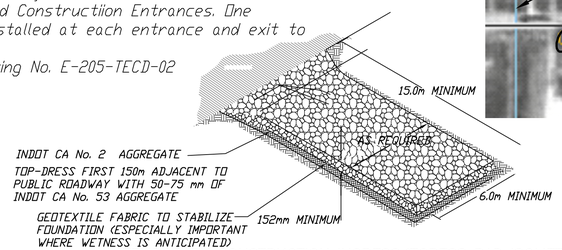
TEMPORARY DITCH INLET PROTECTION, (WITHOUT CURB BOX)



TEMPORARY INLET PROTECTION, (WITH CURB BOX)

INSTALLATION NOTES:

Trim excess fabric in the flow line to within 3" of the grate.
The contractor shall demonstate a method of maintenance, using a sewn flap, hand holds or other method to prevent accumulated sediment from entering the inlet.



TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD ISOMETRIC VIEW
SCALE: N.T.S.

PERMANENT SEEDING:

1. See INDOT 2008 Standard Specifications Section 621 - Seeding and Sodding.
2. Optimum seeding dates are March 1 to May 10 and August 10 to September 30. Permanent seeding placed between May 10 and August 10 may need to be irrigated.
3. INDOT Seed Mixture Type D shall be used for all permanent seeding.
4. Inspect within 24 hours of each rain event and at least once every seven calendar days until the vegetation is successfully established.
5. Characteristics of a successful stand include vigorous dark green or bluish green seedlings with a uniform vegetative cover density of 90 percent or more.
6. Repair damaged, bare, gullied, or sparsely vegetated areas and then reseed.
7. If plant cover is sparse or patchy, evaluate the plant materials chosen, soil fertility, and moisture condition; repair affected areas either by overseeding or preparing a new seedbed and reseeding.
8. If vegetation fails to grow, consider soil testing to determine soil pH or nutrient deficiency problems.

SODDING:

1. See INDOT 2008 Standard Specifications Section 621 - Seeding and Sodding.
2. Sod should not be installed during hot weather, on dry soil, frozen soil, compacted clay, loose sand or gravelly substrate soils, aggregate, or pesticide treated soil.
3. The ideal time to lay sod is May 1 to June 1 or September 1 to September 30.
4. Install sod within thirty-six hours of its cutting.
5. Store the sod in a shaded location during installation.
6. Inspect within 24 hour of each rain event and at least once every seven calendar days until sod is well rooted.
7. Keep sod moist until fully rooted.

GENERAL NOTES:

When removing or maintaining Inlet Protection, care shall be taken so that the sediment trapped on the geotexile fabric does not fall into the inlet. Any material falling into the inlet shall be removed immediately.

① Finished size, including flap pockets where required, shall extend a minimum of 10" around the perimeter to facilitate maintenance or removal.

② For Inlet Protection, (with curb box), an additional 18" of fabric is wrapped around wood and secured with staples. The wood shall not block the entire height of the curb box opening.

Temporary Erosion Control Quantities

Item	Unit	Qty
No. 2 Stone	Mg	90.7
Temporary Ditch Inlet Protection	EACH	20
Temporary Silt Fence	m	1821.5
Check Dam	m	77.1
Temporary Sediment Trap	Mg	6.8

RIPRAP MAINTENANCE REQUIREMENTS

1. Inspect within 24 hours of a rain event and at least once every seven calendar days.
2. Inspect for stone displacement; replace stones ensuring placement at finished grade.
3. Check for erosion or scouring around sides of the apron; repair immediately.
4. Check for piping or undercutting; repair immediately.

SILT FENCE MAINTENANCE REQUIREMENTS

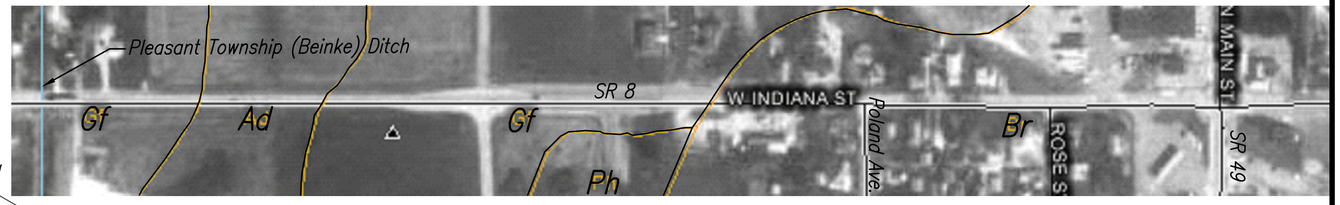
1. Inspect the silt fence periodically and after each storm event.
2. If fence fabric tears, starts to decompose, or in any way becomes ineffective, replace the affective portion immediately.
3. Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
4. Take care to avoid undermining the fence during clean out.
5. After the contributing drainage area has been stabilized remove the fence and sediment deposits, bring the disturbed area to grade.

EROSION CONTROL SEQUENCE

1. Prior to construction, silt fence shall be placed around the perimeter as shown and use of inlet protection devices on inlets.
2. The Temporary Construction Ingress/Egress Pads shall be constructed.
3. Revetment Riprap and Check Dams shall be placed as shown.
4. Install temporary seeding and inlet protection devices
5. Road Construction
6. Sodding and permanent seeding of disturbed areas
7. All temporary sediment control devices shall be removed after stabilization of ground cover, and as directed by engineer.

SOIL TYPES: USDA NRCS SOIL REPORT

Map Unit Symbol	Map Unit Name
Ad	Adrian muck, drained
Br	Bourbon sandy loam
Gf	Gilford sandy loam
Ph	Pinhook loam



SOILS MAP
SCALE: N.T.S.

HERCEG
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Fax (219) 288-0195

NITIN V. TIMBLE REGISTERED No. 10707587 STATE OF INDIANA PROFESSIONAL ENGINEER

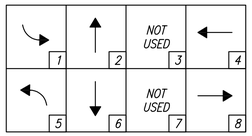
RECOMMENDED FOR APPROVAL Nitin V. Timble 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS NOTES & DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	9611280
SURVEY BOOK	SHEETS
	32 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)



PHASE DIAGRAM
No Preferentiality (All Red)

FOUNDATION SCHEDULE

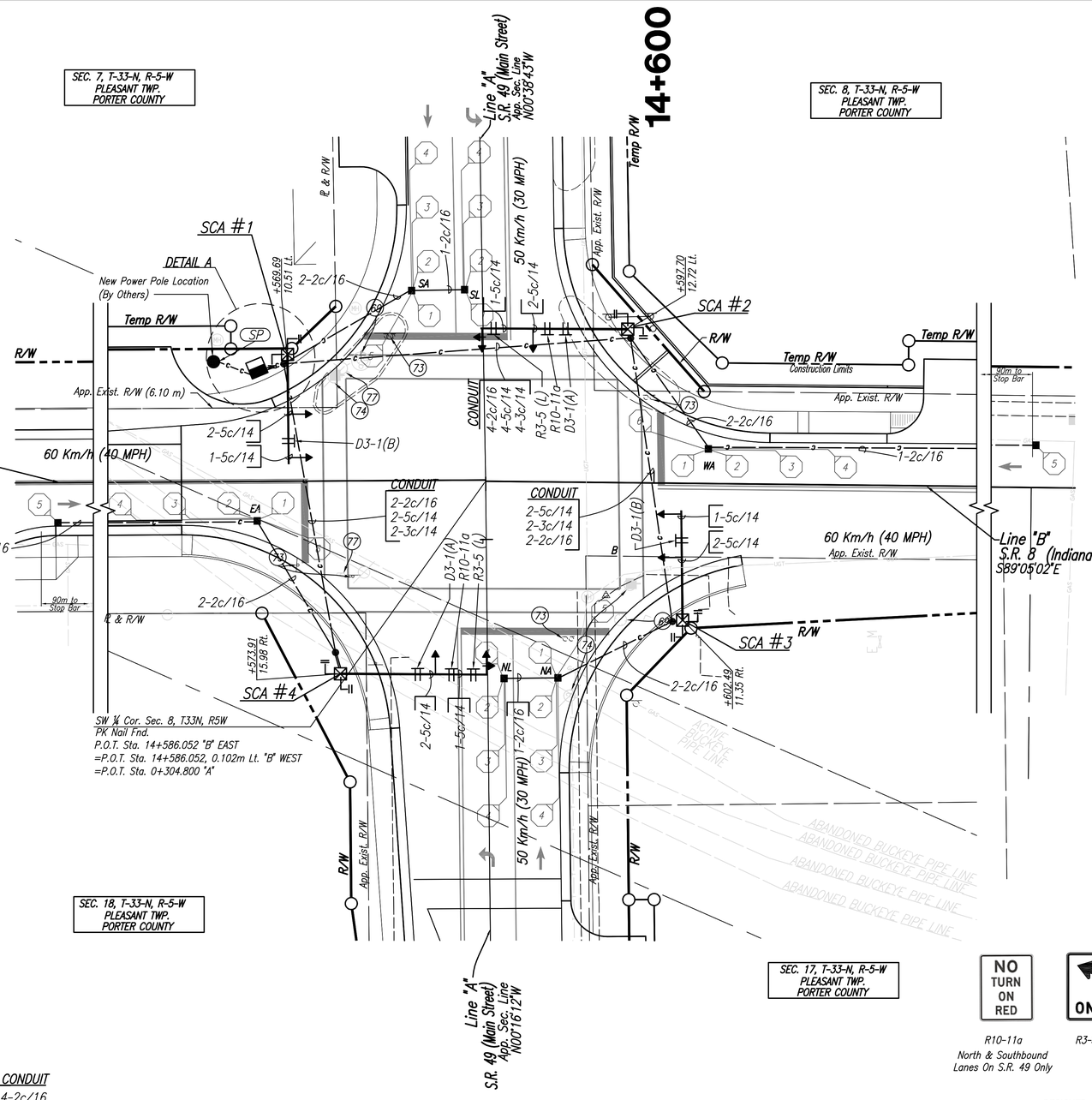
LOCATION	SIGNAL ARM
SCA #1	9.1m
SCA #2	12.2m
SCA #3	9.1m
SCA #4	12.2m

LOOP TAGGING TABLE

LANES	TAG NUMBER
NL	NL1-1,2,3,4
NA	NA6-1,2,3,4,5
EA	EA8-1,2,3,4,6
EA	EA8-5
SL	SL5-1,2,3,4
SA	SA2-1,2,3,4,5
WA	WA4-1,2,3,4,6
WA	WA4-5

COUNTING LOOP DESIGNATION

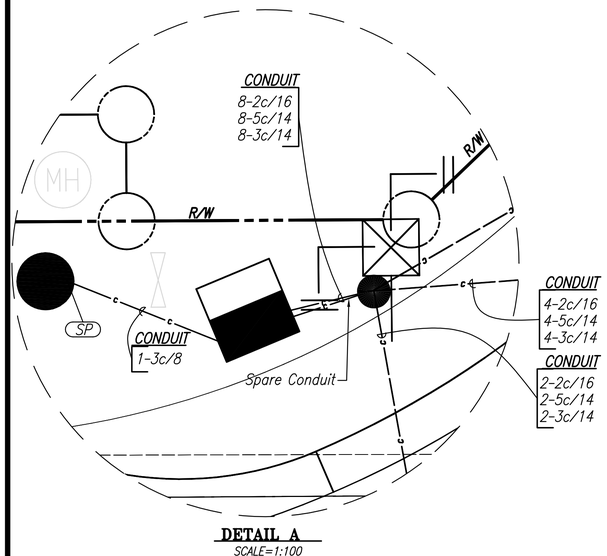
LANES	COUNTING LOOP TAG
NL	4
NA	1,5
EA	1,6
SL	4
SA	1,5
WA	1,6



SCALE=1:200

LEGEND

- SIGNAL CANTILEVER STRUCTURE & FOUNDATION
- EXISTING LIGHT POLE
- EXISTING STRAIN POLE
- TRAFFIC SIGNAL HEAD, 3 FACE (300mm LED RED, 300mm AMBER ARROW, 300mm LED GREEN ARROW) SIGNAL INDICATION
- TRAFFIC SIGNAL HEAD, 3 FACE (300mm LED RED, 300mm AMBER, 300mm LED GREEN) SIGNAL INDICATION
- 450mm WALK-DON'T WALK LED INDICATOR WITH PUSH BUTTON ACTIVATION
- 8-PHASE MENU-DRIVEN CONTROLLER & CABINET ON "P-1" FOUNDATION
- (69) REMOVE EXIST. STRAIN POLE
- (73) RELOCATE SIGN
- (74) RELOCATE POWER POLE (BY OTHERS)
- (77) REMOVE LIGHT POLE
- —c— TRAFFIC SIGNAL, 50 mm GALVANIZED STEEL CONDUIT
- HANDHOLE (SIGNAL)
- DETECTOR HOUSING
- (X) LOOP DETECTION (SEE STD DRW # 805-SGLI-01)
- TRAFFIC SIGN (AS INDICATED)
- (SP) SIGNAL SERVICE IN 50mm (2") GALVANIZED STEEL CONDUIT
- POWER POLE (By Others)



DETAIL A
SCALE=1:100

OVERHEAD SIGNS

R10-11a North & Southbound Lanes On S.R. 49 Only | R3-5 (L) | D3-1(A) | D3-1(B)

NOTE: See Sheet 36 for Sign Details

ALL STATION AND OFFSET ARE FROM LINE "B" UNLESS NOTED

DESIGNED BY: _____ DATE: 02/26/2009

HERCEG
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COMM. NO. 01-064-086

INDIANA DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN

Brian W. W. Thomasen 02/26/09
DESIGN ENGINEER DATE

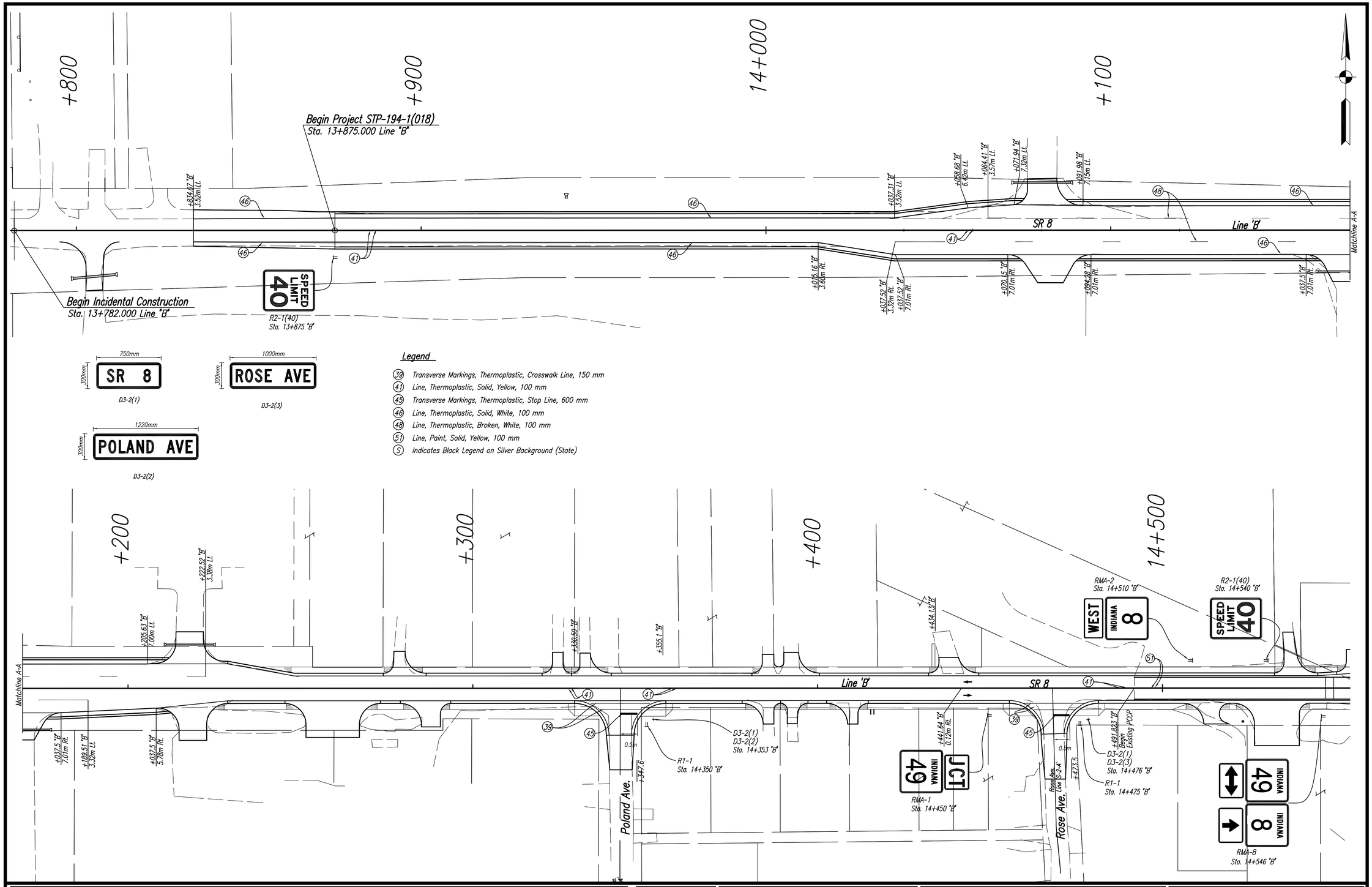
BRIAN W. W. THOMASEN REGISTERED No. 10707971 STATE OF INDIANA PROFESSIONAL ENGINEER

INTERSECTION TRAFFIC SIGNAL
SR 8 & SR 49
KOUTS, PORTER CO, LAPORTE DISTRICT

CONTRACT NO. R-29694

SCALE = 1:200

DES. NO.	PROJECT NO.	YEAR	SHEET	TOTAL
9611280	STP-194-1(018)	2008	33	67



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BRIAN W.W. THOMAEN
REGISTERED
No. 10707971
STATE OF INDIANA
PROFESSIONAL ENGINEER

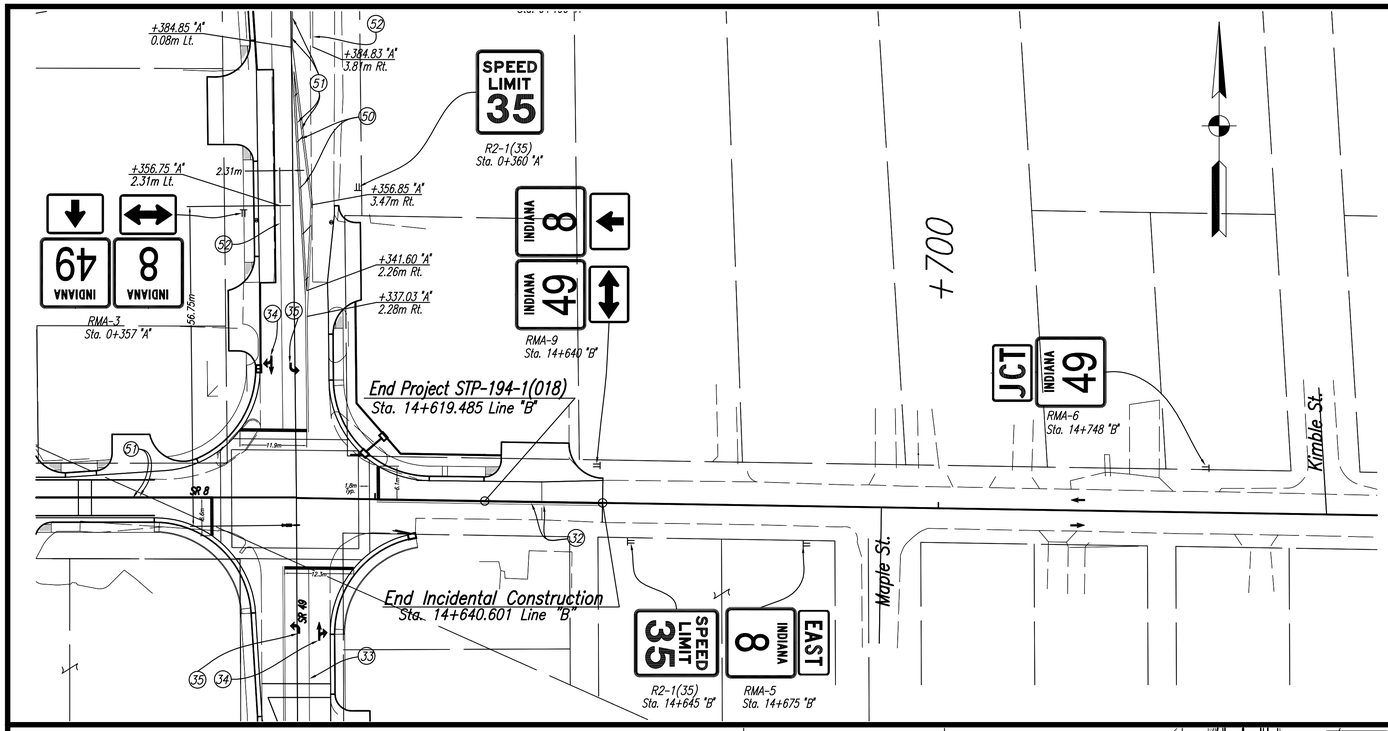
RECOMMENDED FOR APPROVAL Brian W.W. Thomaen 02/26/2009
DESIGN ENGINEER DATE

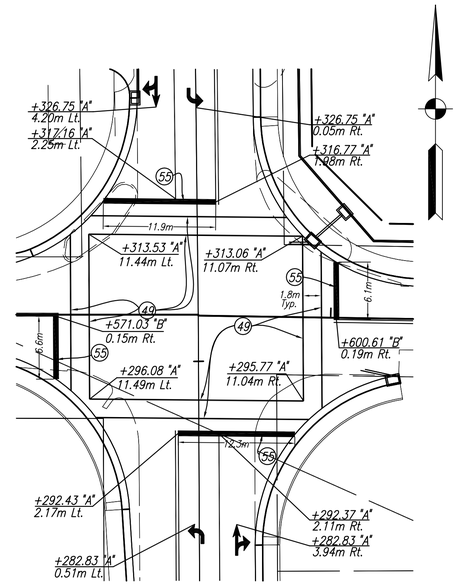
DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

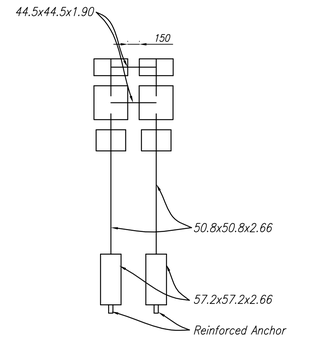
PAVEMENT MARKINGS & SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1:500	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	34 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)





Intersection Detail
N.T.S.

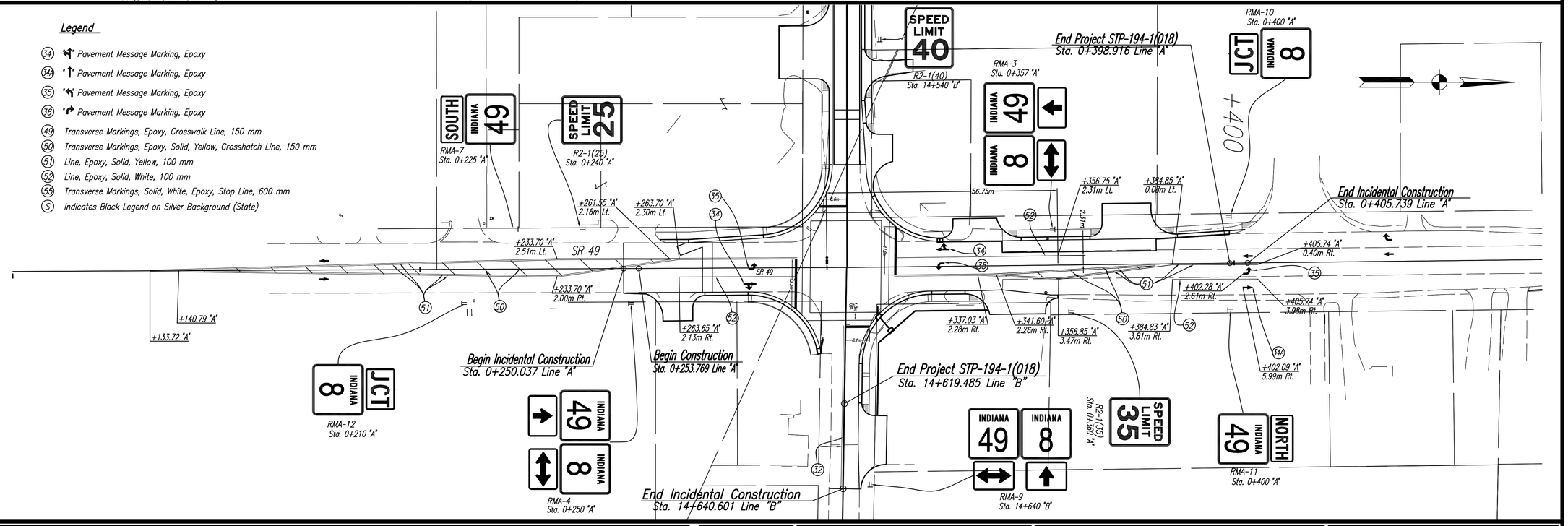


ROUTE MARKER POSTS ASSEMBLY DETAIL
N.T.S.

Notes:
1. THE DETAIL ABOVE IS FOR 600 RMA SERIES AND POSTS
2. ALL DIMENSIONS ARE IN MILLIMETERS

Legend

- (34) Pavement Message Marking, Epoxy
- (34A) Pavement Message Marking, Epoxy
- (35) Pavement Message Marking, Epoxy
- (36) Pavement Message Marking, Epoxy
- (49) Transverse Markings, Epoxy, Crosswalk Line, 150 mm
- (50) Transverse Markings, Epoxy, Solid, Yellow, Crosshatch Line, 150 mm
- (51) Line, Epoxy, Solid, Yellow, 100 mm
- (52) Line, Epoxy, Solid, White, 100 mm
- (55) Transverse Markings, Solid, White, Epoxy, Stop Line, 600 mm
- (S) Indicates Black Legend on Silver Background (State)



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BRIAN W.W. THOMAGEN
REGISTERED
No. 10707971
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Brian W.W. Thomagen 02/26/2009
DESIGN ENGINEER DATE

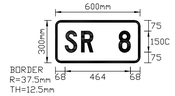
DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
& SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1:500	
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	35 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)

SIGN DETAIL
1:20



SIGN NUMBER	D3-2(1)
WIDTH x HGHT.	600mm x 300mm
BORDER WIDTH	12.5mm
CORNER RADIUS	37.5mm
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT

Dimensions are in **mm**

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

S	R		8	LENGTH	SERIES/SIZE
68	184	267	449	464	C150

SIGN DETAIL
1:20

SIGN NUMBER	D3-2(2)
WIDTH x HGHT.	1200mm x 300mm
BORDER WIDTH	12.5mm
CORNER RADIUS	37.5mm
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT

Dimensions are in **mm**

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

P	O	L	A	N	D		A	V	E	LENGTH	SERIES/SIZE
59	168	288	373	494	609	692	842	946	1064	1082	C150

SIGN DETAIL
1:20

SIGN NUMBER	D3-2(3)
WIDTH x HGHT.	1050mm x 300mm
BORDER WIDTH	12.5mm
CORNER RADIUS	37.5mm
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT

Dimensions are in **mm**

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

R	O	S	E		A	V	E	LENGTH	SERIES/SIZE
94	202	316	431	508	658	761	880	863	C150

SIGN DETAIL
1:20

SIGN NUMBER	D3-1(A)
WIDTH x HGHT.	1950mm x 450mm
BORDER WIDTH	12.5mm
CORNER RADIUS	37.5mm
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT

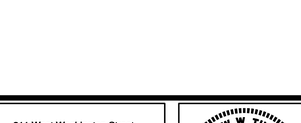
Dimensions are in **mm**

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

I	N	D	I	A	N	A		S	T	LENGTH	SERIES/SIZE
97	189	403	617	699	944	1148	1351	1500	1705	1757	EM200

SIGN DETAIL
1:20



SIGN NUMBER	D3-1(B)
WIDTH x HGHT.	1350mm x 450mm
BORDER WIDTH	12.5mm
CORNER RADIUS	37.5mm
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	X	Y	WID	HT

Dimensions are in **mm**

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

M	A	I	N		S	T	LENGTH	SERIES/SIZE
60	289	534	626	788	937	1142	1231	EM200

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Fax (574) 288-0195

BRIAN W.W. THOMASEN REGISTERED No. 10707971 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Brian W.W. Thomasen 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

SIGNAGE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	
VERTICAL SCALE	DESIGNATION
AS SHOWN	9611280
SURVEY BOOK	SHEETS
16644	36 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)

SHEET SIGN & POST SUMMARY

SIGN										POST												
PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE	ENCAPSULATED LENS METAL THICKNESS AND SIGN AREA (m^2)			ENCLOSED LENS METAL THICKNESS AND SIGN AREA			U CHANNEL				SQUARE								
														50.8 x 50.8 x 2.66			57.2 x 57.2 x 2.66		63.5 x 63.5 x 2.66			
														REINFORCED			REINFORCED		UNREINFORCED		UNREINFORCED	
				2.00	2.50	3.20	2.00	2.50	3.20	POST LENGTH (m)		POST TYPE		POST LENGTH (m)			POST LENGTH (m)		POST LENGTH (m)		POST LENGTH (m)	
										1	2	TYPE "A"	TYPE "B"	1	2	TOTAL	1	TOTAL	1	TOTAL	1	2	TOTAL
34 / B	14+350.00 RT.	R1-1-A	600x600	0.36															2.26	2.26			
34 / B	14+353.00 RT.	"STREET SIGN"																	1.40	1.40			
		D3-2(1)	300x750	0.23																			
		D3-2(2)	300x1220		0.37																		
34 / B	14+450.00 RT.	"RMA-1"																	2.42	2.42			
		M2-1 (S)	375x525	0.20																			
		M1-16	600x600	0.36																			
34 / B	14+475.00 RT.	R1-1-A	600x600	0.36															2.36	2.36			
34 / B	14+476.00 RT.	"STREET SIGN"																	1.76	1.76			
		D3-2(1)	300x750	0.23																			
		D3-2(3)	300x1000		0.30																		
34 / B	14+510.00 LT.	"RMA-2"																	2.30	2.30			
		M3-4 (S)	600x300	0.20																			
		M1-16	600x600	0.36																			
34 / B	14+546.00 RT.	"RMA-8"																	4.74	4.74			
		M6-4 (S)	375x525	0.20																			
		M6-3 (S)	375x525	0.20																			
		M1-16	600x600	0.36																			
		M1-16	600x600	0.36																			
35 / B	14+640.00 LT.	"RMA-9"																	4.85	4.85			
		M6-4 (S)	375x525	0.20																			
		M6-3 (S)	375x525	0.20																			
		M1-16	600x600	0.36																			
		M1-16	600x600	0.36																			
35 / B	14+675.00 RT.	"RMA-5"																	2.24	2.24			
		M3-2 (S)	600x300	0.20																			
		M1-16	600x600	0.36																			
35 / B	14+748.00 LT.	"RMA-6"																	2.39	2.39			
		M2-1 (S)	375x525	0.20																			
		M1-16	600x600	0.36																			
34 / B	13+875.00 RT.	R2-1 (40)	600x900	0.54															2.69	2.69			
34 / B	14+540.00 LT.	R2-1 (40)	600x900	0.54															2.69	2.69			
35 / B	14+645.00 RT.	R2-1 (35)	600x900	0.54															2.69	2.69			
35 / A	0+240.00 LT.	R2-1 (25)	600x900	0.54															2.69	2.69			
35 / A	0+360.00 RT.	R2-1 (35)	600x900	0.54															2.69	2.69			
35 / A	0+210.00 RT.	"RMA-12"																	2.23	2.23			
		M2-1 (S)	375x525	0.20																			
		M1-16	600x600	0.36																			
35 / A	0+225.00 LT.	"RMA-7"																	2.23	2.23			
		M3-3 (S)	600x300	0.20																			
		M1-16	600x600	0.36																			
35 / A	0+250.00 RT.	"RMA-4"																	2.23	2.23			
		M6-4 (S)	375x525	0.20															2.22	2.22			
		M6-3 (S)	375x525	0.20																			
		M1-16	600x600	0.36																			
		M1-16	600x600	0.36																			
35 / A	0+357.00 LT.	"RMA-3"																	2.09	2.09			
		M6-4 (S)	375x525	0.20															2.76	2.76			
		M6-3 (S)	375x525	0.20																			
		M1-16	600x600	0.36																			
		M1-16	600x600	0.36																			
35 / A	0+400.00 LT.	"RMA-10"																	2.52	2.52			
		M2-1 (S)	375x525	0.20																			
		M1-16	600x600	0.36																			
35 / A	0+400.00 RT.	"RMA-11"																	2.72	2.72			
		M3-1 (S)	600x300	0.20																			
		M1-16	600x600	0.36																			
				12.84	0.67	0.00	0.00	0.00	0.00														

MILE POST MARKER TABLE

M.P. NO.	LOCATION	SIGN CODE	SIZE	POST LENGTH (m)	REMARKS

NOTE: To Reviewer
Sign size and Summary post size will be completed next submission at Final Field check plans.

NOTE:
] - *Indicates Signs to be Mounted on Common Posts*

DESIGNED BY: KEN HERCEG & ASSOCIATES, INC. DATE: 02/26/2009

INDIANA DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN

Brian W.W. Thomasen 02/26/09
DESIGN ENGINEER DATE

BRIAN W.W. THOMASEN REGISTERED No 10707971 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET SIGN & POST SUMMARY

CONTRACT NO. R-29694

SCALE:

DES. NO.	PROJECT NO.	YEAR	SHEET	TOTAL
9611280	9909-101C		37	67

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE			EXCAVATION		HMA FOR APPROACHES						HMA MATERIALS					CONCRETE FOR APPROACHES		SUBGRADE TREATMENT		COMPACTED AGGREGATE FOR SURFACE NO. 53		250 mm PCCP	REMARKS
						COMPACTED AGGREGATE BASE	HMA	CONCRETE												SURFACE 9.5 mm	INTERMD. 19.0 mm	BASE 19.0 mm	INTERMD. OG19.0 mm	BASE 19.0 mm								
														kg/m²						kg/m²					DEPTH		TYPE		DEPTH			
									1	2	3	CUT	FILL	90	120	150	210	240	480	90	150	480	135	180	150mm	225mm	IIIA	IA	150mm		250mm	
		m	m	m	m	m²	m²	m²	%	%	%	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	
Line 'B'																															
13+805.2	*CLASS II*	*4.9*	*14.0*	*7.6,4.5*					*-2.00*	*-5.96*				*79.19*			*24.7*														
14+080.1	*MOD. CLASS II*	*8.5*	*7.6*	*4.5,7.6*					*-2.00*	*-3.00*															*71.48*		*71.48*				
14+082.2	*CLASS IV*	*12.0*	*11.6*	*6.1,6.1*	*3.2*			*37.9*	*-2.00*	*-2.63*																*102.49*	*102.49*				
14+168.7	*CLASS IV*	*12.0*	*11.4*	*6.1,6.1*	*3.0*		*35.8*		*-2.00*	*-3.44*				*102.49*		*24.7*			*102.5*								*102.49*				
14+217.9	*CLASS IV*	*7.9*	*9.3*	*6.1,6.1*					*-2.00*	*3.02*				*80.63*		*24.7*			*24.7*								*80.63*				
14+218.8	*CLASS IV*	*8.0*	*10.4*	*6.1,6.1*					*-2.00*	*-5.73*				*90.18*		*24.7*			*24.7*								*90.18*				
14+259.4	*Mod. CLASS III*	*15.5*	*10.6*	*6.1,6.1*					*2.00*	*-0.91*	*-1.43*															*180.71*	*180.71*				
14+278.7	*CLASS I*	*3.3*	*7.1*	*3.0,6.1*	*2.7*	*9.0*			*-2.00*	*-0.87*															*24.44*		*24.44*				
14+287.8	*CLASS I*	*5.5*	*7.6*	*3.0,6.1*					*2.00*	*-1.12*															*51.66*		*51.66*				
14+324.7	*Mod.CLASS I*	*3.1*	*6.8*	*3.0,2.4*	*2.4*		*7.5*		*2.00*	*-4.15*															*15.71*		*15.71*				
14+332.6	*Mod. CLASS I*	*3.0*	*6.6*	*2.4,6.1*	*2.2*		*6.6*		*2.00*	*-2.18*															*22.42*		*22.42*				
14+342.9	*STREET AP.*	*8.1*	*20.1*	*9.2,9.2*	*16.4*	*133.0*	*133.0*		*-0.47*											*65.77*	*65.77*	*65.77*					*65.77*				*Poland Ave.*
14+385.6	*Mod. CLASS I*	*3.3*	*6.2*	*3.0,1.5*	*1.8*		*6.0*		*0.10*	*-11.46*															*17.11*		*17.11*				
14+385.8	*Mod. CLASS I*	*3.1*	*6.8*	*6.1,1.9*	*1.4*	*4.3*			*3.15*	*3.76*															*25.50*		*25.50*				
14+392.4	*Mod. CLASS I*	*4.3*	*6.8*	*1.5,6.1*	*2.4*		*10.3*		*0.74*	*-8.26*															*27.39*		*27.39*				
14+392.7	*Mod. CLASS I*	*2.9*	*6.7*	*1.9,3.0*	*1.3*	*3.7*			*2.00*	*5.08*															*18.37*		*18.37*				
14+410.2	*CLASS I*	*3.0*	*6.8*	*6.1,3.0*	*1.4*		*4.2*		*2.00*	*5.95*															*26.12*		*26.12*				
14+438.0	*CLASS I*	*5.7*	*5.3*	*3.0,6.1*	*0.9*	*5.3*			*2.67*	*-6.31*															*34.91*		*34.91*				
14+468.1	*STREET AP.*	*5.0*	*26.4*	*9.2,9.2*	*21.4*	*106.9*	*106.9*		*-2.02*											*61.55*	*61.55*	*61.55*					*61.55*				*Rose Ave.*
14+514.3	*Mod. CLASS I*	*7.3*	*6.8*	*6.1,3.0,2.5*					*-2.00*	*-10.19*															*36.33*		*36.33*				
14+533.2	*CLASS III*	*13.0*	*13.1*	*6.1,3.0*	*8.6*		*111.4*		*2.00*	*-5.41*																*68.80*	*68.80*				
14+537.6	*CLASS I*	*3.1*	*12.6*	*3.0,6.1*	*6.2*	*19.2*			*3.15*	*-5.41*															*29.63*		*29.63*				
14+556.7	*MOD. CLASS I*	*6.7*	*6.8*	*3.0,6.1*	*0.2*	*1.3*			*2.00*	*3.21*															*53.17*		*53.17*				
14+628.5	*CLASS III*	*12.0*	*6.9*	*3.0,6.1*	*2.9*		*34.6*		*2.00*	*-4.40*																*58.16*	*58.16*				
Line 'A'																															
+263.3	*CLASS III*	*7.3*	*7.0*	*6.1,3.0*	*1.4*			*10.1*	*2.00*	*2.60*																*50.65*	*50.65*				
+336.1	*CLASS III*	*10.7*	*5.5*	*6.1,3.0*					*2.00*	*-9.87*																*69.25*	*69.25*				
+346.7	*CLASS III*	*13.7*	*5.5*	*6.1,3.0*	*2.8*			*37.8*	*2.00*	*-5.66*																*53.03*	*53.03*				
+373.7	*CLASS III*	*12.0*	*8.8*	*3.0,6.1*	*2.8*			*33.6*	*2.00*	*-5.84*																*86.22*	*86.22*				
13+782.0	*LINE"B"*																			*629.5*	*741.0*	*1542.8*						*6937.4*		*576.8*	*84.6*	
+250.0	*LINE "A"*																			*11.70*	*17.06*	*89.18*						*237.8*		*45.71*	*52.5*	

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RECOMMENDED FOR APPROVAL Brian W.W. Thomasen 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

APPROACH TABLE

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	38 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE	SLOPE	DESCRIPTION		LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURAL BACKFILL TYPE 1	GEOTEXTILES	REVETMENT RIPRAP size-mm	CONCRETE, CLASS A, FOR STR.	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR.	REMARKS
	STATION	LEFT	RIGHT	CROSS	OFFSET			PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE			COVER	UP STREAM	DOWN STREAM										TYPE	SLOPE	EA.	TYPE	SLOPE	EA.		
					m	mm	%			m		m	ELEV.	ELEV.	YRS.				m3	m2	Mg	m3	EA.									
											-																				-	-
97	13+863.71		X		13.1	750	0.13%	2	MANHOLE D-4	77.4	-	0.6	203.889	203.788	50	N	7	1	74.326	-	-	-	-	-	-	-	-	-	-	Outfall	GRATE 205.236
											-																				-	-
98	13+941.59		X		8.4	750	0.13%	2	MANHOLE D-4	78.0	-	0.7	204.021	203.919	50	N	7	1	77.311	-	-	-	-	-	-	-	-	-	-	97	GRATE 205.476
											-																				-	-
99	14+024.87		X		7.9	750	0.13%	2	MANHOLE D-4	83.3	-	1.1	204.159	204.051	50	N	7	1	130.124	-	-	-	-	-	-	-	-	-	-	98	GRATE 205.98
											-																				-	-
100	14+125.47		X		7.4	750	0.13%	2	MANHOLE D-4	100.6	-	1.0	204.320	204.189	50	N	7	1	207.643	-	-	-	-	-	-	-	-	-	-	99	GRATE 206.324
											-																				-	-
101	14+230.00		X		2.0	750	0.13%	2	MANHOLE D-4	104.7	-	0.8	205.010	204.874	50	N	7	1	198.021	-	-	-	-	-	-	-	-	-	-	100	GRATE 206.843
											-																				-	-
102	14+295.03		X		0.9	675	0.15%	2	MANHOLE D-4	65.0	-	0.7	205.513	205.416	50	N	7	1	99.590	-	-	-	-	-	-	-	-	-	-	101	GRATE 207.22
											-																				-	-
103	14+357.03		X		0.4	675	0.15%	2	MANHOLE D-4	62.0	-	1.0	205.637	205.544	50	N	7	1	108.228	-	-	-	-	-	-	-	-	-	-	102	GRATE 207.646
											-																				-	-
104	14+420.04		X		0.5	675	0.15%	2	MANHOLE D-4	63.0	-	1.4	205.762	205.667	50	N	7	1	168.617	-	-	-	-	-	-	-	-	-	-	103	GRATE 208.143
											-																				-	-
105	14+486.00		X		0.5	600	0.17%	2	MANHOLE C-4	66.0	-	1.8	205.949	205.837	50	N	7	1	257.754	-	-	-	-	-	-	-	-	-	-	104	GRATE 208.65
											-																				-	-
106	14+548.54		X		6.7	600	0.17%	2	MANHOLE C-4	62.5	-	1.6	206.154	206.048	50	N	7	1	256.596	-	-	-	-	-	-	-	-	-	-	148	GRATE 208.678
											-																				-	-
107	14+576.01		X		9.2	600	0.18%	2	MANHOLE C-4	27.6	-	1.4	206.231	206.184	50	N	7	1	96.229	-	-	-	-	-	-	-	-	-	-	106	GRATE 208.546
											-																				-	-
127	14+548.50	X			4.0	375	0.46%	2	INLET B-15	8.2	-	0.6	207.383	207.349	50	N	7	1	5.862	-	-	-	-	-	-	-	-	-	-	149	GRATE 208.616
											-																				-	-
128	14+486.01	X			4.0	375	0.43%	2	INLET B-15	4.5	-	0.7	207.260	207.246	50	N	7	1	12.346	-	-	-	-	-	-	-	-	-	-	105	GRATE 208.667
											-																				-	-
129	14+420.04	X			4.0	375	0.43%	2	INLET B-15	4.4	-	0.6	206.879	206.865	50	N	7	1	8.848	-	-	-	-	-	-	-	-	-	-	104	GRATE 208.159
											-																				-	-
130	14+357.04	X			4.0	375	0.43%	2	INLET C-15	4.4	-	0.4	206.358	206.344	50	N	7	1	5.778	-	-	-	-	-	-	-	-	-	-	103	GRATE 207.47
											-																				-	-
131	14+295.04	X			4.0	375	0.42%	2	INLET B-15	4.9	-	0.6	205.958	205.942	50	N	7	1	5.170	-	-	-	-	-	-	-	-	-	-	102	GRATE 207.244
											-																				-	-
132	14+230.06	X			7.1	375	0.37%	2	INLET B-15	9.1	-	0.5	205.620	205.591	50	N	7	1	10.321	-	-	-	-	-	-	-	-	-	-	101	GRATE 206.793
											-																				-	-
133	13+941.62		X		7.1	610	1.49%	2	CONNECT TO EX. PIPE	1.3	-	0.6	204.608	204.600	50	N	7	1	1.158	-	-	-	-	-	-	-	-	-	-	98	GRATE 205.804
											-																				-	-
134	14+230.00		X		4.0	375	0.76%	2	INLET C-15	2.0	-	0.6	205.597	205.591	50	N	7	1	2.408	-	-	-	-	-	-	-	-	-	-	101	GRATE 206.889
											-																				-	-
135	14+294.98		X		4.0	375	0.51%	2	INLET B-15	3.1	-	0.6	205.958	205.948	50	N	7	1	3.296	-	-	-	-	-	-	-	-	-	-	102	GRATE 207.241
											-																				-	-
136	14+357.02		X		4.0	375	0.47%	2	INLET B-15	3.6	-	0.6	206.358	206.347	50	N	7	1	5.112	-	-	-	-	-	-	-	-	-	-	103	GRATE 207.66
											-																				-	-
137	14+420.03		X		4.0	375	0.48%	2	INLET B-15	3.5	-	0.6	206.879	206.868	50	N	7	1	6.949	-	-	-	-	-	-	-	-	-	-	104	GRATE 208.153
											-																				-	-
138	14+486.02		X		4.0	600	0.25%	2	INLET C-15	3.5	-	1.7	205.985	205.979	50	N	7	1	15.207	-	-	-	-	-	-	-	-	-	-	105	GRATE 208.581
											-																				-	-
140	14+125.48		X		11.9	375	0.43%	2	CATCH BASIN E-7	4.5	-	0.4	204.758	204.744	50	N	7	1	5.221	-	-	-	-	-	-	-	-	-	-	100	GRATE 205.543
											-																				-	-

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CHECKED: N.V.T. CHECKED: B.W.T.

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STRUCTURE DATA SHEET

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	39 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION: STATION	LOCATION: LEFT	LOCATION: RIGHT	LOCATION: CROSS	LOCATION: OFFSET	SIZE	SLOPE	DESCRIPTION: PIPE TYPE	DESCRIPTION: MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	FLOW LINE: COVER	FLOW LINE: UP STREAM	FLOW LINE: DOWN STREAM	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURAL BACKFILL	GEOTEXTILES	REVETMENT RIPRAP size-mm	CONCRETE, CLASS A, FOR STR.	PIPE END SECTION	GRATED BOX END SECTION: TYPE	GRATED BOX END SECTION: SLOPE	GRATED BOX END SECTION: EA.	SAFETY METAL END SECTION: TYPE	SAFETY METAL END SECTION: SLOPE	SAFETY METAL END SECTION: EA.	CONNECT TO STR.	REMARKS
					m	mm	%			m		m	ELEV.	ELEV.	YRS.				m3	m2	Mg	m3	EA.								
141	13+941.78		X		11.5	450	0.39%	2	CATCH BASIN E-7	3.1	-	0.7	204.150	204.142	50	N	7	1	2.806	-	-	-	-	-	-	-	-	-	-	98	GRATE 205.299
											-																			-	-
142	14+229.98		X		9.5	375	0.38%	2	CATCH BASIN E-7	5.5	-	0.1	205.645	205.627	50	N	7	1	1.991	-	-	-	-	-	-	-	-	-	-	134	GRATE 206.125
											-																			-	-
147	13+941.91		X		13.6	375	0.06%	2	MANHOLE C-4	2.1	-	0.5	204.227	204.226	50	N	7	1	1.132	-	-	-	-	-	-	-	-	-	-	141	GRATE 205.131
											-																			-	-
148	14+486.02		X		5.7	600	0.42%	2	MANHOLE C-4	1.7	-	1.7	206.018	206.015	50	N	7	1	7.086	-	-	-	-	-	-	-	-	-	-	138	GRATE 208.664
											-																			-	-
149	14+548.53		X		4.0	375	0.68%	2	INLET C-15	2.7	-	0.6	207.361	207.349	50	N	7	1	6.233	-	-	-	-	-	-	-	-	-	-	106	GRATE 208.656
											-																			-	-
150	14+581.55		X		40.2	375	0.36%	2	MANHOLE C-4	6.4	-	1.1	206.547	206.529	50	N	7	1	13.240	-	-	-	-	-	-	-	-	-	-	221	GRATE 208.333
											-																			-	-
151	14+579.32	X			22.8	300	0.25%	2	INLET B-15 - INLET ONLY	0.0	-	0.6	EX.	EX.	50	N	7	1	1.200	-	-	-	-	-	-	-	-	-	-	Existing	GRATE 208.596
											-																			-	-
152	14+598.24	X			8.1	300	0.25%	2	INLET B-15	2.3	-	0.7	EX.	EX.	50	N	7	1	1.300	-	-	-	-	-	-	-	-	-	-	Existing	GRATE 208.491
											-																			-	-
153	14+606.91		X		6.5	300	0.25%	2	INLET B-15	3.2	-	0.8	EX.	EX.	50	N	7	1	1.400	-	-	-	-	-	-	-	-	-	-	Existing	GRATE 208.356
											-																			-	-
154	14+340.00	X			7.4	375	0.34%	2	CATCH BASIN E-7	17.4	-	0.3	206.414	206.358	50	N	7	1	7.876	-	-	-	-	-	-	-	-	-	-	130	GRATE 207.41
											-																			-	-
155	14+597.95	X			7.8	300	0.50%	2	INLET B-15	4.5	-	0.8	207.020	EX.	50	N	7	1	3.249	-	-	-	-	-	-	-	-	-	-	153	GRATE 208.422
											-																			-	-
221	14+579.51		X		34.3	450	0.30%	2	INLET C-15	25.3	-	1.3	206.454	206.381	50	N	7	1	69.883	-	-	-	-	-	-	-	-	-	-	107	GRATE 208.495
											-																			-	-
222	14+593.74		X		34.1	375	0.31%	2	INLET B-15	13.2	-	1.2	206.567	206.529	50	N	7	1	28.807	-	-	-	-	-	-	-	-	-	-	221	GRATE 208.424
											-																			-	-
DRIVEWAY CULVERTS											-																			-	-
											-																			-	-
50	13+805.28		X		8.4	600	1.45%	3	CULVERT PIPE WITH PCES	16.3	-	0.6	204.800	204.560	50	N	7	1	2.400	-	-	-	2	-	-	-	-	-	-	-	-
											-																			-	-
51	14+080.12	X			13.8	450	0.56%	3	CULVERT PIPE WITH PCES	16.4	-	0.4	205.180	205.080	50	N	7	1	2.400	-	-	-	2	-	-	-	-	-	-	-	-
											-																			-	-
52	14+168.71		X		12.0	300	0.30%	3	CULVERT PIPE WITH PCES	17.0	-	0.0	205.680	205.630	50	N	7	1	2.400	-	-	-	2	-	-	-	-	-	-	-	-
											-																			-	-
53	14+217.92	X			12.7	300	0.30%	3	CULVERT PIPE WITH PCES	13.6	-	0.1	205.860	205.820	50	N	7	1	2.400	-	-	-	2	-	-	-	-	-	-	-	-
54	13+942.11	X			9.2	600	-	3	END SECTION FOR 600 MM ROAD CULVERT	-	-	0.0	EX.	EX.	50	N	7	1	1.200	-	-	-	1	-	-	-	-	-	-	-	-
											-																			-	-
											-																			-	-
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STRUCTURE NUMBER

			50	51	52	53	97	98	99	100	101	102	103	104	105	106	107	127	128	129	130	131	132
PIPE TYPE / SHAPE			3/CIR	3/CIR	3/CIR	3/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR
SMOOTH PIPE SIZE			600 mm	450 mm	300 mm	300 mm	750 mm	750 mm	750 mm	750 mm	750 mm	675 mm	675 mm	675 mm	600 mm	600 mm	600 mm	375 mm	375 mm	375 mm	375 mm	375 mm	375 mm
CORRUGATED PIPE SIZE			600 mm	450 mm	300 mm	300 mm	750 mm	750 mm	750 mm	750 mm	750 mm	675 mm	675 mm	675 mm	600 mm	600 mm	600 mm	375 mm	375 mm	375 mm	375 mm	375 mm	375 mm
RCP/RCHEP (S)	CLASS		II	II	IV	IV	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
	$D_{0.03}$ RATING		50	50	75	75	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)			OK				OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
CORRUGATED PE PIPE, TYPE S (S)*								OK	OK	OK	OK	OK			OK	OK	OK		OK				
RIBBED PE PIPE (S)*								OK	OK	OK	OK	OK	OK	OK	OK	OK	OK						
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR								OK/26	OK/26	OK/26	OK/26	OK/26	OK/26	OK/26	OK/26	OK/26	OK/26		OK/26				
PROFILE WALL PVC PIPE (S)								OK	OK	OK	OK	OK	OK	OK	OK	OK	OK		OK				
SMOOTH WALL PVC PIPE (S)*									OK			OK	OK	OK	OK	OK	OK		OK				
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)			OK				OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
CORRUGATED STEEL PIPE / PIPE-ARCH — LOCK SEAM	POLYMER PRECOATED GALVANIZED TYPE 1A (S)	CORR. PROFILE	68mm x 13mm	68mm x 13mm			68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm				68mm x 13mm	68mm x 13mm	68mm x 13mm						
		THICKNESS	2.77 mm	2.77 mm			2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm				2.77 mm	2.77 mm	2.77 mm						
	FULLY BITUMINOUS COATED & LINED (S)	CORR. PROFILE					68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm
		THICKNESS					2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm
	ZINC COATED (C)	CORR. PROFILE																					
		THICKNESS																					
	ZINC COATED W/ BPI (C)	CORR. PROFILE																					
		THICKNESS																					
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE																					
		THICKNESS																					
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE																					
		THICKNESS																					
CORRUGATED STEEL PIPE / PIPE-ARCH — RIVETED	FULLY BITUMINOUS COATED & LINED (S)	CORR. PROFILE					68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm
		THICKNESS					2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm
	ZINC COATED (C)	CORR. PROFILE																					
		THICKNESS																					
	ZINC COATED W/ BPI (C)	CORR. PROFILE																					
		THICKNESS																					
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE																					
		THICKNESS																					
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE																					
		THICKNESS																					
	CORRUGATED ALUM. ALLOY PIPE W/ LOCK SEAM (C)	CORR. PROFILE																					
		THICKNESS																					
	CORRUGATED ALUM. ALLOY PIPE W/ RIVETS (C)	CORR. PROFILE																					
		THICKNESS																					
	CORRUGATED ALUM. ALLOY PIPE W/ LOCK SEAM (C)	CORR. PROFILE																					
		THICKNESS **																					
	CORRUGATED ALUM. ALLOY PIPE W/ RIVETS (C)	CORR. PROFILE																					
		THICKNESS **																					

STRUCTURE NUMBER

			133	134	135	136	137	138	140	141	142	147	148	149	150	152	153	154	155	221	222	
PIPE TYPE / SHAPE			2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	
SMOOTH PIPE SIZE			610 mm	375 mm	375 mm	375 mm	375 mm	600 mm	375 mm	450 mm	375 mm	375 mm	600 mm	375 mm	375 mm	300 mm	300 mm	375 mm	300 mm	450 mm	375 mm	
CORRUGATED PIPE SIZE			610 mm	375 mm	375 mm	375 mm	375 mm	600 mm	375 mm	450 mm	375 mm	375 mm	600 mm	375 mm	375 mm	300 mm	300 mm	375 mm	300 mm	450 mm	375 mm	
RCP/RCHEP (S)	CLASS		II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	III	II	II	II	
	$D_{0.01}$ RATING		50	50	50	50	50	50	60	50	50	50	50	50	50	50	50	60	50	50	50	
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)			OK	OK	OK	OK	OK	OK		OK		OK	OK	OK	OK	OK	OK		OK	OK	OK	
CORRUGATED PE PIPE, TYPE S (S)*								OK		OK			OK		OK	OK	OK		OK	OK	OK	
RIBBED PE PIPE (S)*								OK		OK			OK							OK		
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR								OK/26		OK/26			OK/26		OK/26	OK/26	OK/26		OK/26	OK/26	OK/26	
PROFILE WALL PVC PIPE (S)								OK		OK			OK		OK	OK	OK		OK	OK	OK	
SMOOTH WALL PVC PIPE (S)*								OK		OK			OK	OK	OK	OK	OK		OK	OK	OK	
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)			OK	OK	OK	OK	OK	OK		OK		OK	OK	OK	OK	OK	OK		OK	OK	OK	
CORRUGATED STEEL PIPE / PIPE-ARCH — LOCK SEAM	POLYMER PRECOATED GALVANIZED TYPE 1A (S)	CORR. PROFILE	68mm x 13mm					68mm x 13mm		68mm x 13mm			68mm x 13mm							68mm x 13mm		
		THICKNESS	2.77 mm					2.77 mm		2.77 mm			2.77 mm							2.77 mm		
	FULLY BITUMINOUS COATED & LINED (S)	CORR. PROFILE	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	
		THICKNESS	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	
	ZINC COATED (C)	CORR. PROFILE																				
		THICKNESS																				
	ZINC COATED W/ BPI (C)	CORR. PROFILE																				
		THICKNESS																				
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE																				
		THICKNESS																				
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE																				
		THICKNESS																				
CORRUGATED STEEL PIPE / PIPE-ARCH — RIVETED	FULLY BITUMINOUS COATED & LINED (S)	CORR. PROFILE	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	68mm x 13mm	
		THICKNESS	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	2.77 mm	
	ZINC COATED (C)	CORR. PROFILE																				
		THICKNESS																				
	ZINC COATED W/ BPI (C)	CORR. PROFILE																				
		THICKNESS																				
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE																				
		THICKNESS																				
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE																				
		THICKNESS																				
	CORRUGATED ALUM. ALLOY PIPE W/ LOCK SEAM (C)	CORR. PROFILE																				
		THICKNESS																				
	CORRUGATED ALUM. ALLOY PIPE W/ RIVETS (C)	CORR. PROFILE																				
		THICKNESS																				
	CORRUGATED ALUM. ALLOY PIPE W/ LOCK SEAM (C)	CORR. PROFILE																				
		THICKNESS **																				
	CORRUGATED ALUM. ALLOY PIPE W/ RIVETS (C)	CORR. PROFILE																				
		THICKNESS **																				

LEGEND

RCP-	REINFORCED CONCRETE PIPE
RCHEP-	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
PE-	POLYETHYLENE
DR-	DIMENSION RATIO
PVC-	POLYVINYL CHLORIDE
BIT-	BITUMINOUS
CORR-	CORRUGATION
BPI-	BITUMINOUS PAVED INVERT
ALUM-	ALUMINUM
STR-	STRUCTURAL
CFP-	CONCRETE FIELD PAVING
CIR-	CIRCULAR PIPE
DEF-	DEFORMED PIPE
(S)-	SMOOTH PIPE MATERIAL
(C)-	CORRUGATED PIPE MATERIAL
OK-	ACCEPTABLE FOR USE
(LS)-	LOCK SEAM PIPE REQUIRED
*-	REFER TO STANDARD DRAWING 715-PHCL-18 OR 19 FOR NOMINAL DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER
**-	TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

HERCEG
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ENGINEERS, ARCHITECTS & LAND SURVEYORS
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South Bend, Indiana 46601
Phone (219) 288-4580
Fax (219) 288-0195

BRIAN W.W. THOMASEN REGISTERED No. 10707971 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Brian W.W. Thomasen 02/26/2009
DESIGN ENGINEER DATE

DESIGNED: B.W.T. DRAWN: J.H.
CHECKED: N.V.T. CHECKED: B.W.T.

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELANEOUS TABLES

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
	9611280
SURVEY BOOK	SHEETS
16644	41 of 67
CONTRACT	PROJECT
R-29694	STP-194-1(018)

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			PERIMETER PROTECTION	SEDIMENT TRAP	SEDIMENT BASIN	SLOPE DRAIN	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	RIPRAP DITCH CHECK	DITCH INLET PROTECTION	FISH POOL	REMARKS
	LEFT	MEDIAN	RIGHT										
				m	Mg	EACH	m	m^3	m	m^3	EACH	EACH	
13+788.40"B" To 14+524.98"B"			X	554.1									
14+540.95"B" To 0+249.55"A"			X	84.5									
0+249.28"A" To 0+258.73"A"			X	13.4									
0+267.33"A" To 14+641.48"B"			X	73.3									
14+640.94"B" To 14+634.80"B"	X			9.5									
14+621.90"B" To 0+339.75"A"	X			46.6									
0+354.62"A" To 0+358.04"A"			X	6.6									
0+367.14"A" To 0+380.97"A"	X			60.3									
0+329.06"A" To 14+563.01"B"	X			26.9									
14+071.62"B" To 14+552.74"B"	X			716.0									
13+941.52 Line "B", 11.28m			X								1		
14+125.21 Line "B", 11.66m			X								1		
14+229.71 Line "B", 9.23m			X								1		
14+229.73 Line "B", 3.74m			X								1		
14+229.79 Line "B", 7.34m	X										1		
14+294.70 Line "B", 3.74m			X								1		
14+294.77 Line "B", 4.23m	X										1		
14+356.75 Line "B", 3.74m			X								1		
14+356.77 Line "B", 4.23m	X										1		
14+419.76 Line "B", 3.71m			X								1		
14+419.77 Line "B", 4.23m	X										1		
14+485.74 Line "B", 3.74m			X								1		
14+485.73 Line "B", 4.23m	X										1		
14+548.27 Line "B", 3.70m			X								1		
14+548.23 Line "B", 4.22m	X										1		
0+270.89 Line "A", 6.96m	X										1		
0+270.81 Line "A", 6.51m			X								1		
13+815.04 Line "B"			X						9.2				
13+898.24 Line "B"			X						9.2				
13+936.40 Line "B"	X								7.3				
13+947.23 Line "B"	X								7.3				
14+167.82 Line "B"	X								5.5				
13+790.80 Line "B"			X		4.27								

MAILBOX APPROACHES

LT/RT	CL BOX STATION	DESCRIPTION	WIDTH (m)			
				SINGLE	DOUBLE	
5.00 LT	14+284.82	Relocate and Reset		X		
5.00 LT	14+346.10	Relocate and Reset		X		
5.00 LT	14+378.57	Relocate and Reset		X		
5.00 LT	14+379.46	Relocate and Reset		X		
5.00 LT	14+380.21	Relocate and Reset		X		
5.00 LT	14+388.77	Relocate and Reset		X		
5.00 LT	14+419.79	Relocate and Reset		X		
5.00 LT	14+420.55	Relocate and Reset		X		

PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE

LOCATION					PAVED SIDE DITCH								RIPRAP DITCH			SODDING							
								TOTAL EQUIVALENT PAY LENGTHS															
								TYPE															
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8' EQUIVAL. LENGTH EACH)	LUGS (8' EQUIVAL. LENGTH EACH)						REVETMENT RIPRAP	UNIFORM RIPRAP	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING	NURSERY SODDING FOR LAWNS
					m	EACH	EACH	m	m	m	m	m	Mg	Mg	m^2	m^2	m^2	m^2	m^2	m^2	m^2	m^2
13+782.0	13+797.1			X													47.1				47.1	
13+782.3	14+571.4			X																		528.0
13+813.4	13+820.0			X													20.7				20.7	
13+833.3	14+573.0	X																				529.0
13+925.3	13+941.6			X										27.9	50.8							
14+598.7	14+641.4			X																		39.0
14+599.0	14+640.9	X																				55.0
0+249.4	0+290.7			X																		44.0
0+258.0	0+294.6	X																				76.0
0+314.8	0+357.0			X																		57.0
0+317.3	0+406.3	X																				115.0

MONUMENT TABLE

STATION	OFFSET	NORTHING	EASTING	MONUMENT
13+793.114	0.00m Line "B"	4999.7690	4207.0620	TYPE "B"
13+875.000	0.00m Line "B"	4999.7929	4288.9480	TYPE "B"
14+262.354	0.00m Line "B"	4999.9060	4676.3020	TYPE "B"
14+342.792	0.00m Line "B"	4999.9294	4756.7394	TYPE "B"
14+468.124	0.00m Line "B"	4999.9660	4882.0716	TYPE "B"
14+540.000	0.00m Line "B"	4999.9870	4953.9480	TYPE "D"
14+586.153	0.00m Line "B"	5000.0000	4999.9989	TYPE "D"
14+586.255	0.00m Line "B"	4999.8980	5000.0000	SECTION CORNER
14+619.485	0.00m Line "B"	4999.3668	5033.2251	TYPE "D"

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