

PROJECT	DESIGNATION
STP/097-9(005)	9706580
CONTRACT	
R-28934	

# INDIANA DEPARTMENT OF TRANSPORTATION

## STATE ROAD 37 ROAD REHABILITATION

THE PROJECT IS LOCATED APPROX. 67.7km (42 MILES) NORTH OF INDIANAPOLIS, INDIANA AND 16.1km (10 MILES) SOUTH OF MARION, INDIANA. MORE SPECIFICALLY, THE PROJECT IS LOCATED IN SECTIONS 1, 11, 12, AND 14, TOWNSHIP 21 NORTH, RANGE 6 EAST, SECTION 6, TOWNSHIP 21 NORTH, RANGE 7 EAST, SECTIONS 12, 13, 24, 25, AND 36, TOWNSHIP 22 NORTH, RANGE 6 EAST, SECTIONS, 6, 7, 18, 19, 30, AND 31, TOWNSHIP 22 NORTH, RANGE 7 EAST, ON THE U.S.G.S. ELWOOD INDIANA QUADRANGLE, IN PIPE CREEK, DUCK CREEK, AND BOONE TOWNSHIPS, MADISON COUNTY, INDIANA, CONTINUING NORTHEASTERLY THROUGH SECTION 16, TOWNSHIP 22 NORTH, RANGE 7 EAST, SECTIONS 21, 28, 29, 31, AND 32, TOWNSHIP 23 NORTH, RANGE 7 EAST, ON THE U.S.G.S. POINT ISABEL AND FAIRMOUNT, INDIANA QUADRANGLE, IN LIBERTY TOWNSHIP, GRANT COUNTY, INDIANA.

**PROJECT NO. STP/097-9(005) P.E.  
STP/097-9(005) R/W  
STP/097-9(005) CONST.**

TRAFFIC DATA	S.R. 37	S.R. 28
A.A.D.T. (1998)	4500 V.P.D.	7985 V.P.D.
A.A.D.T. (2024)	8400 V.P.D.	11280 V.P.D.
D.H.V. (2024)	760 V.P.H.	903 V.P.H.
DIRECTIONAL DISTRIBUTION	50%	50%
TRUCKS	9% D.H.V.	11% D.H.V.
EQUIVALENT SINGLE AXLE LOAD	11% A.A.D.T.	12% A.A.D.T.
DESIGN DATA		
DESIGN SPEED	90 km/h	70 km/h
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL	MINOR ARTERIAL
RURAL/URBAN	RURAL	RURAL
TERRAIN	LEVEL	LEVEL
ACCESS CONTROL	NONE	NONE

TRAFFIC DATA	S.R. 26	
A.A.D.T. (1998)	3150 V.P.D.	
A.A.D.T. (2024)	4450 V.P.D.	
D.H.V. (2024)	312 V.P.H.	
DIRECTIONAL DISTRIBUTION	50%	
TRUCKS	11% D.H.V.	
EQUIVALENT SINGLE AXLE LOAD	12% A.A.D.T.	
DESIGN DATA		
DESIGN SPEED	70 km/h	
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL	
RURAL/URBAN	RURAL	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	

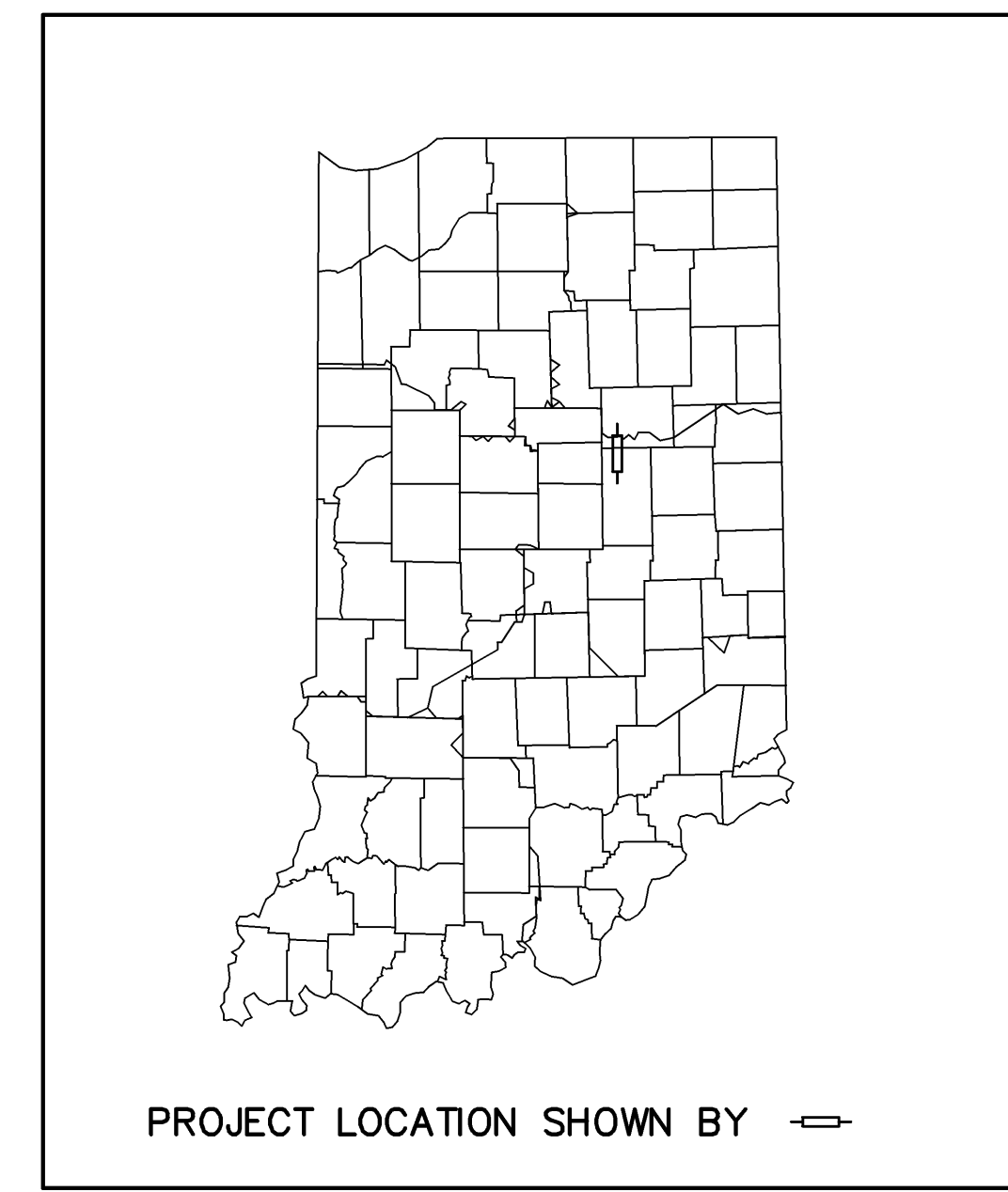
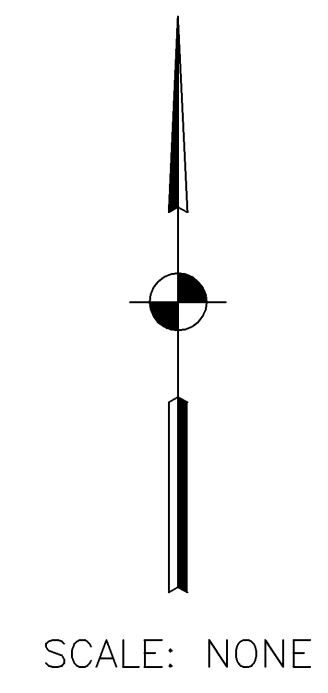
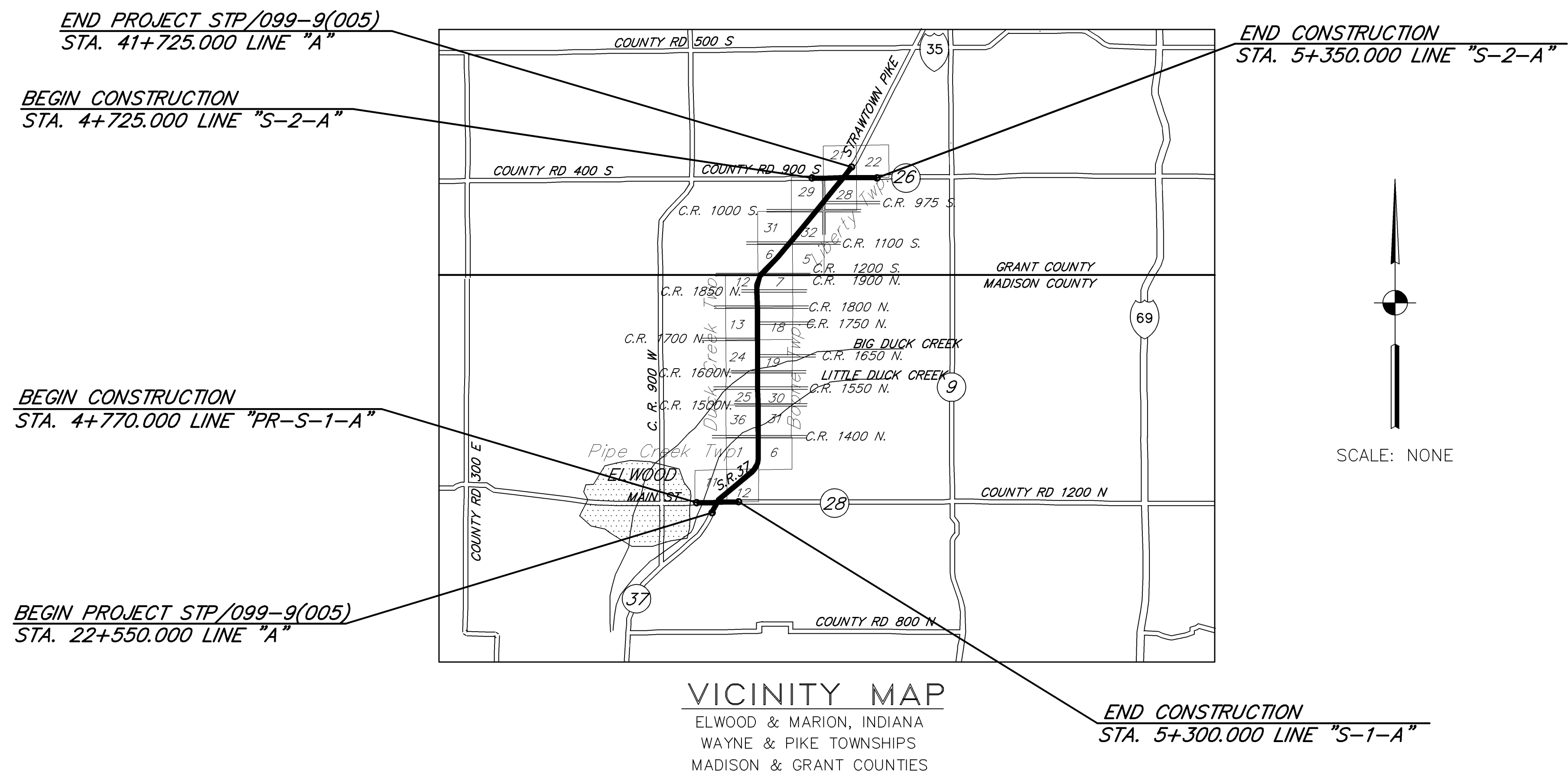
GROSS LENGTH: 19,175m  
NET LENGTH: 19,175m

PLAN LONG. = 1:500  
TRANS. = 1:500

SCALES:

PROFILE HORIZ. = 1:500  
VERT. = 1:100

MAX. GRADE = 0.914%



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

01-11-07 AT 07:21  
R:\J7851\AUTOCAD\ROAD\3783R101.dwg

**BF&S**  
Butler Fairman Seafort  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE 0  
MERRILLVILLE, IN 46410  
219 769-2333  
FAX 219 769-2377

PLANS PREPARED BY: *Butler Fairman and Seafort Inc.* (317)713-4615  
PHONE NUMBER

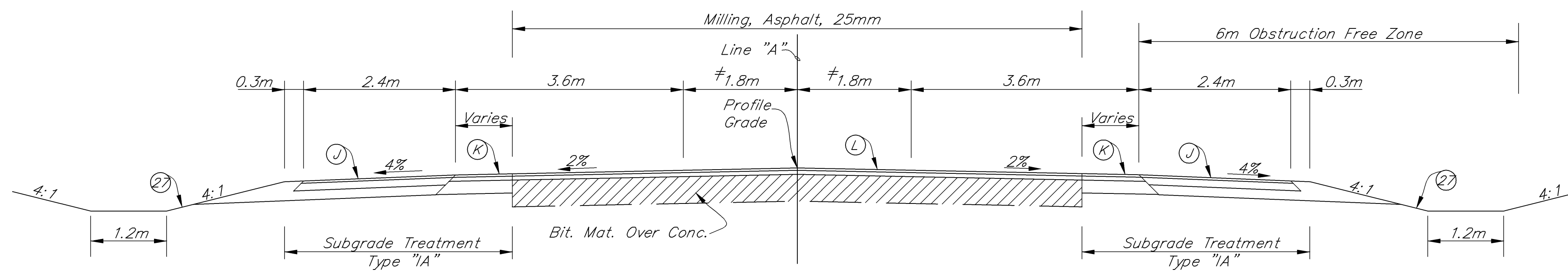
CERTIFIED BY: *Matthew J. Vanabe* 11/10/06  
DATE

APPROVED FOR LETTING: \_\_\_\_\_ CHIEF, DIVISION OF DESIGN DATE



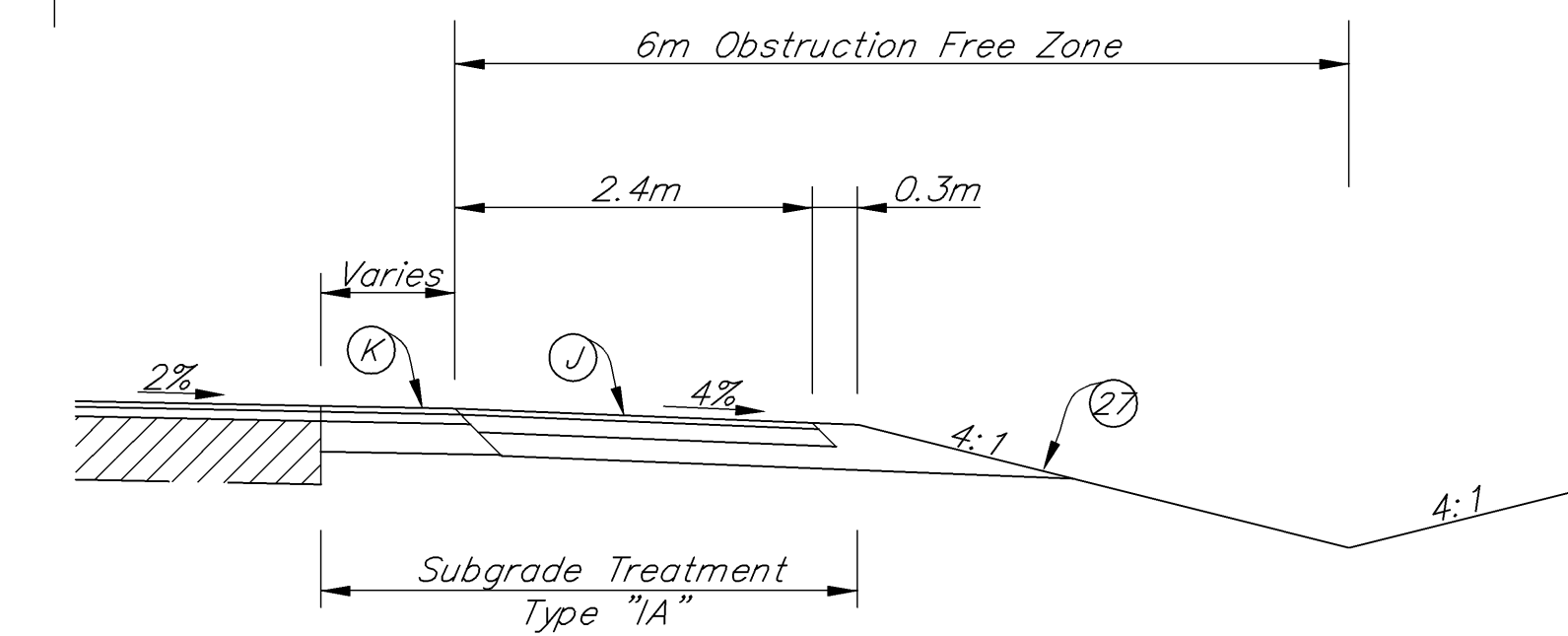
FILE	3783.07
DESIGNATION	9706580
SHEET	1 of 292
CONTRACT	R-28934
PROJECT	STP/097-9(005)





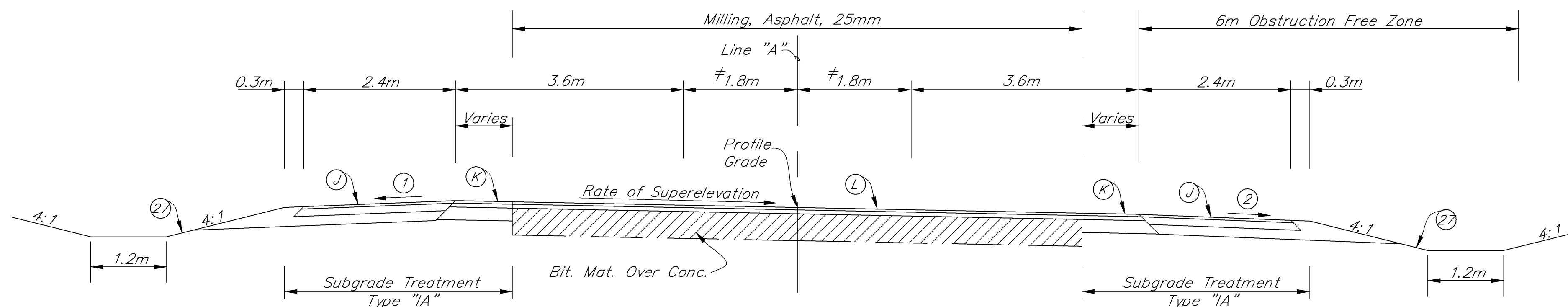
**TYPICAL SECTION S.R. 37**  
SCALE = 1:50  
From Sta. 22+550 "A" to Sta. 22+941 "A"

# Varies 0m To 1.8m



**Typical "V" Ditch Detail**  
SCALE = 1:50

From Sta. 27+025 "A" to Sta. 27+125 "A" Rt.  
From Sta. 31+525 "A" to Sta. 31+615 "A" Lt. & Rt.  
From Sta. 31+622 "A" to Sta. 31+800 "A" Lt.  
From Sta. 31+725 "A" to Sta. 31+875 "A" Rt.  
From Sta. 32+450 "A" to Sta. 32+486 "A" Rt.  
From Sta. 32+725 "A" to Sta. 32+875 "A" Lt.  
From Sta. 41+500 "A" to Sta. 41+700 "A" Lt.  
From Sta. 41+575 "A" to Sta. 41+700 "A" Rt.



**TYPICAL SUPERELEVATION SECTION S.R. 37**  
SCALE = 1:50  
From Sta. 22+941 "A" to Sta. 23+165 "A"

**LEGEND**

- Ⓝ 90 kg/m<sup>2</sup> HMA, TYPE A, SURFACE ON 270 kg/m<sup>2</sup> HMA, TYPE A, BASE ON 150mm OF COMPACTED AGGREGATE, No. 53, BASE
- Ⓚ 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm 150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm 480 kg/m<sup>2</sup> HMA, TYPE C, BASE
- Ⓚ<sub>1</sub> 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm 150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm 540 kg/m<sup>2</sup> HMA, TYPE C, BASE
- Ⓛ 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm 150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm
- Ⓢ SEED MIXTURE, TYPE R
- ① 4% < e ≤ 6% (2% DOWN AWAY FROM ROADWAY)
- ② e > 2% MATCH RATE OF SUPERELEVATION

11-09-06 AT 11:19 F:\17281\AUTOCAD\ROAD\17283E201.dwg

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 715-4616

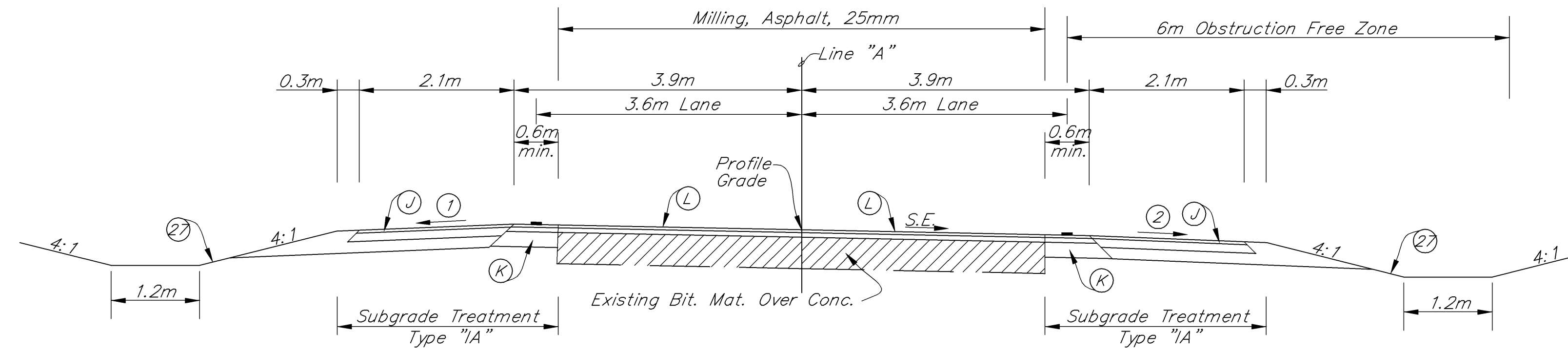
REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: J.B. DRAWN: B.H.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION  
**TYPICAL SECTIONS S.R. 37**

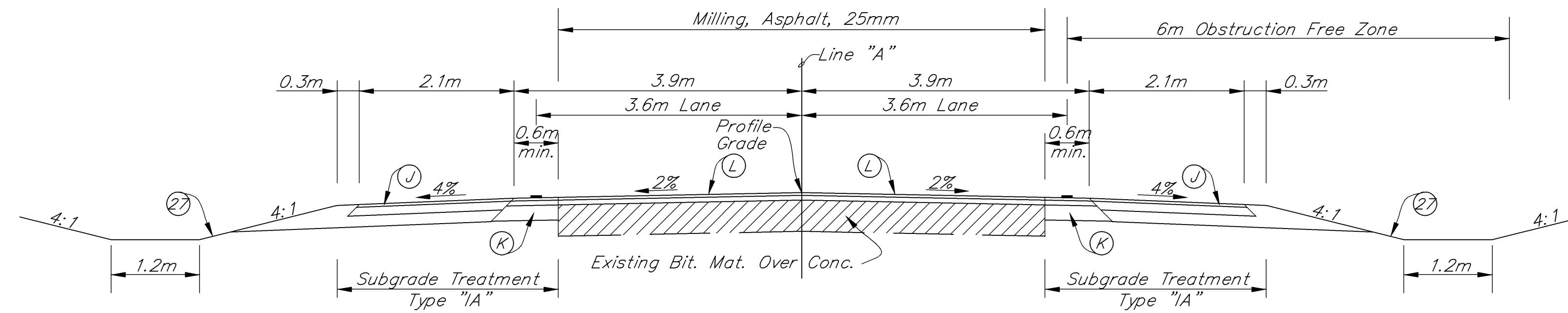
HORIZONTAL SCALE	FILE
As Noted	3783
VERTICAL SCALE	DESIGNATION
As Noted	9706580
SURVEY BOOK	SHEET
	3 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07



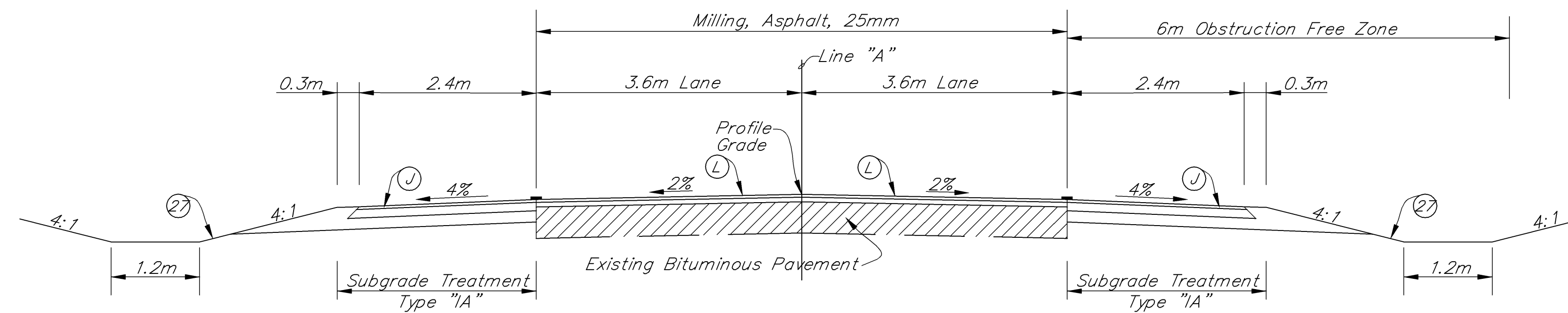
**TYPICAL SUPERELEVATION SECTION S.R. 37**

SCALE = 1:50  
 From Sta. 23+165 "A" to Sta. 23+408 "A"  
 From Sta. 23+253 "A" to Sta. 25+967 "A"  
 From Sta. 34+530 "A" to Sta. 35+160 "A"



**TYPICAL SECTION S.R. 37**

SCALE = 1:50  
 From Sta. 23+408 "A" to Sta. 25+253 "A"  
 From Sta. 25+967 "A" to Sta. 34+530 "A"



**TYPICAL SECTION S.R. 37**

SCALE = 1:50  
 From Sta. 35+160 "A" to Sta. 41+725 "A"

**LEGEND**

- J 90 kg/m<sup>2</sup> HMA, TYPE A, SURFACE ON  
270 kg/m<sup>2</sup> HMA, TYPE A, BASE ON  
150mm OF COMPACTED AGGREGATE, No. 53, BASE
- K 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm  
480 kg/m<sup>2</sup> HMA, TYPE C, BASE
- K<sub>1</sub> 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm  
540 kg/m<sup>2</sup> HMA, TYPE C, BASE
- L 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm
- 27 SEED MIXTURE, TYPE R
- 1 4% < e ≤ 6% (2% DOWN AWAY FROM ROADWAY)
- 2 e > 2% MATCH RATE OF SUPERELEVATION

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**BFS**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 715-4615 FAX 317 715-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
 No. PE10302038  
 STATE OF INDIANA

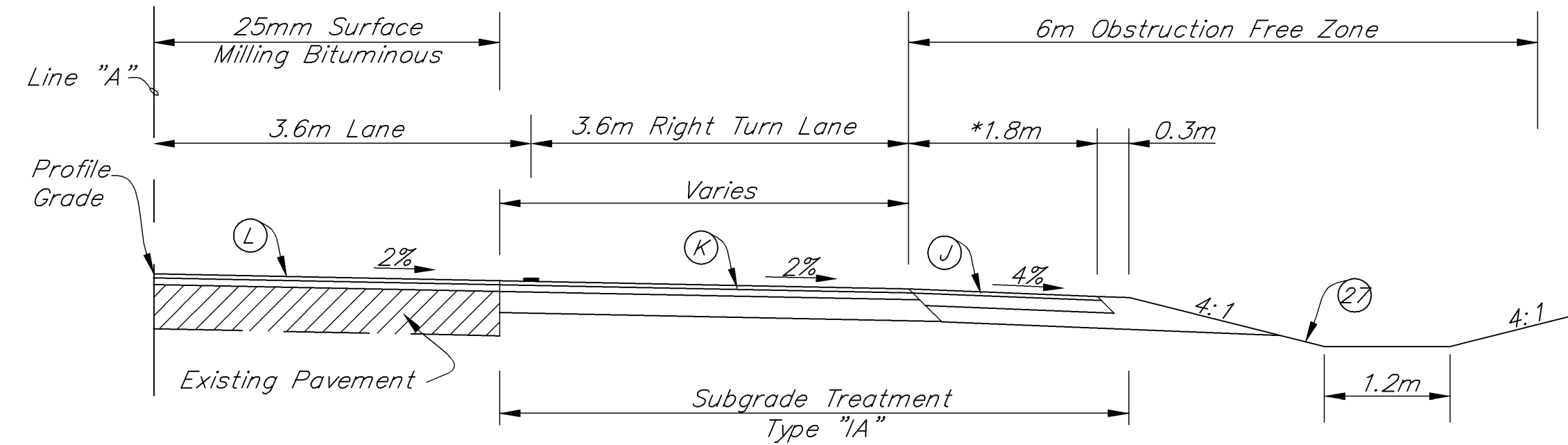
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: J.B. DRAWN: B.H.  
 CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION  
 TYPICAL SECTIONS  
 S.R. 37

HORIZONTAL SCALE	FILE
As Noted	3783
VERTICAL SCALE	DESIGNATION
As Noted	9706580
SURVEY BOOK	SHEET
	4 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

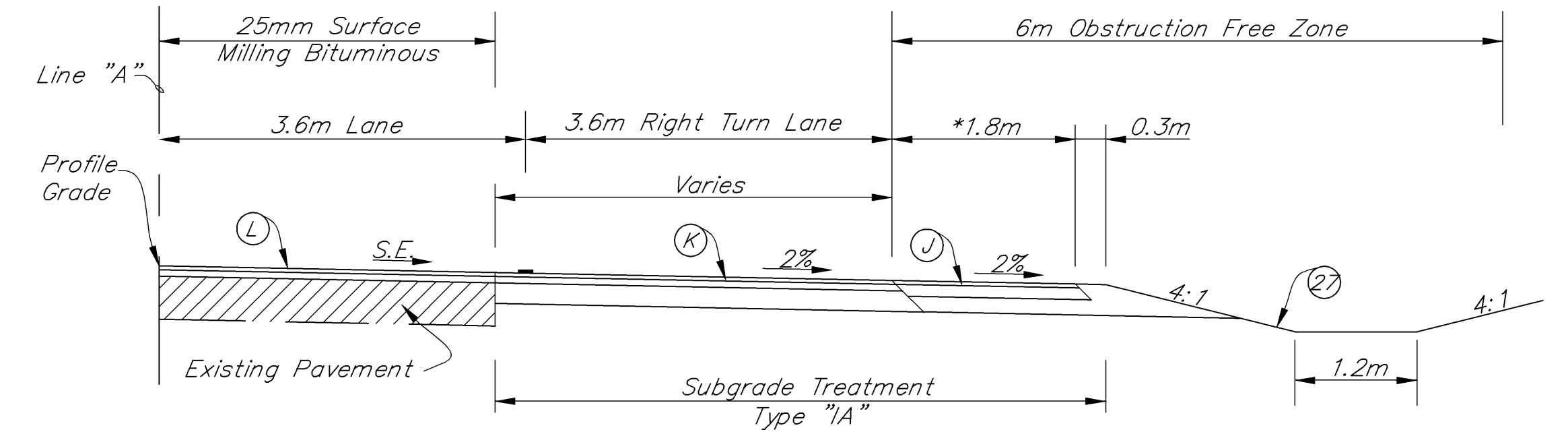




**TYPICAL RIGHT TURN LANE/PASSING BLISTER**

SCALE = 1:50

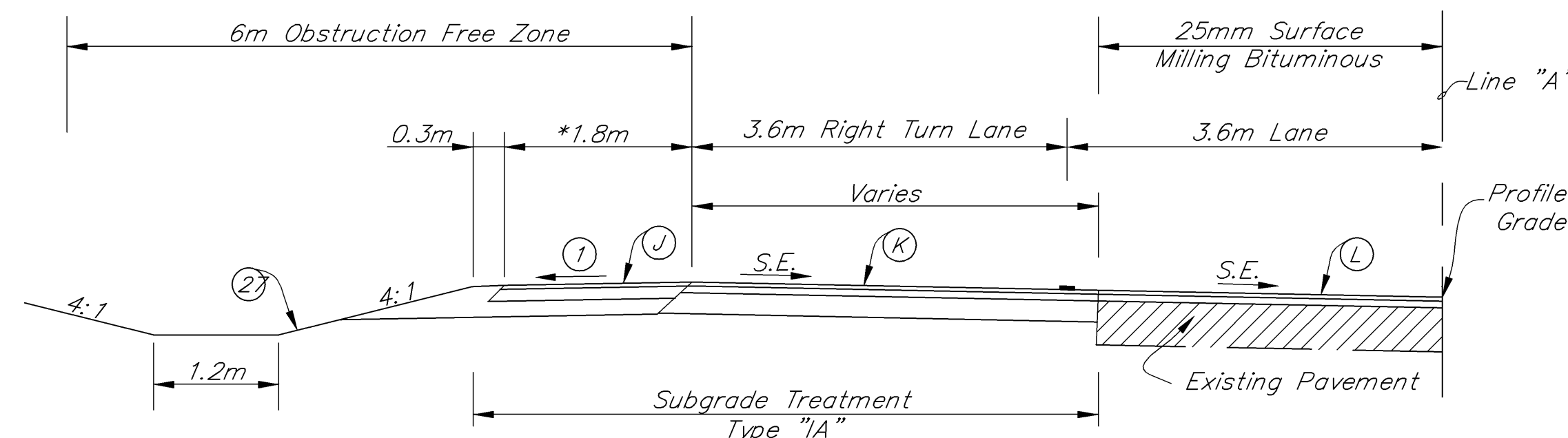
\* 2.4m From Sta. 22+645 "A" To Sta. 22+875 "A"



**TYPICAL RIGHT TURN LANE IN SUPER**

**LOW SIDE**

SCALE = 1:50



**TYPICAL RIGHT TURN LANE IN SUPER**

**HIGH SIDE**

SCALE = 1:50

\* 2.4m From Sta. 22+900 "A" To Sta. 23+100 "A"

**LEGEND**

- Ⓧ 90 kg/m<sup>2</sup> HMA, TYPE A, SURFACE ON  
270 kg/m<sup>2</sup> HMA, TYPE A, BASE ON  
150mm OF COMPACTED AGGREGATE, No. 53, BASE
- Ⓚ 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm  
480 kg/m<sup>2</sup> HMA, TYPE C, BASE
- Ⓚ 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm  
540 kg/m<sup>2</sup> HMA, TYPE C, BASE
- Ⓛ 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm
- Ⓢ SEED MIXTURE, TYPE R
- ① 4% < e < 6% (2% DOWN AWAY FROM ROADWAY)
- ② e > 2% MATCH RATE OF SUPERELEVATION

11-09-06 AT 11:19  
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**BFS**  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
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219 769-2333  
FAX 219 769-2377

REGISTERED  
No. PE10302038  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

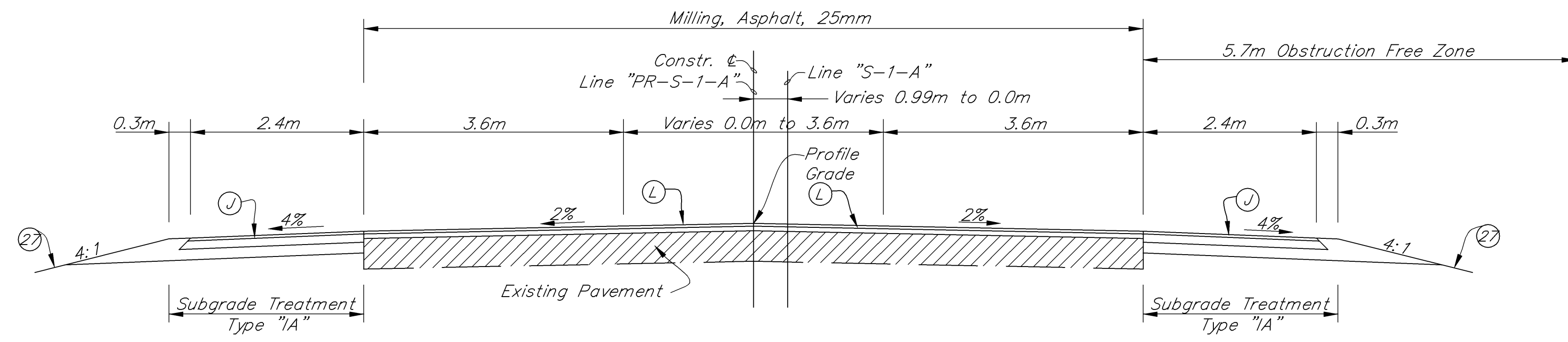
RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: B.H.  
CHECKED: B.Z. CHECKED: J.B.

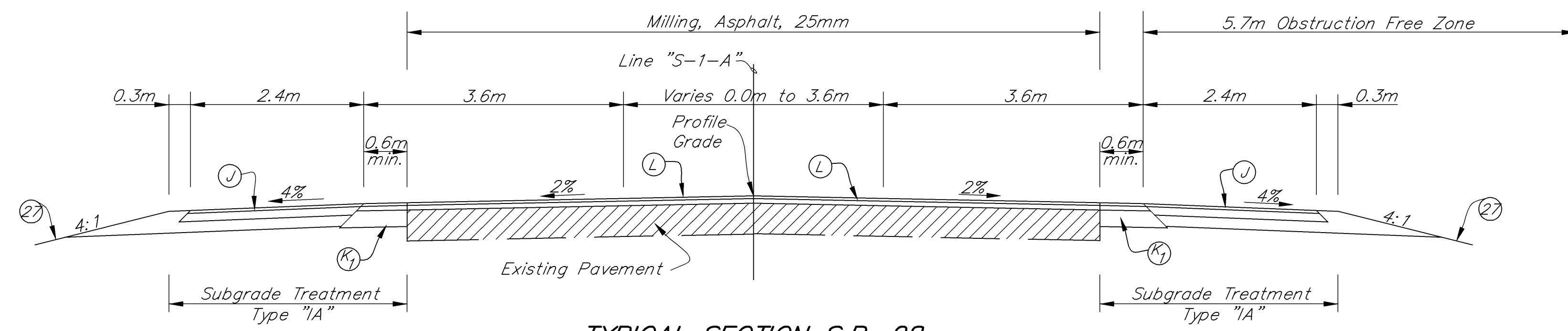
INDIANA DEPARTMENT OF TRANSPORTATION  
TYPICAL SECTIONS  
S.R. 37

HORIZONTAL SCALE	FILE
As Noted	3783
VERTICAL SCALE	DESIGNATION
As Noted	9706580
SURVEY BOOK	SHEET
	5 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

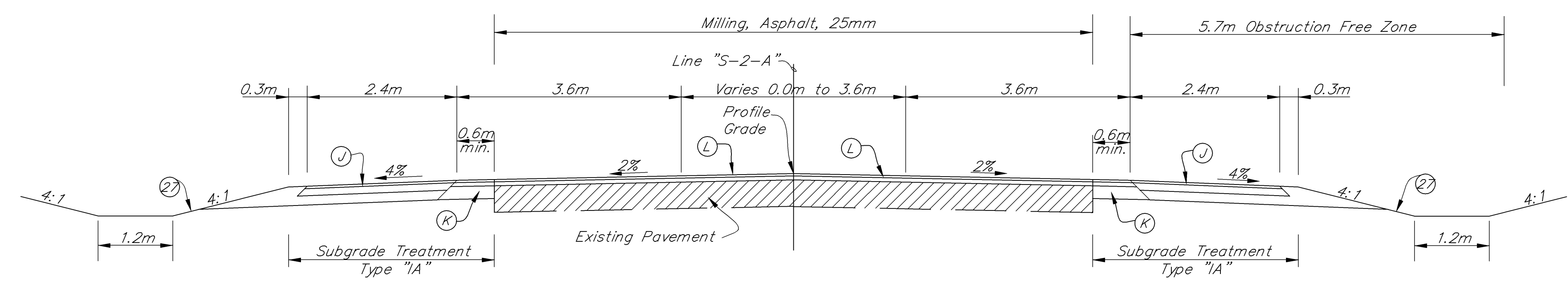
BFS NO. 3783.07



**TYPICAL SECTION S.R. 28**  
 SCALE = 1:50  
 From Sta. 4+770.000 "PR-S-1-A" to Sta. 5+000.000 "PR-S-1-A"



**TYPICAL SECTION S.R. 28**  
 SCALE = 1:50  
 From Sta. 5+000.000 "S-1-A" to Sta. 5+300.000 "S-1-A"



**TYPICAL SECTION S.R. 26**  
 SCALE = 1:50  
 From Sta. 4+700.000 "S-2-A" to Sta. 5+350.000 "S-2-A"

- LEGEND**
- (J) 90 kg/m<sup>2</sup> HMA, TYPE A, SURFACE ON  
270 kg/m<sup>2</sup> HMA, TYPE A, BASE ON  
150mm OF COMPACTED AGGREGATE, No. 53, BASE
  - (K) 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm  
480 kg/m<sup>2</sup> HMA, TYPE C, BASE
  - (K<sub>1</sub>) 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm  
540 kg/m<sup>2</sup> HMA, TYPE C, BASE
  - (L) 90 kg/m<sup>2</sup> QC/QA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/QA HMA, 3, 64, INTERMEDIATE 19.0mm
  - (27) SEED MIXTURE, TYPE R

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 11-09-06 AT 11:19  
 NSM

**BFS**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

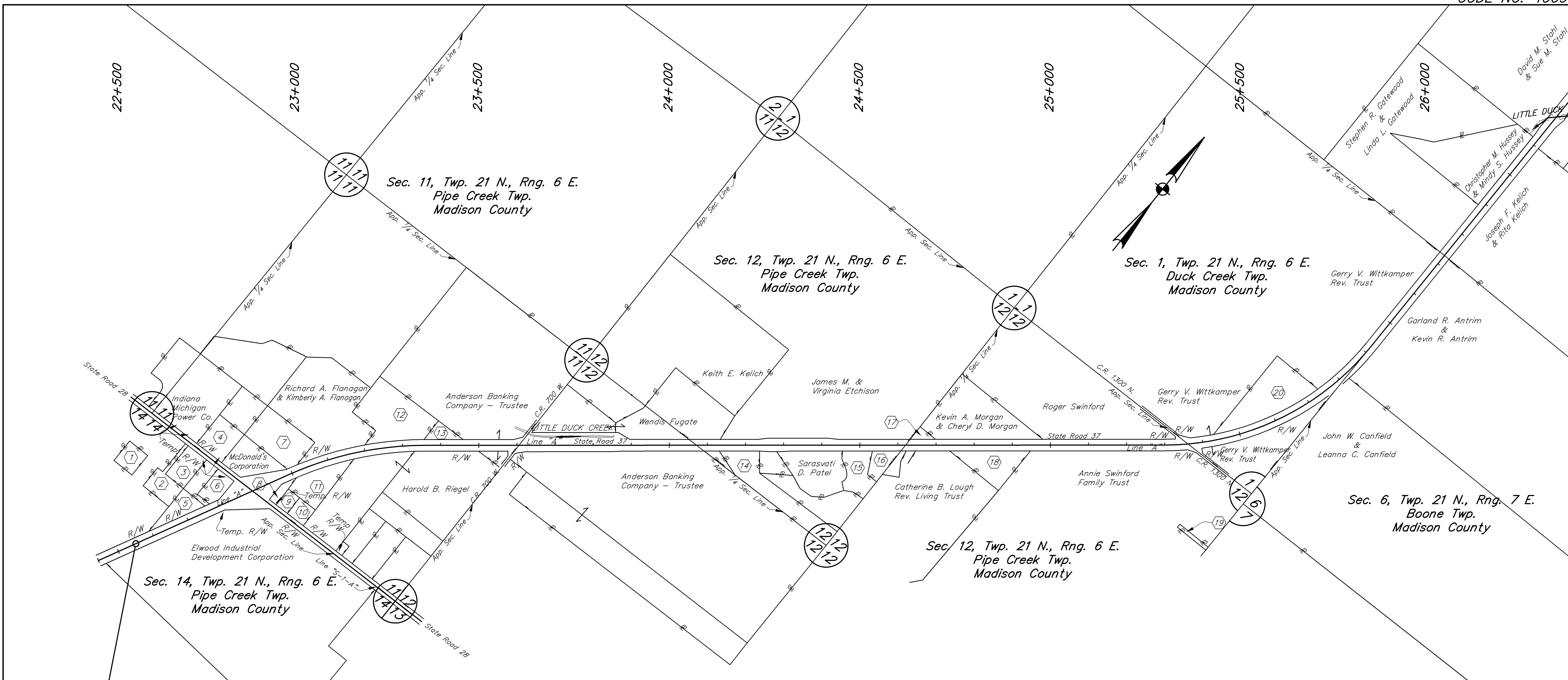
REGISTERED PROFESSIONAL ENGINEER  
 No. PE10302038  
 STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: J.B. DRAWN: B.H.  
 CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION  
 TYPICAL SECTIONS  
 S.R. 37

HORIZONTAL SCALE	FILE
As Noted	3783
VERTICAL SCALE	DESIGNATION
As Noted	9706580
SURVEY BOOK	SHEET
	6 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS No. 3783.07

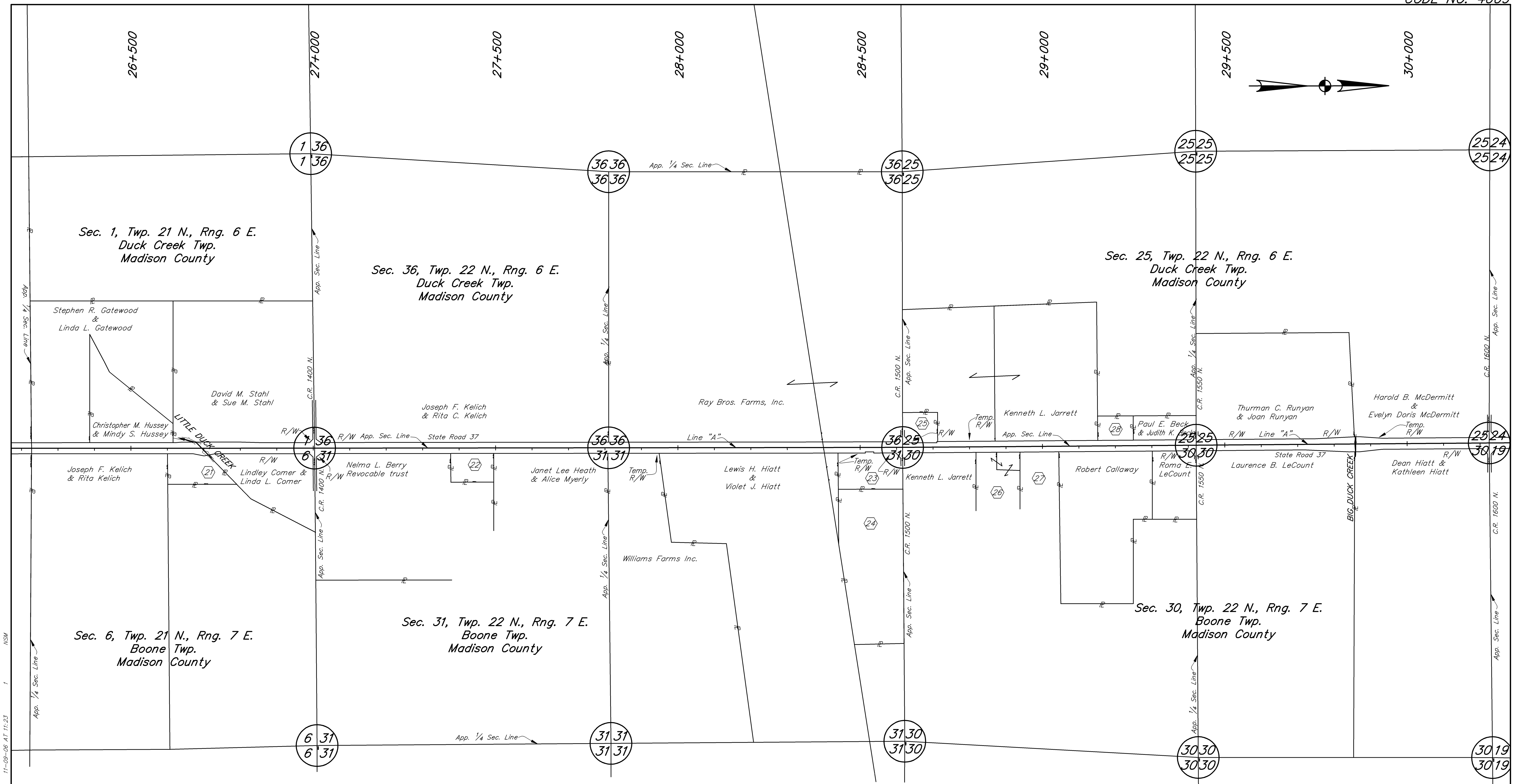


BEGIN PROJECT STP/097-9(005)  
STA. 22+550.000 LINE "A"

- |   |   |  |   |
|---|---|--|---|
| <p><b>Section 1</b></p> <ul style="list-style-type: none"> <li>① Mose H. Wittkamper &amp; Dorthy M. Wittkamper</li> </ul> | <p><b>Section 11</b></p> <ul style="list-style-type: none"> <li>④ Indiana Franklin Realty, Lot #2</li> <li>⑦ Elwood Indst. Devp. Corp. Mini-lot #635, Lot #1</li> <li>⑧ Sharon S. Harper</li> <li>⑨ Larry M. Crull &amp; Susan D. Crull</li> <li>⑩ John R. McFerran &amp; Doris McFerran</li> <li>⑪ Robert C. Jones &amp; Teresa M. Jones</li> <li>⑫ Charles E. Milnes &amp; Patricia S. Milnes</li> <li>⑬ Jerry R. Hayward &amp; Marggie M. Hayward</li> </ul> | <p><b>Section 12</b></p> <ul style="list-style-type: none"> <li>⑭ Dale Gene Bogard</li> <li>⑮ William Cochran &amp; Shelia Cochran</li> <li>⑯ Ronald R. Huffman &amp; Judith A. Huffman</li> <li>⑰ State of Indiana</li> <li>⑱ Robert H. Crull &amp; Sherry Crull</li> <li>⑲ Methodist Episcopal Church</li> </ul> | <p><b>Section 14</b></p> <ul style="list-style-type: none"> <li>① Phillip V. Valentine, Sr.</li> <li>② Phillip V. Valentine, Sr.</li> <li>③ First National Bank of Elwood</li> <li>⑤ Jean Wilson</li> <li>⑥ E.A. McClure Real Estate</li> </ul> |
|---|---|--|---|

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 11-09-06 AT 11:23  
 NSM

 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 715-4615 FAX 317 715-4616 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2334 FAX 219 769-2377		RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION  PLAT No. 1 STATE ROAD 37	HORIZONTAL SCALE 1:5000 VERTICAL SCALE 1:5000 SURVEY BOOK CONTRACT R-28934	FILE 3783 DESIGNATION 9706580 SHEET 7 OF 292 PROJECT STP/097-9(005)	BEFS NO. 3783.07
	DESIGNED: JB DRAWN: BH CHECKED: BZ CHECKED: JB					



11-08-06 AT 11:23  
NSM  
F:\17251\AUTOCAD\ROAD\17251R220.dwg

Section 6

21 Timothy W. Harrison & Bernadette A. Harrison

Section 31

22 Phyllis Elaine Coffin  
23 Jeffery L. Miller & Suzanne M. Miller  
24 Robert F. Williams & Doneta M. Williams

Section 25

23 Dennis Runyan & Anne Runyan  
28 Henri W. Teachnor

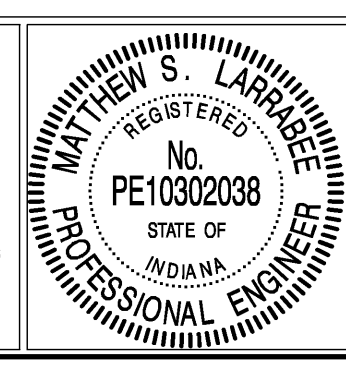
Section 30

26 Edward Durr & Wanda Durr  
27 Richard D. Floyd & Linda S. Floyd

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615  
FAX 317 715-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
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RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

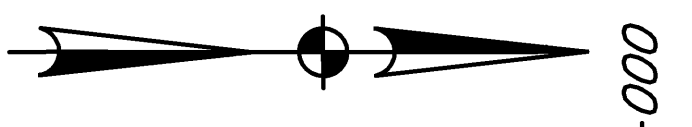
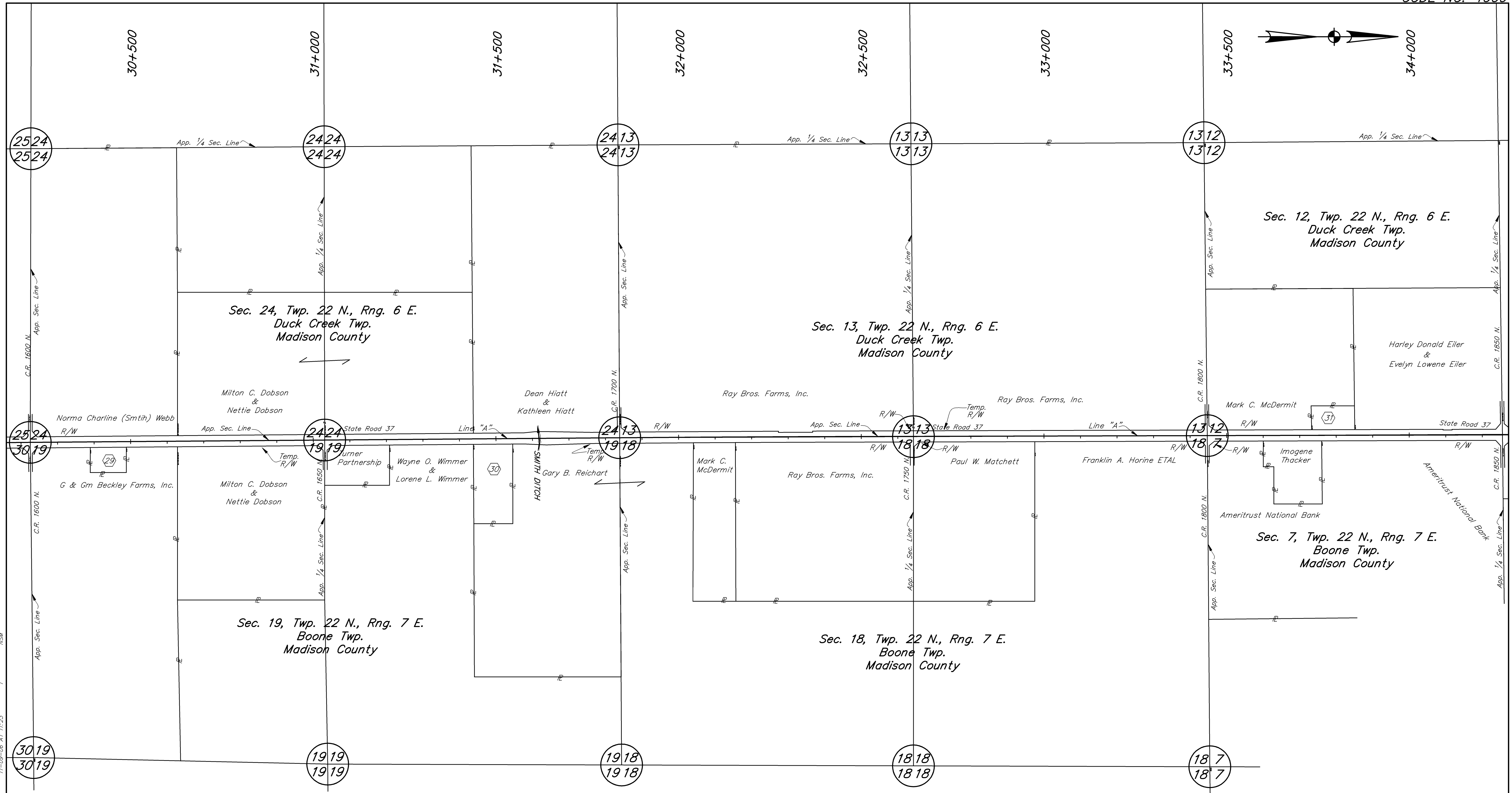
DESIGNED: JB DRAWN: BH  
CHECKED: BZ CHECKED: JB

INDIANA DEPARTMENT OF TRANSPORTATION

PLAT No. 1  
STATE ROAD 37

HORIZONTAL SCALE 1:5000	FILE 3783
VERTICAL SCALE 1:5000	DESIGNATION 9706580
SURVEY BOOK	SHEET
	8 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS No. 3783.07



Sec. 12, Twp. 22 N., Rng. 6 E.  
Duck Creek Twp.  
Madison County

Sec. 24, Twp. 22 N., Rng. 6 E.  
Duck Creek Twp.  
Madison County

Sec. 13, Twp. 22 N., Rng. 6 E.  
Duck Creek Twp.  
Madison County

Harley Donald Eiler  
&  
Evelyn Lowene Eiler

Norma Charline (Smith) Webb  
R/W

Milton C. Dobson  
&  
Nettie Dobson

Dean Hiatt  
&  
Kathleen Hiatt

Ray Bros. Farms, Inc.

Ray Bros. Farms, Inc.

Mark C. McDermit

G & Gm Beckley Farms, Inc.

Milton C. Dobson  
&  
Nettie Dobson

Jurner  
Partnership

Wayne O. Wimmer  
&  
Lorene L. Wimmer

GARY B. REICHAERT

Mark C.  
McDermit

Ray Bros. Farms, Inc.

Paul W. Matchett

Franklin A. Horine ETAL

Imogene  
Thacker

Ameritrust National Bank

Sec. 7, Twp. 22 N., Rng. 7 E.  
Boone Twp.  
Madison County

Sec. 19, Twp. 22 N., Rng. 7 E.  
Boone Twp.  
Madison County

Sec. 18, Twp. 22 N., Rng. 7 E.  
Boone Twp.  
Madison County

**Section 19**

- 29 Stephen W. Beckley & Letitia R. Beckley
- 30 Steven E. Smith & Kathleen K. Smith

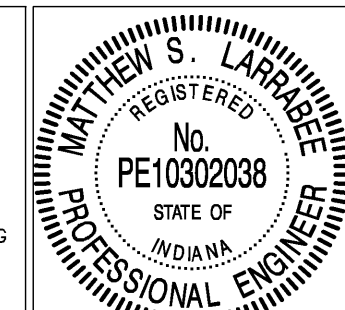
**Section 12**

- 37 Randolph William Pierce & Katherin Ann Pierce  
Mini Plat #259, Lot 1



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615  
FAX 317 715-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew S. Lantry* 11/10/06  
DESIGN ENGINEER DATE

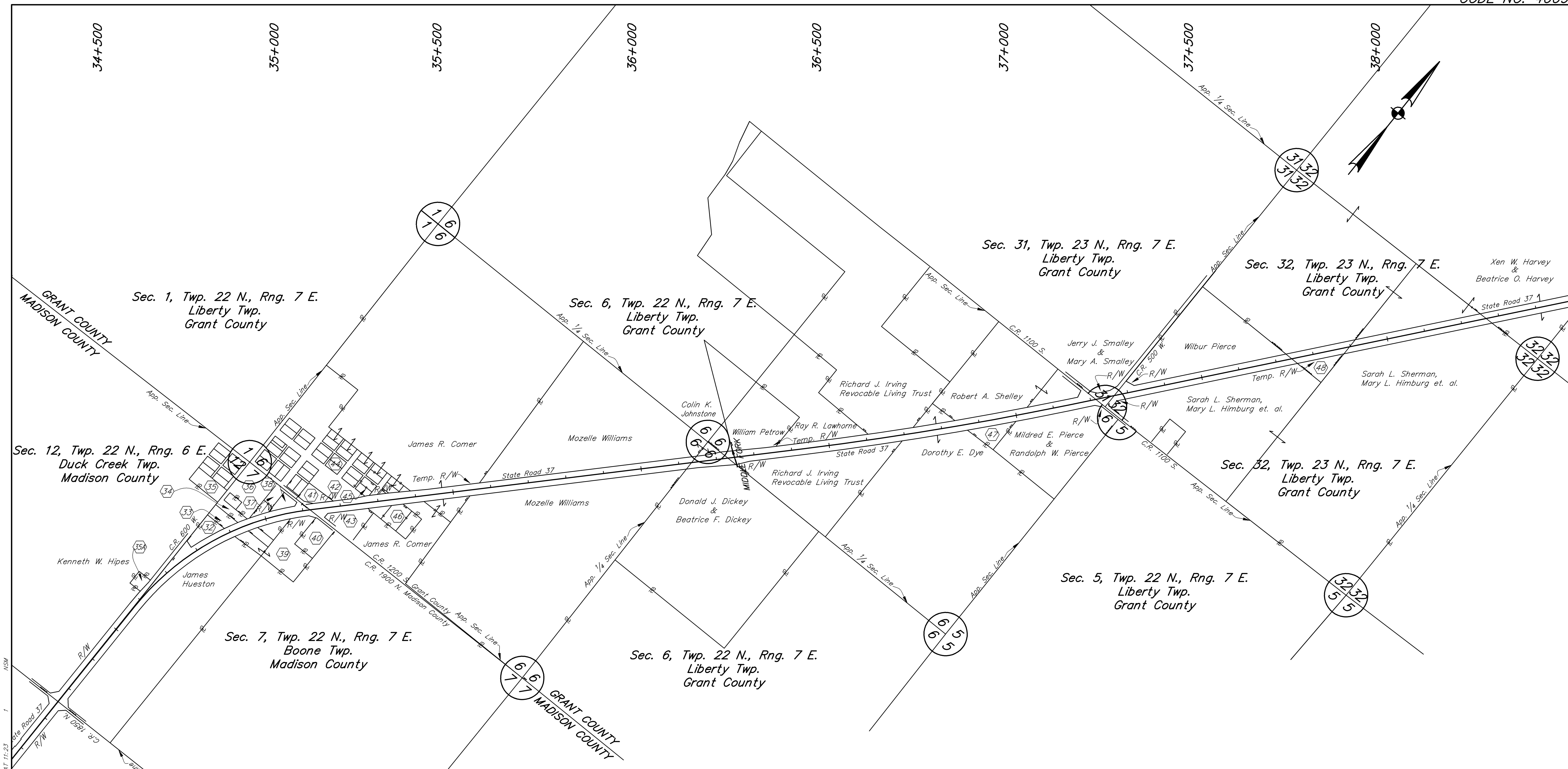
DESIGNED: JB DRAWN: BH  
CHECKED: BZ CHECKED: JB

INDIANA DEPARTMENT OF TRANSPORTATION

PLAT No. 1  
STATE ROAD 37

HORIZONTAL SCALE	FILE
1:5000	3783
VERTICAL SCALE	DESIGNATION
1:5000	9706580
SURVEY BOOK	SHEET
	9 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)



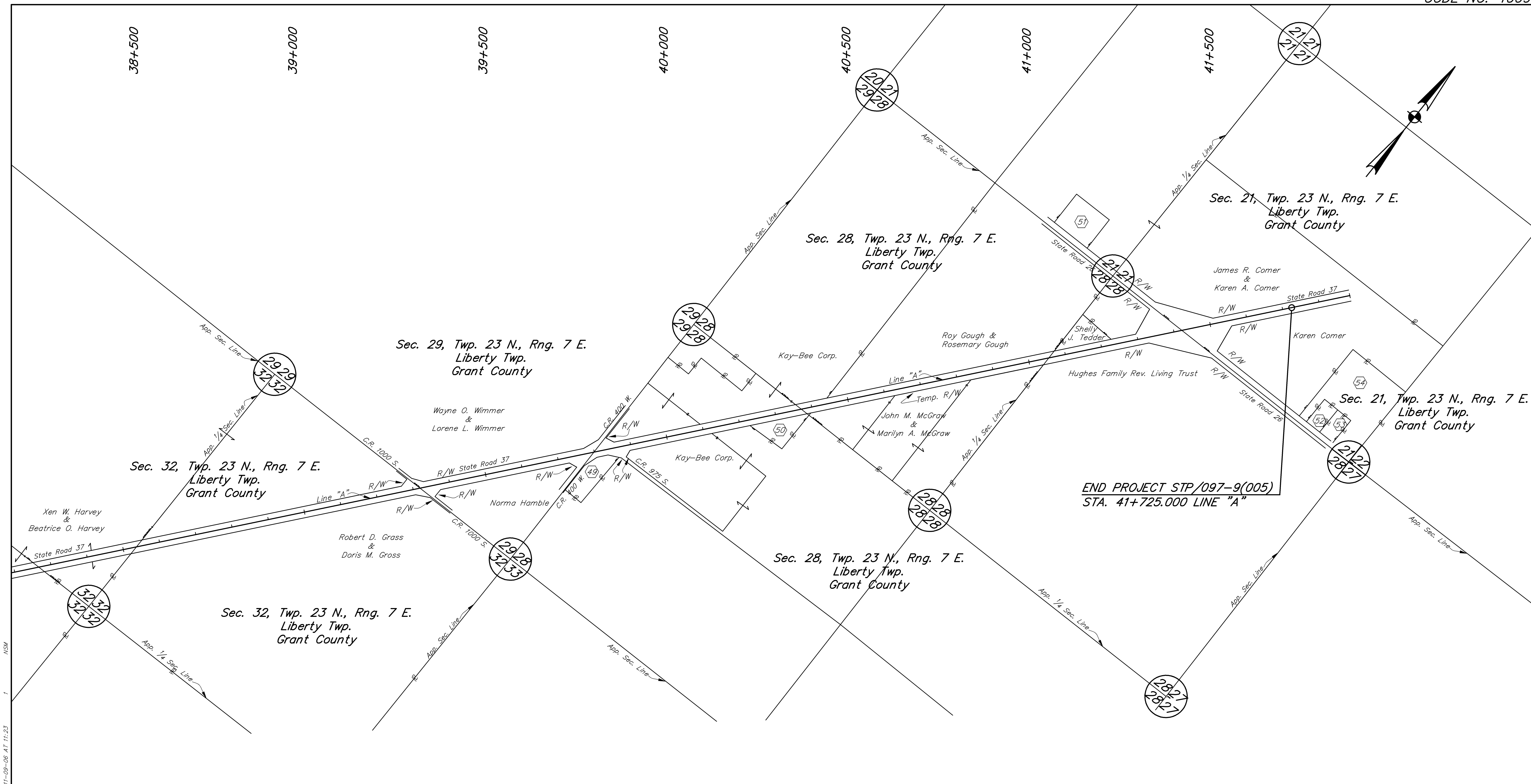


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 NSM

Twp. 22 N., Rng. 7 E.  
Boone Twp.  
Madison County

- |  |  |  |   |
|--|--|--|---|
| <p><b>Section 12</b></p> <ul style="list-style-type: none"> <li>35 Debra J. McCord &amp; Xen L. McCord</li> <li>36 Travis Allen &amp; Cynthia F. York</li> </ul> | <p><b>Section 7</b></p> <ul style="list-style-type: none"> <li>32 Charles R., David A. &amp; James R. Renbarger</li> <li>33 Lions Club of Rigdon</li> <li>34 Florence E. Jamison</li> <li>36 Jason E. &amp; Patricia A. McCord</li> <li>37 Jason E. McCord &amp; Patricia A. McCord</li> <li>38 Melvin E. Martin &amp; Garnet L. Martin</li> <li>39 Wendell L. Gerstoff, Jr. &amp; Debra E. Gerstoff</li> <li>40 Debra Louann Ellis &amp; Kathryn Ellis</li> </ul> | <p><b>Section 6</b></p> <ul style="list-style-type: none"> <li>41 Melvin L. Davis &amp; Deborah K. Davis</li> <li>42 Lester E. Duncan Jr. Et. Al.</li> <li>43 Lori A. Speidel</li> <li>44 Joe A. Williams &amp; Betty M. Williams</li> <li>45 Christopher L. &amp; Barbara S. Pence</li> <li>46 Sandra C. Miller</li> <li>47 Mitchell D. Miller &amp; Diann S. Miller</li> </ul> | <p><b>Section 6</b></p> <ul style="list-style-type: none"> <li>48 Emery Bailey &amp; Sharon Bailey</li> </ul> |
|--|--|--|---|

 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 715-4615 FAX 317 715-4616 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2334 FAX 219 769-2377		RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION  PLAT No. 1 STATE ROAD 37	HORIZONTAL SCALE 1:5000 FILE 3783 VERTICAL SCALE 1:5000 DESIGNATION 9706580 SURVEY BOOK SHEET 10 OF 292 CONTRACT PROJECT R-28934 STP/097-9(005)
	DESIGNED: JB DRAWN: BH CHECKED: BZ CHECKED: JB	BFS NO. 3783.07		



END PROJECT STP/097-9(005)  
STA. 41+725.000 LINE "A"

Section 28

- 49 John J. Miller & Susan L. Miller
- 50 Rachel E. Caudell, Dennis W. Caudell & Thomas Brian Caudell

Section 21

- 51 Thomas G. & Carolyn Jones
- 52 Charline Jones
- 53 Chas. & Mary Lynn Pitt
- 54 Karen A. Comer

11-09-06 AT 11:23  
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**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615  
FAX 317 715-4616

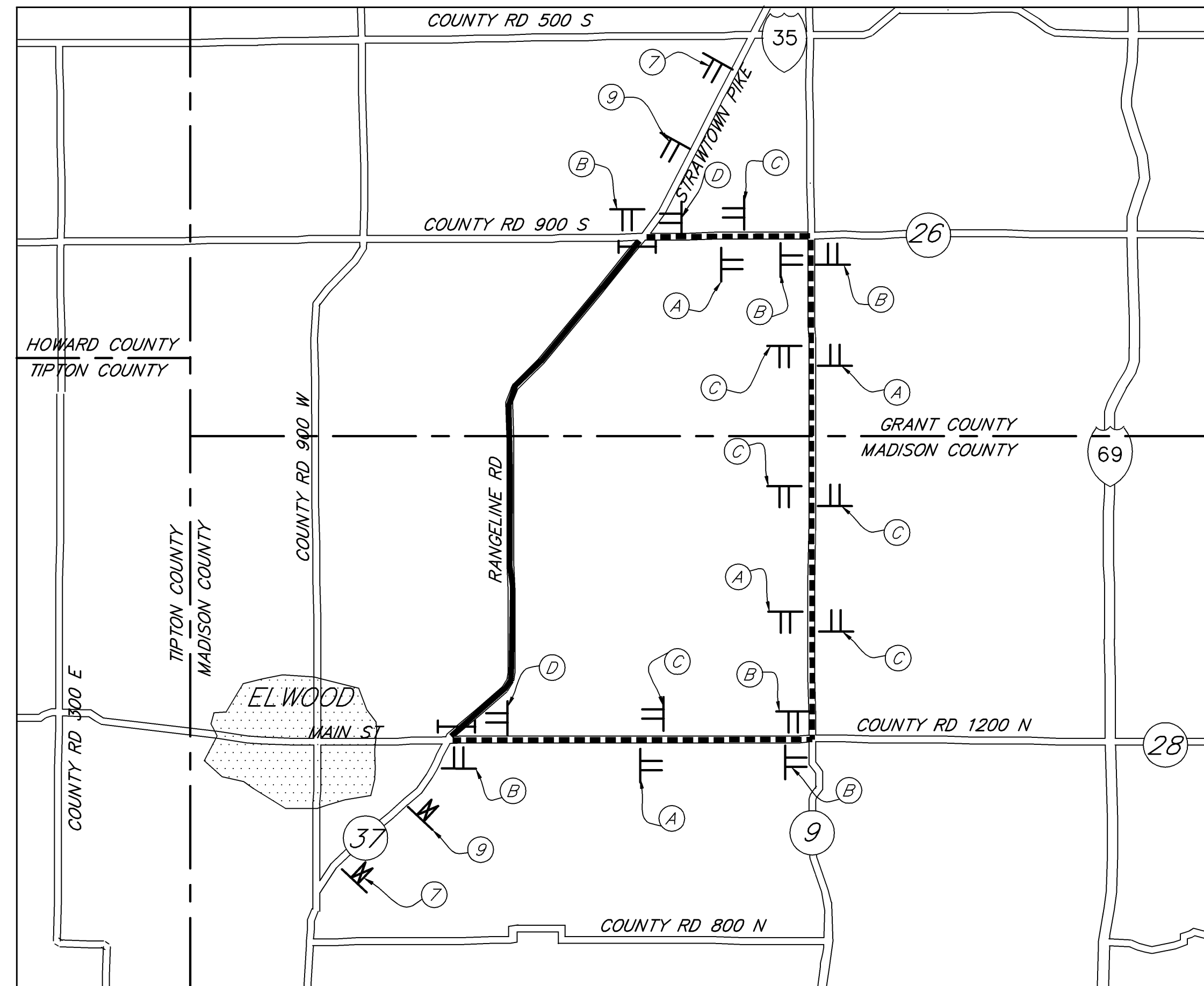
REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
MATTHEW S. LARRABEE

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: JB DRAWN: BH  
CHECKED: BZ CHECKED: JB

INDIANA DEPARTMENT OF TRANSPORTATION  
PLAT No. 1  
STATE ROAD 37

HORIZONTAL SCALE	FILE
1:5000	3783
VERTICAL SCALE	DESIGNATION
1:5000	9706580
SURVEY BOOK	SHEET
	11 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

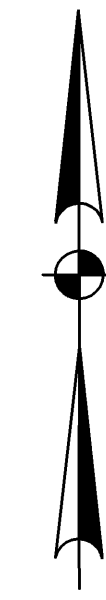
BFS NO. 3783.07



**STATE ROAD 37 DETOUR ROUTE**  
NOT TO SCALE

**SEQUENCE OF OPERATIONS**

1. Maintain Ingress and Egress to all Properties at all Times.
2. Place Construction Signage and Detour Route Marker Assemblies, Directing Traffic to S.R. 9, as the Detour Route.
3. Replace Small Structures and Culverts utilizing Temp. Closures.
4. Mill the Mainline Pavement and Remove Existing Shoulder Material.
5. Construct Widening/Turn Lanes and Shoulders.
6. Construct County Road Intersection, utilizing Temp. Road Closures Where Necessary. Contractor is to Provide Necessary Advance Warning Signage.
7. Place Signage, Striping and Surface Restoration.



- LEGEND**
- BARRICADE TYPE III-B
  - DETOUR ROUTE SIGN ASSEMBLIES  
REFER TO INDOT METRIC STANDARD  
DRAWING 801-TCDT-03
  - CONSTRUCTION SIGN TYPE AS SHOWN  
WITH TYPE "A" WARNING LIGHT
  - DETOUR ROUTE
  - AREA OF CONSTRUCTION

DETOUR SIGN SUMMARY TABLE				
LABEL	TYPE	CODE	DESCRIPTION	QUANTITY
7	A	XW20-2	DETOUR AHEAD	2
8	A	XW20-3	ROAD CLOSED AHEAD	0
9	A	R11-3	LOCAL TRAFFIC ONLY (1 Mi.)	2
10			ROAD CLOSURE SIGN ASSEMBLY	2
11			ADVANCE DETOUR ROUTE MARKER ASSEMBLY	4
12			DIRECTIONAL DETOUR ROUTE MARKER ASSEMBLY	6
13			CONFIRMING DETOUR ROUTE MARKER ASSEMBLY	9
14			END DETOUR ROUTE MARKER ASSEMBLY	2
			BARRICADE TYPE III-B	8

11-09-06 AT 11:29  
F:\17831\AUTOCAD\ROAD\17831.dwg

**BE&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
MATTHEW S. LARSEN  
No. PE10302038  
STATE OF INDIANA

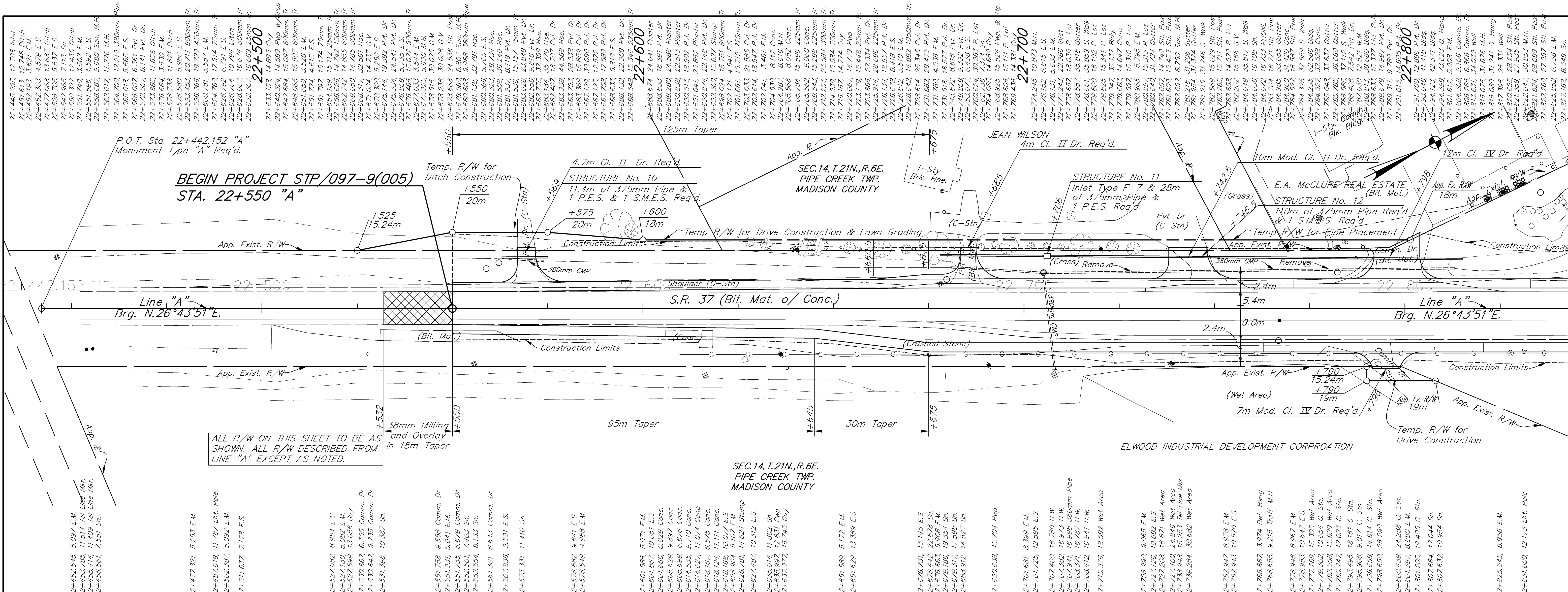
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: JLB DRAWN: BJE  
CHECKED: B.Z. CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
DETOUR ROUTE  
S.R. 37

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	12 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07





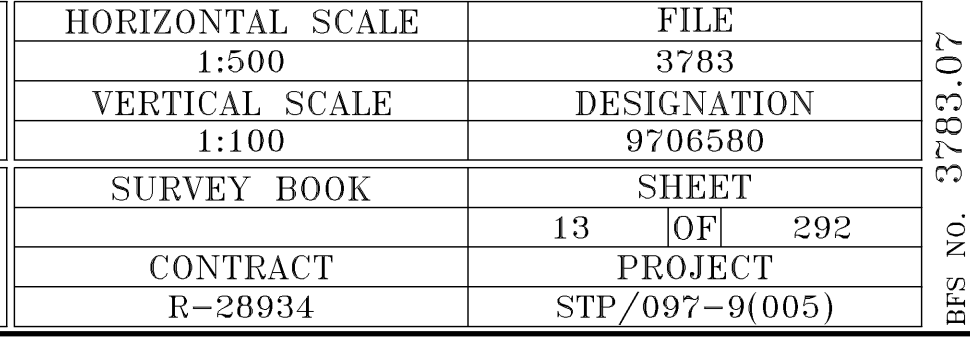
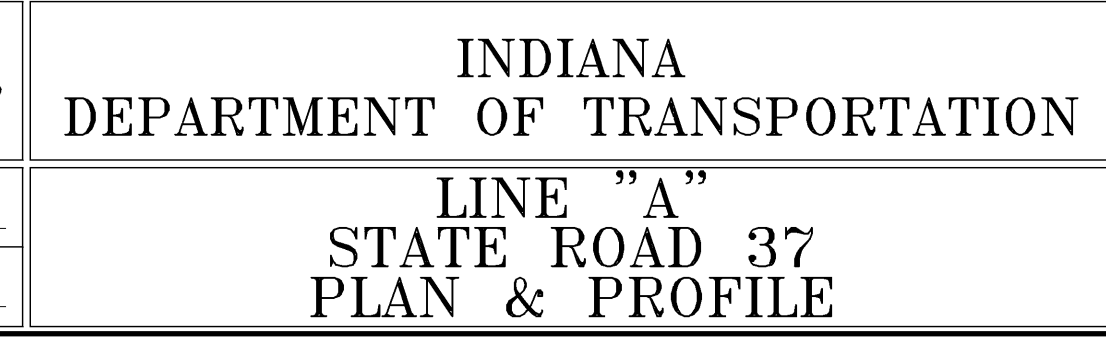
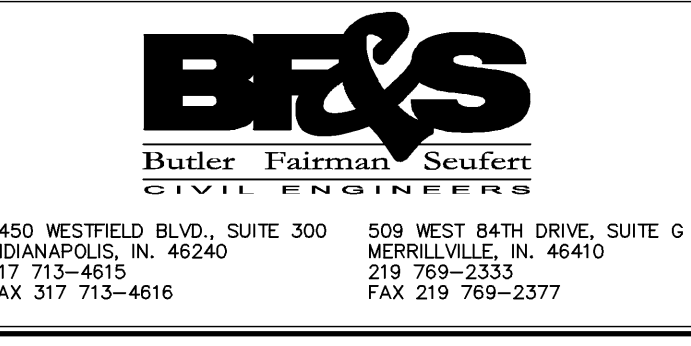
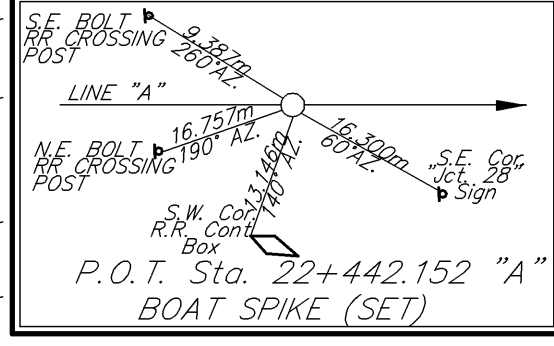
**BEGIN PROJECT STP/097-9(005)  
STA. 22+550 "A"**

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

SEC. 14, T. 21N., R. 6E.  
PIPE CREEK TWP.  
MADISON COUNTY

ELWOOD INDUSTRIAL DEVELOPMENT CORPORATION

Station	Common Excavation	Fill + 15%	Borrow	Benching
272	51,962 m <sup>3</sup>	57,023 m <sup>3</sup>	5,061 m <sup>3</sup>	1,585 m <sup>3</sup>
270	The above Quantity Includes 3,927 m <sup>3</sup> of Cut and 1,977 m <sup>3</sup> of Fill +15% for Drives. No Direct Payment is made of Benching.			
268				
266				
264				
262				
260				
258				
256				



**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN. 46410

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
MATTHEW S. LARSEN

RECOMMENDED FOR APPROVAL: *Matthew J. Vanue* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION  
LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 13 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

65116789

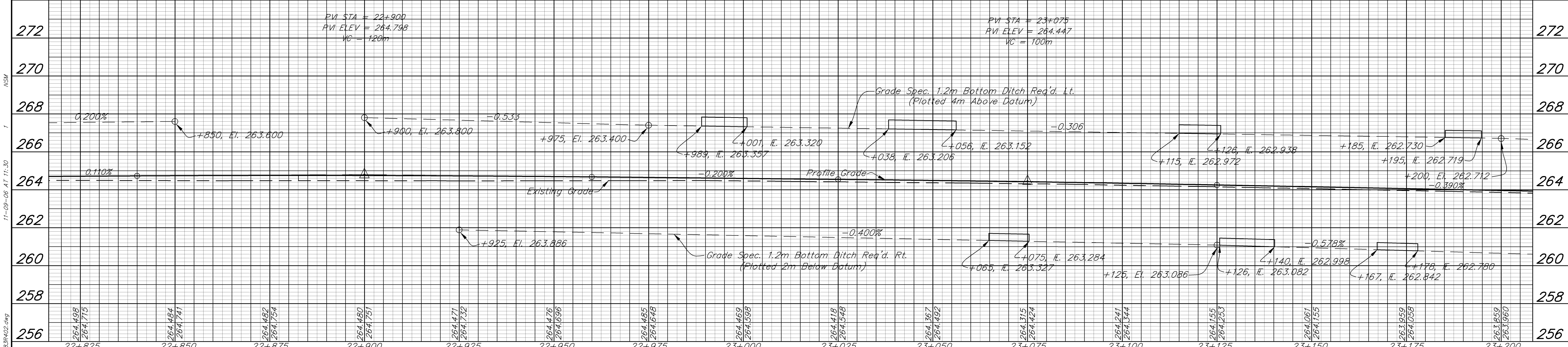
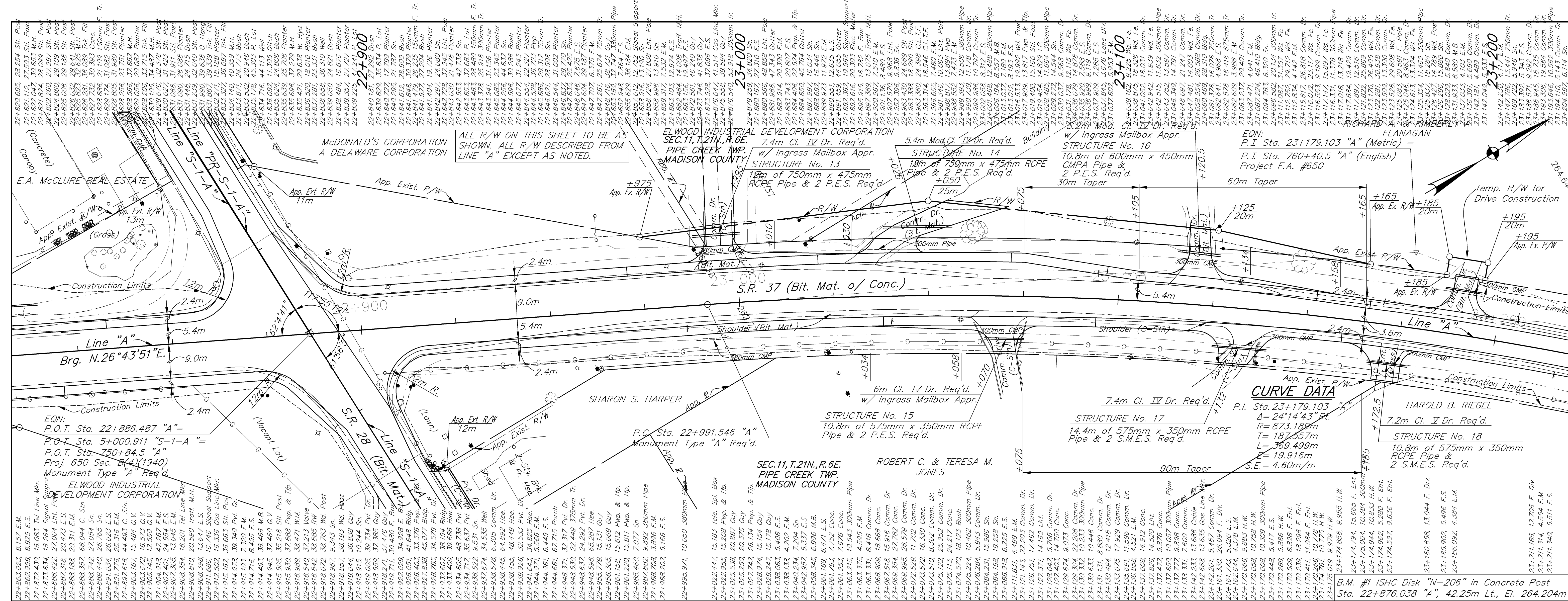
11-09-06 AT 11:29

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1

BFS NO. 3783.07





**BR&S**  
Butler Fairman Seuffer  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN 46240  
FAX 317 713-4816

RECOMMENDED FOR APPROVAL: *Matthew Danaher* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

CONTRACT R-28934 PROJECT STP/097-9(005)

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	14 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

REGISTERED PROFESSIONAL ENGINEER	STATE OF INDIANA
NO. PE10302038	SITE OF INDIANA

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

EON: P.O.T. Sta. 22+886.487 "A" =  
P.O.T. Sta. 5+000.911 "S-1-A" =  
P.O.T. Sta. 750+84.5 "A" =  
Proj. 650 Sec. B(4)(1940)  
Monument Type "A" Req'd.

ELWOOD INDUSTRIAL DEVELOPMENT CORPORATION

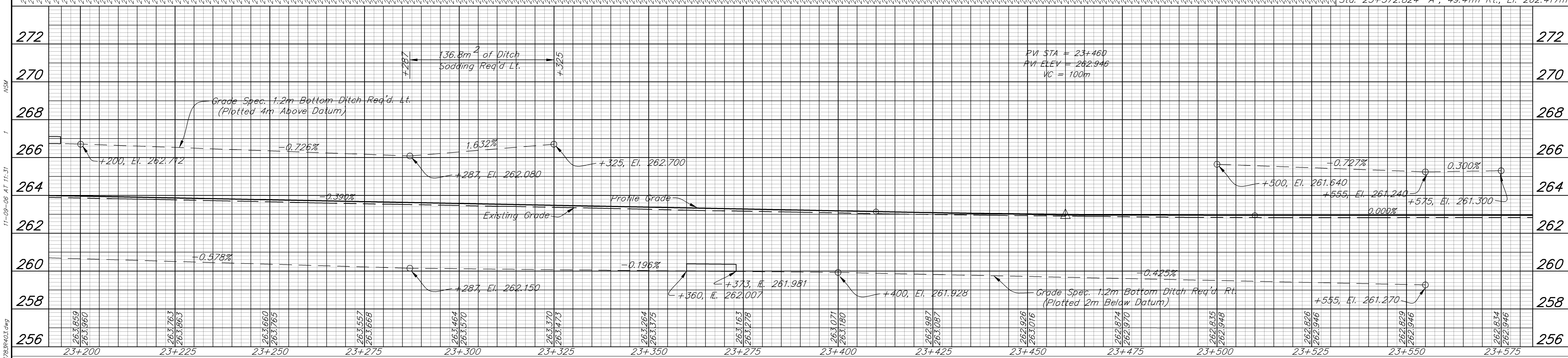
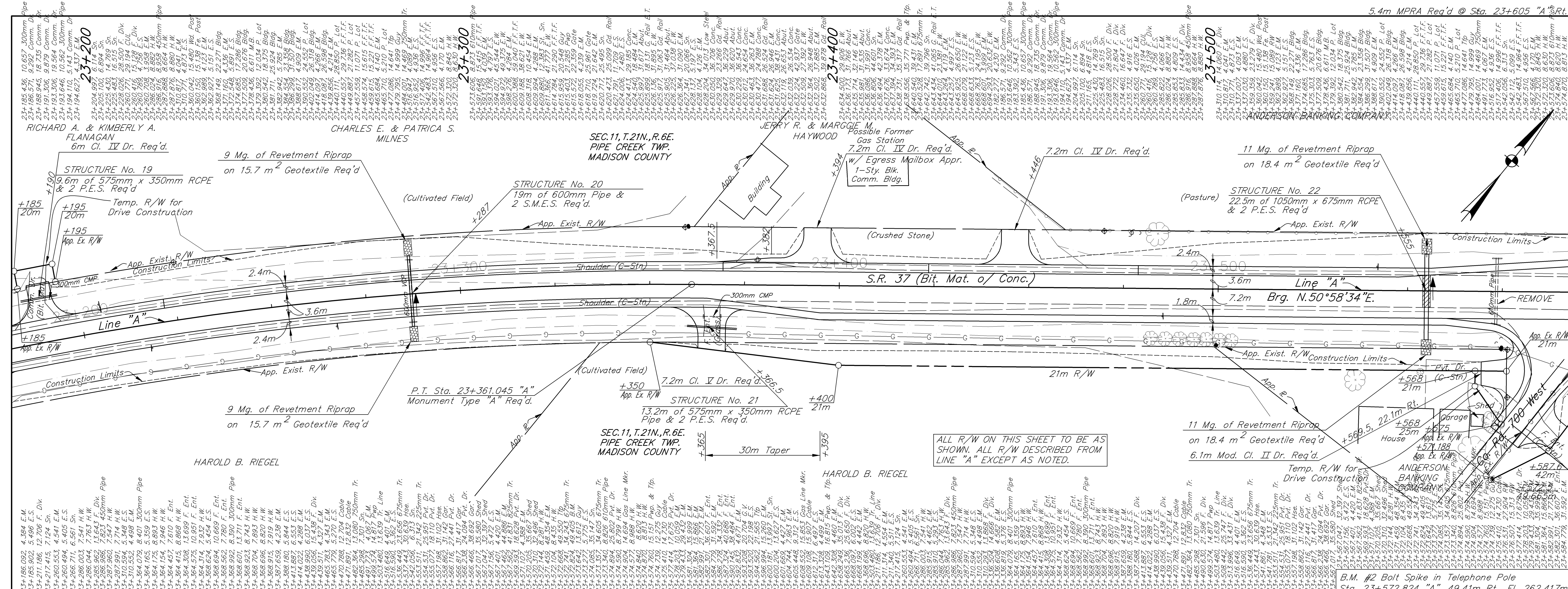
SEC. 11, T. 21N., R. 6E.  
PIPE CREEK TWP.  
MADISON COUNTY

ROBERT C. & TERESA M. JONES

HAROLD B. RIEGEL

B.M. #1 ISHC Disk "N-206" in Concrete Post  
Sta. 22+876.038 "A", 42.25m Lt., E. 264.204m



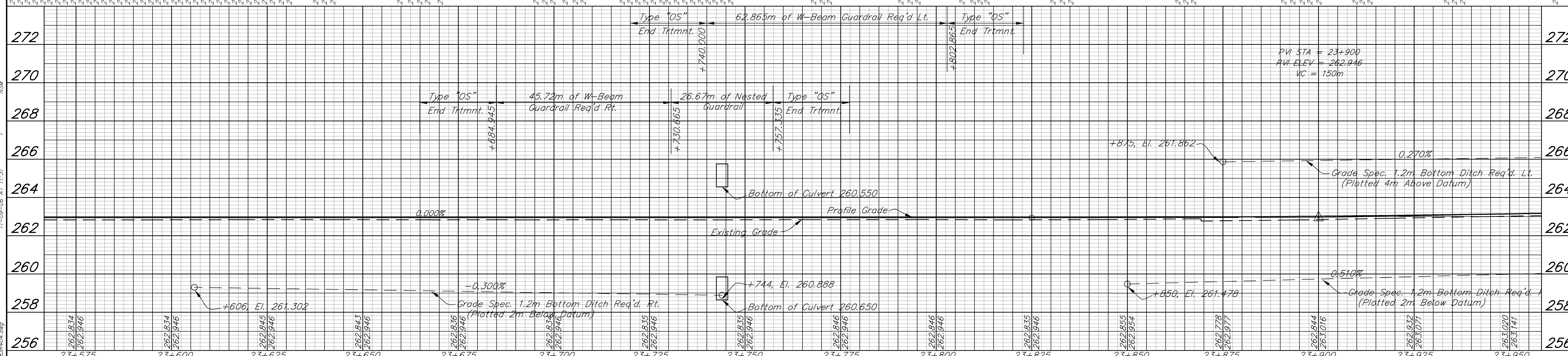
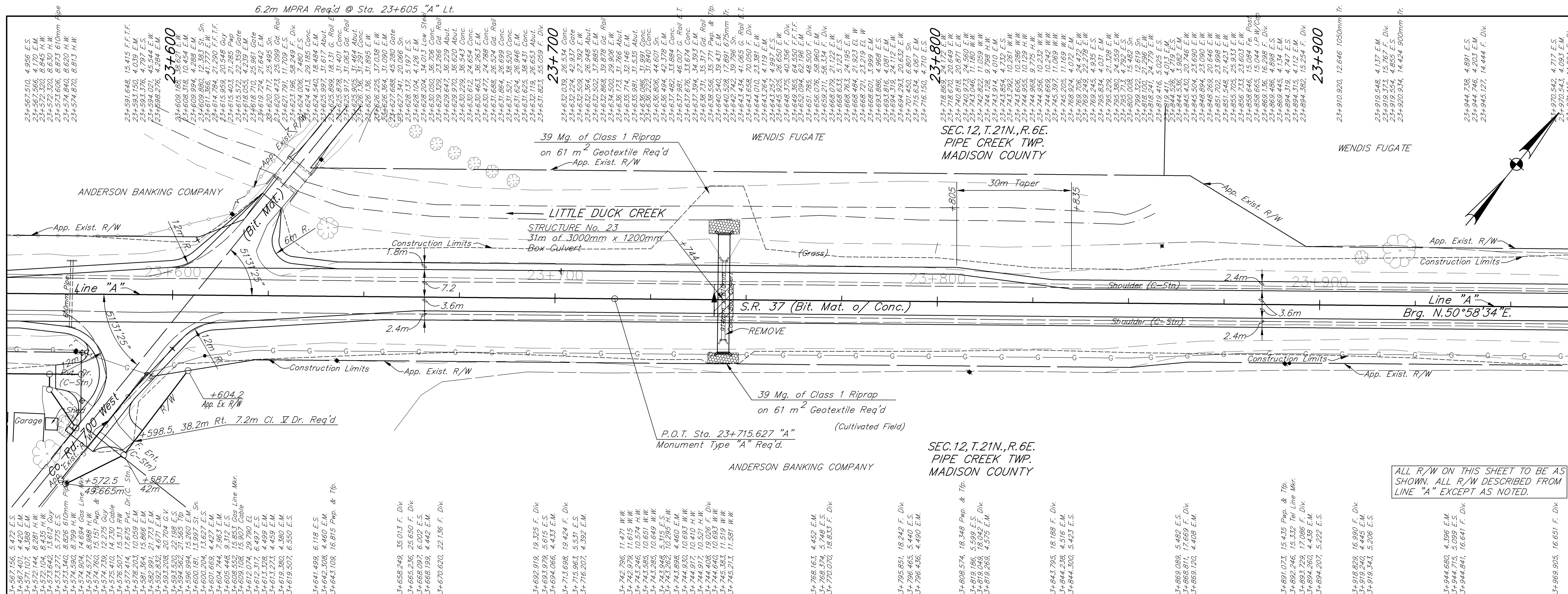


<p>Butler Fairman Seuffert CIVIL ENGINEERS</p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317 713-4816 FAX 317 713-4816</p>	<p>REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA No. PE10302038</p>	RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION  <b>LINE "A"</b> <b>STATE ROAD 37</b> <b>PLAN &amp; PROFILE</b>	HORIZONTAL SCALE 1:500	FILE 3783
		DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.		VERTICAL SCALE 1:100	DESIGNATION 9706580
		SURVEY BOOK R-28934	SHEET 15 OF 292	PROJECT STP/097-9(005)	CONTRACT R-28934

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BFS NO. 3783.07

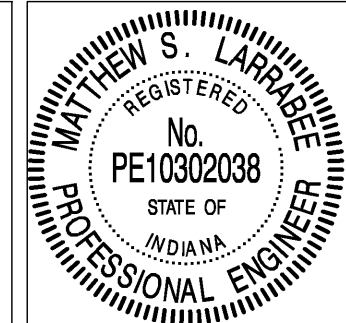
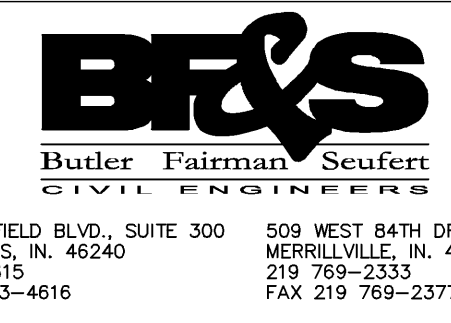
6.2m MPRA Req'd @ Sta. 23+605 "A" Lt.



Station	Elevation	Notes
23+575	262.834	
23+600	262.946	
23+625	262.845	
23+650	262.946	
23+675	262.836	
23+700	262.833	
23+725	262.835	
23+750	262.835	
23+775	262.846	
23+800	262.946	
23+825	262.835	
23+850	262.855	
23+875	262.728	
23+900	262.946	
23+925	262.932	
23+950	262.941	

-39-31-148  
 11-09-06 AT 11:31  
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ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



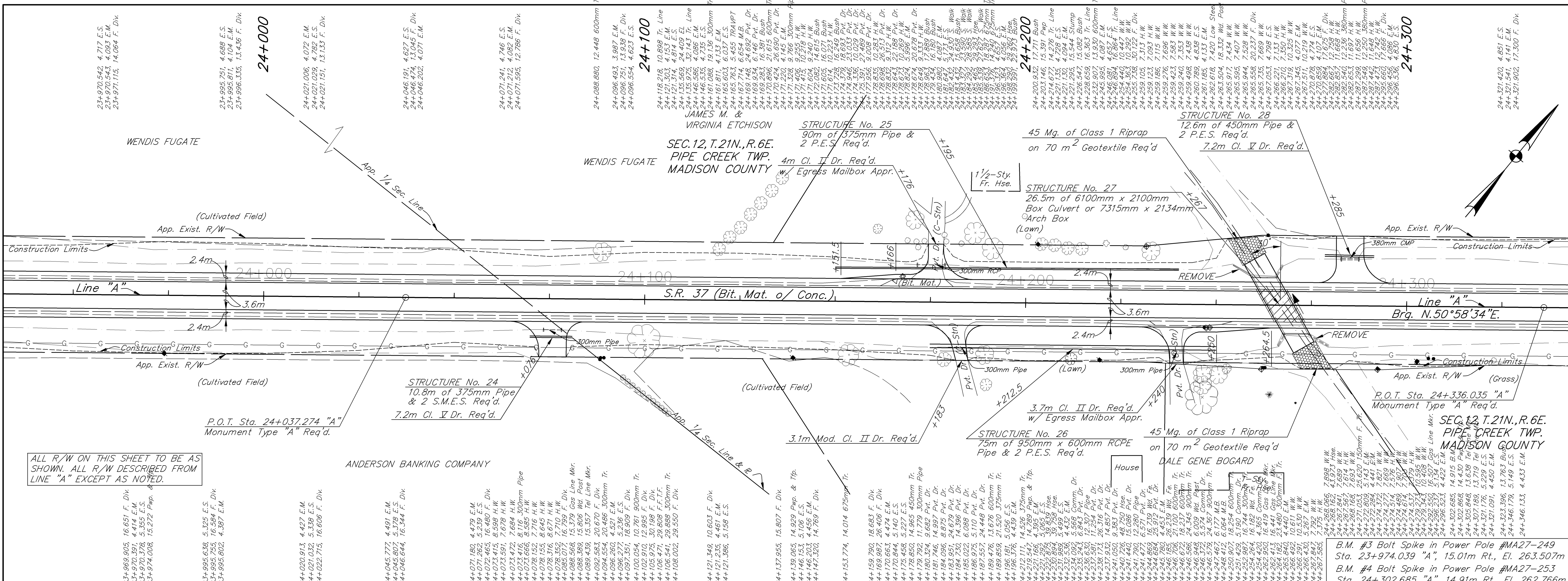
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: J.B. DRAWN: G.N.  
 CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION  
 LINE "A" STATE ROAD 37 PLAN & PROFILE

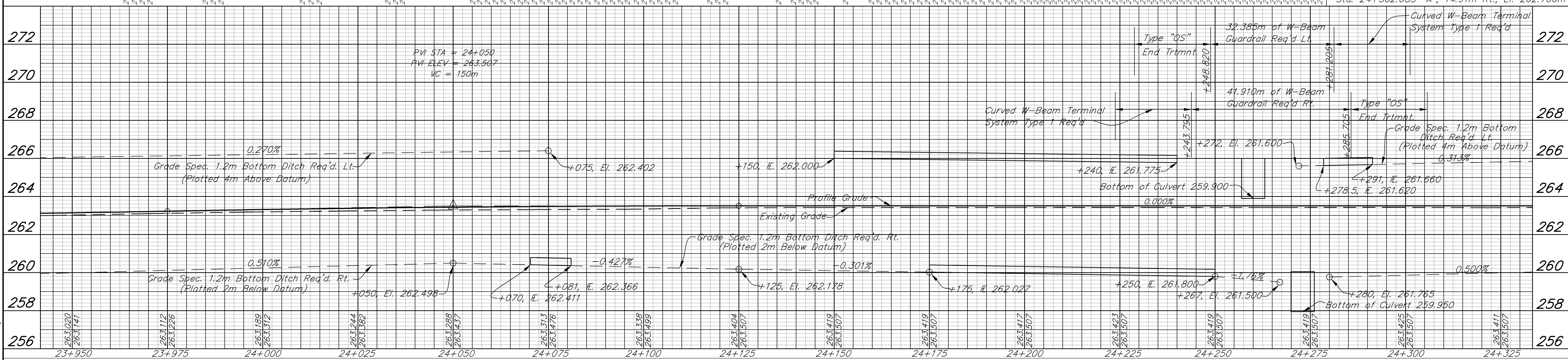
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 16 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07



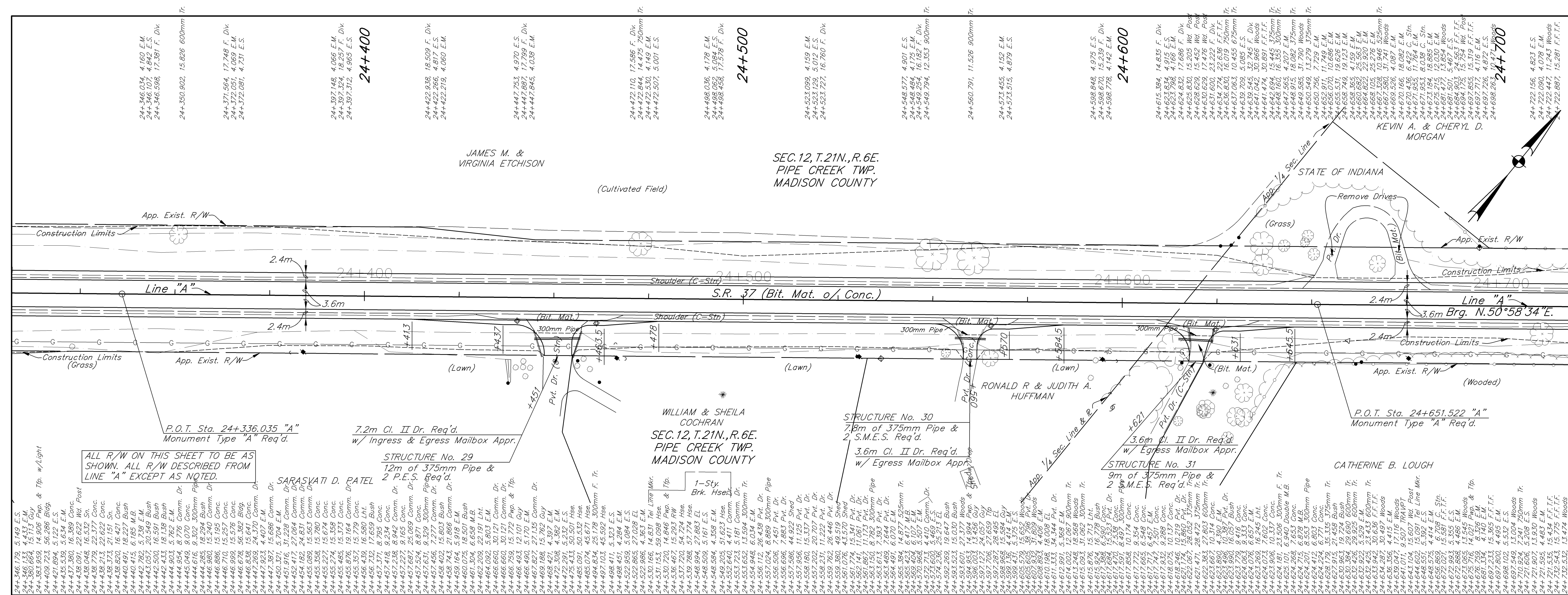


ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

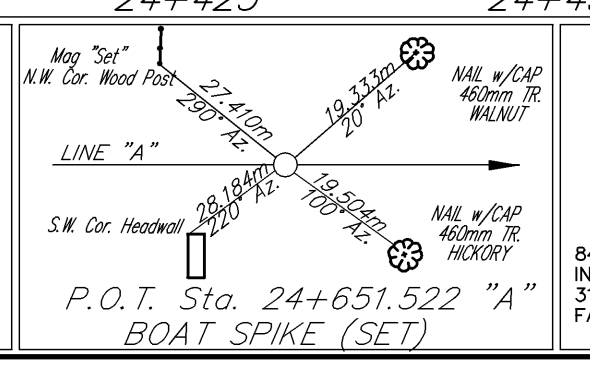
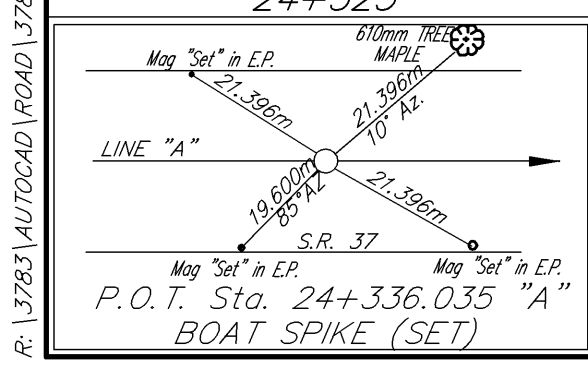
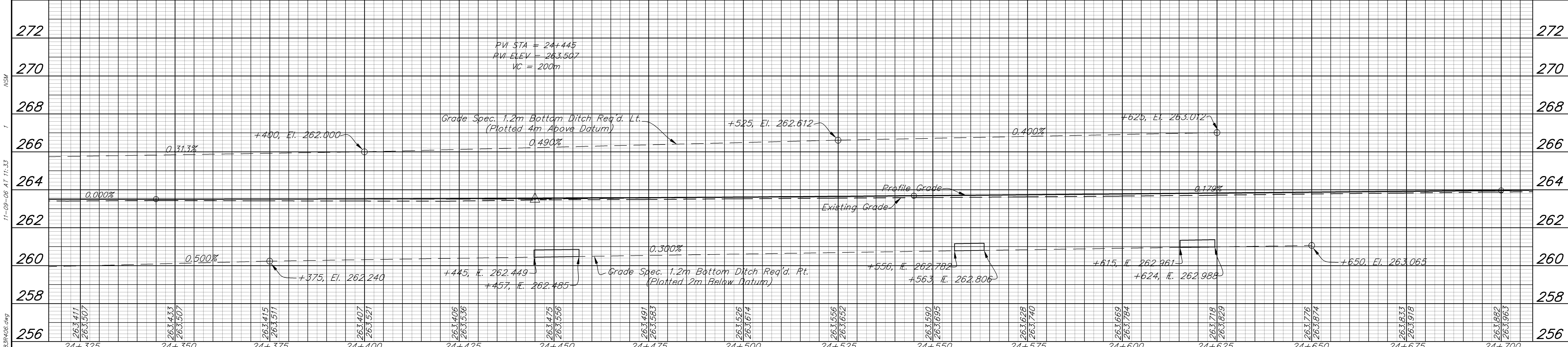


<p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317 713-4815 FAX 317 713-4816</p>	<p>REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA No. PE10302038</p>	RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE	HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100 SURVEY BOOK R-28934 FILE 3783 DESIGNATION 9706580 SHEET 292 PROJECT STP/097-9(005)
		DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.	

11--09--06 AT 11:32  
 -39\*31'48"  
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ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



**BFS**  
Butler Fairman Seuffert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240  
317 713-4815 FAX 317 713-4816

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
WALTER S. LARSEN

RECOMMENDED FOR APPROVAL: *Matthew Danube* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

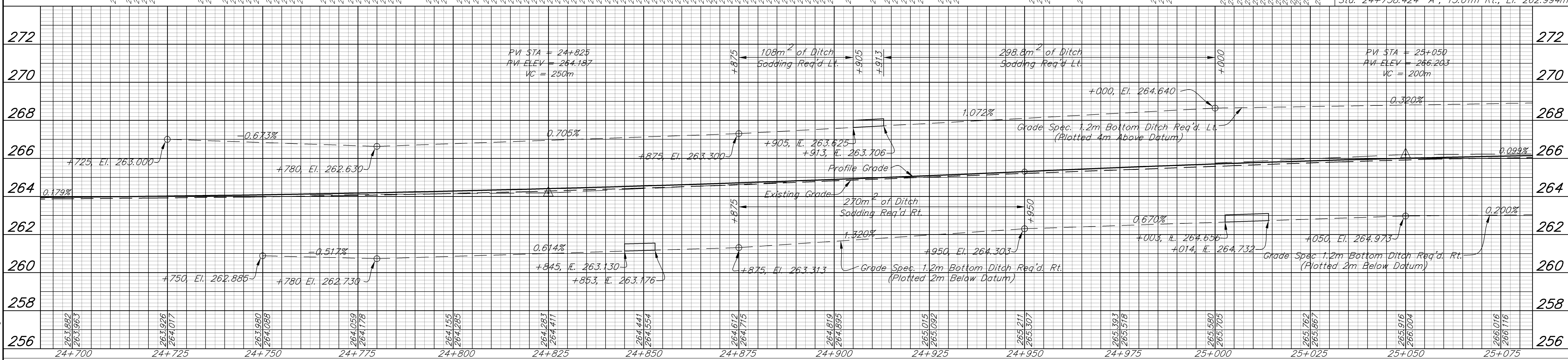
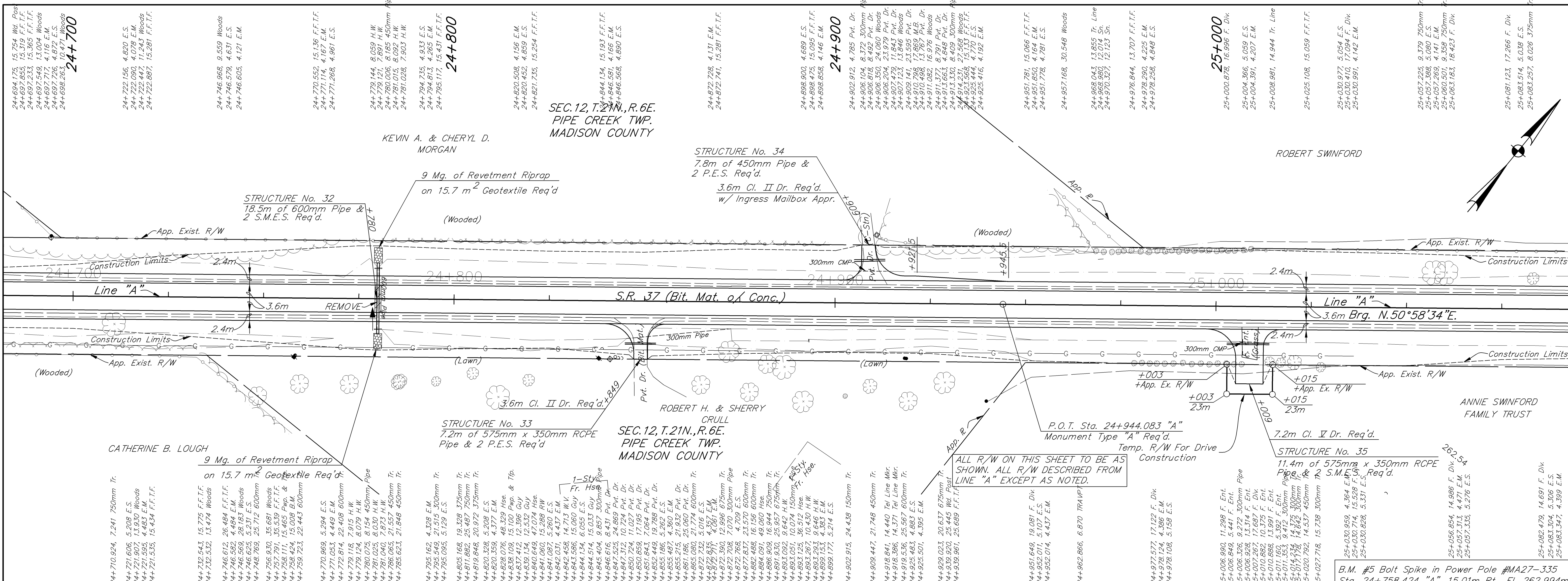
INDIANA DEPARTMENT OF TRANSPORTATION  
LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 18 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

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 I

BFS NO. 3783.07





<p>RECOMMENDED FOR APPROVAL: <i>Matthew Danube</i> 11/10/06 DESIGN ENGINEER DATE</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</p>	<table border="1"> <tr> <td>HORIZONTAL SCALE</td> <td>FILE</td> </tr> <tr> <td>1:500</td> <td>3783</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>DESIGNATION</td> </tr> <tr> <td>1:100</td> <td>9706580</td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEET</td> </tr> <tr> <td></td> <td>19 OF 292</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>R-28934</td> <td>STP/097-9(005)</td> </tr> </table>	HORIZONTAL SCALE	FILE	1:500	3783	VERTICAL SCALE	DESIGNATION	1:100	9706580	SURVEY BOOK	SHEET		19 OF 292	CONTRACT	PROJECT	R-28934	STP/097-9(005)
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1:500	3783																	
VERTICAL SCALE	DESIGNATION																	
1:100	9706580																	
SURVEY BOOK	SHEET																	
	19 OF 292																	
CONTRACT	PROJECT																	
R-28934	STP/097-9(005)																	
<p>DESIGNED: J.B. DRAWN: G.N.</p> <p>CHECKED: B.Z. CHECKED: J.B.</p>	<p>B.F.S. No. 3783.07</p>																	

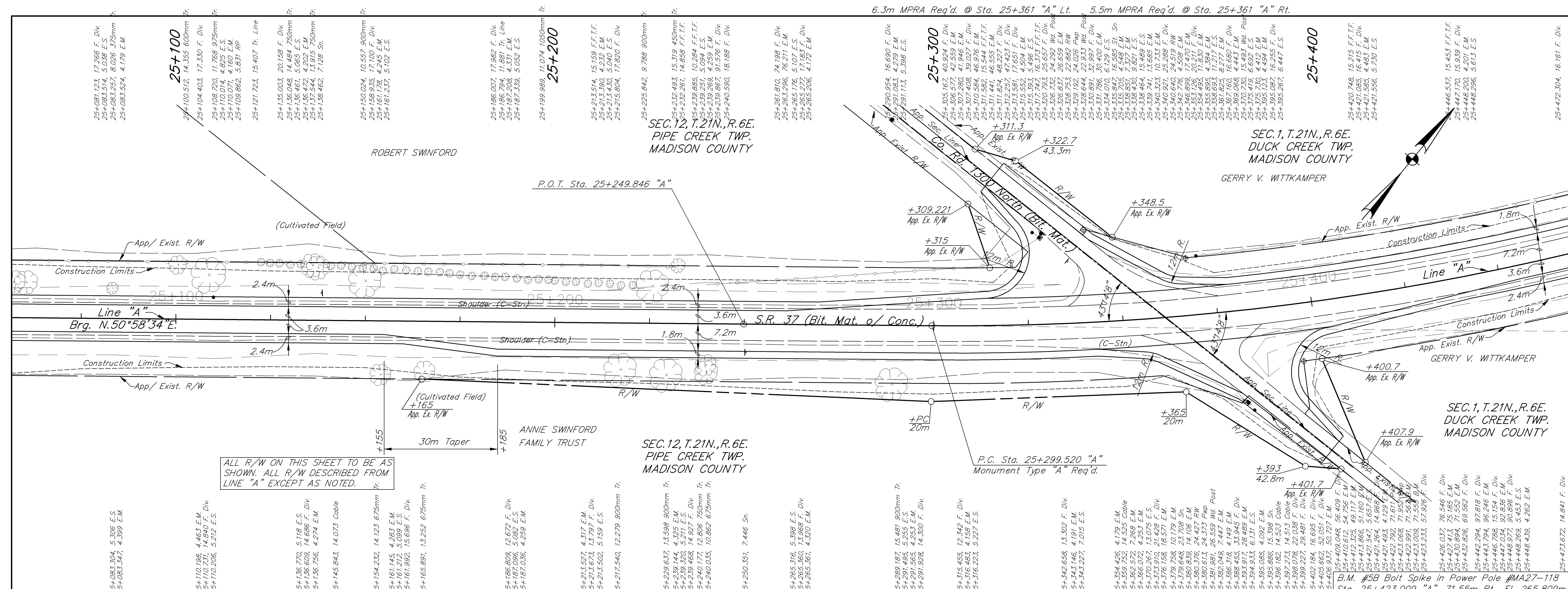
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-39.31'48"

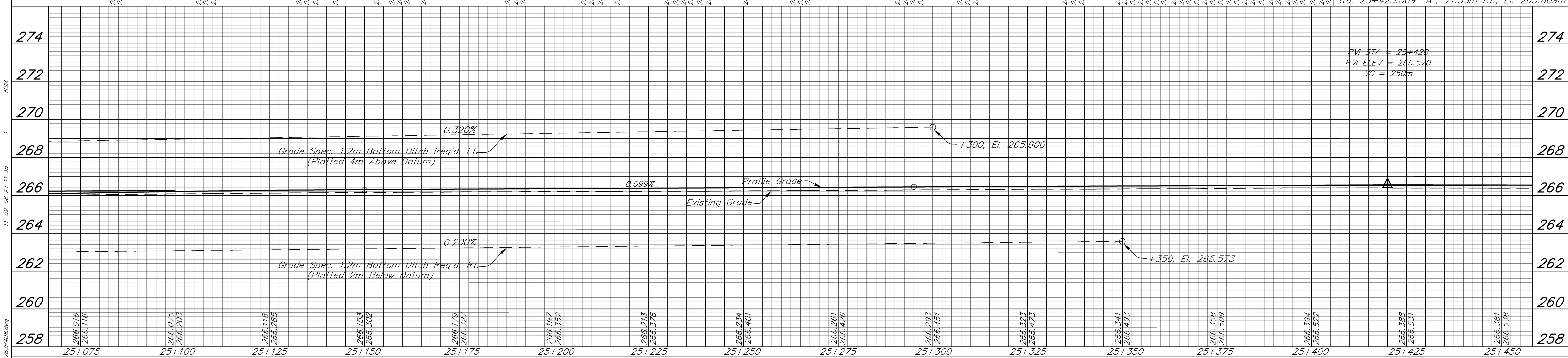
11-09-06 AT 11:54

NSM





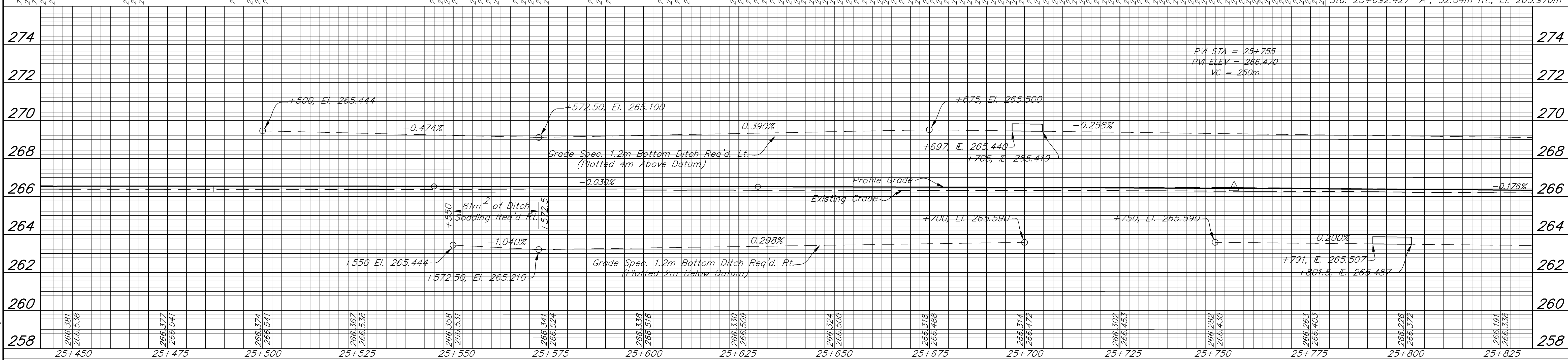
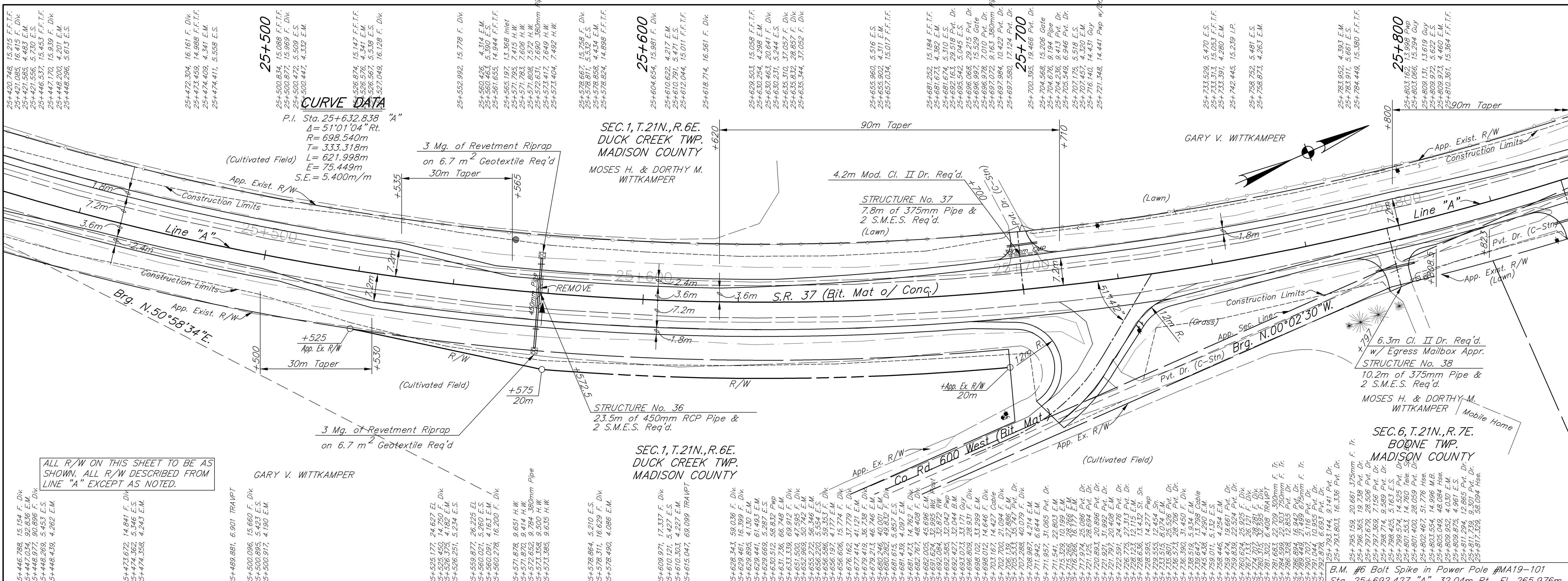
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<p><b>Butler Fairman Seufert CIVIL ENGINEERS</b></p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317 713-4816 FAX 317 713-4816</p>		<p>RECOMMENDED FOR APPROVAL: <i>Matthew Lanphere</i> 11/10/06 DESIGN ENGINEER DATE</p> <p>DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p><b>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</b></p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>HORIZONTAL SCALE</td> <td>FILE</td> </tr> <tr> <td>1:500</td> <td>3783</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>DESIGNATION</td> </tr> <tr> <td>1:100</td> <td>9706580</td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEET</td> </tr> <tr> <td></td> <td>20 OF 292</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>R-28934</td> <td>STP/097-9(005)</td> </tr> </table>	HORIZONTAL SCALE	FILE	1:500	3783	VERTICAL SCALE	DESIGNATION	1:100	9706580	SURVEY BOOK	SHEET		20 OF 292	CONTRACT	PROJECT	R-28934	STP/097-9(005)
HORIZONTAL SCALE	FILE																			
1:500	3783																			
VERTICAL SCALE	DESIGNATION																			
1:100	9706580																			
SURVEY BOOK	SHEET																			
	20 OF 292																			
CONTRACT	PROJECT																			
R-28934	STP/097-9(005)																			

NSM  
 11-09-06 AT 11:35  
 -39\*31'48"  
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BFS No. 3783.07



Map showing the location of the project on a grid. Includes stationing and alignment labels.

**BFS**  
Butler Fairman Seuffert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240  
509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN 46410

RECOMMENDED FOR APPROVAL: *Matthew J. VanDer* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

**LINE "A" STATE ROAD 37 PLAN & PROFILE**

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	21 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

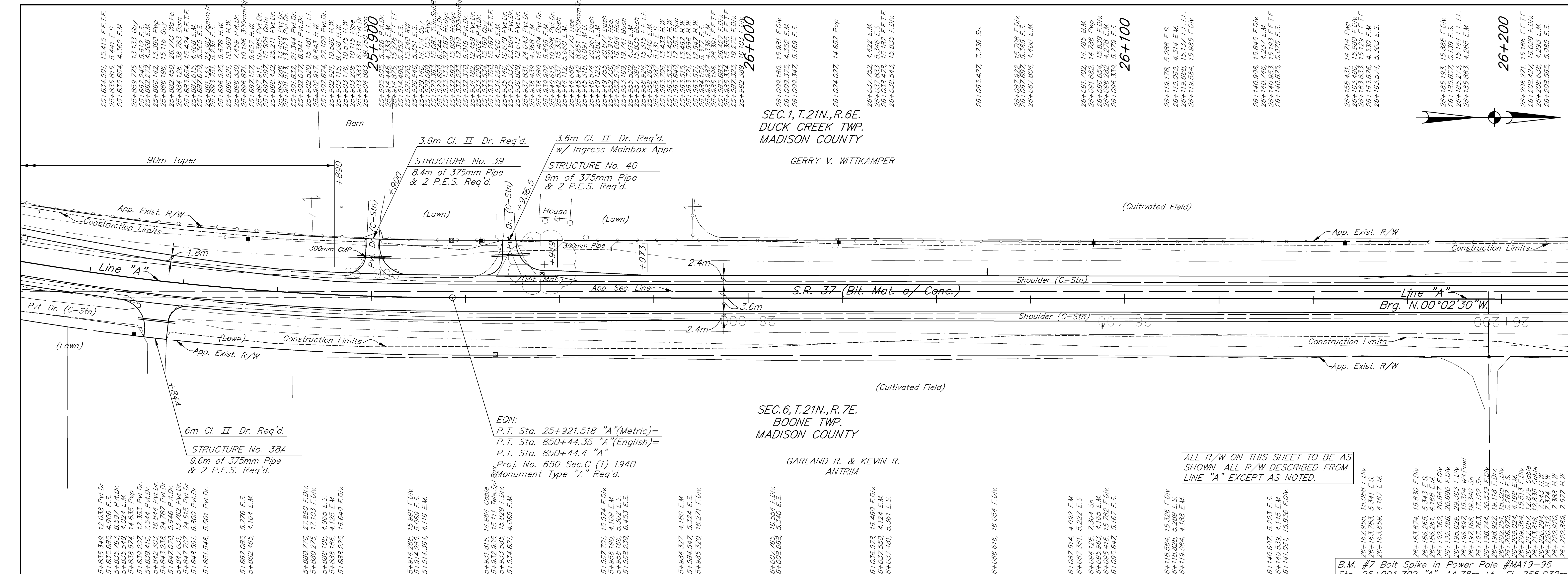
GARY V. WITTKAMPER

SEC. 1, T. 21N., R. 6E. DUCK CREEK TWP. MADISON COUNTY

SEC. 6, T. 21N., R. 7E. BOONE TWP. MADISON COUNTY

B.M. #6 Bolt Spike in Power Pole #MA19-101 Sta. 25+692.427 "A", 32.04m Rt., El. 265.976m



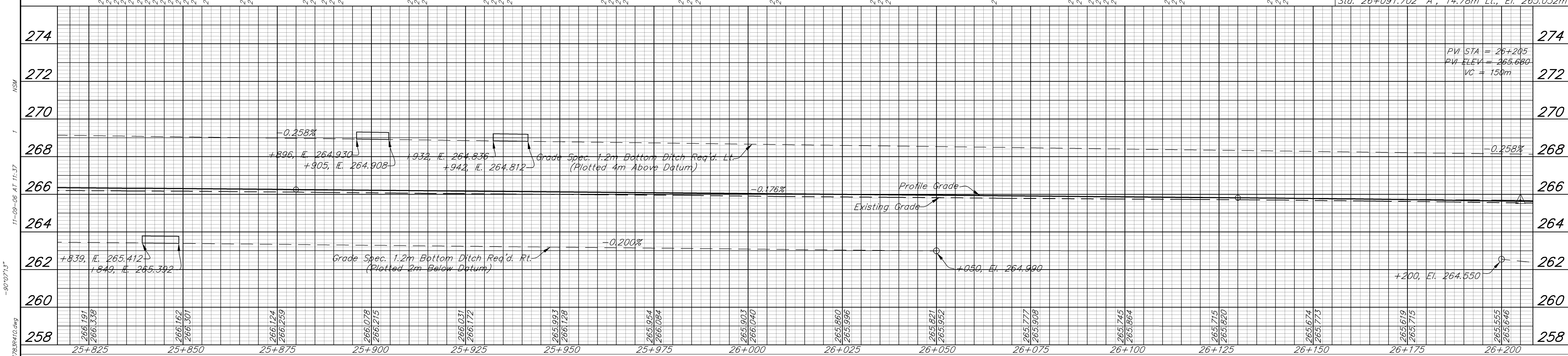


SEC. 1, T. 21N., R. 6E.  
DUCK CREEK TWP.  
MADISON COUNTY  
GERRY V. WITTKAMPER

SEC. 6, T. 21N., R. 7E.  
BOONE TWP.  
MADISON COUNTY  
GARLAND R. & KEVIN R.  
ANTRIM

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

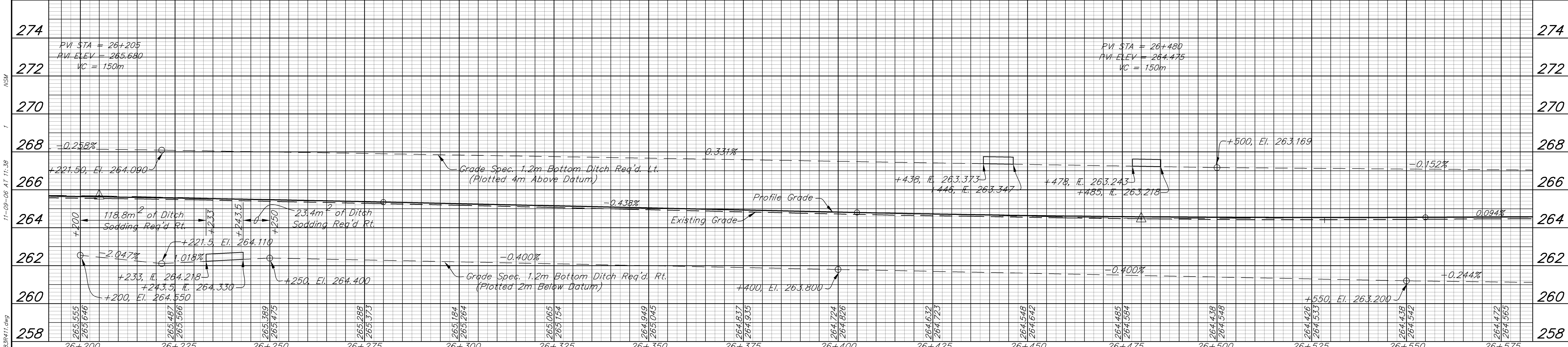
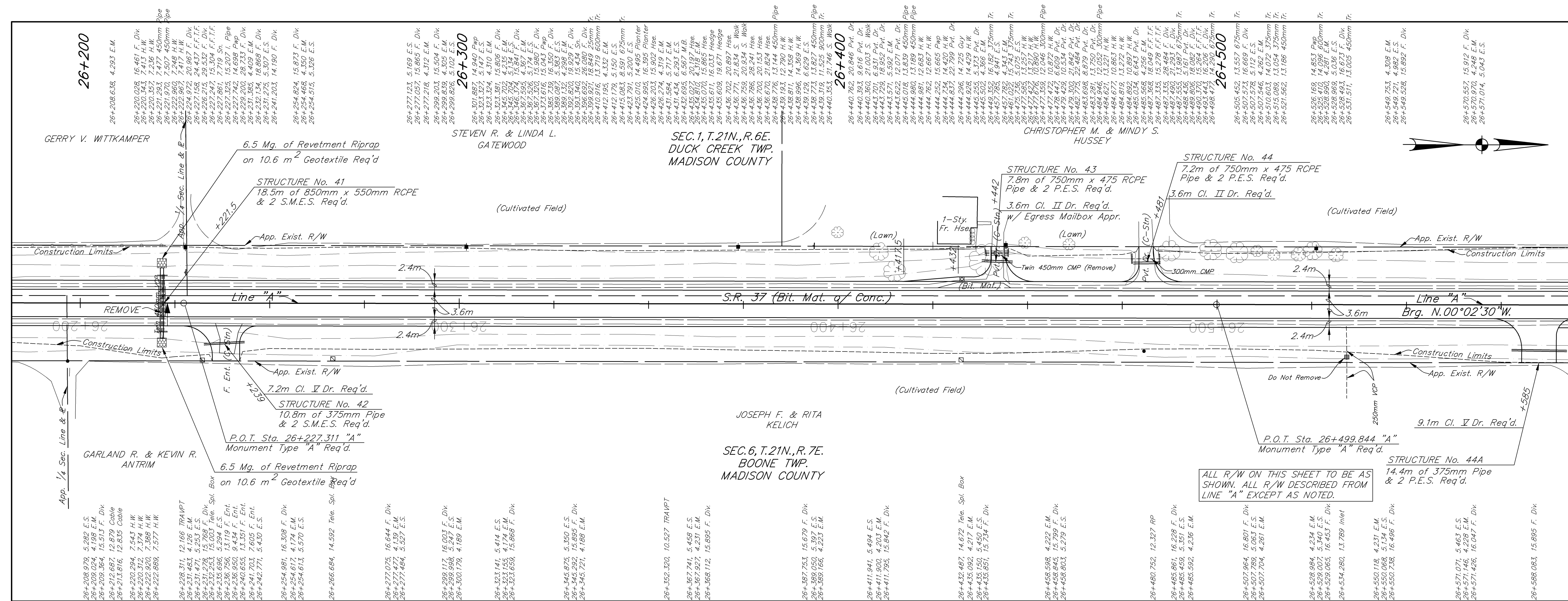
B.M. #7 Bolt Spike in Power Pole #MA19-96  
Sta. 26+091.702 "A", 14.78m Lt., El. 265.032m



<p>Butler Fairman Seuffert CIVIL ENGINEERS</p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317 713-4816 FAX 317 713-4516</p>	<p>RECOMMENDED FOR APPROVAL: <i>Matthew J. Antrim</i> 11/10/06 DESIGN ENGINEER DATE</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</p>	<p>HORIZONTAL SCALE 1:500</p>	<p>FILE 3783</p>	
			<p>VERTICAL SCALE 1:100</p>	<p>DESIGNATION 9706580</p>	
<p>DESIGNED: J.B. DRAWN: G.N.</p>	<p>CHECKED: B.Z. CHECKED: J.B.</p>	<p>SURVEY BOOK</p>	<p>SHEET 22 OF 292</p>	<p>CONTRACT R-28934</p>	<p>PROJECT STP/097-9(005)</p>

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BFS NO. 3783.07

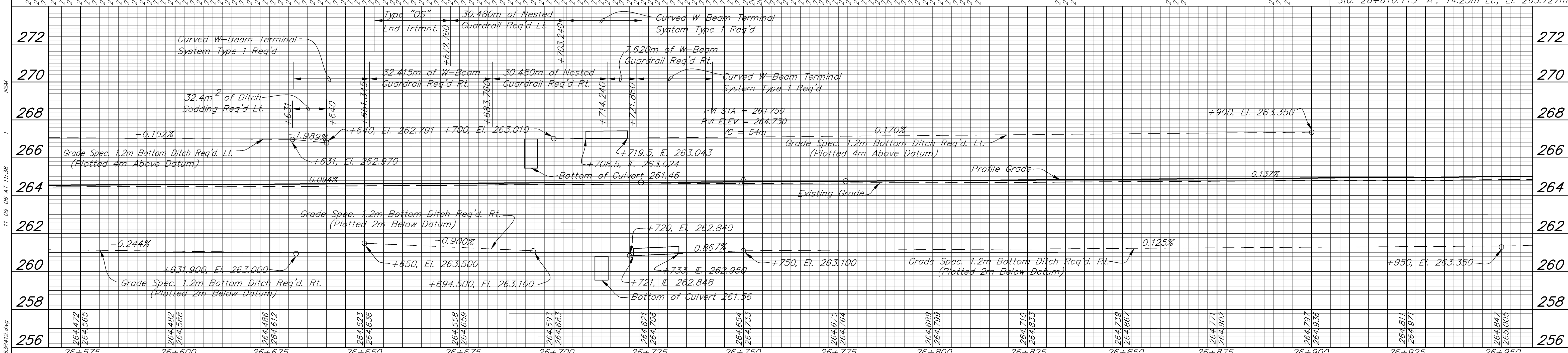
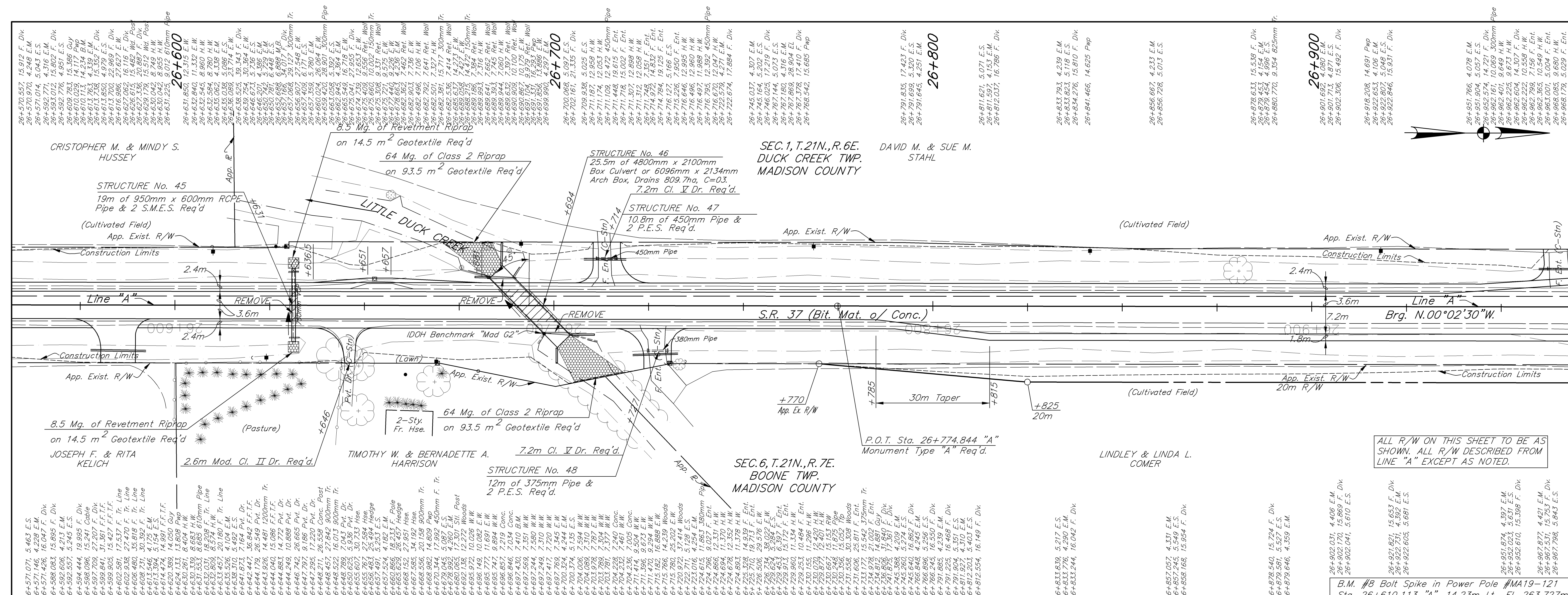


274	PVI STA = 26+205 PVI ELEV = 265.680 VC = 150m	274
272		272
270		270
268		268
266		266
264		264
262		262
260		260
258		258

			RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.	INDIANA DEPARTMENT OF TRANSPORTATION <b>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</b>	HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100 SURVEY BOOK CONTRACT R-28934	FILE 3783 DESIGNATION 9706580 SHEET 292 PROJECT STP/097-9(005)	BFS NO. 3783.07
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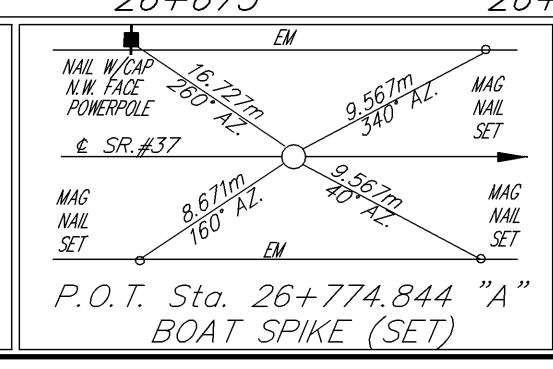
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Station	26+575	26+600	26+625	26+650	26+675	26+700	26+725	26+750	26+775	26+800	26+825	26+850	26+875	26+900	26+925	26+950
Profile Grade	+631.900	+630.000	+631.900	+640.000	+650.000	+694.500	+719.500	+733.000	+750.000	+770.000	+785.000	+825.000	+875.000	+900.000	+950.000	+950.000
Bottom of Culvert						+261.46	+261.46	+261.46	+261.46	+261.46	+261.46	+261.46	+261.46	+261.46	+261.46	+261.46

11-09-06 AT 11:38  
 -90°07'13"



**BFS**  
Butler Fairman Seuffert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN 46240  
317 713-4815  
FAX 317 713-4816

509 WEST 84TH DRIVE, SUITE G  
MERRILLVILLE, IN 46410  
317 769-3333  
FAX 219 769-2377

RECOMMENDED FOR APPROVAL: *Matthew Danube* 11/10/06  
DESIGN ENGINEER DATE

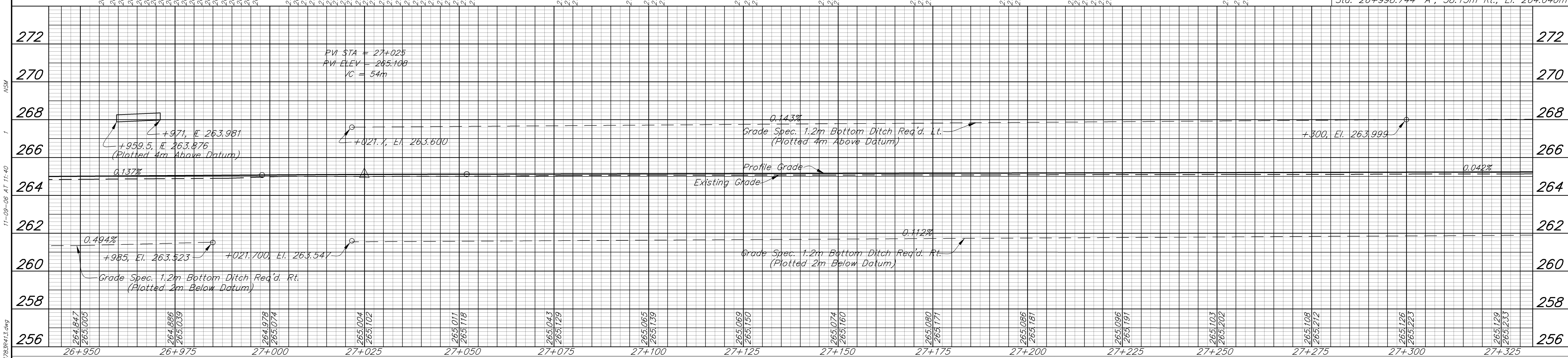
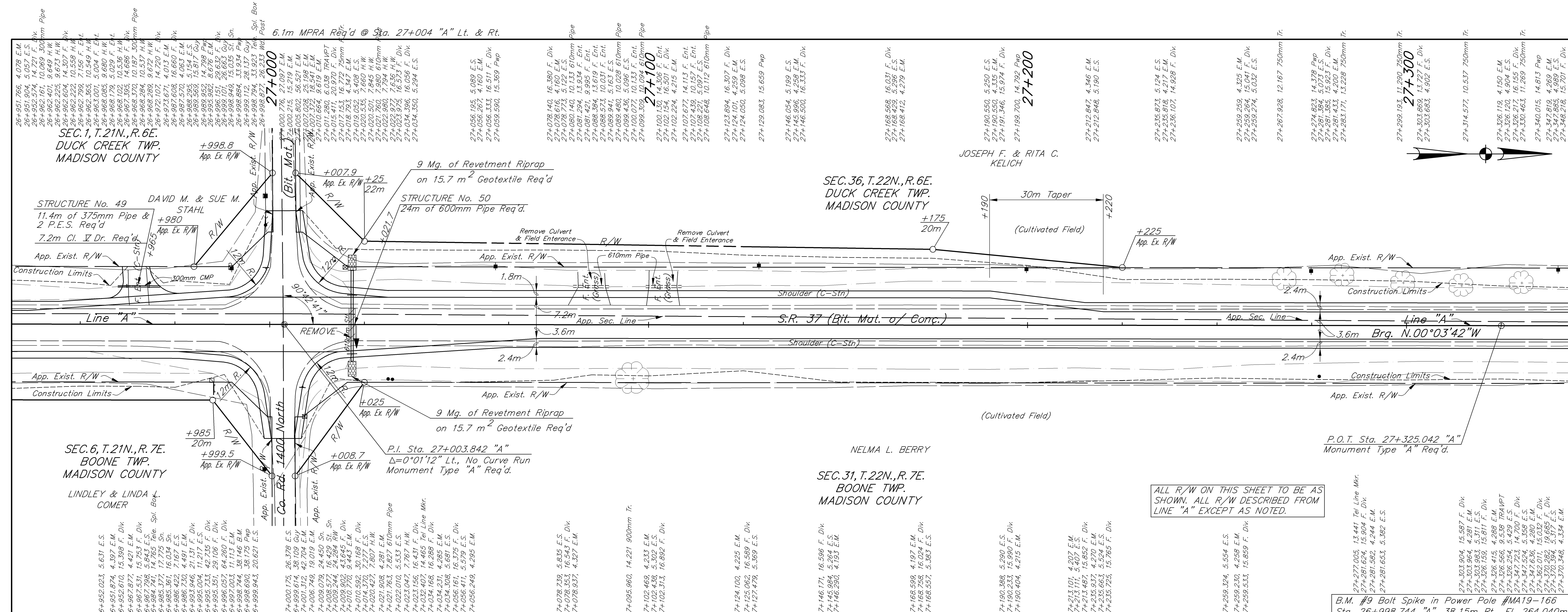
DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 24 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)



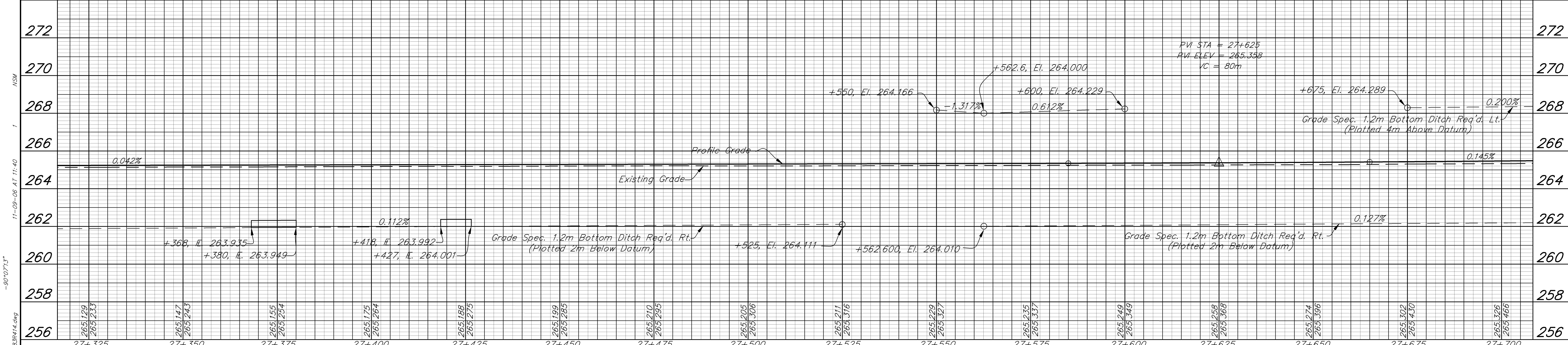
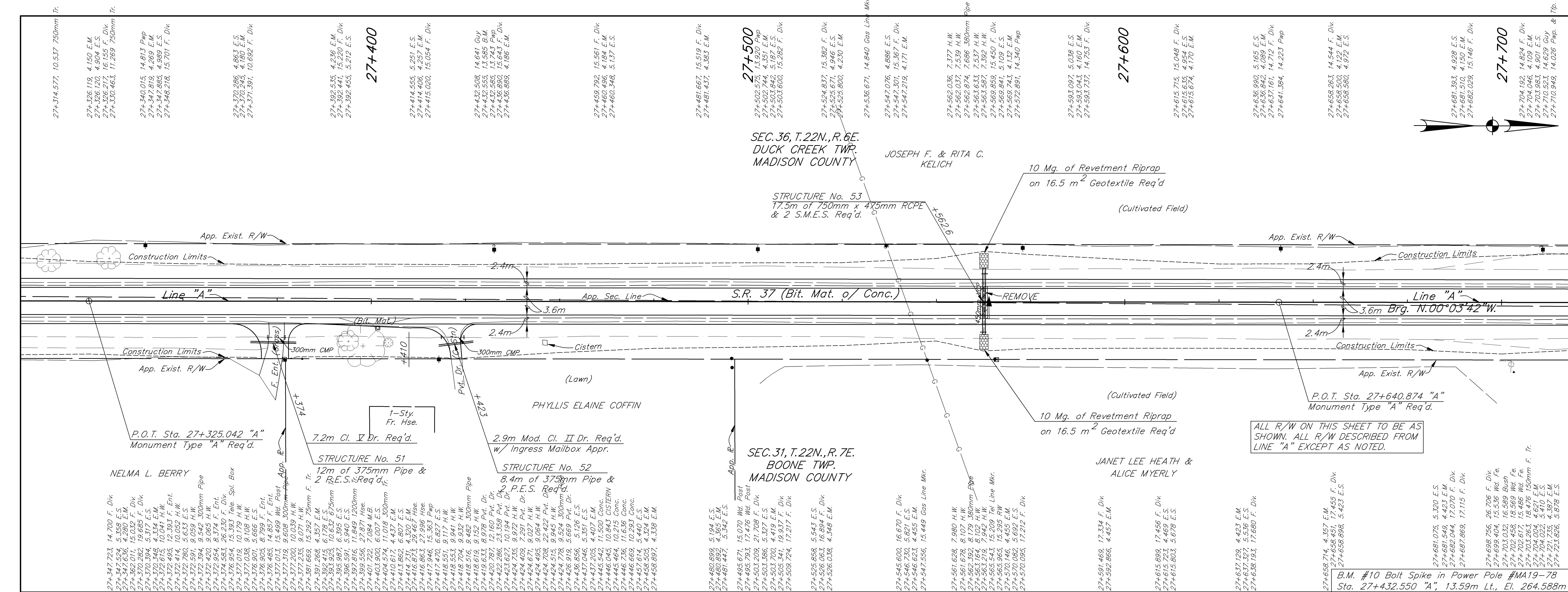


<p>Mag "Find" in PWP</p> <p>CM S. U.S. 37</p> <p>1/8" = 50'</p> <p>P.I. Sta. 27+003.842 "A" BOAT SPIKE (SET)</p>	<p>610mm TREE</p> <p>LINE "A"</p> <p>P.O.T. Sta. 27+325.042 "A" BOAT SPIKE (SET)</p>	<p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4515 FAX 317 713-4516</p> <p>509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377</p>		<p>RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE</p> <p>DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>HORIZONTAL SCALE</td> <td>FILE</td> </tr> <tr> <td>1:500</td> <td>3783</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>DESIGNATION</td> </tr> <tr> <td>1:100</td> <td>9706580</td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEET</td> </tr> <tr> <td></td> <td>25 OF 292</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>R-28934</td> <td>STP/097-9(005)</td> </tr> </table>	HORIZONTAL SCALE	FILE	1:500	3783	VERTICAL SCALE	DESIGNATION	1:100	9706580	SURVEY BOOK	SHEET		25 OF 292	CONTRACT	PROJECT	R-28934	STP/097-9(005)
HORIZONTAL SCALE	FILE																					
1:500	3783																					
VERTICAL SCALE	DESIGNATION																					
1:100	9706580																					
SURVEY BOOK	SHEET																					
	25 OF 292																					
CONTRACT	PROJECT																					
R-28934	STP/097-9(005)																					

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

B.M. #9 Bolt Spike in Power Pole #MA19-166 Sta. 26+998.744 "A", 38.15m Rt., El. 264.040m

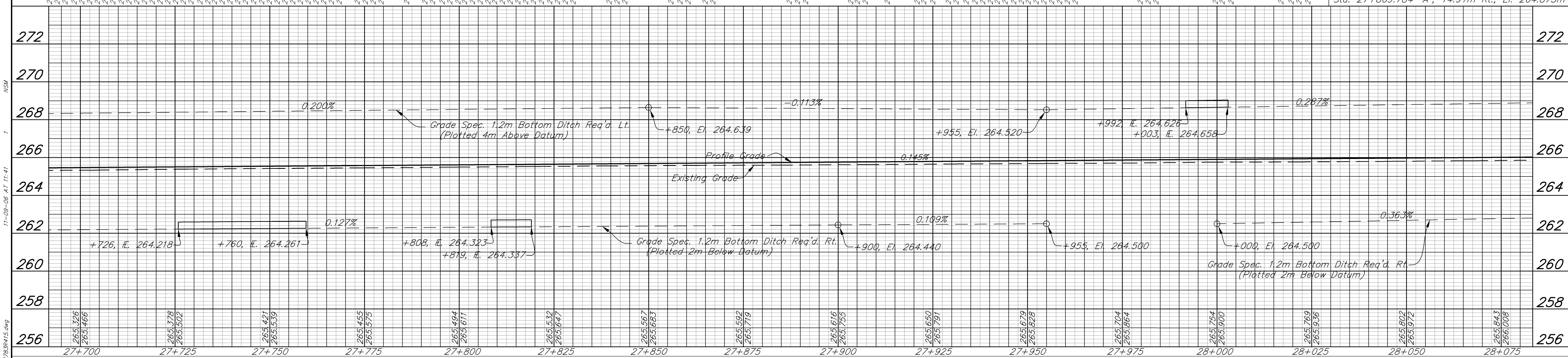
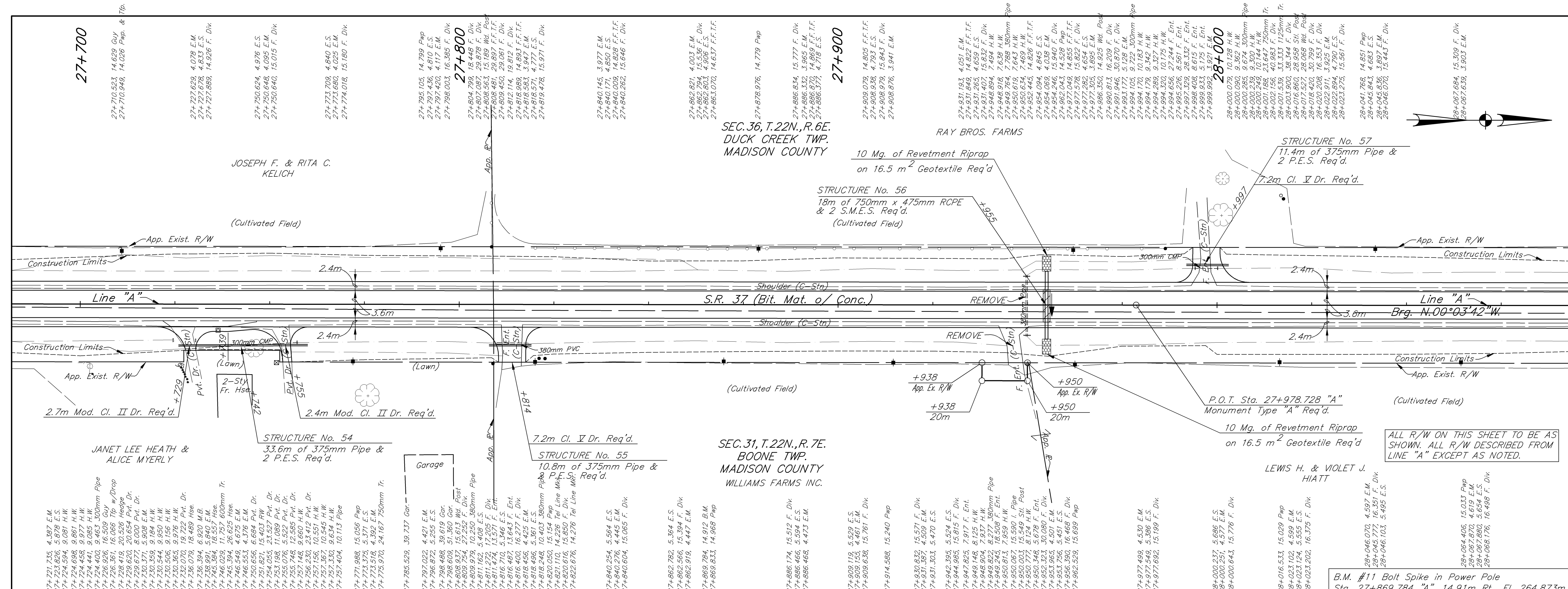
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	<b>INDIANA DEPARTMENT OF TRANSPORTATION</b> <b>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</b>	HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100 SURVEY BOOK _____ SHEET _____ CONTRACT R-28934 PROJECT STP/097-9(005)	FILE 3783 DESIGNATION 9706580 SHEET 292 PROJECT STP/097-9(005)
		RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE DESIGNED: _____ J.B. _____ G.N. _____ DRAWN: _____ CHECKED: _____ B.Z. _____ J.B. _____	REGISTERED PROFESSIONAL ENGINEER No. PE10302038 STATE OF INDIANA BUTLER FAIRMAN SEUFERT CIVIL ENGINEERS 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN 46410 317-713-4816 219-769-2333 FAX 317-713-4516 FAX 219-769-2377

F:\17281\AUTOCAD\ROAD\17281R414.dwg  
 11-09-06 AT 11:40  
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 NSM





27+700	27+725	27+750	27+775	27+800	27+825	27+850	27+875	27+900	27+925	27+950	27+975	28+000	28+025	28+050	28+075
265.326	265.466	265.328	265.502	265.421	265.539	265.455	265.575	265.492	265.610	265.791	265.679	265.828	265.704	265.864	265.754
265.326	265.466	265.328	265.502	265.421	265.539	265.455	265.575	265.492	265.610	265.791	265.679	265.828	265.704	265.864	265.754

P.O.T. Sta. 27+978.728 "A" BOAT SPIKE (SET)

**BFS**  
Butler Fairman Seuffert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240  
317 713-4815  
FAX 317 713-4816

509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN 46410  
219 769-2333  
FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

LINE "A" STATE ROAD 37 PLAN & PROFILE

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	27 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

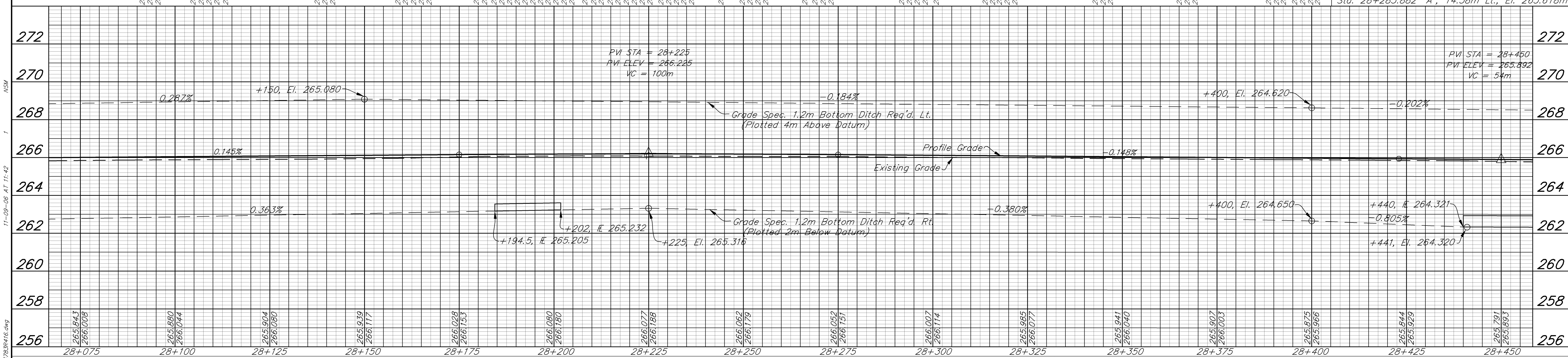
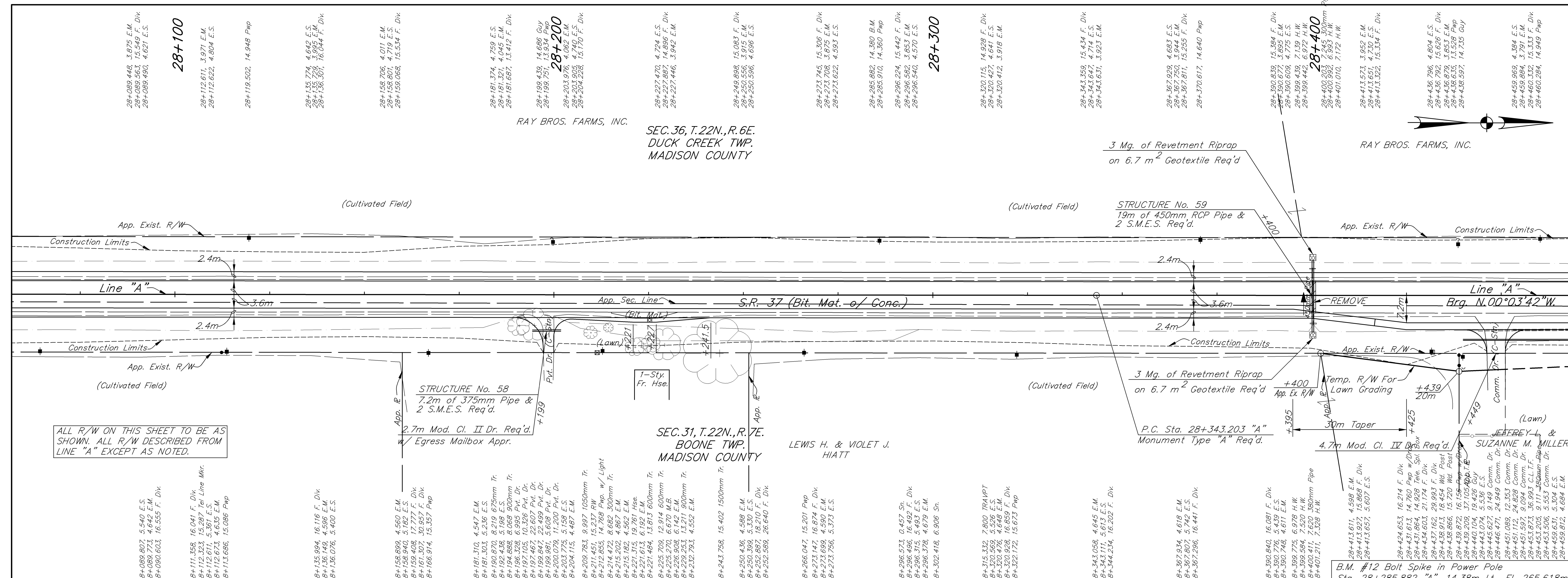
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BFS NO. 3783.07





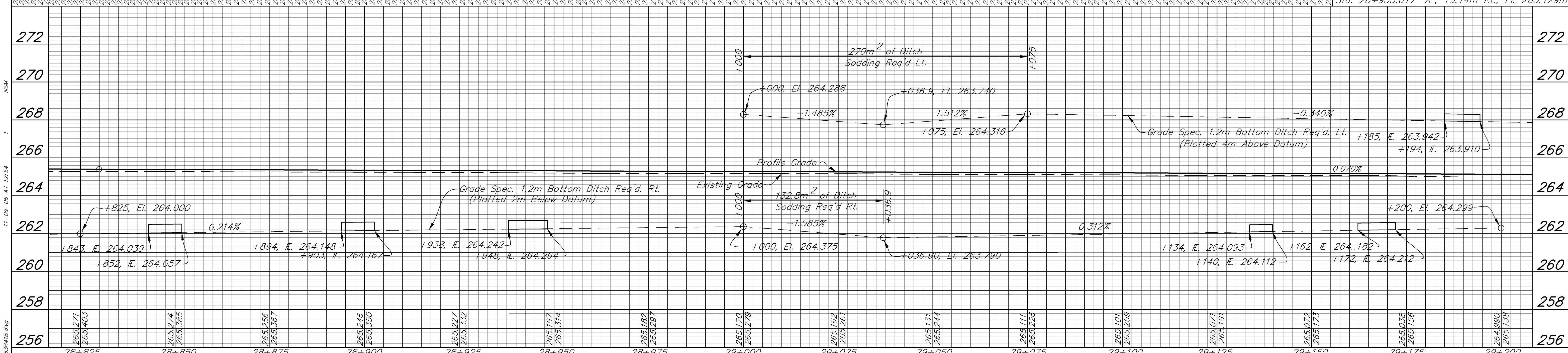
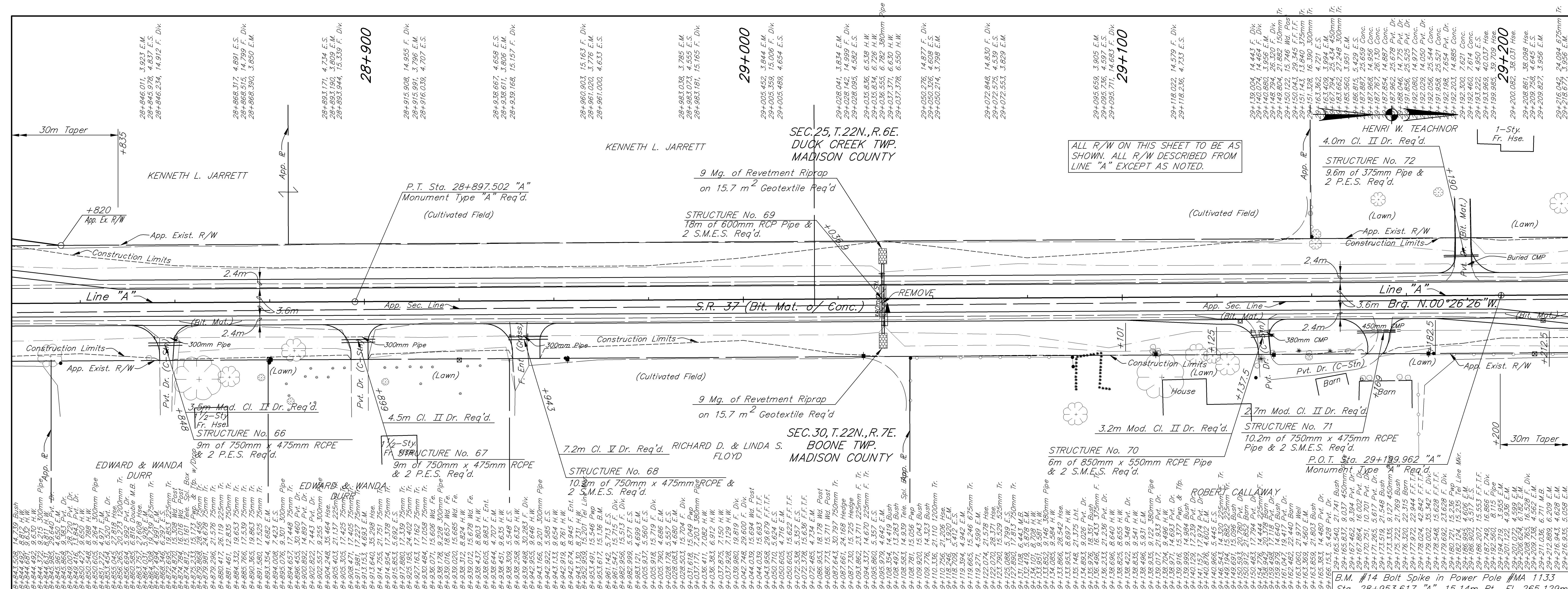
	<b>INDIANA DEPARTMENT OF TRANSPORTATION</b> <b>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</b>	HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100 SURVEY BOOK CONTRACT R-28934	FILE 3783 DESIGNATION 9706580 SHEET 292 PROJECT STP/097-9(005)
		DESIGNED: J.B. CHECKED: B.Z.	DRAWN: G.N. CHECKED: J.B.

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4815 FAX 317 713-4816

509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377







Map "Set" in E.P.

Map "Tnd" in E.P.

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

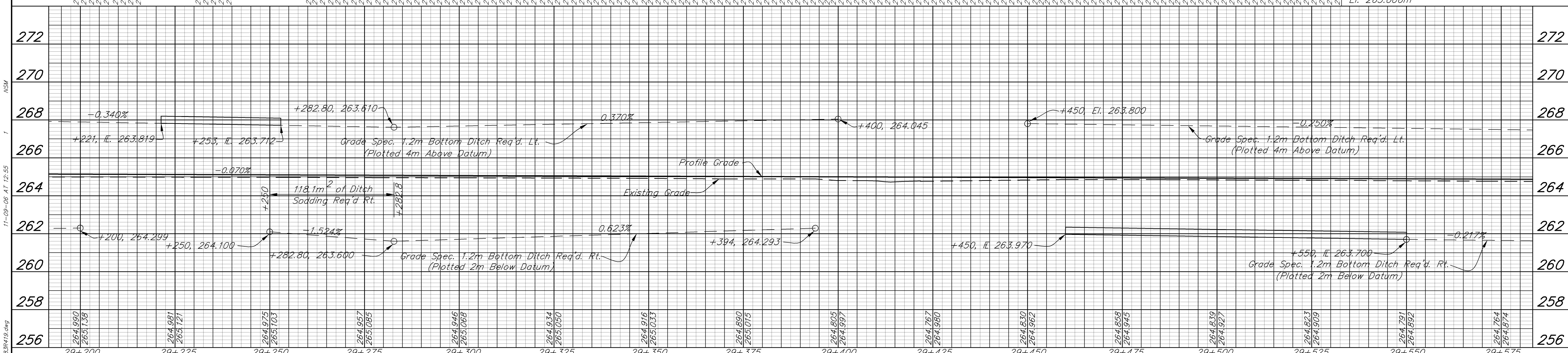
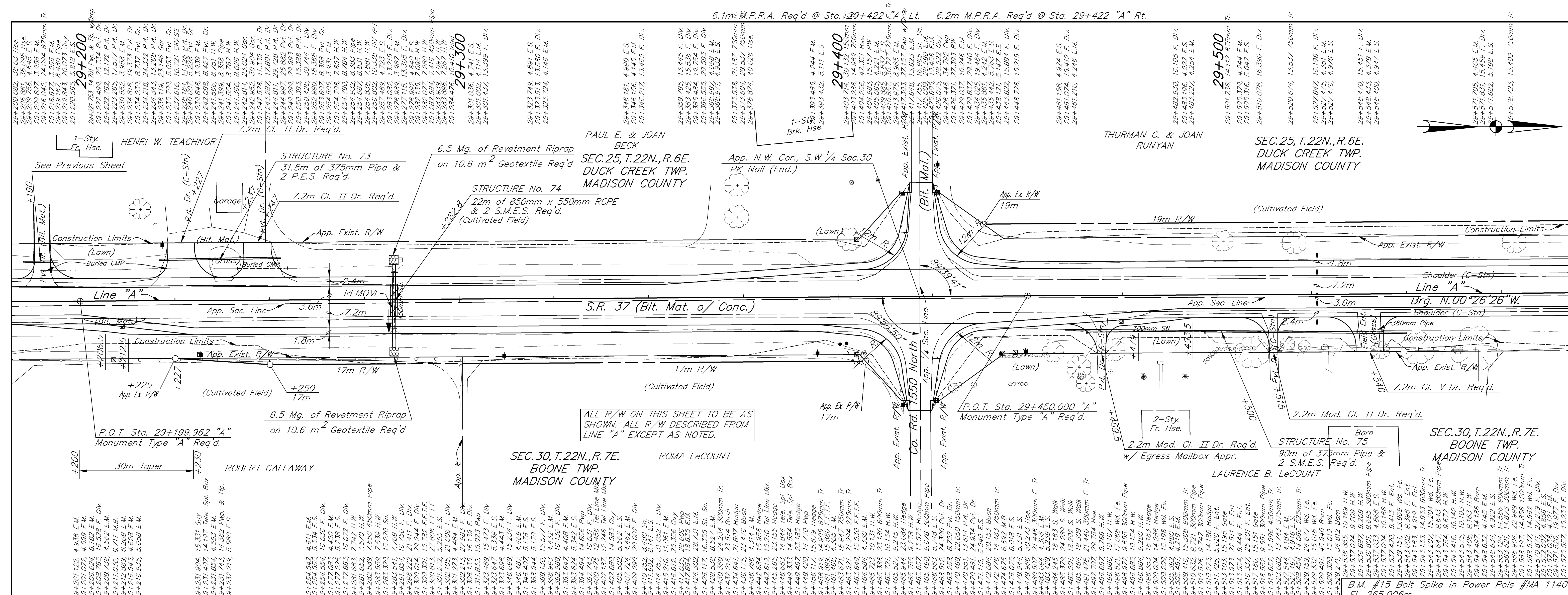
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CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	30 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

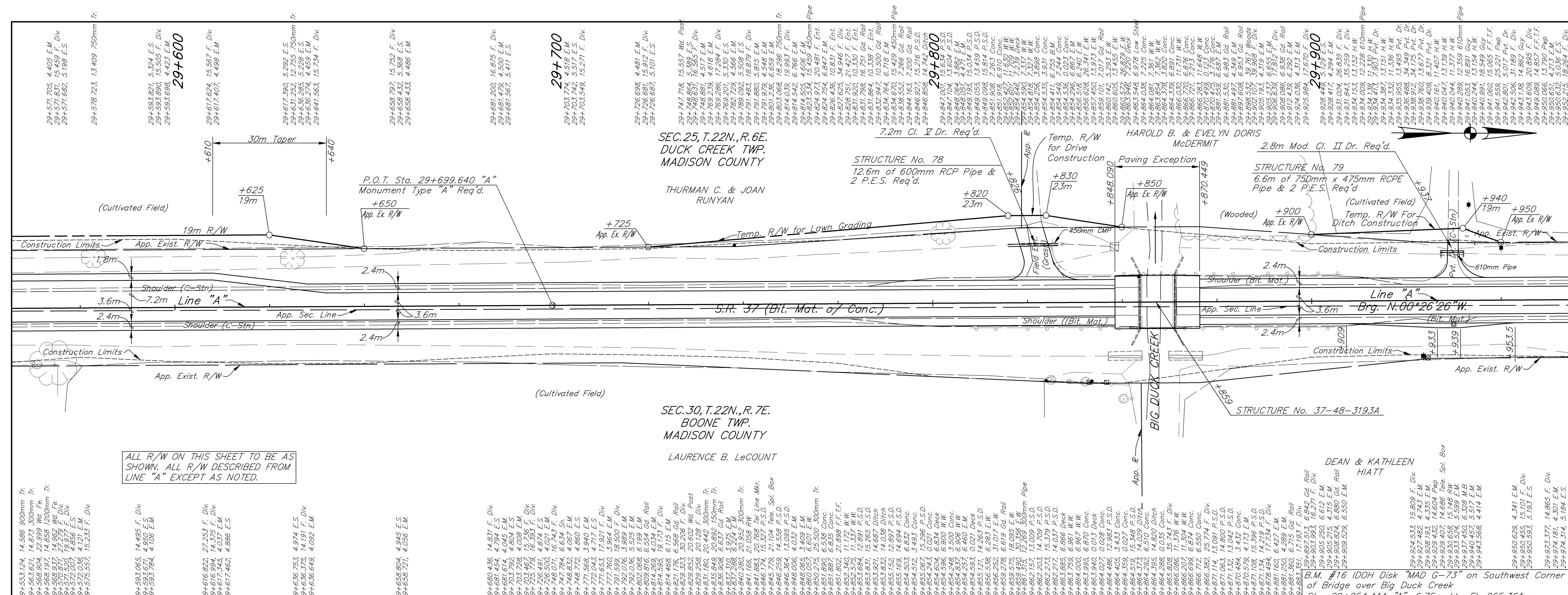




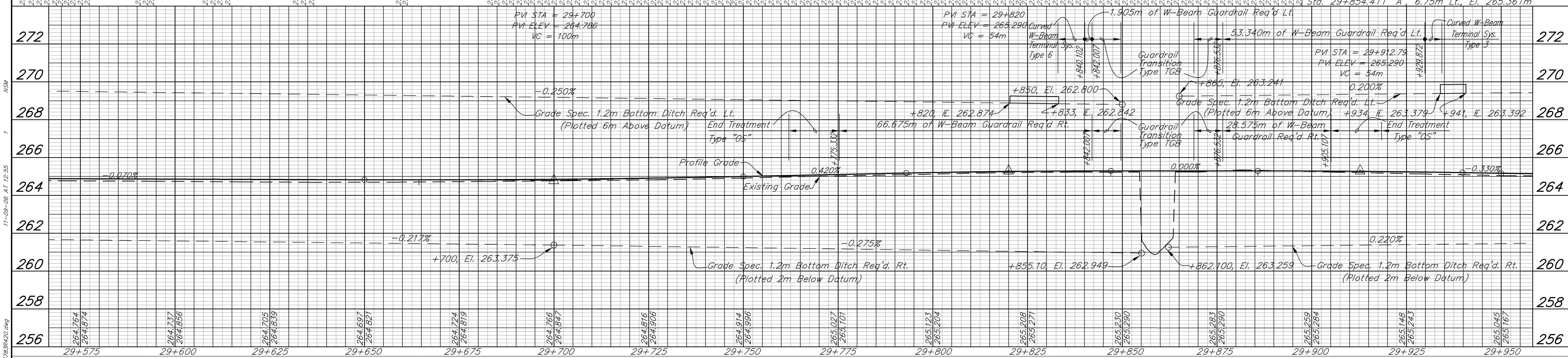
<p>Butler Fairman Seuffert CIVIL ENGINEERS</p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317 713-4816 FAX 317 713-4516</p>	<p>REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA No. PE10302038</p>	RECOMMENDED FOR APPROVAL: <i>Matthew J. Vanue</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION <b>LINE "A"</b> <b>STATE ROAD 37</b> <b>PLAN &amp; PROFILE</b>	HORIZONTAL SCALE 1:500	FILE 3783
		DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.		VERTICAL SCALE 1:100	DESIGNATION 9706580
		SURVEY BOOK R-28934	SHEET 31 OF 292	CONTRACT R-28934	PROJECT STP/097-9(005)

11-09-06 AT 12:55  
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BFS No. 3783.07



ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



	<p><b>INDIANA DEPARTMENT OF TRANSPORTATION</b></p> <p><b>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</b></p>	<p>HORIZONTAL SCALE: 1:500 VERTICAL SCALE: 1:100</p> <p>SURVEY BOOK: 32 SHEET: 292</p> <p>CONTRACT: R-28934 PROJECT: STP/097-9(005)</p>	<p>FILE: 3783 DESIGNATION: 9706580</p> <p>SHEET: 292 PROJECT: STP/097-9(005)</p>
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**RECOMMENDED FOR APPROVAL:** *Matthew J. Vanuys* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

**INDIANA DEPARTMENT OF TRANSPORTATION**

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA

**INDIANA DEPARTMENT OF TRANSPORTATION**

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA

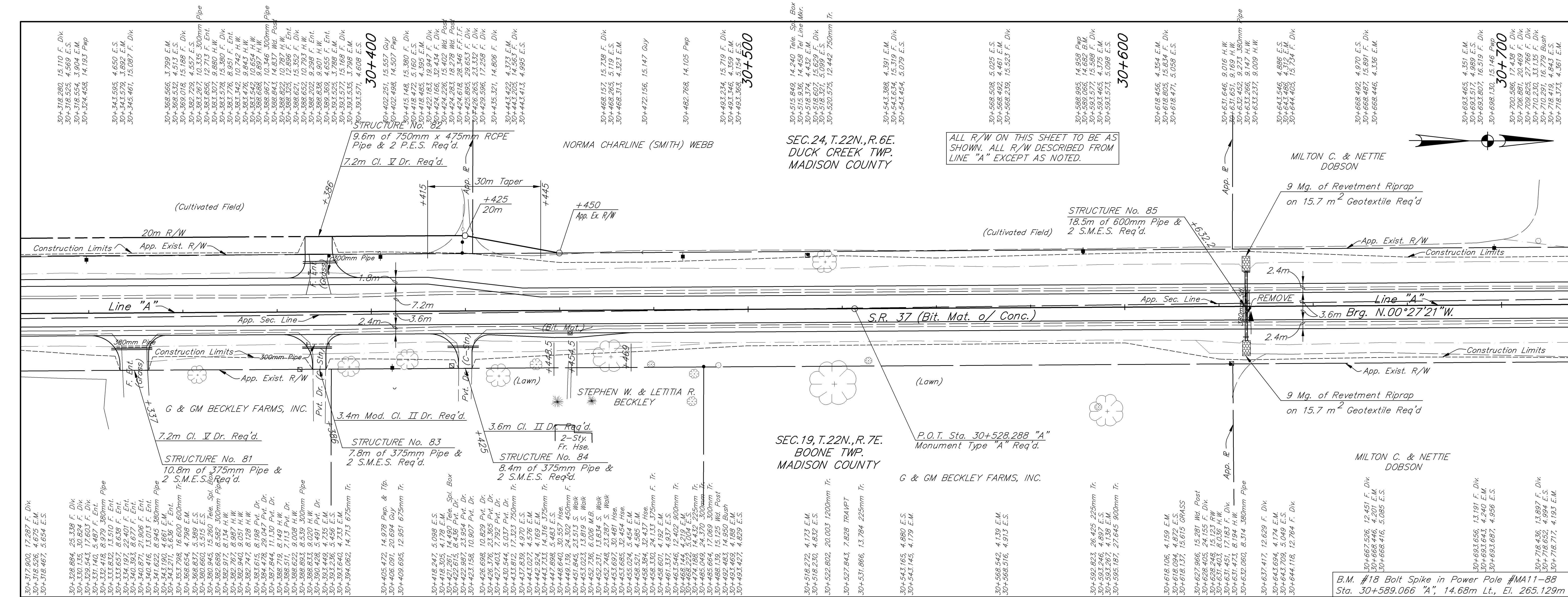
48450 WESTFIELD BLVD., SUITE 300    509 WEST BATH DRIVE, SUITE G  
INDIANAPOLIS, IN 46240    MERRILLVILLE, IN 46410  
317-713-4815    219-769-2333  
FAX 317-713-4816    FAX 219-769-2377

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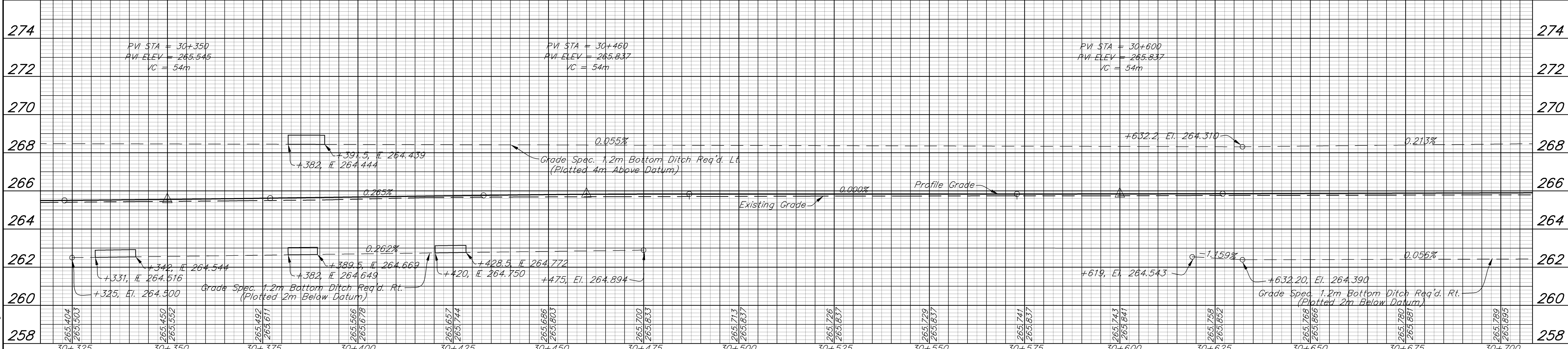




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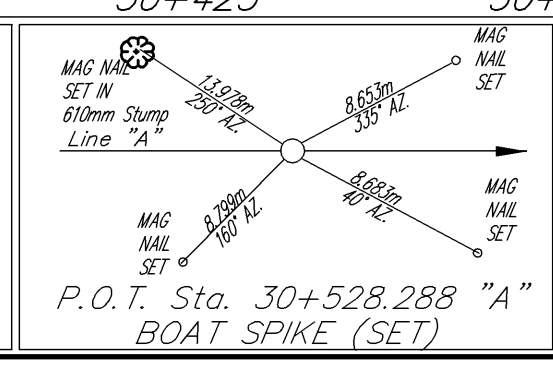
SEC. 24, T. 22N., R. 6E. DUCK CREEK TWP. MADISON COUNTY

SEC. 19, T. 22N., R. 7E. BOONE TWP. MADISON COUNTY



	HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100 SURVEY BOOK 34 CONTRACT R-28934	FILE 3783 DESIGNATION 9706580 SHEET [OF] 292 PROJECT STP/097-9(005)

11-09-06 AT 12:57  
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8450 WESTFIELD BLVD., SUITE 300  
 INDIANAPOLIS, IN 46240  
 317-713-4816  
 FAX 317-713-4816

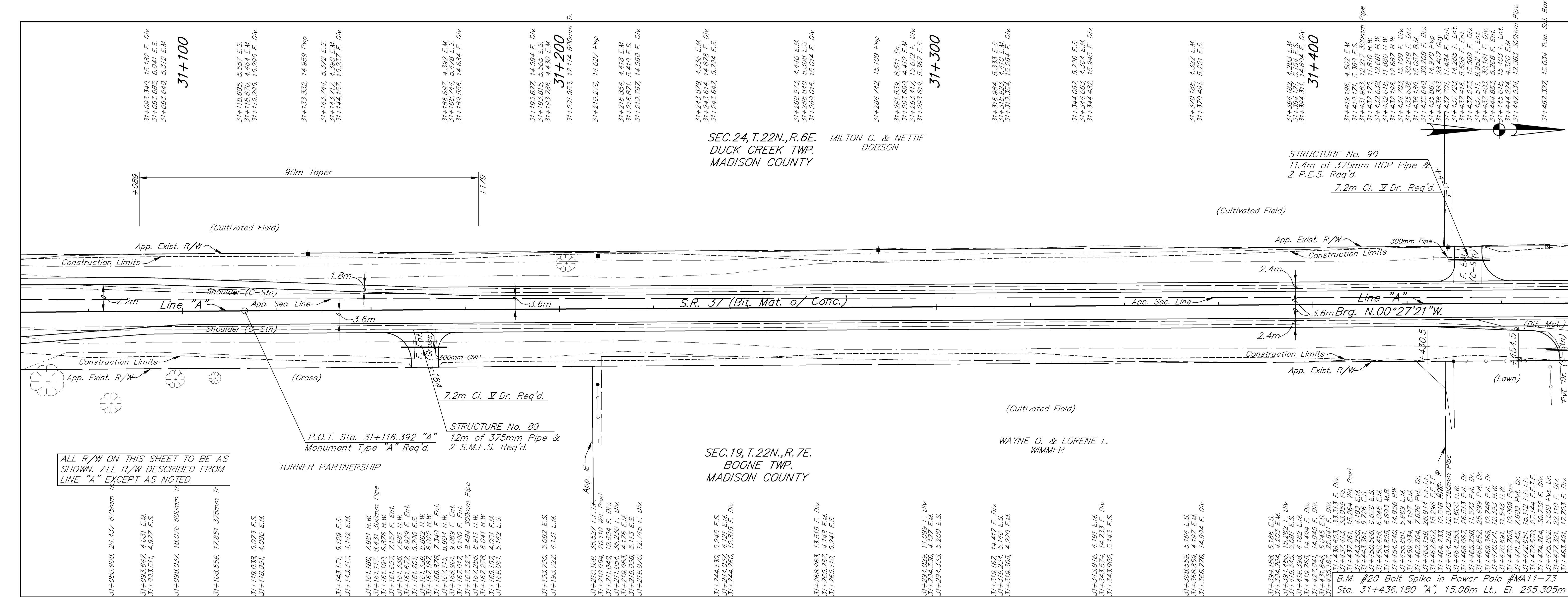
REGISTERED PROFESSIONAL ENGINEER  
 STATE OF INDIANA  
 No. PE10302038

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: J.B. DRAWN: G.N.  
 CHECKED: B.Z. CHECKED: J.B.

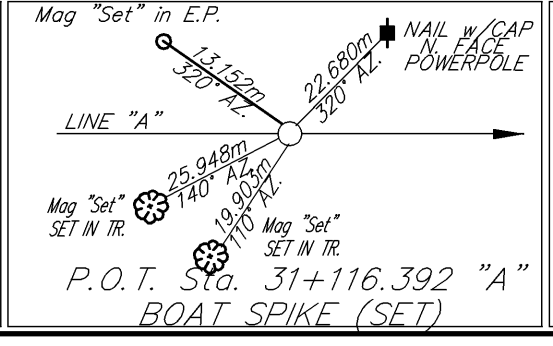
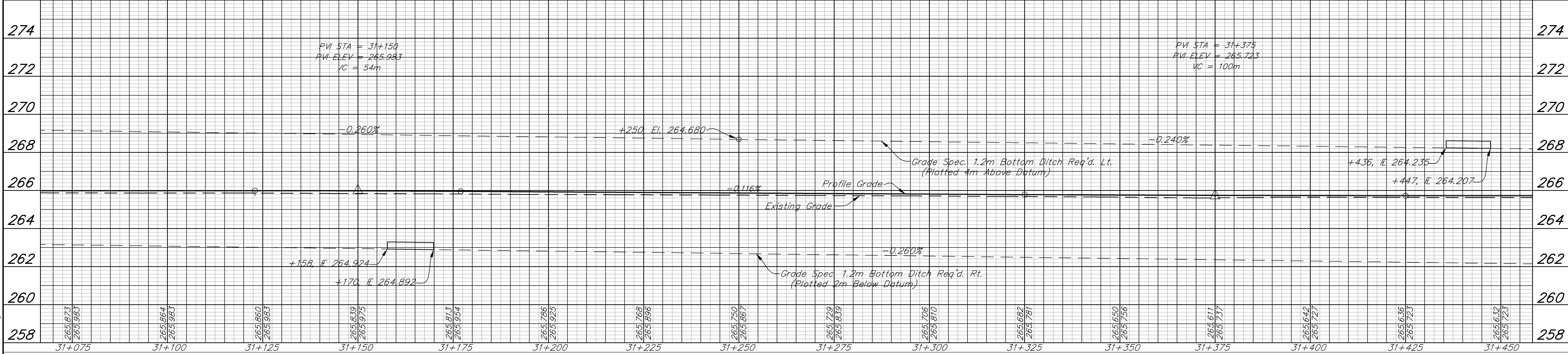
BFS NO. 3783.07







ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



**BF&S**  
Butler Fairman Seuffert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN 46240  
317 713-4816  
FAX 317 713-4816

REGISTERED PROFESSIONAL ENGINEER  
STATE OF INDIANA  
No. PE10302038  
MATTHEW S. LARSEN

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION  
LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

HORIZONTAL SCALE	1:500	FILE	3783
VERTICAL SCALE	1:100	DESIGNATION	9706580
SURVEY BOOK		SHEET	36 OF 292
CONTRACT	R-28934	PROJECT	STP/097-9(005)

-90°07'13"  
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 11-09-06 AT 13.03  
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BFS NO. 3783.07





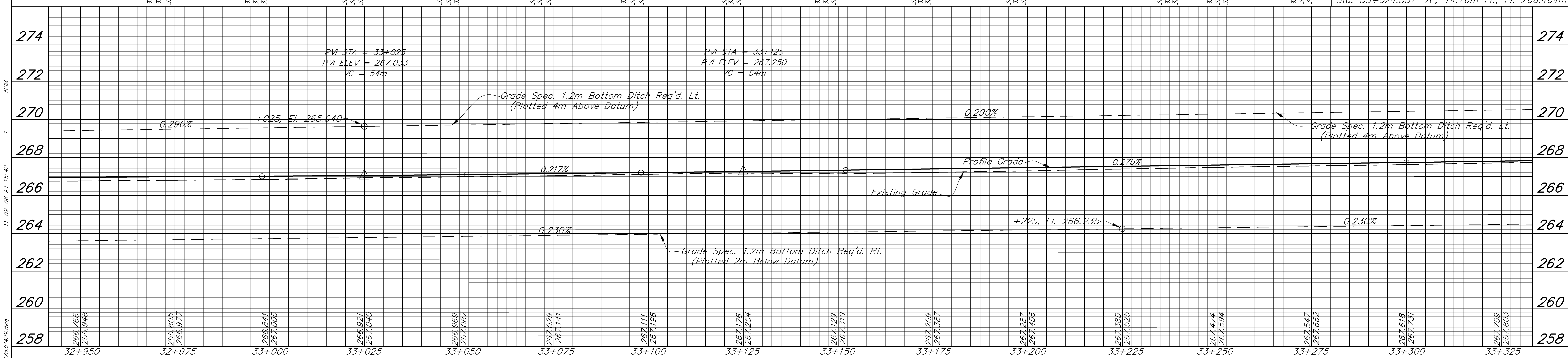
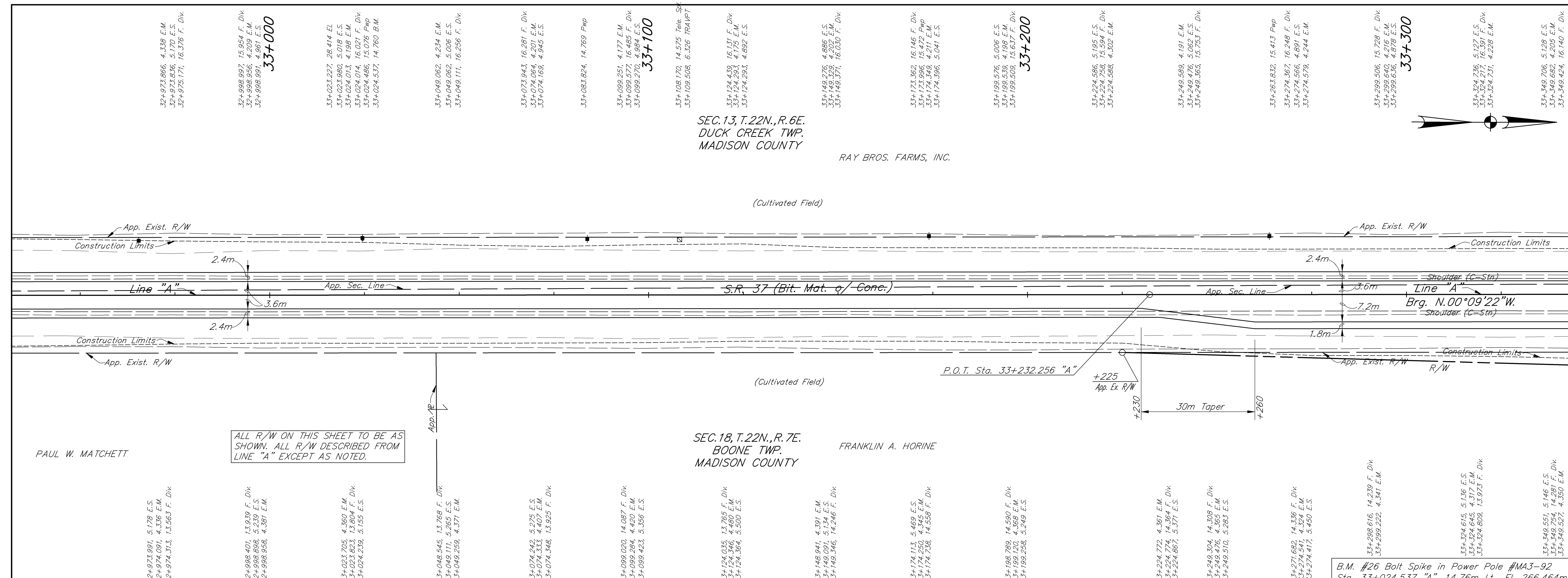
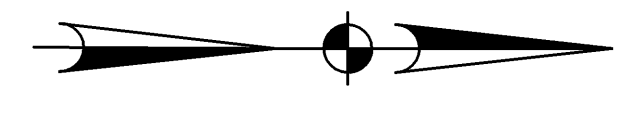












<p>11-09-06 AT 15:42</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">-90°07'13"</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">F:\172831\AUTOCAD\ROAD\172831R428.dwg</p>	<p>Butler Fairman Seuffert CIVIL ENGINEERS</p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317 713-4515 FAX 317 713-4516</p> <p>509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN 46410 219 769-2333 FAX 219 769-2377</p>		<p>RECOMMENDED FOR APPROVAL: <i>Matthew S. Larrabee</i> 11/10/06 DESIGN ENGINEER DATE</p> <p>DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p><b>LINE "A"</b> <b>STATE ROAD 37</b> <b>PLAN &amp; PROFILE</b></p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>HORIZONTAL SCALE</td> <td>FILE</td> </tr> <tr> <td>1:500</td> <td>3783</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>DESIGNATION</td> </tr> <tr> <td>1:100</td> <td>9706580</td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEET</td> </tr> <tr> <td></td> <td>41 OF 292</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>R-28934</td> <td>STP/097-9(005)</td> </tr> </table>	HORIZONTAL SCALE	FILE	1:500	3783	VERTICAL SCALE	DESIGNATION	1:100	9706580	SURVEY BOOK	SHEET		41 OF 292	CONTRACT	PROJECT	R-28934	STP/097-9(005)
HORIZONTAL SCALE	FILE																				
1:500	3783																				
VERTICAL SCALE	DESIGNATION																				
1:100	9706580																				
SURVEY BOOK	SHEET																				
	41 OF 292																				
CONTRACT	PROJECT																				
R-28934	STP/097-9(005)																				

PAUL W. MATCHETT

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

SEC. 18, T. 22N., R. 7E.  
BOONE TWP.  
MADISON COUNTY

FRANKLIN A. HORINE

RAY BROS. FARMS, INC.

(Cultivated Field)

(Cultivated Field)

B.M. #26 Bolt Spike in Power Pole #MA3-92  
Sta. 33+024.537 "A", 14.76m Lt., El. 266.464m

32+973.866, 4.328 E.M.  
32+973.658, 5.170 E.S.  
32+973.171, 16.076 F. Dik

33+000

32+998.997, 15.954 F. Dik  
32+998.956, 4.209 E.M.  
32+998.991, 4.961 E.S.

33+023.227, 28.414 EL  
33+023.980, 5.018 E.S.  
33+024.013, 4.198 E.M.  
33+024.014, 16.021 F. Dik  
33+024.486, 15.076 PWP  
33+024.537, 14.760 B.M.

33+049.062, 4.234 E.M.  
33+049.062, 5.006 E.S.  
33+049.111, 16.256 F. Dik

33+073.943, 16.281 F. Dik  
33+074.064, 4.201 E.M.  
33+074.169, 4.945 E.S.

33+083.824, 14.769 PWP

33+099.251, 4.177 E.M.  
33+099.577, 16.465 F. Dik  
33+099.270, 16.044 E.S.

33+100

33+108.170, 14.575 Tele. SH Box  
33+109.508, 6.326 TRAMPT

33+124.393, 16.175 F. Dik  
33+124.393, 16.175 E.M.  
33+124.393, 4.892 E.S.

33+149.276, 4.886 E.S.  
33+149.329, 4.202 E.M.  
33+149.371, 16.030 F. Dik

33+173.362, 16.146 F. Dik  
33+173.986, 15.472 PWP  
33+174.383, 4.383 E.M.  
33+174.386, 5.041 E.S.

33+199.576, 5.006 E.S.  
33+199.539, 4.199 E.M.  
33+199.509, 15.637 F. Dik

33+200

33+224.566, 5.195 E.S.  
33+224.566, 15.374 F. Dik  
33+224.568, 4.302 E.M.

33+249.589, 4.191 E.M.  
33+249.476, 5.062 E.S.  
33+249.365, 15.753 F. Dik

33+263.832, 15.413 PWP  
33+274.367, 16.248 F. Dik  
33+274.566, 4.891 E.S.  
33+274.579, 4.244 E.M.

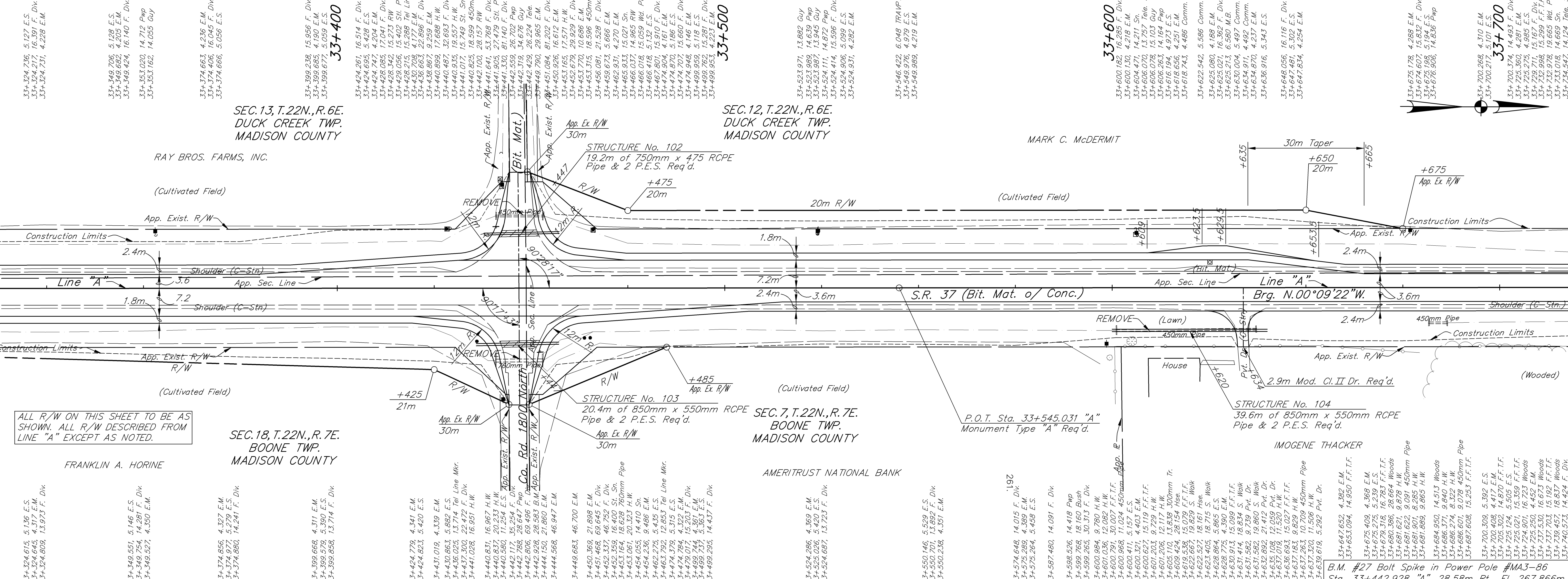
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33+299.640, 4.216 E.M.  
33+299.609, 4.978 E.S.

33+300

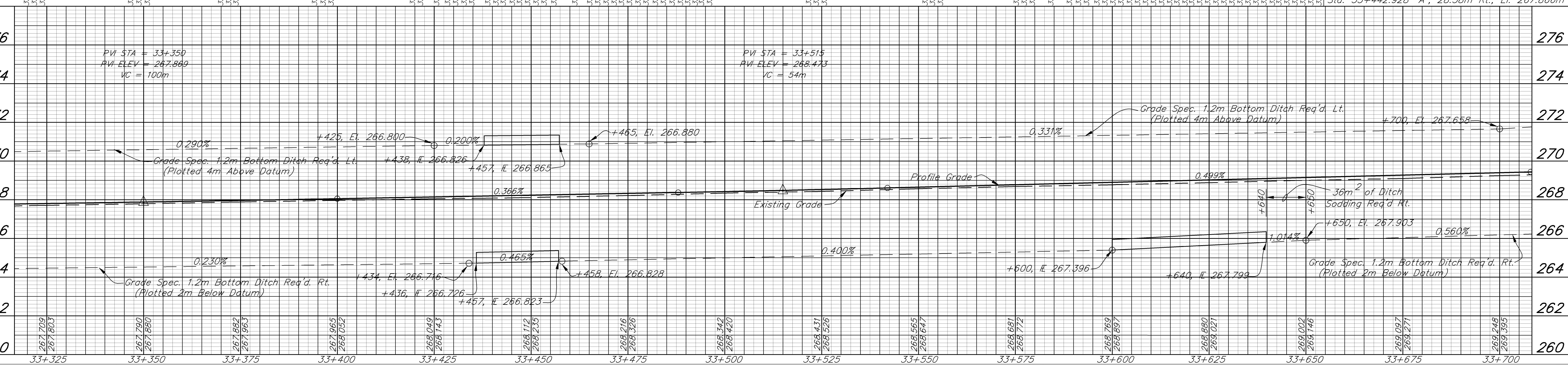
33+324.736, 5.197 F.S.  
33+324.217, 16.391 F. Dik  
33+324.731, 4.228 E.M.

33+349.706, 5.128 E.S.  
33+349.682, 4.205 E.M.  
33+349.424, 16.140 F. Dik

5.4m M.P.R.A. Req'd @ Sta. 33+447 "A" Lt. 5.2m M.P.R.A. Req'd @ Sta. 33+447 "A" Rt.



ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

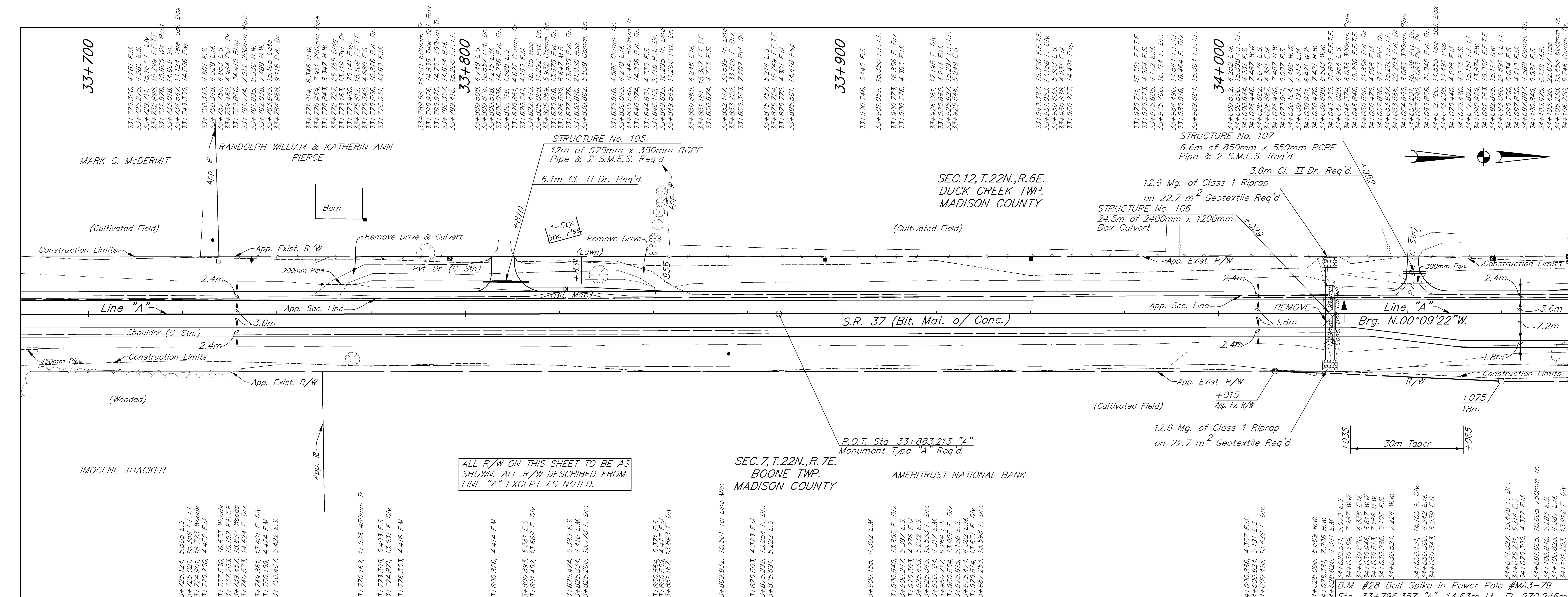


<p>Butler Fairman Seuffert CIVIL ENGINEERS</p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317 713-4815 FAX 317 713-4816</p>		RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION  <b>LINE "A"</b> <b>STATE ROAD 37</b> <b>PLAN &amp; PROFILE</b>	HORIZONTAL SCALE 1:500	FILE 3783
		DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.		VERTICAL SCALE 1:100	DESIGNATION 9706580
				SURVEY BOOK	SHEET 42 OF 292
				CONTRACT R-28934	PROJECT STP/097-9(005)

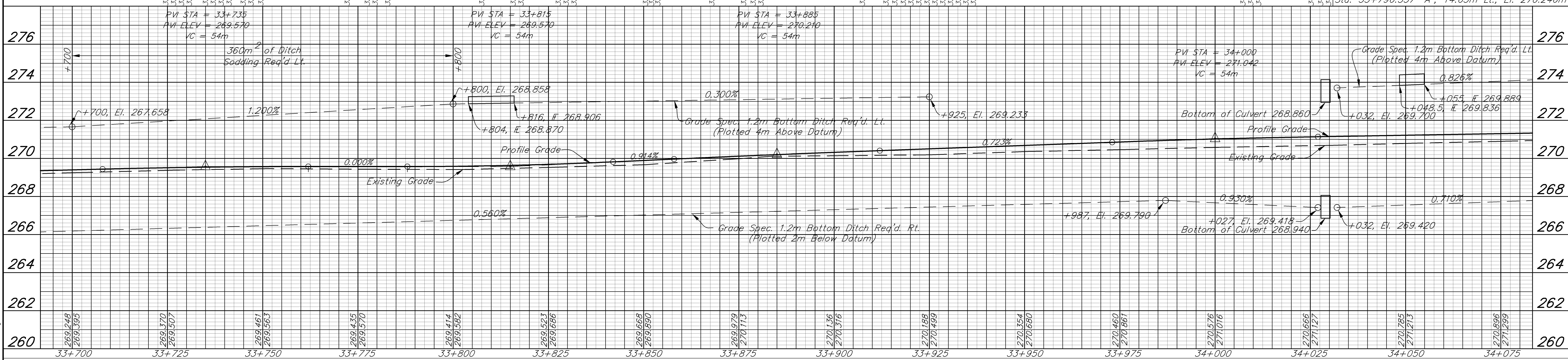
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BFS NO. 3783.07





ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



	<p>SEC. 12, T. 22N., R. 6E. DUCK CREEK TWP. MADISON COUNTY</p>	<p>SEC. 7, T. 22N., R. 7E. BOONE TWP. MADISON COUNTY</p>	<p>AMERITRUST NATIONAL BANK</p>
<p>MARK C. McDERMITT</p>	<p>RANDOLPH WILLIAM &amp; KATHERIN ANN PIERCE</p>	<p>IMOGENE THACKER</p>	<p>AMERITRUST NATIONAL BANK</p>

RECOMMENDED FOR APPROVAL: *Matthew J. Vanue* 11/10/06  
DESIGN ENGINEER DATE

INDIANA DEPARTMENT OF TRANSPORTATION

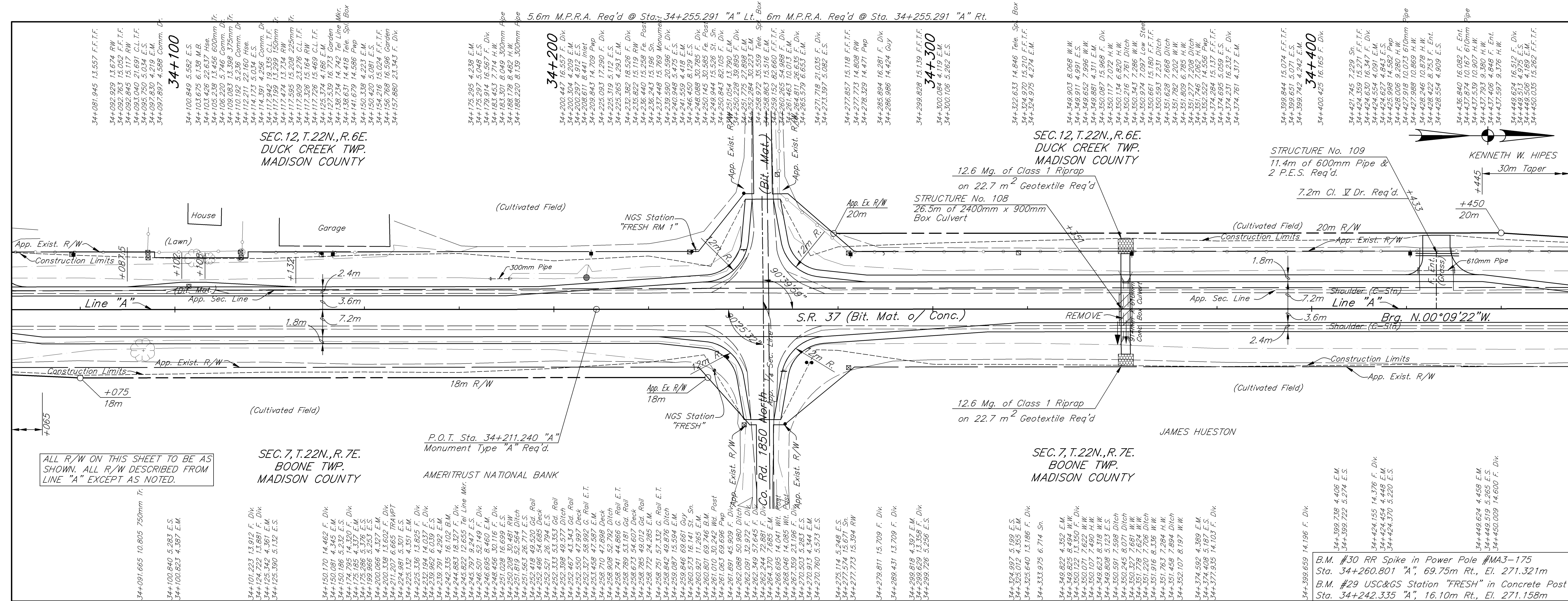
**LINE "A"**  
STATE ROAD 37  
PLAN & PROFILE

DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

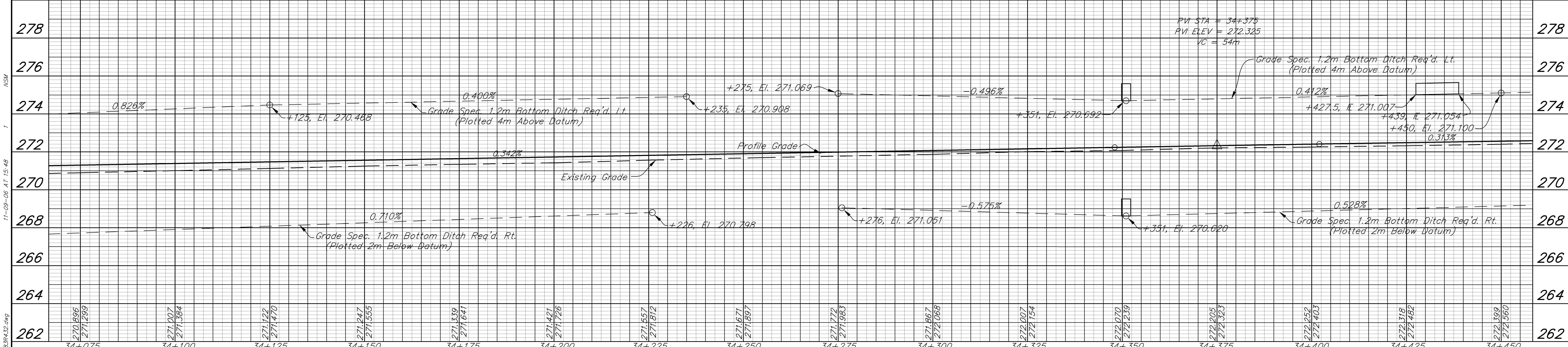
HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	43 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

8450 WESTFIELD BLVD., SUITE 300 509 WEST BATH DRIVE, SUITE G  
 INDIANAPOLIS, IN 46240 MERRILLVILLE, IN 46410  
 317 713-4815 219 769-2333  
 FAX 317 713-4816 FAX 219 769-2377

11-09-06 AT 15:44  
 -90°07'13"  
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ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

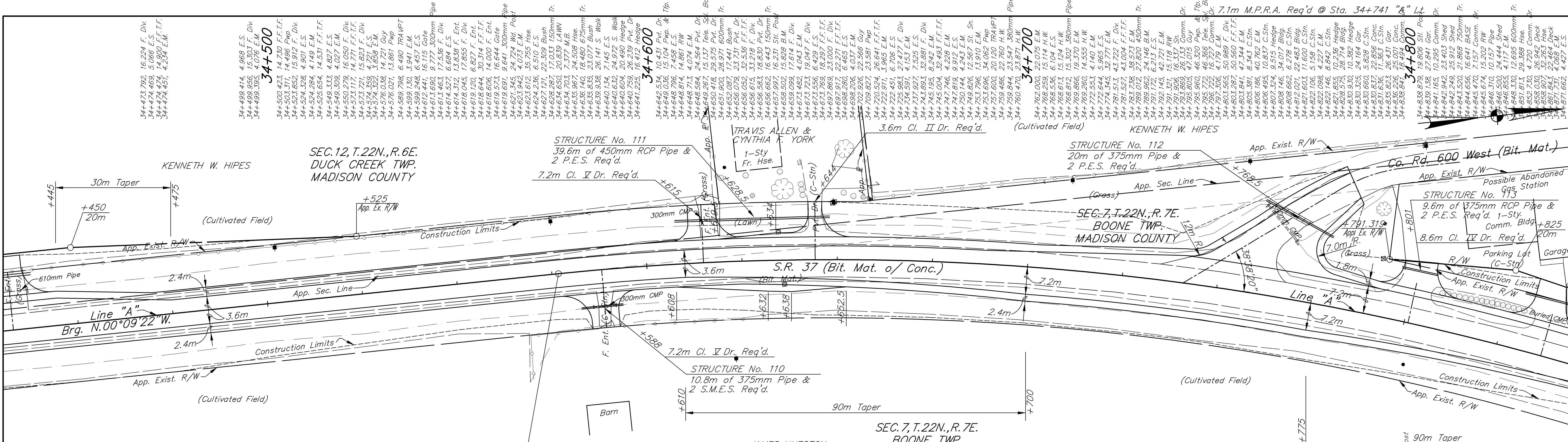


<p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317-713-4515 FAX 317-713-4516</p> <p>509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN 46410 219-769-2333 FAX 219-769-2377</p>		<p>REGISTERED PROFESSIONAL ENGINEER No. PE10302038 STATE OF INDIANA</p>	<p>RECOMMENDED FOR APPROVAL: <i>Matthew J. Vanuys</i> 11/10/06 DESIGN ENGINEER DATE</p> <p>DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p><b>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</b></p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>HORIZONTAL SCALE</td> <td>FILE</td> </tr> <tr> <td>1:500</td> <td>3783</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>DESIGNATION</td> </tr> <tr> <td>1:100</td> <td>9706580</td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEET</td> </tr> <tr> <td></td> <td>44 [OF] 292</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>R-28934</td> <td>STP/097-9(005)</td> </tr> </table>	HORIZONTAL SCALE	FILE	1:500	3783	VERTICAL SCALE	DESIGNATION	1:100	9706580	SURVEY BOOK	SHEET		44 [OF] 292	CONTRACT	PROJECT	R-28934	STP/097-9(005)
HORIZONTAL SCALE	FILE																				
1:500	3783																				
VERTICAL SCALE	DESIGNATION																				
1:100	9706580																				
SURVEY BOOK	SHEET																				
	44 [OF] 292																				
CONTRACT	PROJECT																				
R-28934	STP/097-9(005)																				

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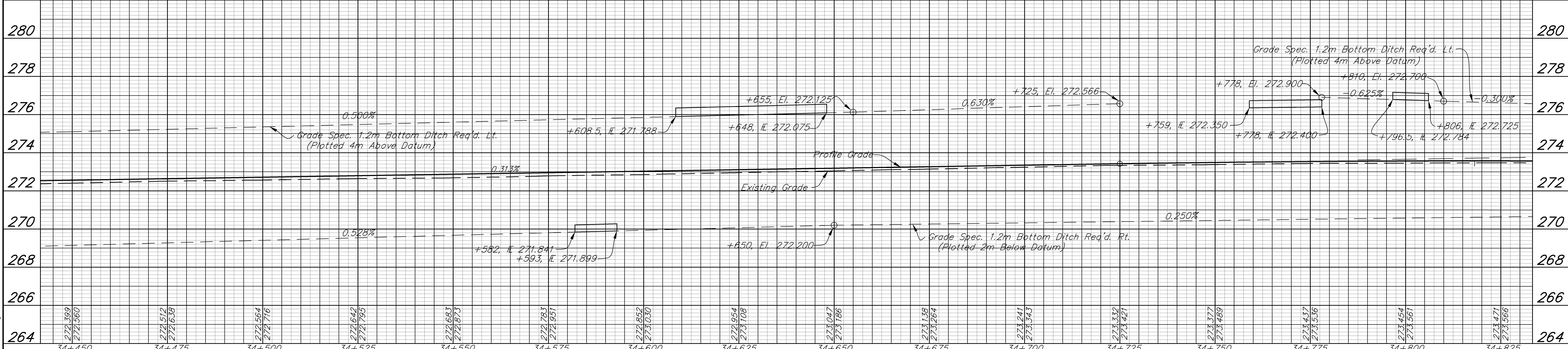
BFS NO. 3783.07





ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

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- 34+474.368, 14.074 F. Div.
- 34+474.576, 4.472 E.M.
- 34+499.305, 4.479 E.M.
- 34+499.320, 5.348 E.S.
- 34+499.308, 14.340 F. Div.
- 34+524.783, 5.404 E.S.
- 34+524.673, 4.479 E.M.
- 34+524.940, 13.761 F. Div.
- 34+549.047, 13.003 F. Div.
- 34+549.325, 4.536 E.M.
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- 34+567.802, 19.404 F.F.T.F.
- 34+567.504, 14.781 F. Div.
- 34+567.438, 26.883 F.F.T.F.
- 34+572.903, 7.112 Sh.
- 34+573.787, 5.403 E.S.
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- 34+585.093, 9.985 H.W.
- 34+584.934, 9.592 300mm Pipe
- 34+585.094, 9.143 H.W.
- 34+585.734, 15.428 Gate
- 34+586.246, 5.882 F. Div.
- 34+589.744, 9.892 F. Div.
- 34+590.283, 15.261 F.F.T.F.
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- 34+590.743, 5.695 F. Div.
- 34+591.271, 9.103 H.W.
- 34+591.289, 9.666 300mm Pipe
- 34+591.201, 10.060 H.W.
- 34+592.518, 34.973 Barn
- 34+598.810, 19.209 F.F.T.F.
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- 34+622.550, 25.441 Fmp
- 34+624.092, 5.396 E.S.
- 34+626.136, 4.333 Comm. Dr.
- 34+626.022, 4.496 E.M.
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- 34+747.637, 4.383 E.M.
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- 34+723.829, 4.444 E.M.
- 34+723.520, 13.074 F. Div.
- 34+723.368, 9.271 E.S.
- 34+796.772, 13.990 F. Div.
- 34+797.620, 4.423 E.M.
- 34+797.587, 5.633 E.S.
- 34+802.176, 10.937 Wil. Post
- 34+821.994, 12.680 F. Div.
- 34+821.639, 5.877 E.S.
- 34+821.523, 4.440 E.M.
- 34+846.934, 5.661 E.S.
- 34+846.891, 12.327 F. Div.
- 34+847.009, 4.535 E.M.



NSM  
I  
11-09-06 AT 15:49  
-84\*15'26"  
F:\17281\AUTOCAD\ROAD\17283411.dwg

LINE "A"  
CENTER  
LINE MARKER  
NAIL CAP  
TOP OF CURB  
TOP OF GATE POST

P.C. Sta. 34+576.716 "A"  
BOAT SPIKE (SET)

8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN 46240  
317 713-4815  
FAX 317 713-4516

509 WEST 84TH DRIVE, SUITE G  
MERRILLVILLE, IN 46410  
219 769-2333  
FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
STATE OF INDIANA  
No. PE10302038

RECOMMENDED FOR APPROVAL: *Matthew J. Vanlee* 11/10/06  
DESIGN ENGINEER DATE

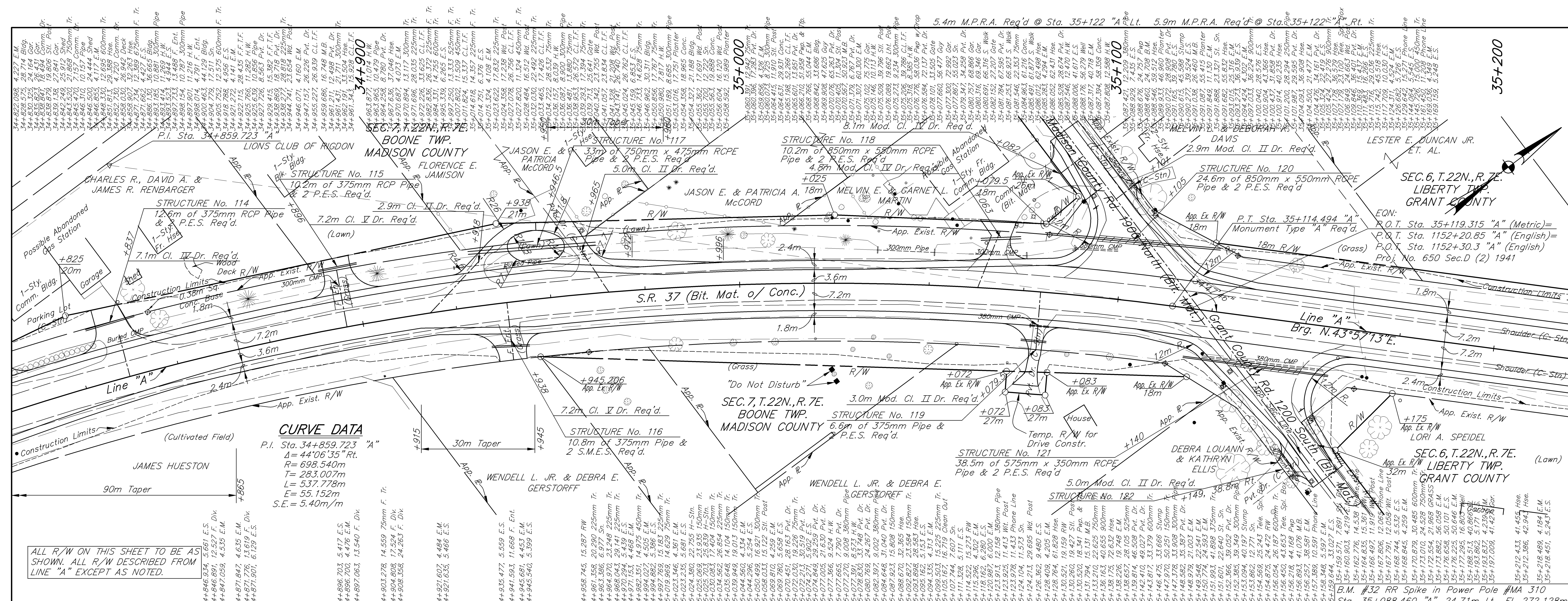
DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

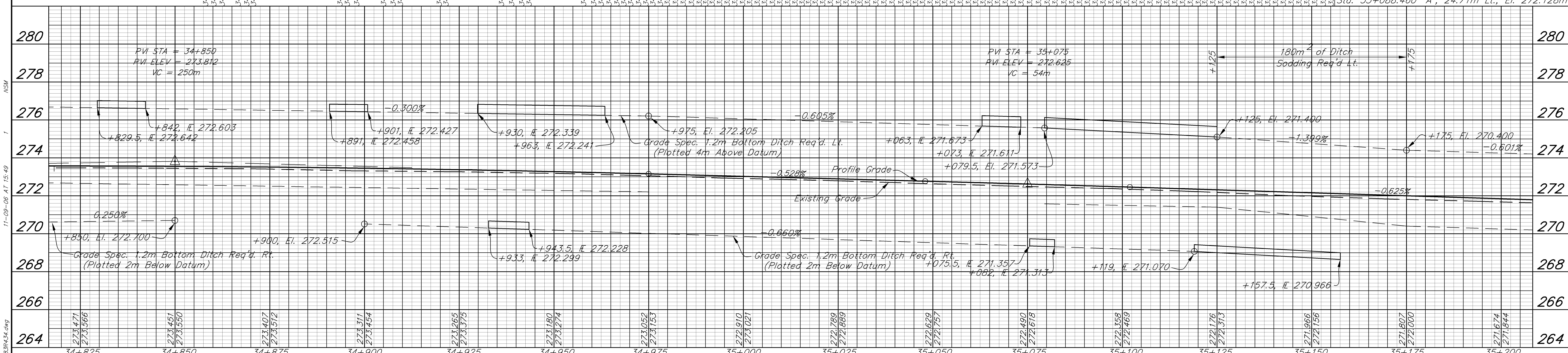
HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	45 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)





**CURVE DATA**  
P.I. Sta. 34+859.723 "A"  
 $\Delta = 44^{\circ}06'35''$  Rt.  
R = 698.540m  
T = 283.007m  
L = 537.778m  
E = 55.152m  
S.E. = 5.40m/m

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



LINE "A" PLAN VIEW

LINE "A" PROFILE VIEW

LINE "A" CROSS SECTION

**REGISTERED PROFESSIONAL ENGINEER**

Matthew J. Vanuys II

NO. PE10302038

STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Matthew J. Vanuys II* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.

CHECKED: B.Z. CHECKED: J.B.

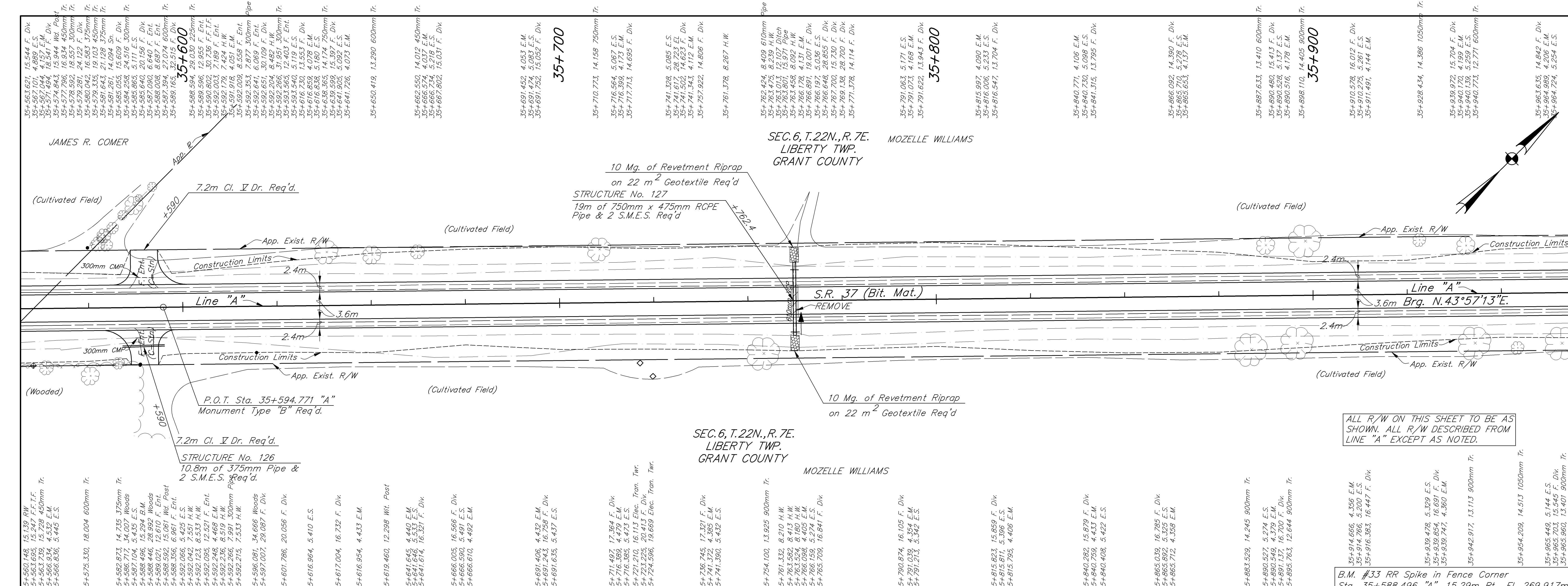
INDIANA DEPARTMENT OF TRANSPORTATION

**LINE "A" STATE ROAD 37 PLAN & PROFILE**

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	46 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

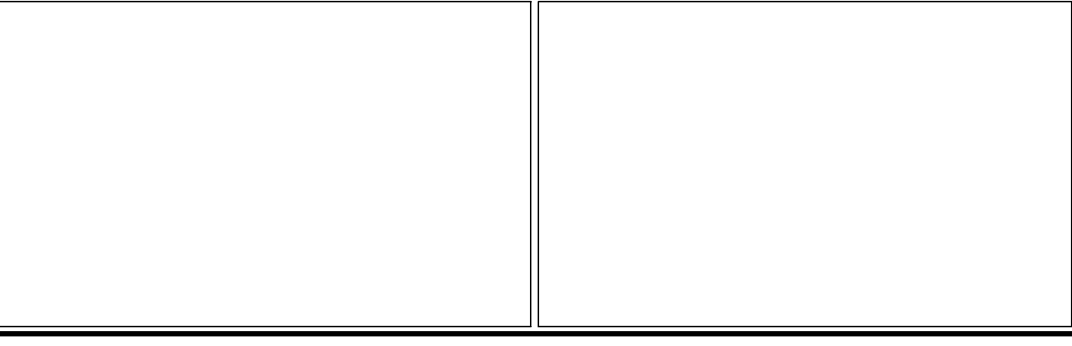
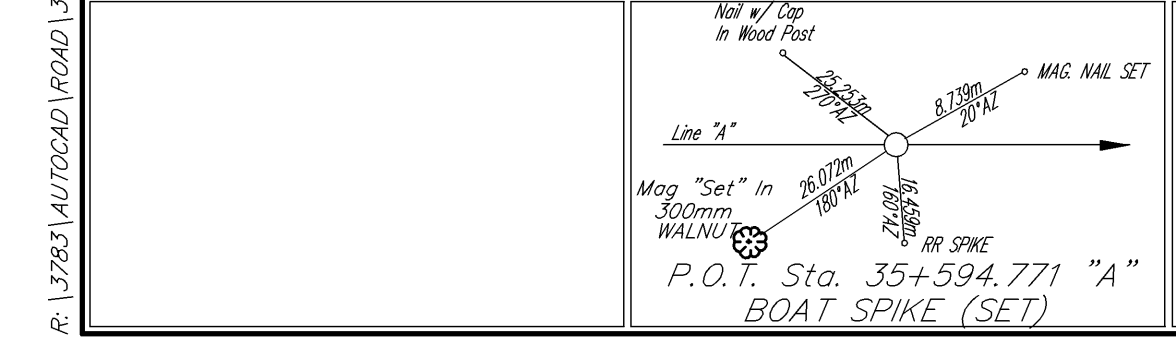
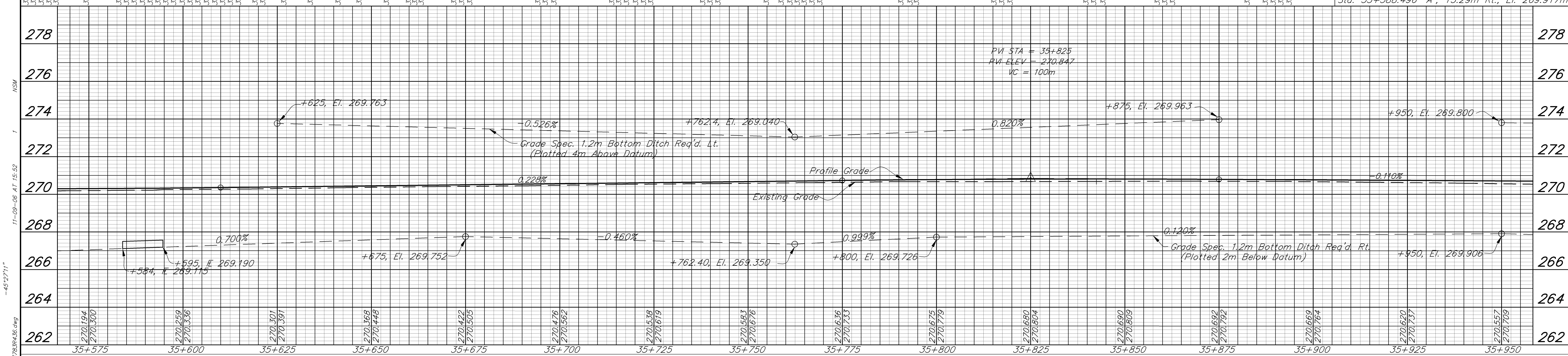






ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

B.M. #33 RR Spike in Fence Corner Sta. 35+588.496 "A", 15.29m RL., El. 269.917m



**BFS**  
Butler Fairman Seuffert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN 46240  
317 713-4816  
FAX 317 713-4816

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
WALTER S. LARSEN

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

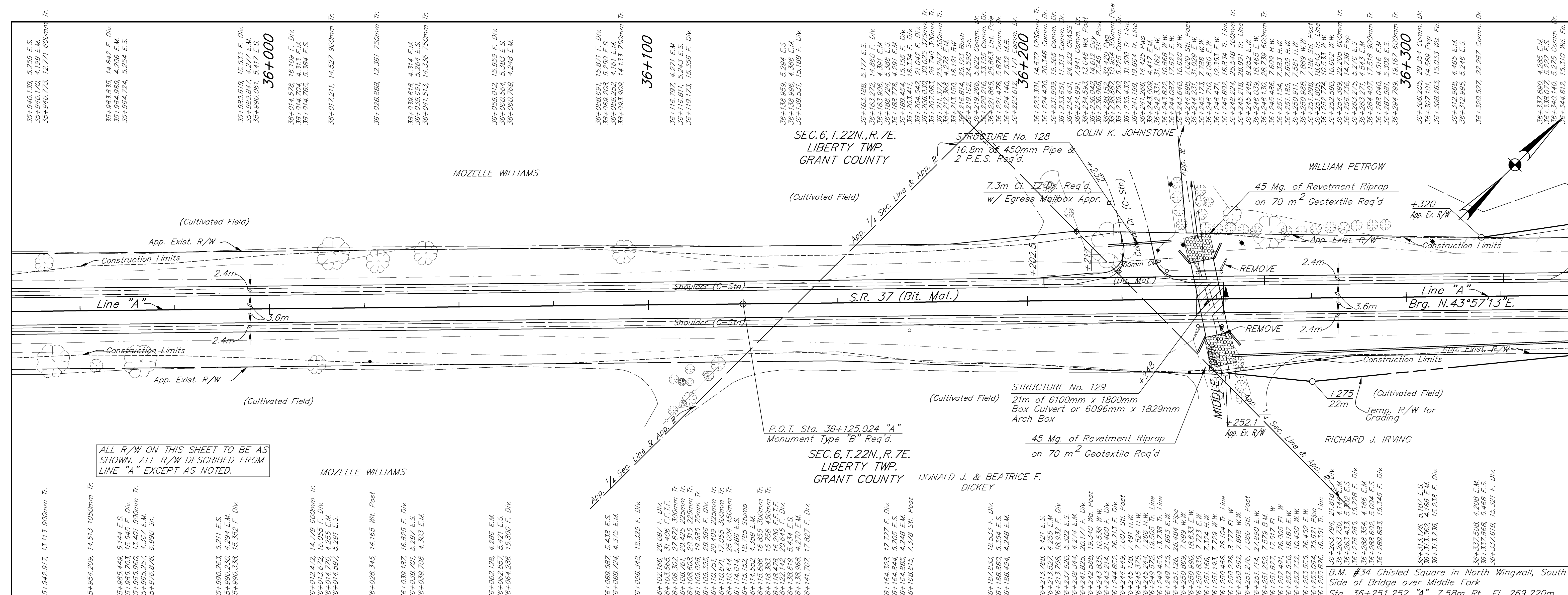
INDIANA DEPARTMENT OF TRANSPORTATION  
LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

HORIZONTAL SCALE	1:500	FILE	3783
VERTICAL SCALE	1:100	DESIGNATION	9706580
SURVEY BOOK		SHEET	
CONTRACT	R-28934	OFF	292
		PROJECT	STP/097-9(005)

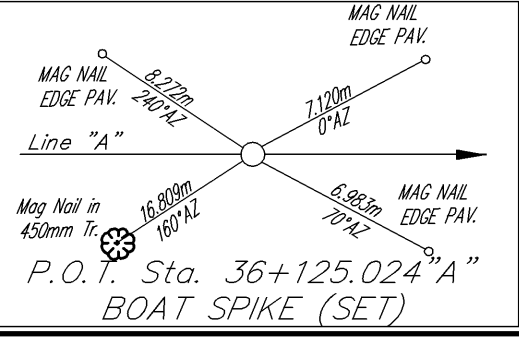
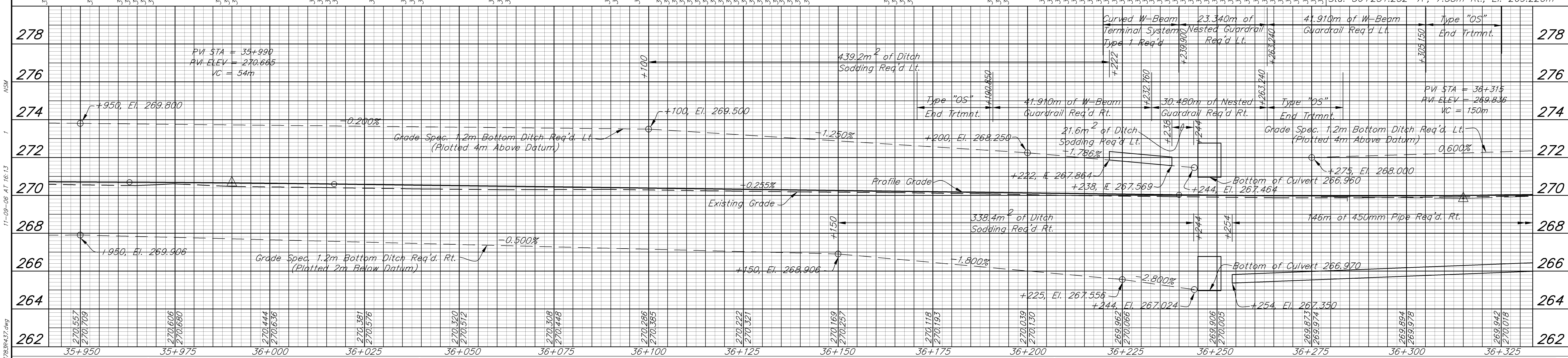
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 NSM  
 J

BFS NO. 3783.07



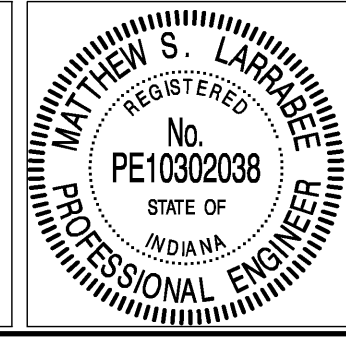


ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



**BFS**  
Butler Fairman Seuffert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN 46240  
317 713-4815  
FAX 317 713-4816

509 WEST BATH DRIVE, SUITE G  
MERRILLVILLE, IN 46410  
219 769-2333  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Vanable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION  
LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 49 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

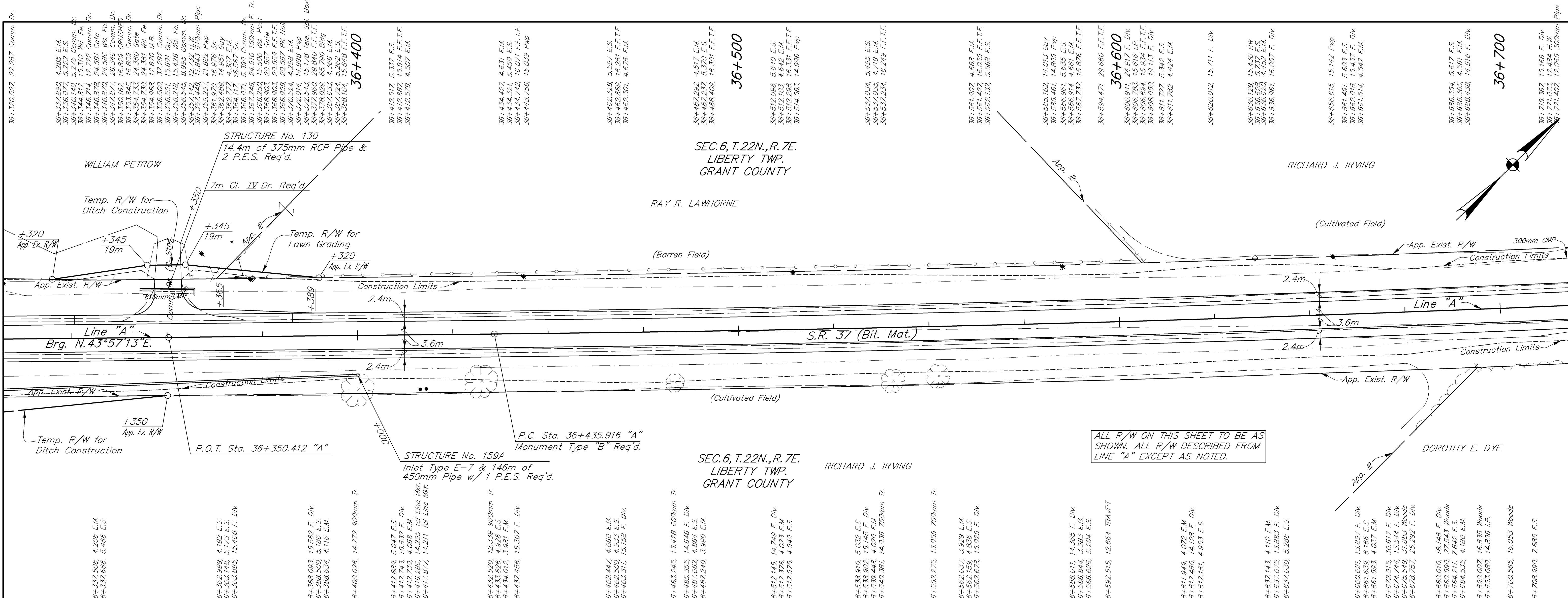
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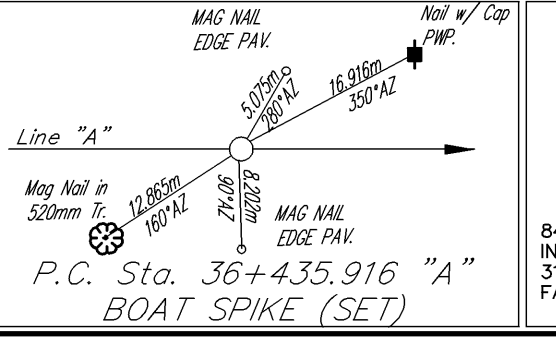
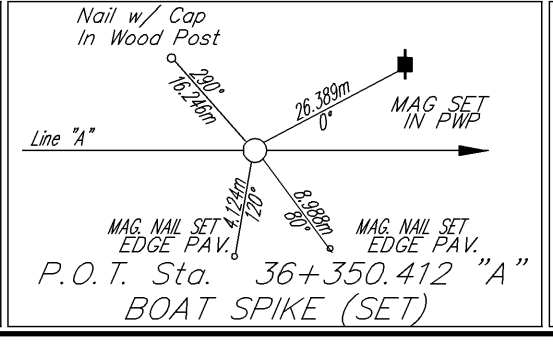
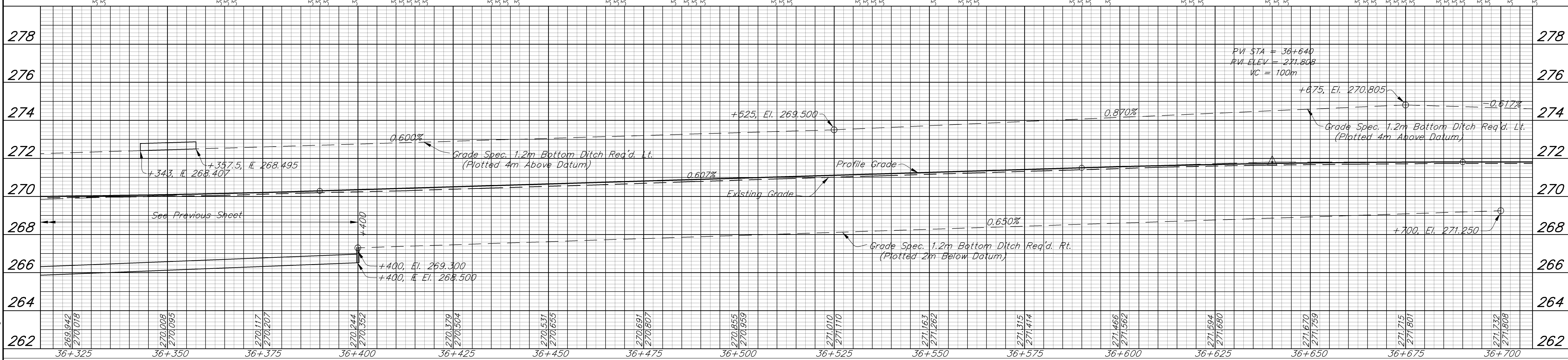
NSM

-45°27'11"

BFS NO. 3783.07



ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240  
509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN 46410  
317 713-4816 219 769-2333  
FAX 317 713-4816 FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
WALTER S. LARSEN

RECOMMENDED FOR APPROVAL: *Matthew Danube* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION  
LINE "A"  
STATE ROAD 37  
PLAN & PROFILE

HORIZONTAL SCALE	1:500	FILE	3783
VERTICAL SCALE	1:100	DESIGNATION	9706580
SURVEY BOOK		SHEET	
CONTRACT	R-28934	OF	292
		PROJECT	STP/097-9(005)

-45°27'11"

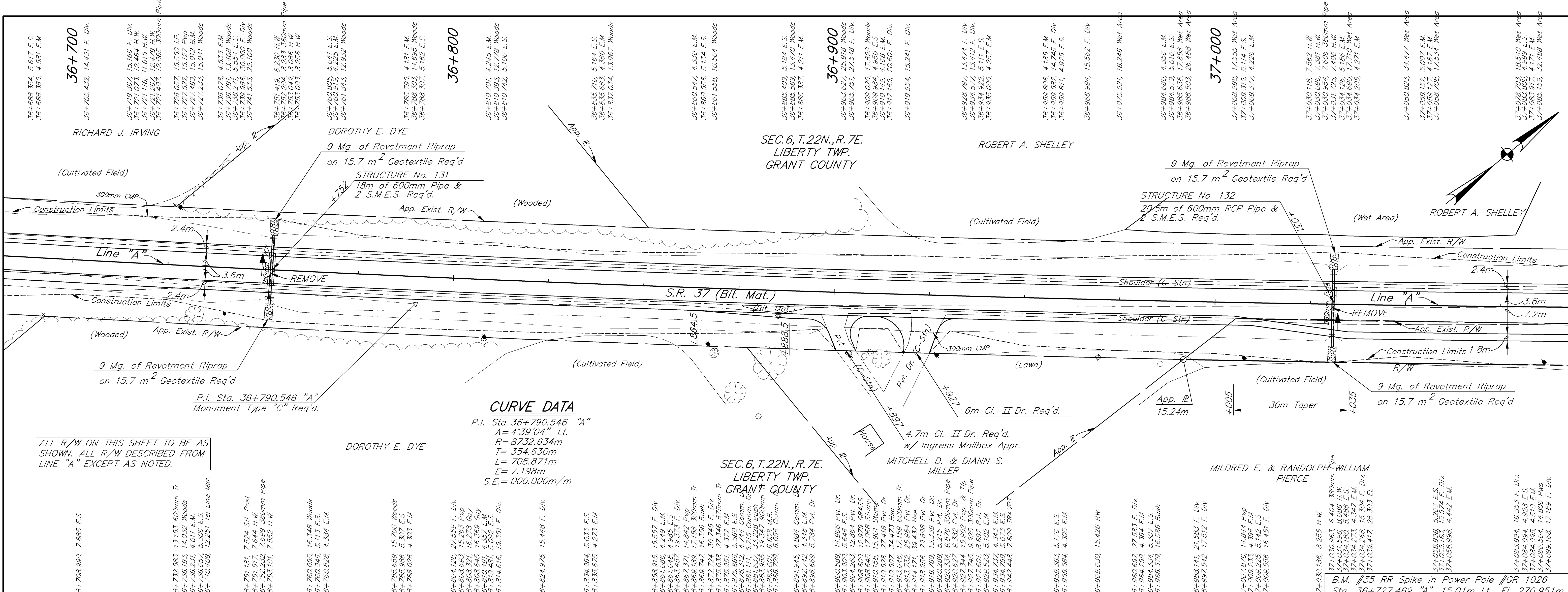
11-09-06 AT 16:14

NSM

F

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36+338.077, 5.222 E.S.  
36+340.171, 16.310 Comm. Dr.  
36+341.812, 16.310 Comm. Dr.  
36+346.714, 12.722 Comm. Dr.  
36+346.878, 24.591 Gate  
36+346.870, 24.586 Wd. Fe.  
36+347.877, 26.346 Comm. Dr.  
36+350.162, 16.829 CRUSHED  
36+350.523, 16.829 Comm. Dr.  
36+351.523, 16.829 Comm. Dr.  
36+354.230, 24.391 Wd. Fe.  
36+354.988, 12.620 M.B.  
36+356.500, 32.292 Comm. Dr.  
36+356.591, 15.691 Dwy.  
36+356.718, 15.428 Wd. Fe.  
36+357.143, 6.932 Comm. Dr.  
36+357.446, 11.843 610mm Pipe  
36+359.297, 21.882 Pwp  
36+361.970, 16.876 Sh.  
36+362.489, 14.951 Dwy.  
36+364.117, 18.387 E.S.  
36+366.071, 5.390 Comm. Dr.  
36+367.246, 24.910 150mm F. Tr.  
36+368.250, 15.500 Wd. Post  
36+368.903, 20.557 Gate  
36+369.893, 30.957 Pk. Non  
36+370.524, 4.289 E.M.  
36+372.014, 14.998 Pwp  
36+372.543, 15.178 Tele. Sh.  
36+377.960, 29.840 F.F.T.F.  
36+378.029, 65.790 Blg.  
36+381.724, 16.829 Comm. Dr.  
36+388.104, 15.648 F.F.T.F.  
36+412.917, 5.332 E.S.  
36+412.887, 15.914 F.F.T.F.  
36+412.978, 4.507 E.M.  
36+434.427, 4.631 E.S.  
36+434.321, 5.450 E.S.  
36+434.742, 16.071 F.F.T.F.  
36+443.756, 15.039 Pwp  
36+462.329, 5.597 E.S.  
36+462.889, 16.261 F.F.T.F.  
36+462.301, 4.676 E.M.  
36+487.929, 4.517 E.M.  
36+487.237, 5.720 E.S.  
36+488.409, 16.301 F.F.T.F.  
36+512.098, 5.640 E.S.  
36+512.103, 4.642 E.M.  
36+512.286, 16.331 F.F.T.F.  
36+514.563, 14.896 Pwp  
36+537.034, 9.495 E.S.  
36+537.035, 4.719 E.M.  
36+537.234, 16.249 F.F.T.F.  
36+561.907, 16.689 E.M.  
36+561.427, 16.039 F.F.T.F.  
36+562.143, 5.588 E.S.  
36+585.162, 14.013 Dwy.  
36+585.461, 14.809 Pwp  
36+586.914, 9.693 E.S.  
36+591.271, 16.829 Comm. Dr.  
36+597.332, 15.876 F.F.T.F.  
36+594.471, 29.660 F.F.T.F.  
36+600.000, 4.199 Dik.  
36+606.281, 15.816 V.P. Dik.  
36+606.694, 15.934 F.F.T.F.  
36+608.050, 19.113 F. Dik.  
36+611.227, 5.342 E.S.  
36+611.782, 4.424 E.M.  
36+620.012, 15.711 F. Dik.  
36+636.129, 15.430 RW  
36+636.629, 5.743 E.S.  
36+636.961, 16.057 F. Dik.  
36+656.615, 15.142 Pwp  
36+661.491, 5.603 E.S.  
36+662.016, 15.437 F. Dik.  
36+661.514, 4.542 E.M.  
36+686.354, 5.617 E.S.  
36+686.365, 4.581 E.M.  
36+688.438, 14.916 F. Dik.  
36+719.367, 15.168 F. Dik.  
36+719.013, 12.464 Wd. Post  
36+721.401, 12.665 300mm Pipe

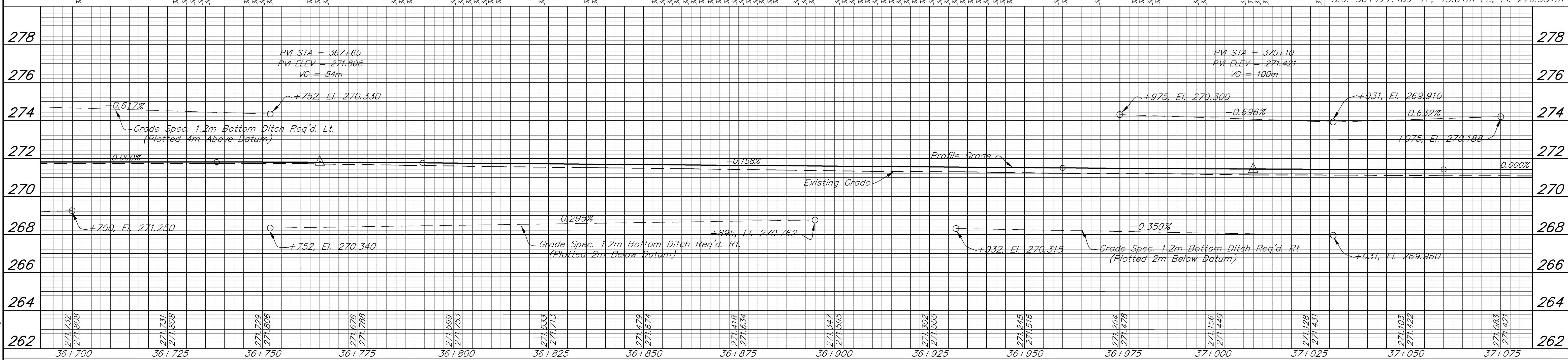




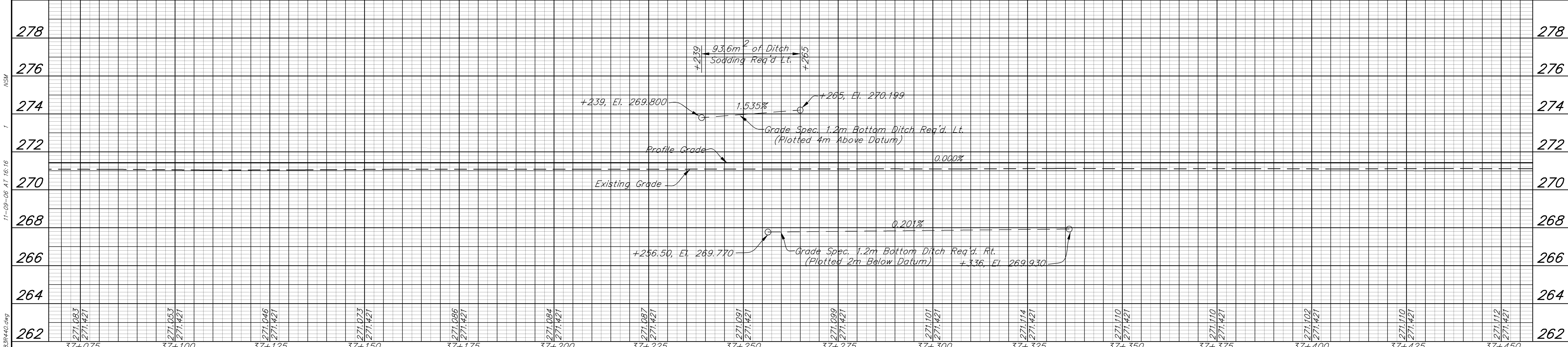
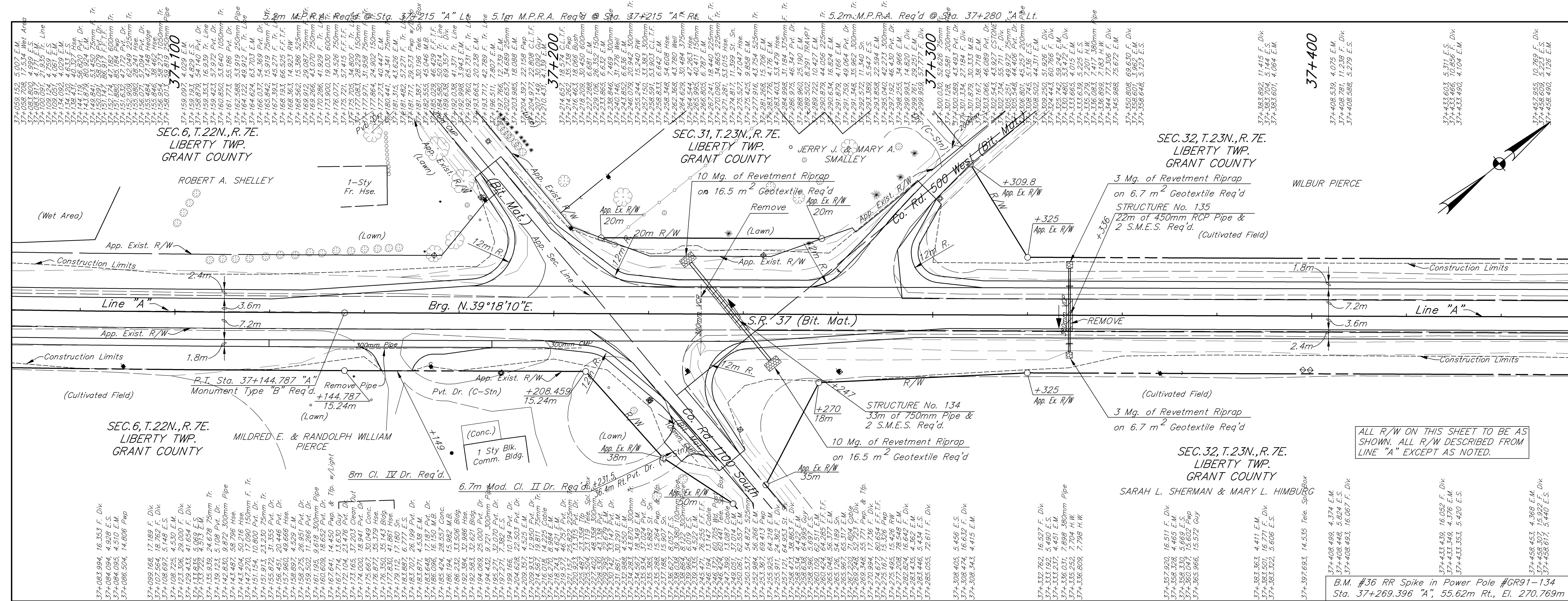
ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

**CURVE DATA**

P.I. Sta. 36+790.546 "A"  
 $\Delta = 4^{\circ}39'04''$  Lt.  
 $R = 8732.634m$   
 $T = 354.630m$   
 $L = 708.871m$   
 $E = 7.198m$   
 $S.E. = 000.000m/m$

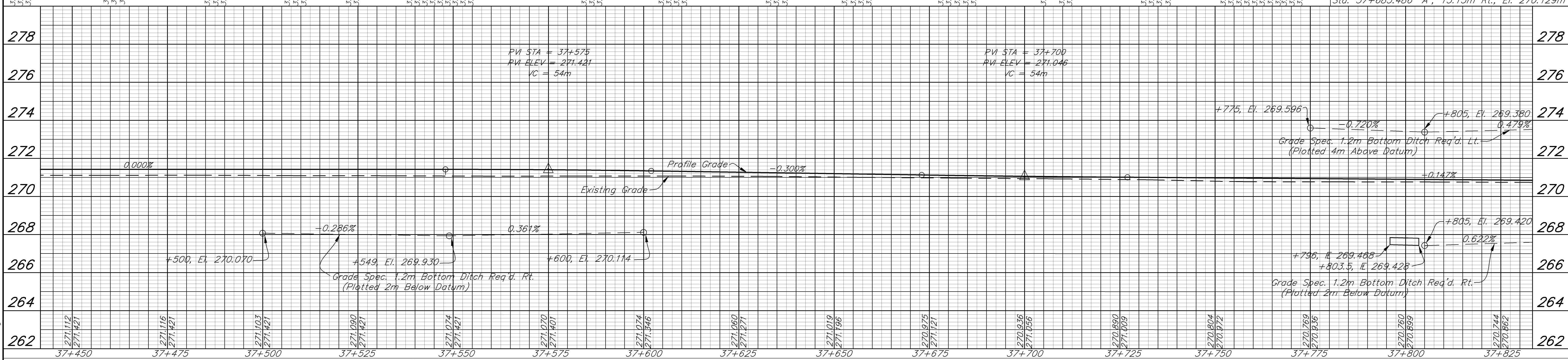
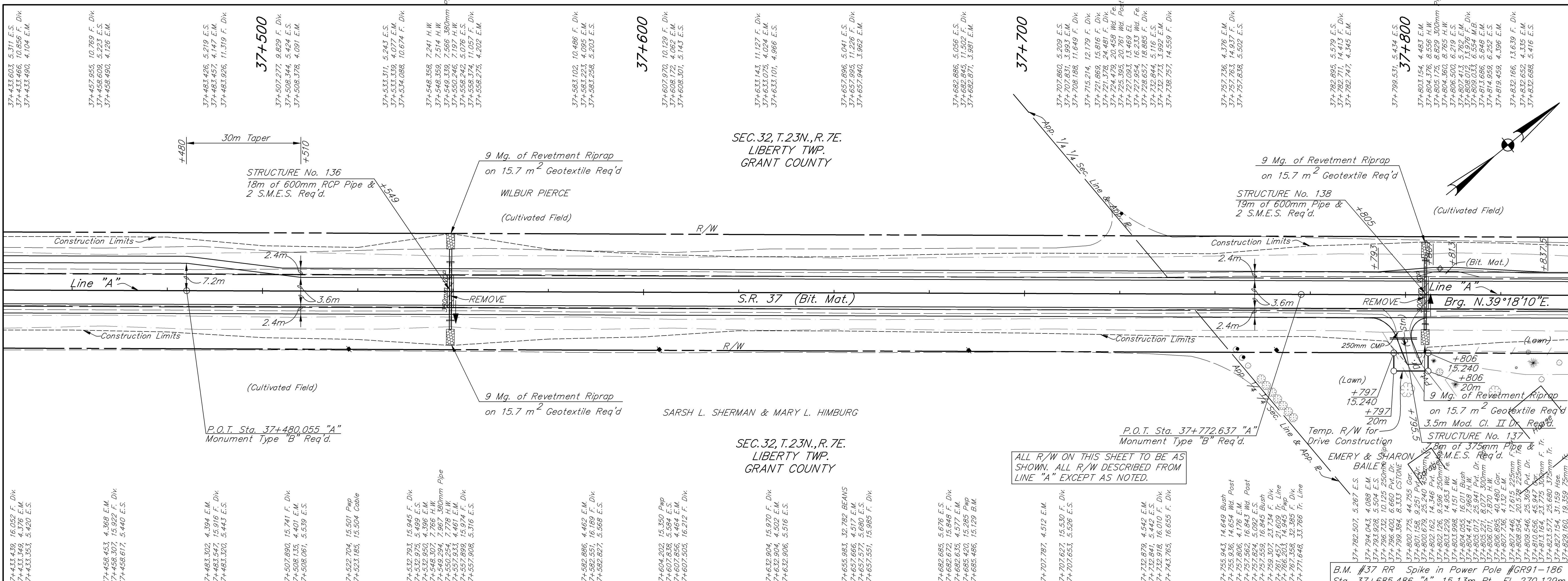


<p>Butler Fairman Seuffert CIVIL ENGINEERS</p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317 713-4816 FAX 317 713-4816</p>	<p>RECOMMENDED FOR APPROVAL: <i>Matthew J. Vanuys</i> 11/10/06 DESIGN ENGINEER DATE</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</p>	<p>HORIZONTAL SCALE 1:500</p>	<p>FILE 3783</p>
			<p>VERTICAL SCALE 1:100</p>	<p>DESIGNATION 9706580</p>
<p>DESIGNED: J.B. DRAWN: G.N.</p>	<p>CHECKED: B.Z. CHECKED: J.B.</p>	<p>CONTRACT R-28934</p>	<p>SURVEY BOOK 51</p>	<p>SHEET [OF] 292</p>
			<p>PROJECT STP/097-9(005)</p>	<p>BFS NO. 3783.07</p>



	<p>ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.</p>	<p>B.M. #36 RR Spike in Power Pole #GR91-134 Sta. 37+269.396 "A", 55.62m Rt., El. 270.769m</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>REGISTERED DESIGN ENGINEER</p> <p>FOR APPROVAL: <i>Matthew J. Vanuys</i> 11/10/06 DATE</p> <p>DESIGNED: J.B. DRAWN: G.N.</p> <p>CHECKED: B.Z. CHECKED: J.B.</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>REGISTERED DESIGN ENGINEER</p> <p>FOR APPROVAL: <i>Matthew J. Vanuys</i> 11/10/06 DATE</p> <p>DESIGNED: J.B. DRAWN: G.N.</p> <p>CHECKED: B.Z. CHECKED: J.B.</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>REGISTERED DESIGN ENGINEER</p> <p>FOR APPROVAL: <i>Matthew J. Vanuys</i> 11/10/06 DATE</p> <p>DESIGNED: J.B. DRAWN: G.N.</p> <p>CHECKED: B.Z. CHECKED: J.B.</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>HORIZONTAL SCALE</td> <td>FILE</td> </tr> <tr> <td>1:500</td> <td>3783</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>DESIGNATION</td> </tr> <tr> <td>1:100</td> <td>9706580</td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEET</td> </tr> <tr> <td></td> <td>52 OF 292</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>R-28934</td> <td>STP/097-9(005)</td> </tr> </table>	HORIZONTAL SCALE	FILE	1:500	3783	VERTICAL SCALE	DESIGNATION	1:100	9706580	SURVEY BOOK	SHEET		52 OF 292	CONTRACT	PROJECT	R-28934	STP/097-9(005)
HORIZONTAL SCALE	FILE																					
1:500	3783																					
VERTICAL SCALE	DESIGNATION																					
1:100	9706580																					
SURVEY BOOK	SHEET																					
	52 OF 292																					
CONTRACT	PROJECT																					
R-28934	STP/097-9(005)																					



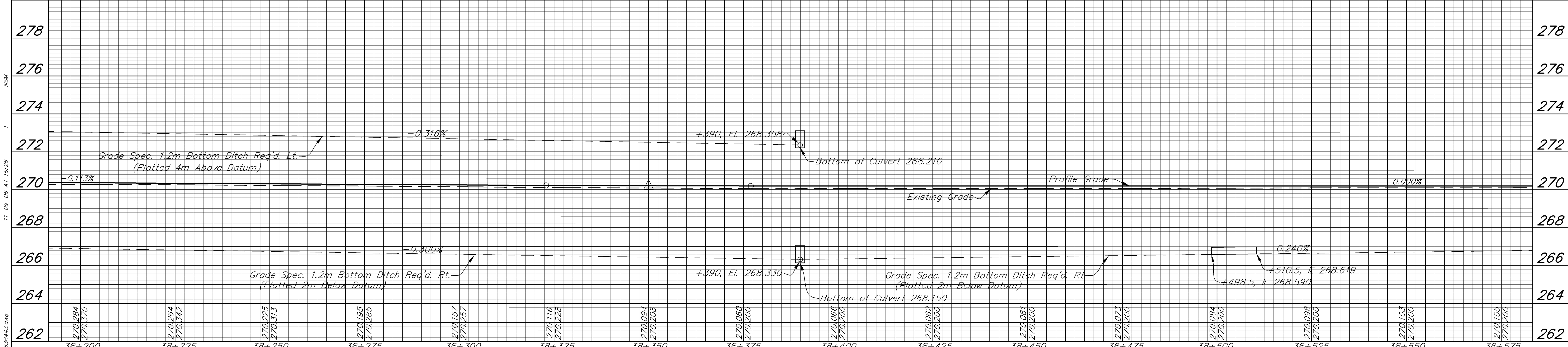
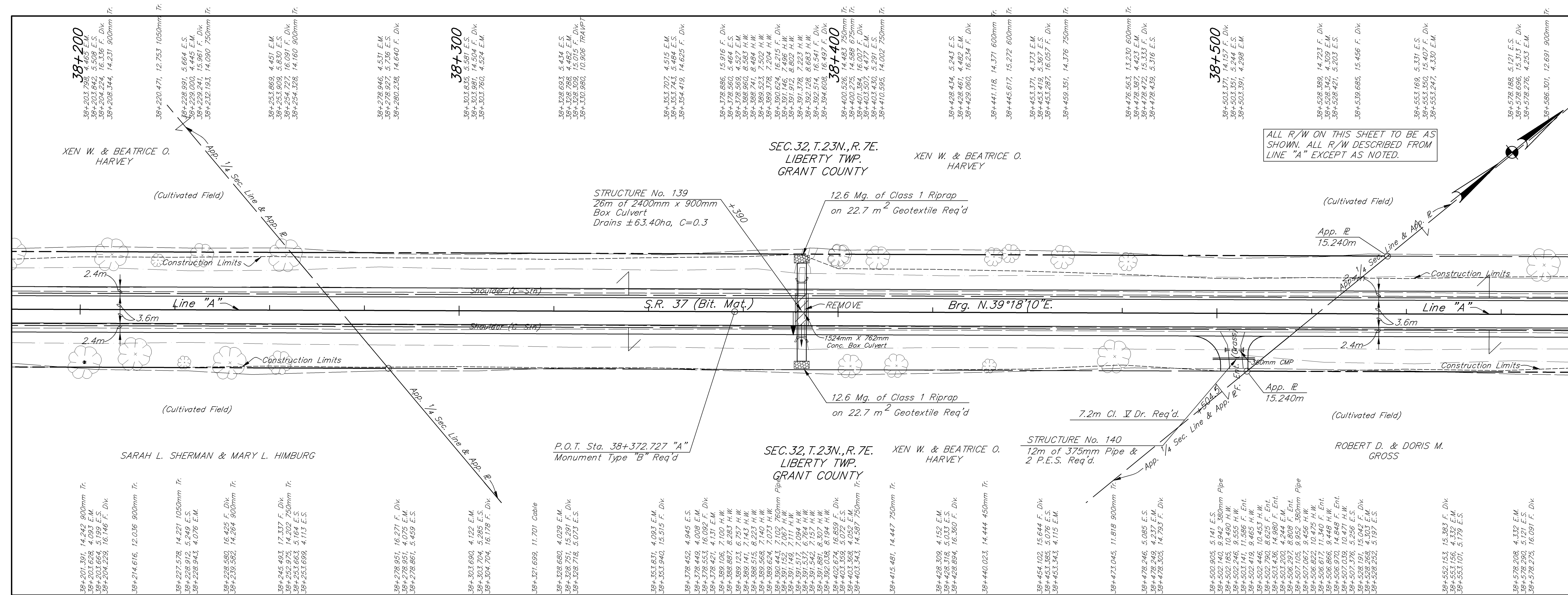


<p>P.O.T. Sta. 37+480.055 "A" BOAT SPIKE (SET)</p>	<p>P.O.T. Sta. 37+772.637 "A" BOAT SPIKE (SET)</p>	<p>Butler Fairman Seuffert CIVIL ENGINEERS</p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4515 FAX 317 713-4516</p> <p>509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377</p>	<p>REGISTERED PROFESSIONAL ENGINEER No. PE10302038 STATE OF INDIANA</p>	<p>RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE</p>	<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>LINE "A" STATE ROAD 37 PLAN &amp; PROFILE</p>	<p>HORIZONTAL SCALE 1:500</p> <p>VERTICAL SCALE 1:100</p> <p>SURVEY BOOK</p> <p>CONTRACT R-28934</p>	<p>FILE 3783</p> <p>DESIGNATION 9706580</p> <p>SHEET 243</p> <p>PROJECT STP/097-9(005)</p>
				<p>DESIGNED: J.B. DRAWN: G.N.</p> <p>CHECKED: B.Z. CHECKED: J.B.</p>		<p>FILE 3783</p> <p>DESIGNATION 9706580</p> <p>SHEET 243</p> <p>PROJECT STP/097-9(005)</p>	

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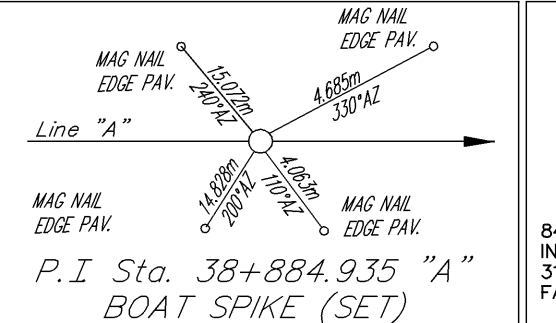
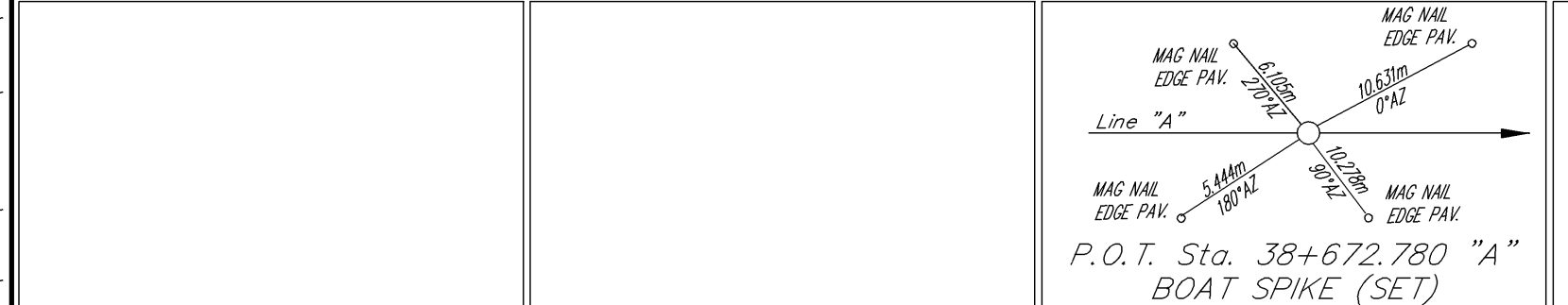
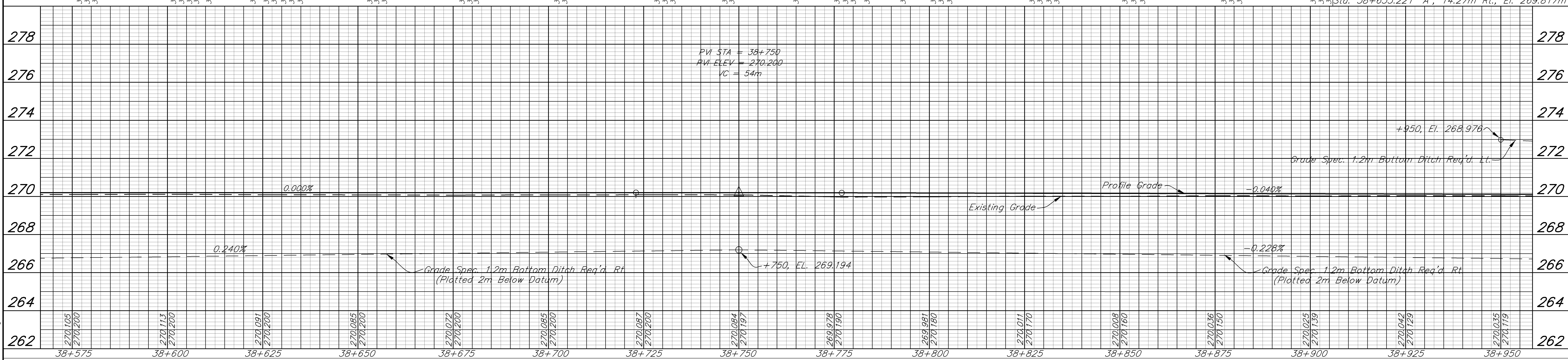
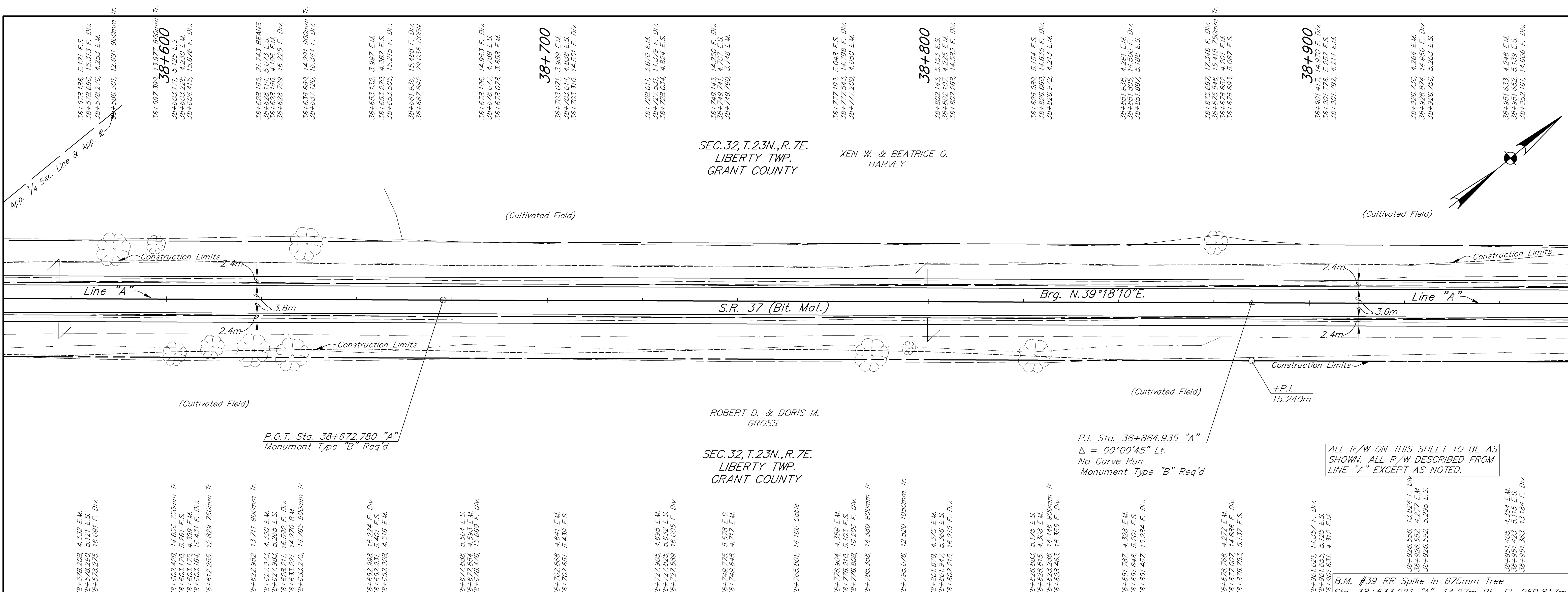






<p>NSM 11-09-06 AT 16:26 -50'x37.24" F:\17281\AUTOCAD\ROAD\17281R441.dwg</p>	 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 517 713-4816 FAX 317 713-4816 509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377		RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.	INDIANA DEPARTMENT OF TRANSPORTATION <b>LINE "A"</b> <b>STATE ROAD 37</b> <b>PLAN &amp; PROFILE</b>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>HORIZONTAL SCALE</td> <td>FILE</td> </tr> <tr> <td>1:500</td> <td>3783</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>DESIGNATION</td> </tr> <tr> <td>1:100</td> <td>9706580</td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEET</td> </tr> <tr> <td></td> <td>55 OF 292</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>R-28934</td> <td>STP/097-9(005)</td> </tr> </table>	HORIZONTAL SCALE	FILE	1:500	3783	VERTICAL SCALE	DESIGNATION	1:100	9706580	SURVEY BOOK	SHEET		55 OF 292	CONTRACT	PROJECT	R-28934	STP/097-9(005)
HORIZONTAL SCALE	FILE																				
1:500	3783																				
VERTICAL SCALE	DESIGNATION																				
1:100	9706580																				
SURVEY BOOK	SHEET																				
	55 OF 292																				
CONTRACT	PROJECT																				
R-28934	STP/097-9(005)																				

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



**BFS**  
Butler Fairman Seuffert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN. 46410

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
MATTHEW S. LARSEN

RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION  
**LINE "A"  
STATE ROAD 37  
PLAN & PROFILE**

HORIZONTAL SCALE	1:500	FILE	3783
VERTICAL SCALE	1:100	DESIGNATION	9706580
SURVEY BOOK		SHEET	
CONTRACT	R-28934	56 OF	292
		PROJECT	STP/097-9(005)

11-09-06 AT 16:27  
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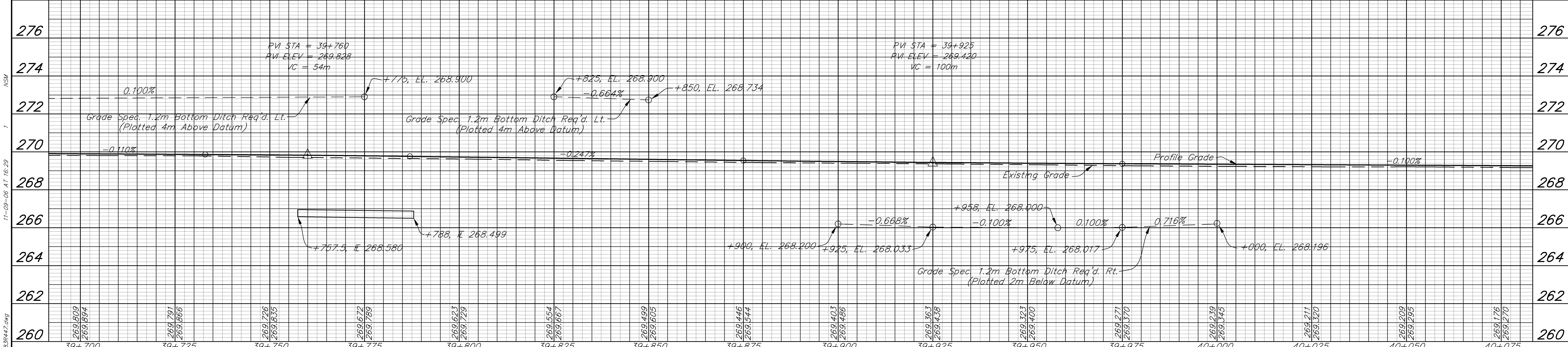
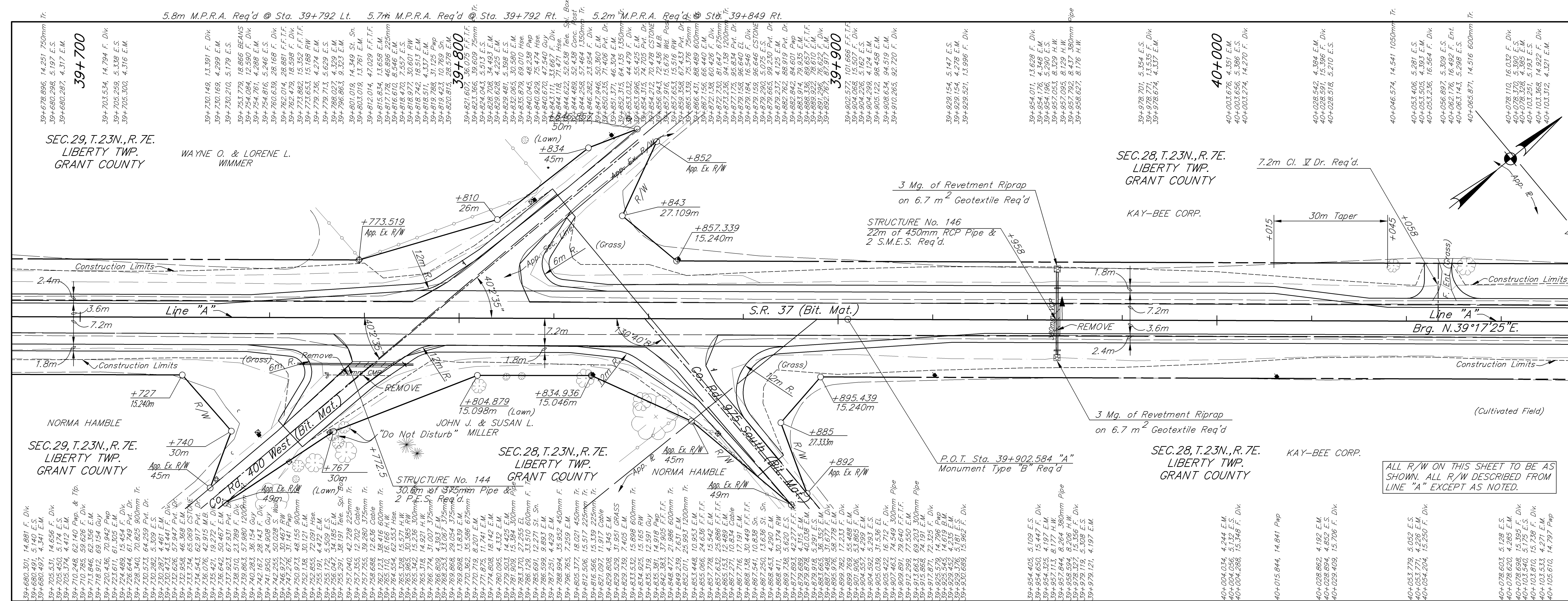
BFS NO. 3783.07











RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

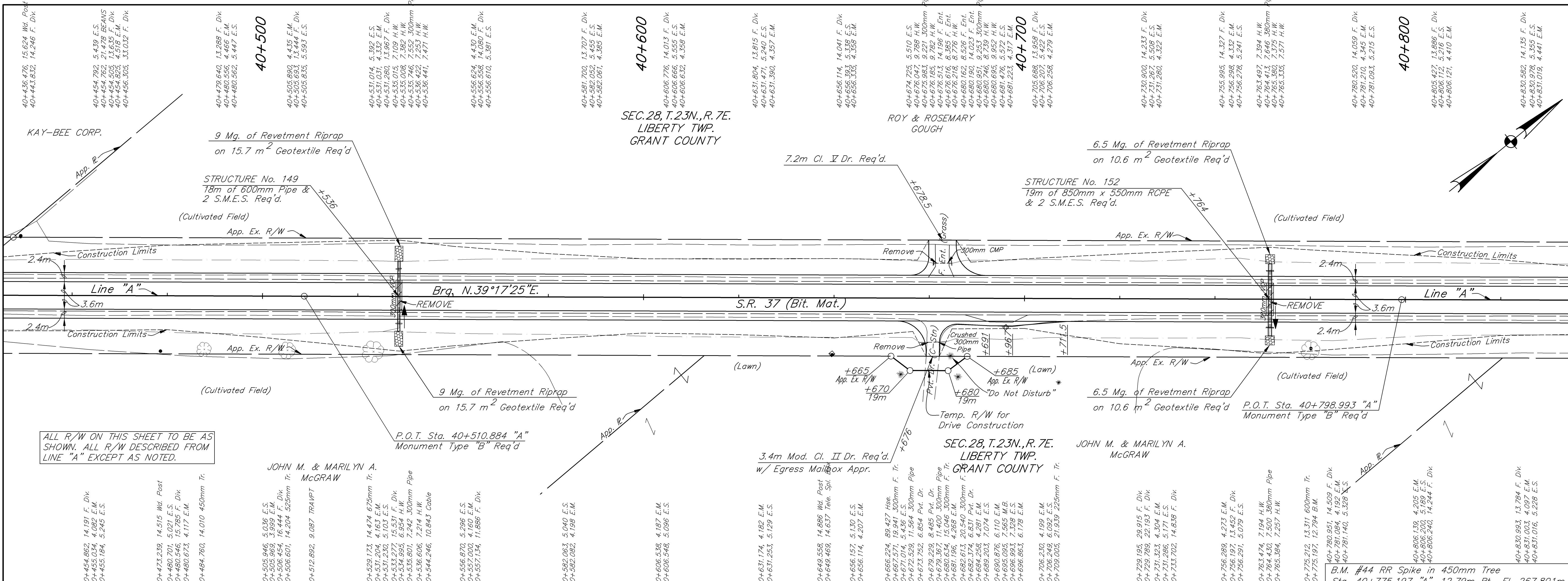
**LINE "A"**  
STATE ROAD 37  
PLAN & PROFILE

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	59 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

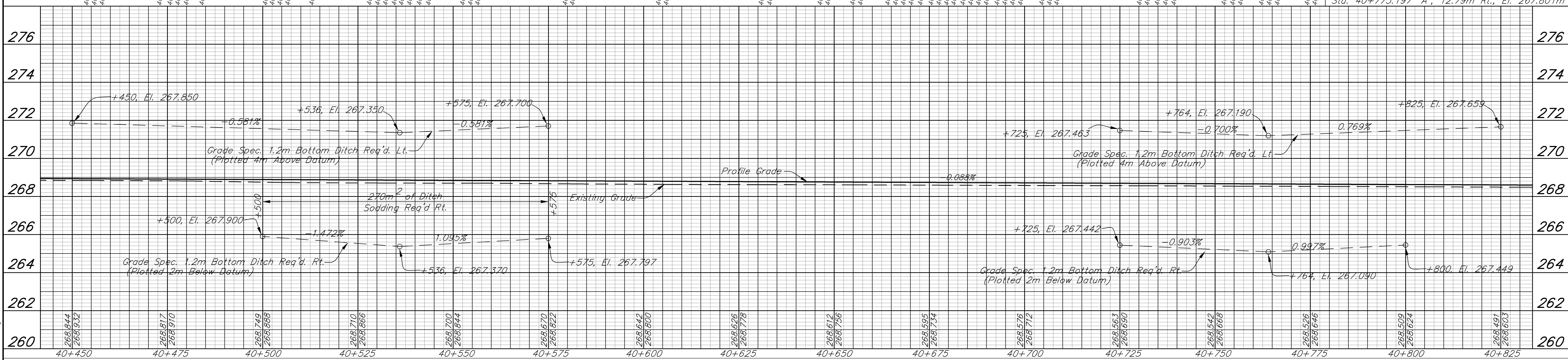
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 39+680.491, 5.140 E.S.  
 39+680.497, 4.341 E.M.  
 39+705.531, 14.656 F. Dik  
 39+705.450, 5.174 E.S.  
 39+710.248, 62.140 P.C.P. & Tip.  
 39+710.285, 69.626 F. Dik  
 39+718.915, 66.156 E.M.  
 39+720.436, 70.942 P.C.P.  
 39+723.611, 61.305 E.M.  
 39+724.489, 15.454 F. Dik  
 39+726.644, 61.749 P.C. Dr.  
 39+728.340, 70.825 900mm Tr.  
 39+730.573, 64.259 P.C. Dr.  
 39+730.297, 4.461 F. Dik  
 39+732.626, 57.947 P.C. Dr.  
 39+732.958, 46.368 E.M.  
 39+734.543, 62.917 P.C. Dr.  
 39+735.421, 19.272 F. Dik  
 39+736.642, 50.467 E.M.  
 39+737.923, 67.931 P.C. Dr.  
 39+739.863, 57.990 1200mm Tr.  
 39+740.283, 36.154 Guy. Dik  
 39+742.167, 28.143 F. Dik  
 39+741.950, 24.908 Guy. Dik  
 39+742.255, 50.029 S. Wh.  
 39+745.191, 4.472 E.M.  
 39+746.047, 34.185 E.M.  
 39+745.291, 38.191 Tele. Sp.  
 39+757.040, 42.728 225mm Tr.  
 39+757.355, 12.702 Cable  
 39+757.735, 39.280 375mm Tr.  
 39+759.120, 38.416 600mm Tr.  
 39+765.170, 16.166 H.W.  
 39+765.325, 10.375 H.W.  
 39+765.325, 10.375 H.W.  
 39+765.342, 15.236 300mm Tr.  
 39+765.318, 14.921 H.W.  
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 39+766.903, 31.007 Vign.  
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 39+770.362, 35.586 675mm Tr.  
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 39+771.763, 11.474 E.M.  
 39+778.095, 4.332 E.M.  
 39+779.503, 14.425 E.M.  
 39+783.370, 27.255 600mm Tr.  
 39+783.659, 12.210 600mm Tr.  
 39+786.599, 9.893 E.M.  
 39+787.251, 4.429 E.M.  
 39+788.994, 35.952 450mm F.  
 39+796.765, 7.259 E.M.  
 39+805.377, 18.021 450mm Tr.  
 39+812.506, 15.517 225mm Tr.  
 39+816.656, 15.339 225mm Tr.  
 39+816.656, 15.339 225mm Tr.  
 39+820.898, 1.845 Cable  
 39+829.529, 31.951 GRASS  
 39+829.739, 7.402 E.M.  
 39+833.532, 15.898 600mm Tr.  
 39+834.925, 15.165 RW  
 39+835.319, 12.591 Guy  
 39+832.381, 17.916 P.C.F.  
 39+848.477, 21.996 600mm Tr.  
 39+849.239, 7.631 E.M.  
 39+852.011, 25.993 1200mm Tr.  
 39+853.448, 10.953 E.M.  
 39+855.066, 24.636 P.C.F.  
 39+857.635, 25.886 P.C.F.  
 39+855.153, 12.459 E.M.  
 39+867.271, 10.834 Cable  
 39+867.716, 17.191 E.M.  
 39+865.549, 30.949 P.C.F.  
 39+867.250, 13.636 S.H.  
 39+868.453, 4.990 E.M.  
 39+868.411, 30.374 RW  
 39+869.736, 5.620 E.S.  
 39+870.893, 42.717 P.C. Dr.  
 39+873.663, 69.203 300mm Pipe  
 39+879.916, 5.291 E.S.  
 39+883.965, 31.257 F. Dik  
 39+885.976, 58.778 E.M.  
 39+889.782, 17.233 F. Dik  
 39+899.769, 55.488 E.M.  
 39+904.557, 4.293 E.M.  
 39+904.592, 5.292 E.S.  
 39+905.039, 31.536 EL.  
 39+905.422, 16.712 F. Dik  
 39+906.651, 78.549 500mm Pipe  
 39+912.999, 77.550 E.M.  
 39+913.663, 69.203 300mm Pipe  
 39+915.868, 74.191 E.M.  
 39+917.871, 72.325 F. Dik  
 39+925.452, 4.332 E.M.  
 39+929.452, 4.332 E.M.  
 39+929.717, 5.038 E.S.  
 39+930.268, 13.962 F. Dik  
 39+930.268, 13.962 F. Dik  
 39+954.011, 13.628 F. Dik  
 39+954.176, 4.348 E.M.  
 39+957.053, 8.329 H.W.  
 39+957.095, 8.129 H.W.  
 39+957.792, 8.437 380mm Pipe  
 39+958.627, 8.176 H.W.  
 39+978.701, 5.364 E.S.  
 39+978.771, 13.332 E.M.  
 39+978.674, 4.307 E.M.  
 40+003.656, 5.386 E.S.  
 40+003.974, 14.270 F. Dik  
 40+028.542, 4.384 E.M.  
 40+028.591, 5.390 F. Dik  
 40+028.616, 5.210 E.S.  
 40+056.897, 5.309 E.S.  
 40+063.143, 5.288 E.S.  
 40+065.871, 14.516 600mm Tr.  
 40+078.110, 16.032 F. Dik  
 40+078.470, 5.380 E.S.  
 40+103.251, 4.183 E.M.  
 40+103.368, 14.927 F. Dik  
 40+103.312, 4.321 E.M.







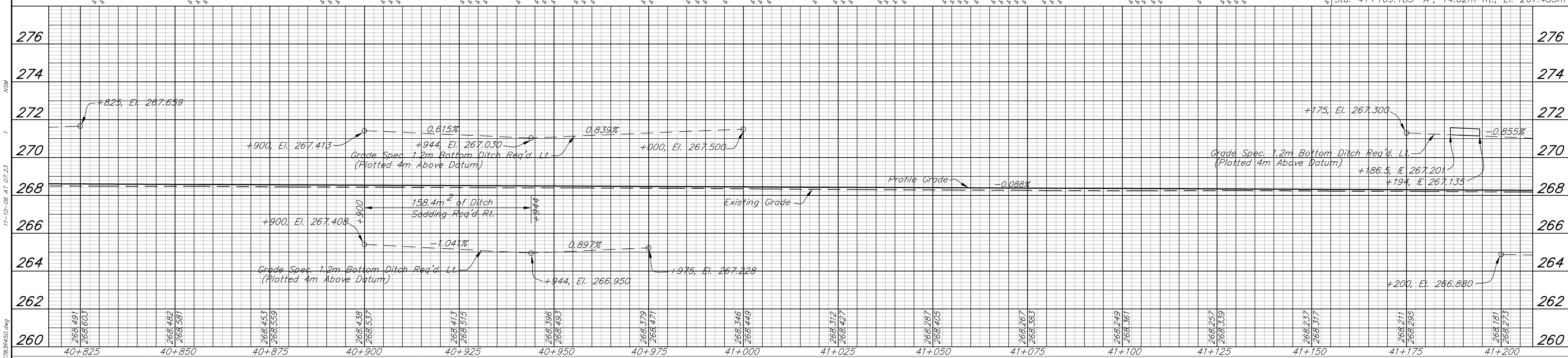
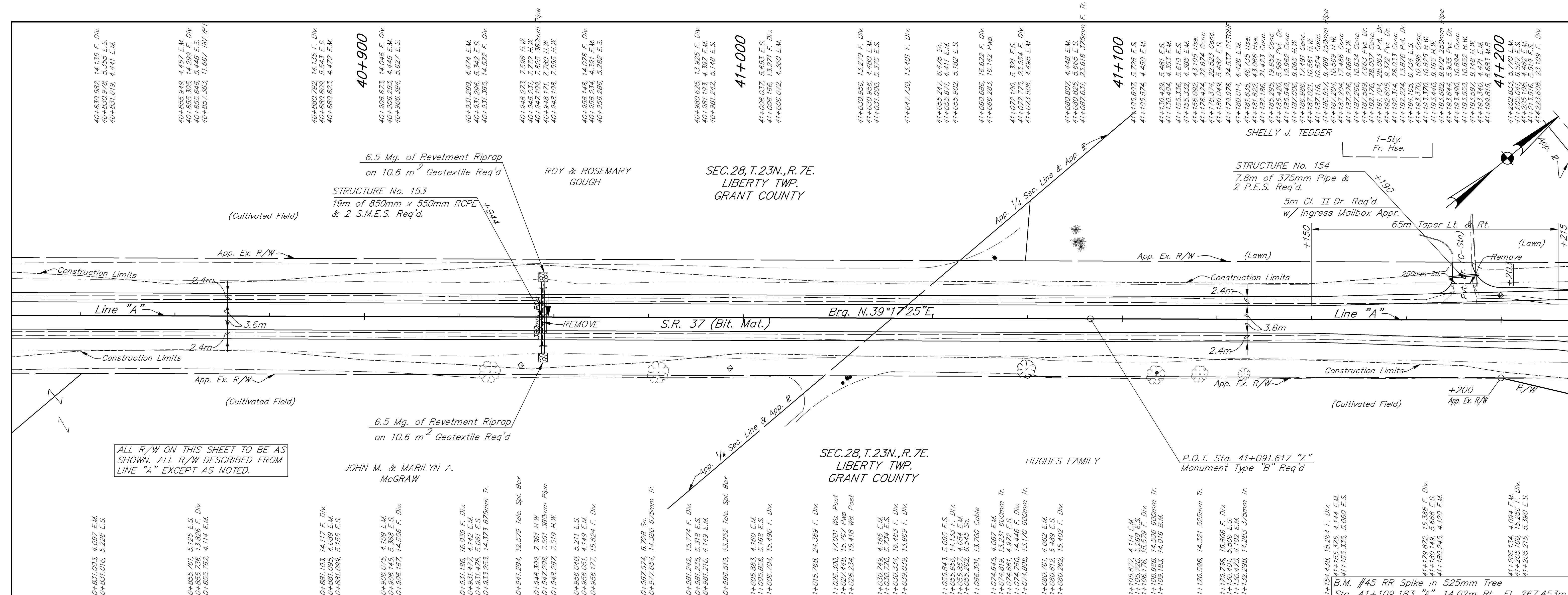
ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



<p>P.O.T. Sta. 40+510.884 "A" BOAT SPIKE (SET)</p>	<p>P.O.T. Sta. 40+798.993 "A" BOAT SPIKE (SET)</p>	<p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240 317 713-4816 FAX 317 713-4816</p>		RECOMMENDED FOR APPROVAL: <i>Matthew J. Vanue</i> 11/10/06 DESIGN ENGINEER DATE	HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100 SURVEY BOOK SHEET 61 OF 292 CONTRACT PROJECT R-28934 STP/097-9(005)
				DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.	

-50'x37.24"  
 11-10-06 AT 07:22  
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BFS NO. 3783.07



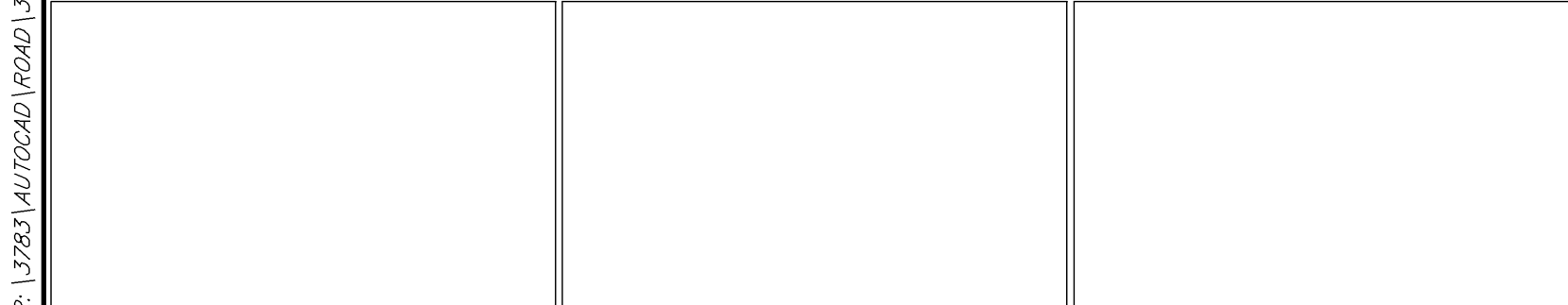
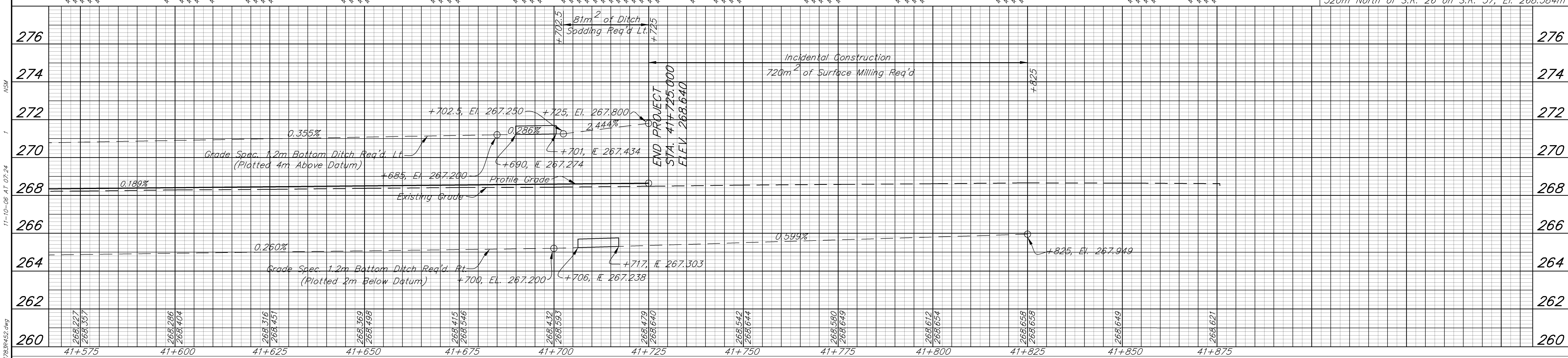
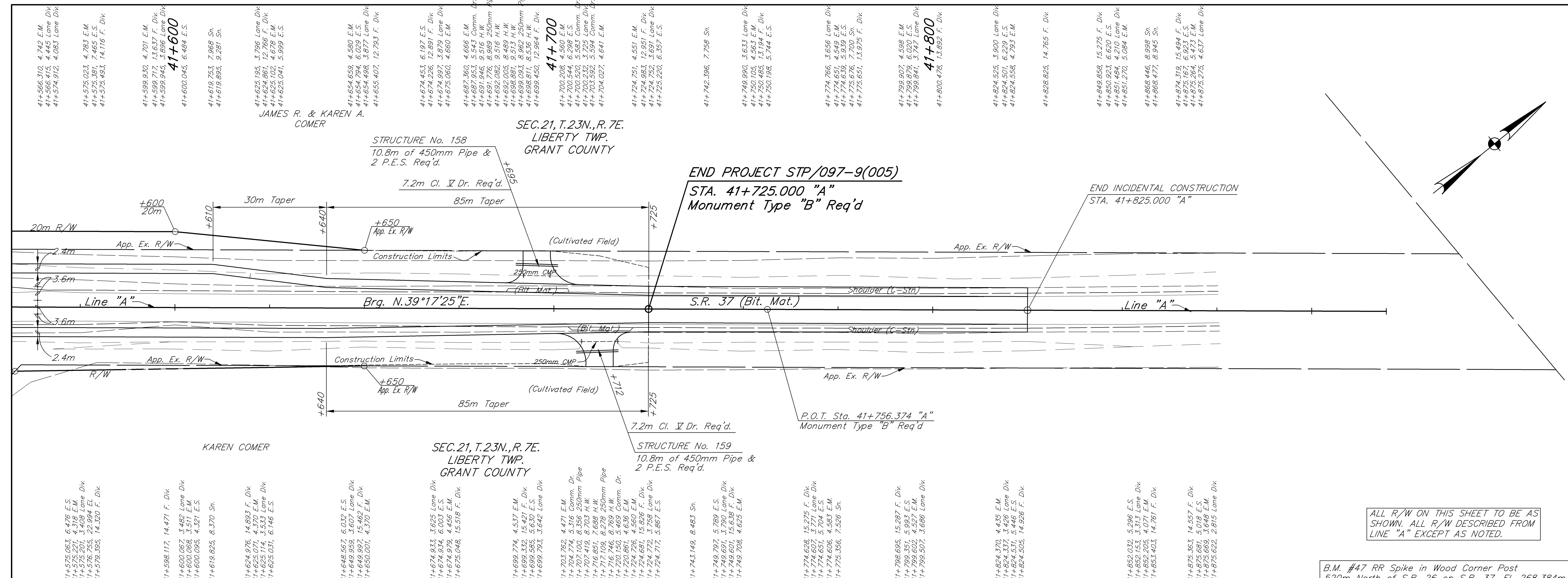
			RECOMMENDED FOR APPROVAL: <i>Matthew J. Vanable</i> 11/10/06 DESIGN ENGINEER DATE	HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100 SURVEY BOOK 62 CONTRACT R-28934	FILE 3783 DESIGNATION 9706580 SHEET 292 PROJECT STP/097-9(005)
			DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.		

11-10-06 AT 07:23  
 -50'x374"  
 F:\17281\AUTOCAD\ROAD\17281R450.dwg

BFS NO. 3783.07



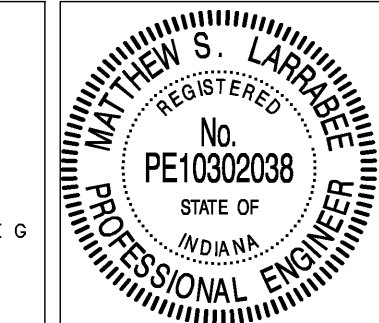




8450 WESTFIELD BLVD., SUITE 300  
 INDIANAPOLIS, IN. 46240  
 317 313-4815  
 FAX 317 313-4516

**Butler Fairman Seuffert**  
 CIVIL ENGINEERS

509 WEST BATH DRIVE, SUITE G  
 MERRILLVILLE, IN. 46410  
 219 769-2333  
 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.  
 CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

**LINE "A"  
 STATE ROAD 37  
 PLAN & PROFILE**

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	64 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

B.M. #47 RR Spike in Wood Corner Post  
 520m North of S.R. 26 on S.R. 37, El. 268.384m

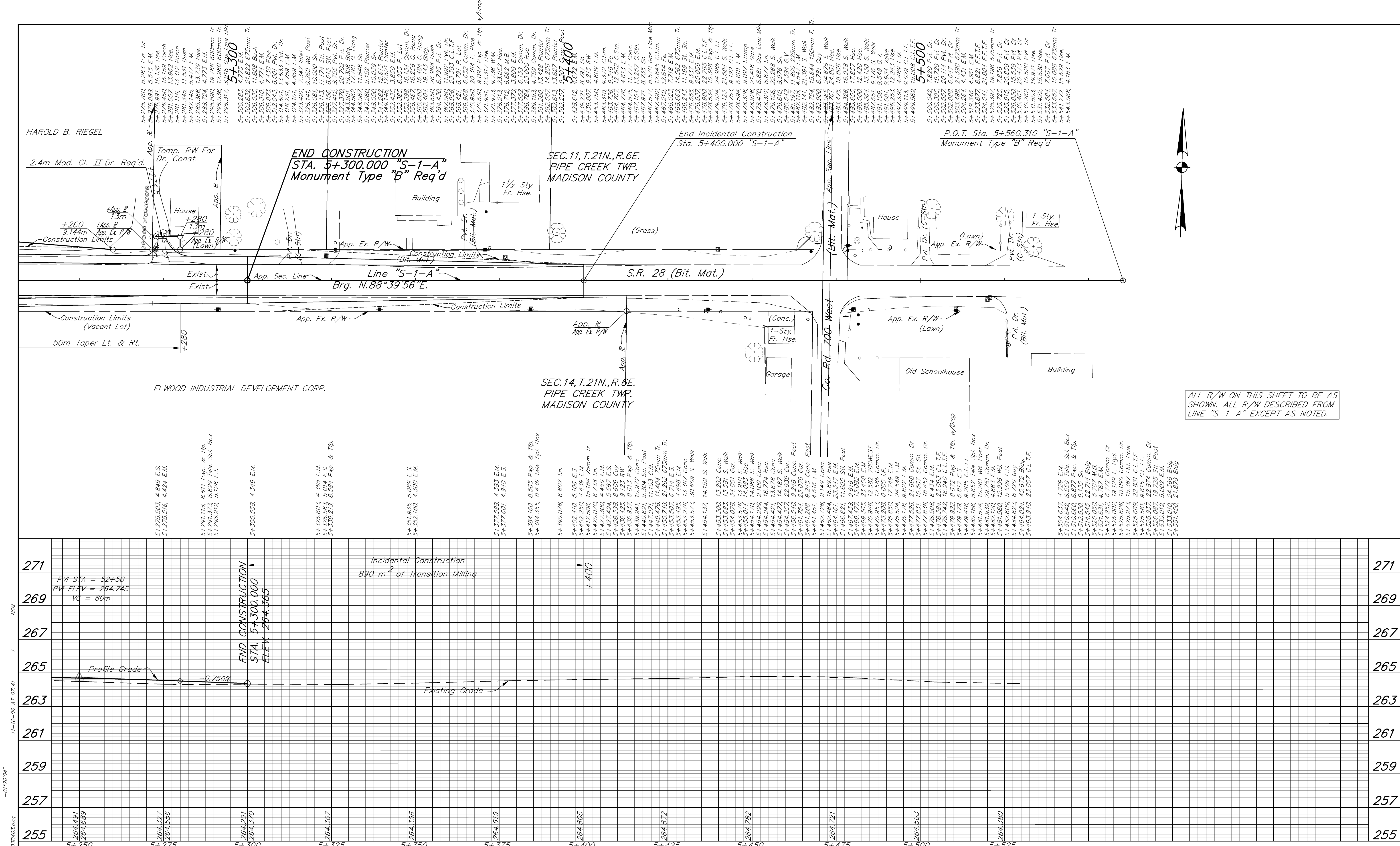
11-10-06 AT 07:24  
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 NSM



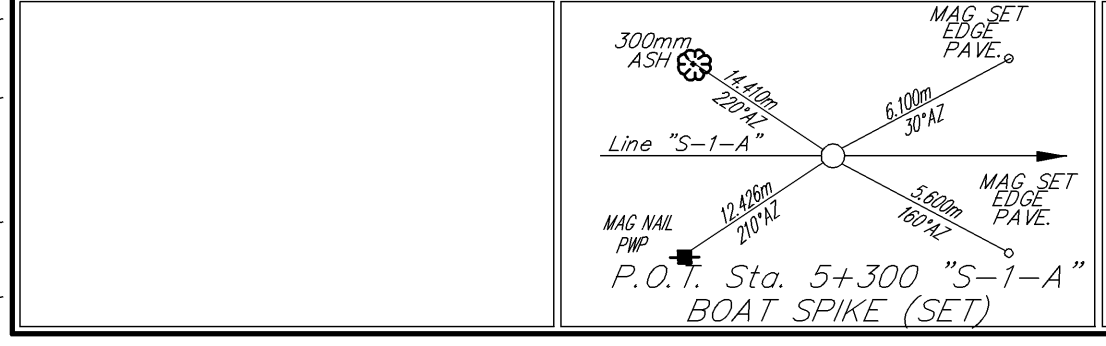
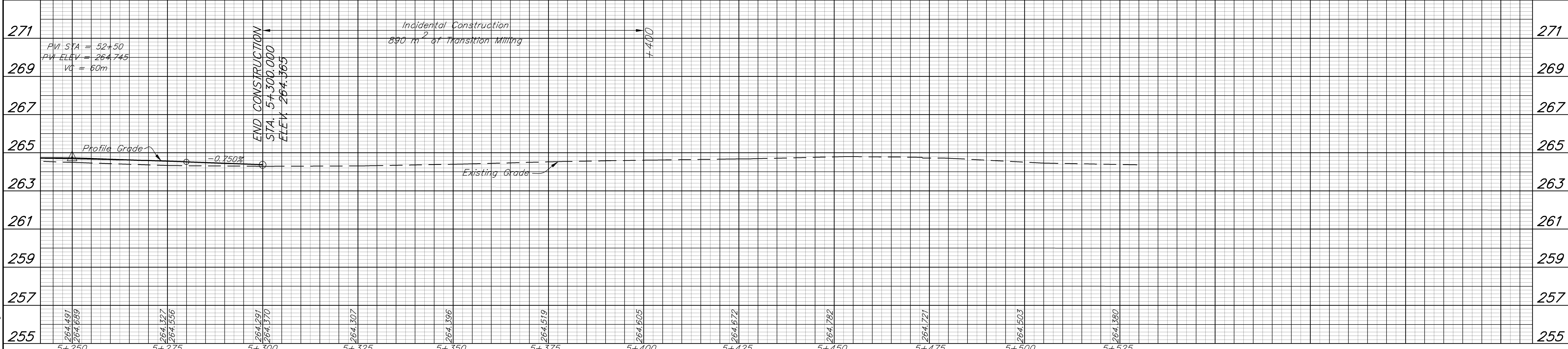








ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "S-1-A" EXCEPT AS NOTED.



**REGISTERED PROFESSIONAL ENGINEER**  
 No. PE10302038  
 STATE OF INDIANA  
 MATTHEW S. LARSEN

**Butler Fairman Seuffert CIVIL ENGINEERS**  
 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240  
 317 713-4515  
 FAX 317 713-4516

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: J.B. DRAWN: G.N.  
 CHECKED: B.Z. CHECKED: J.B.

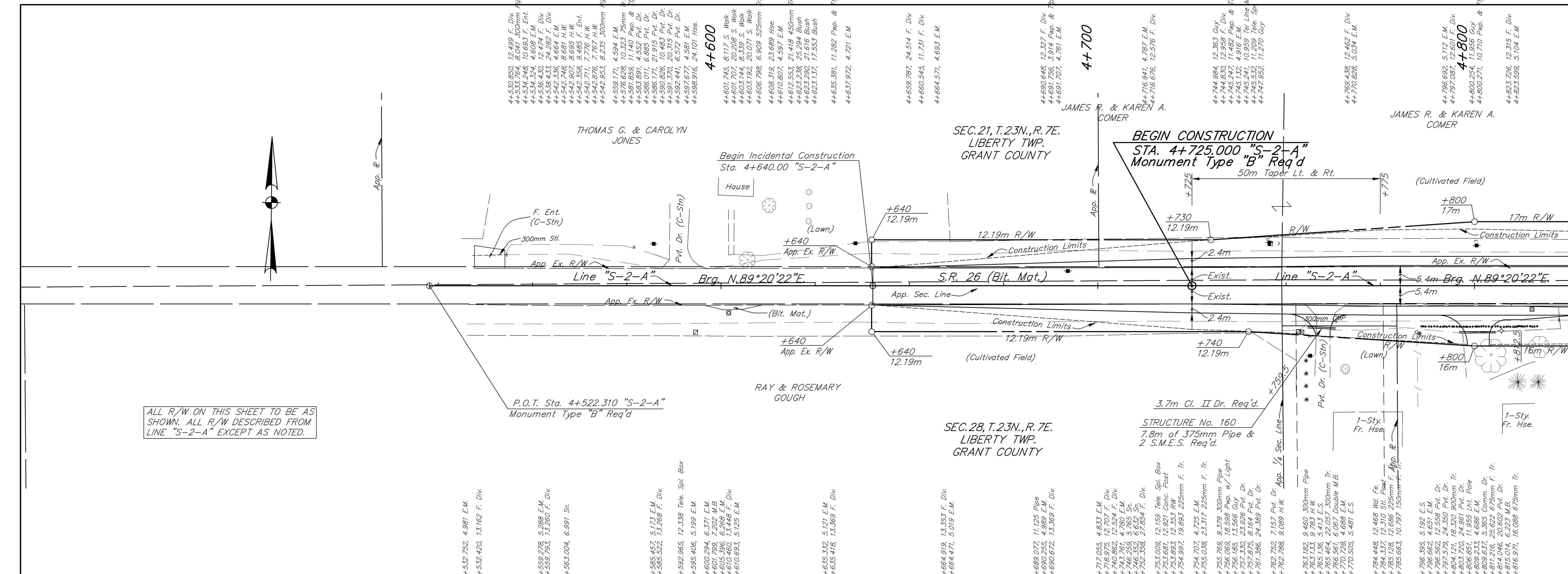
INDIANA DEPARTMENT OF TRANSPORTATION  
**LINE "S-1-A" STATE ROAD 28 PLAN & PROFILE**

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	67 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

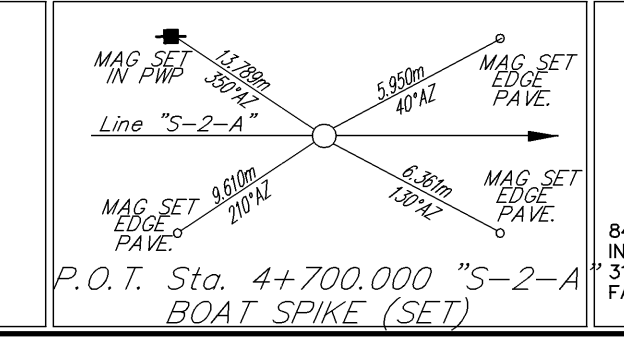
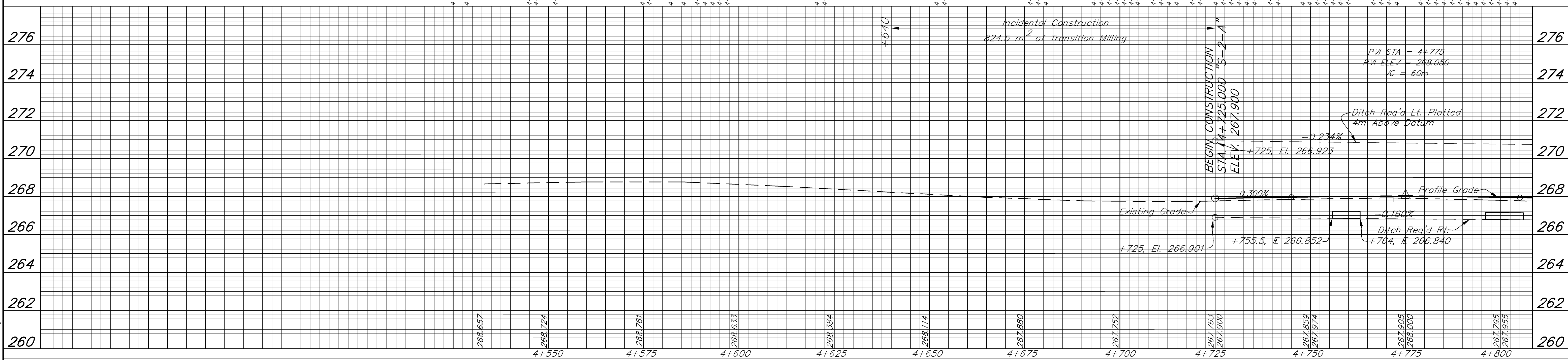
-01'20'04"  
 I:\28\1\AUTOCAD\ROAD\1728\FR463.dwg  
 11-10-06 AT 07:41  
 NSM

11-10-06 AT 07:41

NSM



ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "S-2-A" EXCEPT AS NOTED.



**BFS**  
Butler Fairman Seuffert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN 46240  
317 713-4815 FAX 317 713-4816

509 WEST BATH DRIVE, SUITE G MERRILLVILLE, IN 46410  
219 769-2333 FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
WALTER S. LARRIDGE

RECOMMENDED FOR APPROVAL: *Matthew J. Vanuys* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: G.N.  
CHECKED: B.Z. CHECKED: J.B.

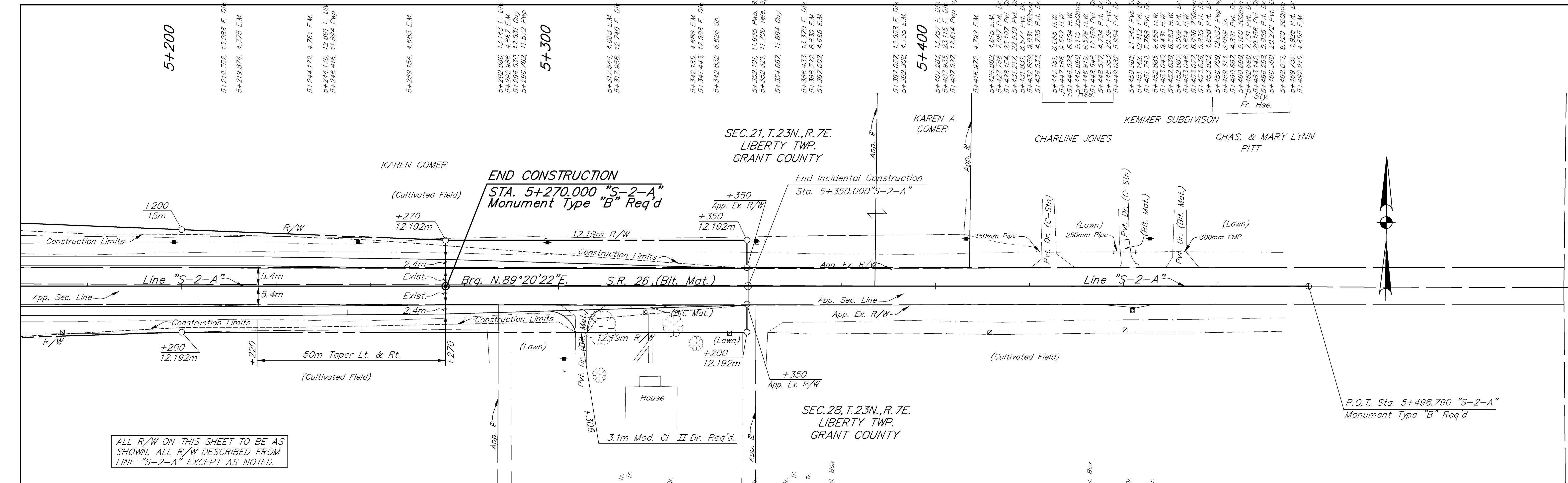
INDIANA DEPARTMENT OF TRANSPORTATION  
LINE "S-2-A"  
STATE ROAD 26  
PLAN & PROFILE

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

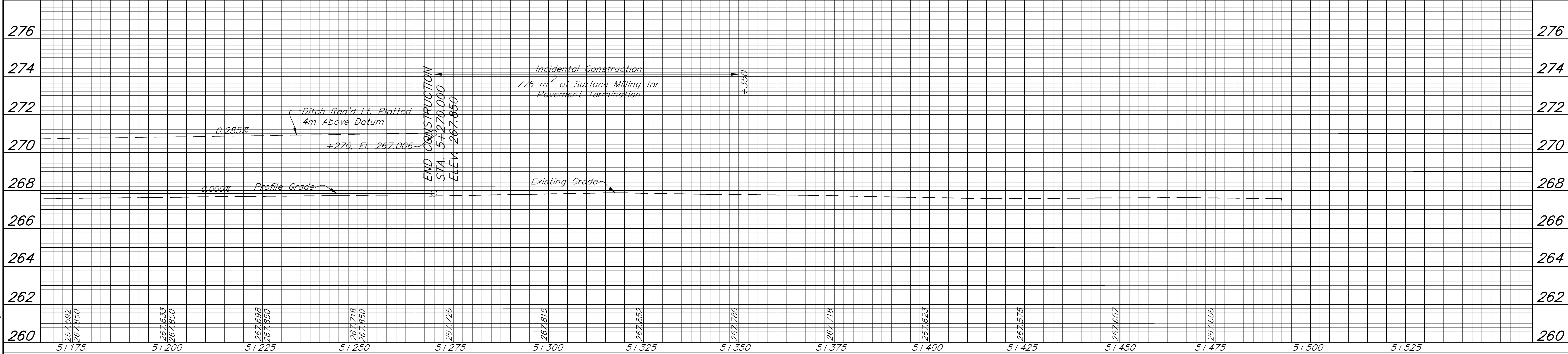






ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "S-2-A" EXCEPT AS NOTED.

5+219.926, 4.960 E.S.  
 5+220.110, 11.800 F. Div.  
 5+243.605, 7.773 Sp.  
 5+243.632, 6.419 Sn.  
 5+244.101, 11.636 F. Div.  
 5+244.230, 4.943 E.M.  
 5+268.967, 11.512 F. Div.  
 5+268.951, 4.965 E.M.  
 5+280.771, 11.591 F. Div.  
 5+281.328, 20.317 F. Div.  
 5+293.082, 4.988 E.M.  
 5+300.387, 5.053 E.M.  
 5+301.150, 19.234 Pwp.  
 5+301.487, 22.460 Cuy.  
 5+304.171, 7.902 Pvt. Dr.  
 5+304.305, 20.873 Pvt. Dr.  
 5+307.177, 13.303 Pvt. Dr.  
 5+308.405, 9.007 Pvt. Dr.  
 5+317.017, 10.700 900mm Tr.  
 5+310.643, 23.485 450mm Tr.  
 5+312.277, 5.099 Pvt. Dr.  
 5+317.327, 36.718 Hse.  
 5+317.515, 26.712 Hse.  
 5+318.769, 5.102 E.M.  
 5+319.059, 19.869 Comm. Dr.  
 5+320.131, 10.906 Comm. Dr.  
 5+321.264, 23.959 Porch.  
 5+321.234, 26.664 Hse.  
 5+320.598, 19.862 S. Walk  
 5+322.895, 6.869 M.B.  
 5+323.694, 7.339 S. Walk  
 5+323.655, 15.963 S. Walk  
 5+323.583, 20.333 S. Walk  
 5+324.507, 7.128 S. Walk  
 5+325.097, 6.117 Comm. Dr.  
 5+324.574, 20.371 S. Walk  
 5+326.953, 26.600 Hse.  
 5+329.131, 10.906 Comm. Dr.  
 5+330.296, 10.309 675mm Tr.  
 5+331.226, 26.239 Hse.  
 5+336.312, 15.105 450mm Tr.  
 5+342.352, 5.030 E.M.  
 5+345.099, 12.449 Tele. Spl. Box  
 5+354.721, 21.879 F. Div.  
 5+356.226, 12.242 F. Div.  
 5+368.094, 12.884 F. Div.  
 5+366.996, 5.078 E.M.  
 5+392.253, 4.995 E.M.  
 5+392.506, 12.449 F. Div.  
 5+414.160, 12.242 RW  
 5+417.250, 4.903 E.M.  
 5+417.296, 12.829 F. Div.  
 5+442.876, 12.468 F. Div.  
 5+442.436, 4.835 E.M.  
 5+443.790, 4.865 E.M.  
 5+450.083, 11.602 Tele. Spl. Box  
 5+452.107, 6.470 M.B.  
 5+453.120, 5.746 Comm. Dr.  
 5+457.181, 4.891 Comm. Dr.  
 5+467.614, 4.815 E.M.  
 5+467.423, 12.419 F. Div.  
 5+491.988, 11.937 F. Div.  
 5+492.421, 4.823 E.M.

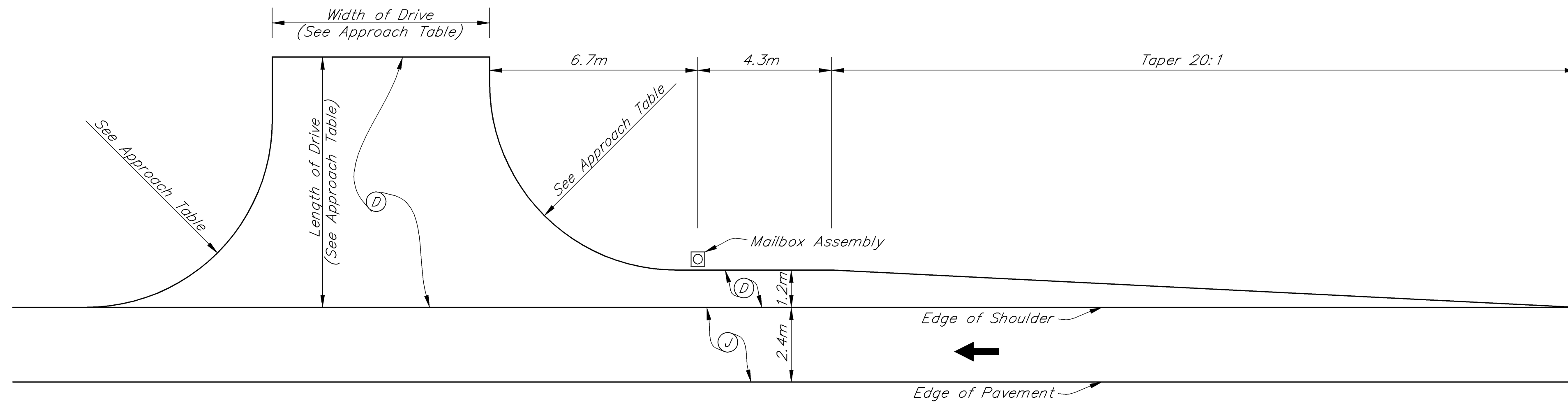


	<p>8450 WESTFIELD BLVD., SUITE 300        INDIANAPOLIS, IN. 46240        317 713-4815        FAX 317 713-4816</p>		RECOMMENDED FOR APPROVAL: <i>Matthew J. Vanable</i> 11/10/06 DESIGN ENGINEER DATE	HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100 SURVEY BOOK SHEET 70 OF 292 CONTRACT PROJECT R-28934 STP/097-9(005)
			DESIGNED: J.B. DRAWN: G.N. CHECKED: B.Z. CHECKED: J.B.	

11-10-06 AT 07:43  
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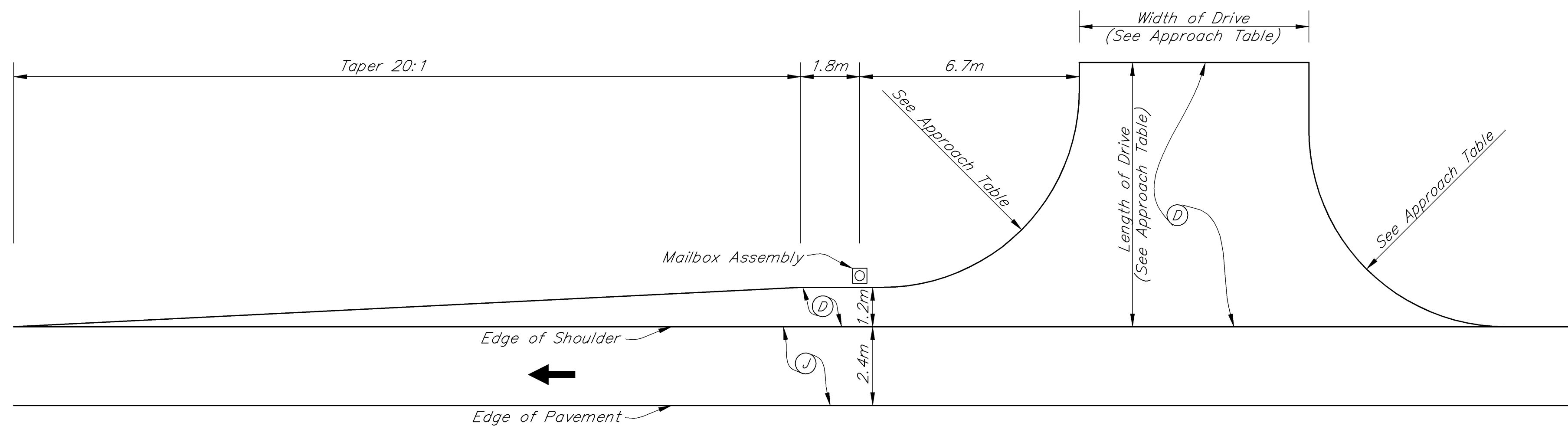
BFS NO. 3783.07





**CLASS II & CLASS IV DRIVES W/INGRESS MAILBOX APPROACH**

SCALE = 1:100

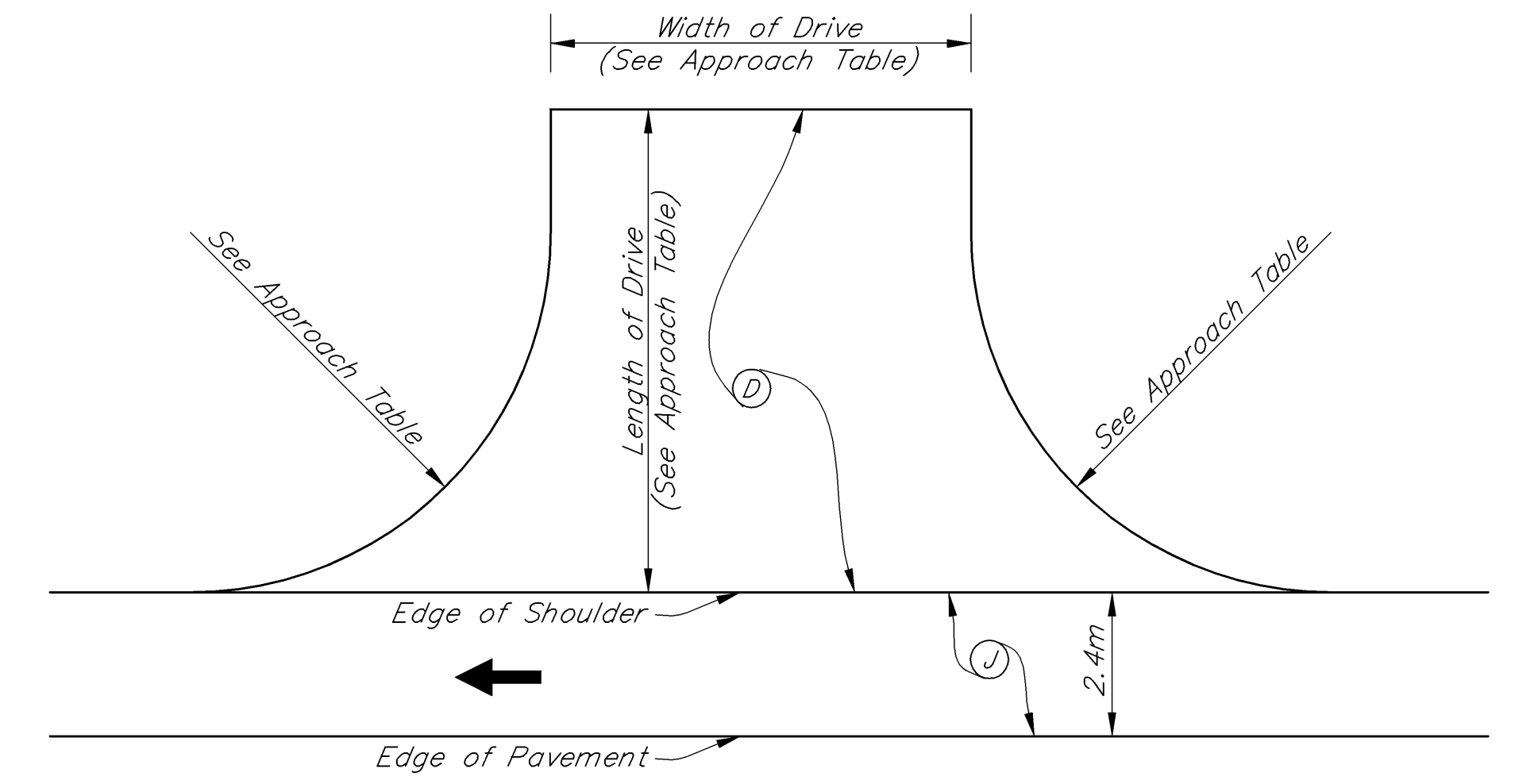


**CLASS II & CLASS IV DRIVES W/EGRESS MAILBOX APPROACH**

SCALE = 1:100

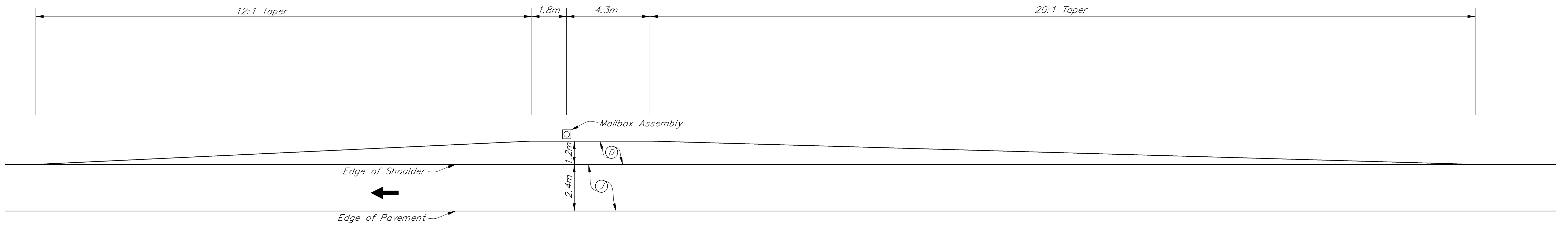
**LEGEND**

- ⓓ HMA FOR APPROACHES, TYPE A  
90 kg/m<sup>2</sup> HMA, SURFACE, TYPE A  
150 kg/m<sup>2</sup> HMA, INTERMEDIATE, TYPE A  
200mm COMPACTED AGGREGATE BASE
- Ⓧ 90 kg/m<sup>2</sup> QC/QA HMA, 1, 64, SURFACE 9.5mm  
270 kg/m<sup>2</sup> QC/QA HMA, 1, 64, BASE 25.0mm  
150mm COMPACTED AGGREGATE No. 53 BASE



**CLASS II & CLASS IV DRIVES**

SCALE = 1:100

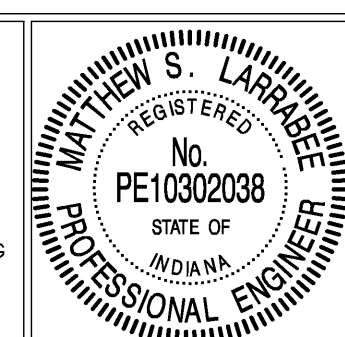


**MAILBOX APPROACH**

SCALE = 1:100

11-10-06 AT 07:43

**BFS**  
Butler Fairman Scufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 733-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377

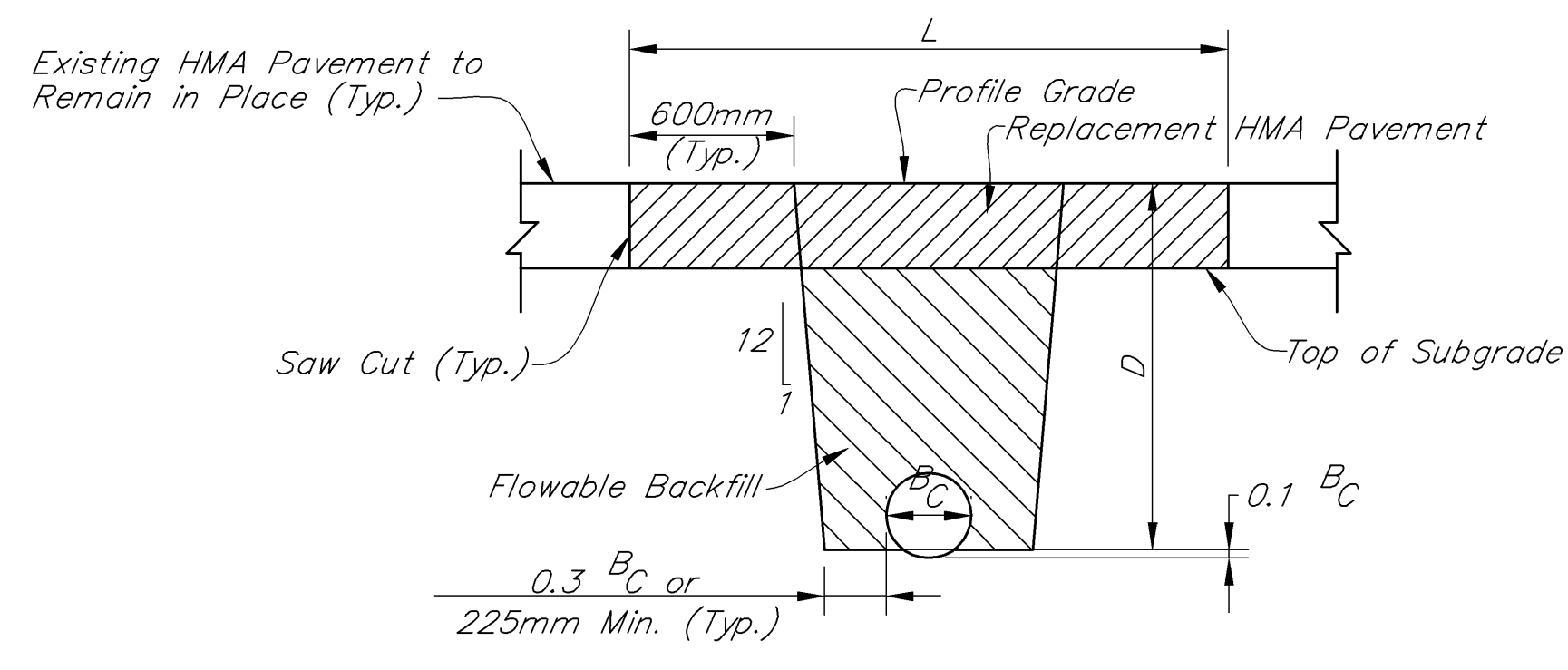


RECOMMENDED FOR APPROVAL:	<i>Matthew S. Larrabee</i>	11/10/06
DESIGNED:	B.K.M.	DRAWN: M.S.S.
CHECKED:	M.S.L.	CHECKED: B.K.M.

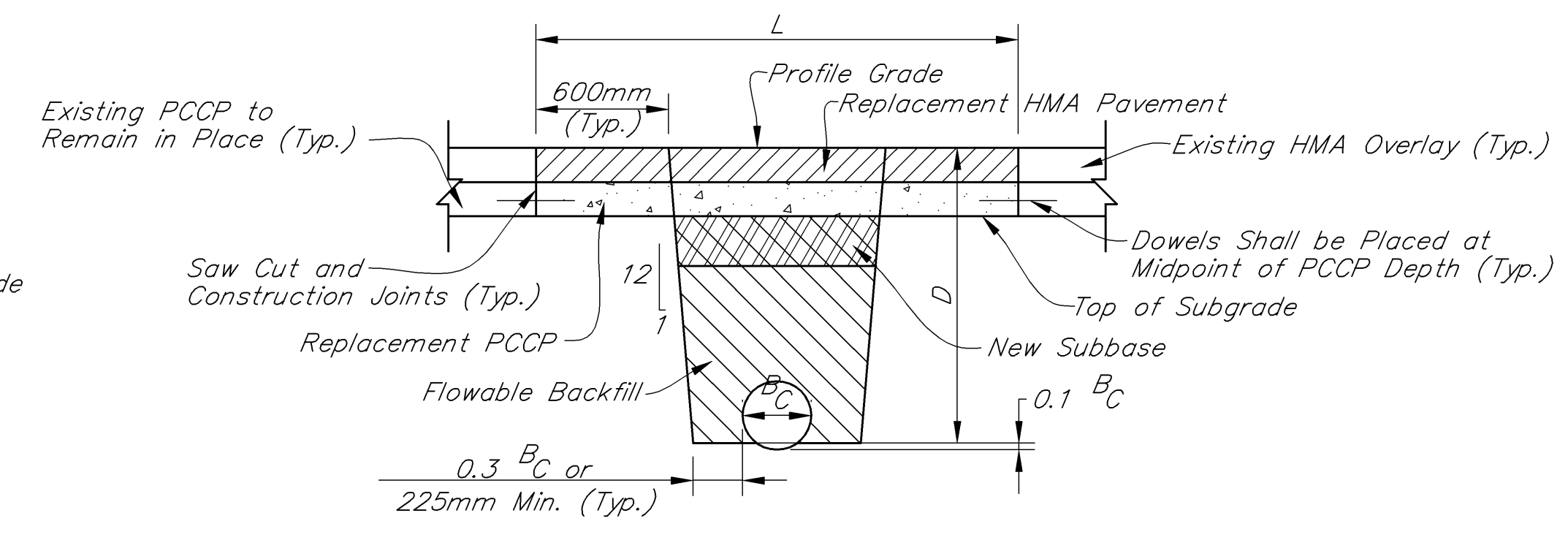
INDIANA DEPARTMENT OF TRANSPORTATION  
MISCELLANEOUS DETAILS  
S.R. 37

HORIZONTAL SCALE	AS NOTED	FILE	3783
VERTICAL SCALE	AS NOTED	DESIGNATION	9706580
SURVEY BOOK		SHEET	71 OF 292
CONTRACT	R-28934	PROJECT	STP/097-9(005)

BFS NO. 3783.07

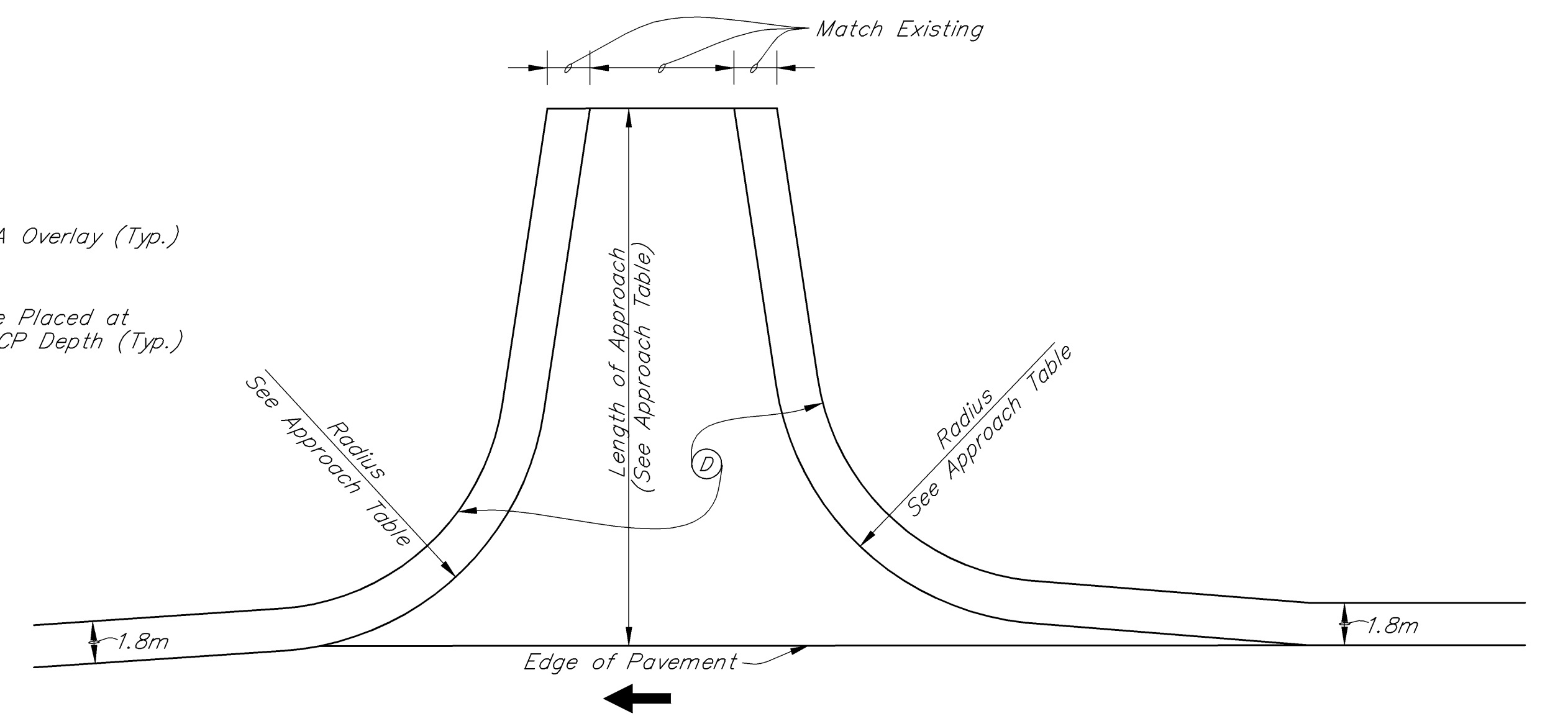


**HMA REPLACEMENT PAVEMENT**  
Not to Scale



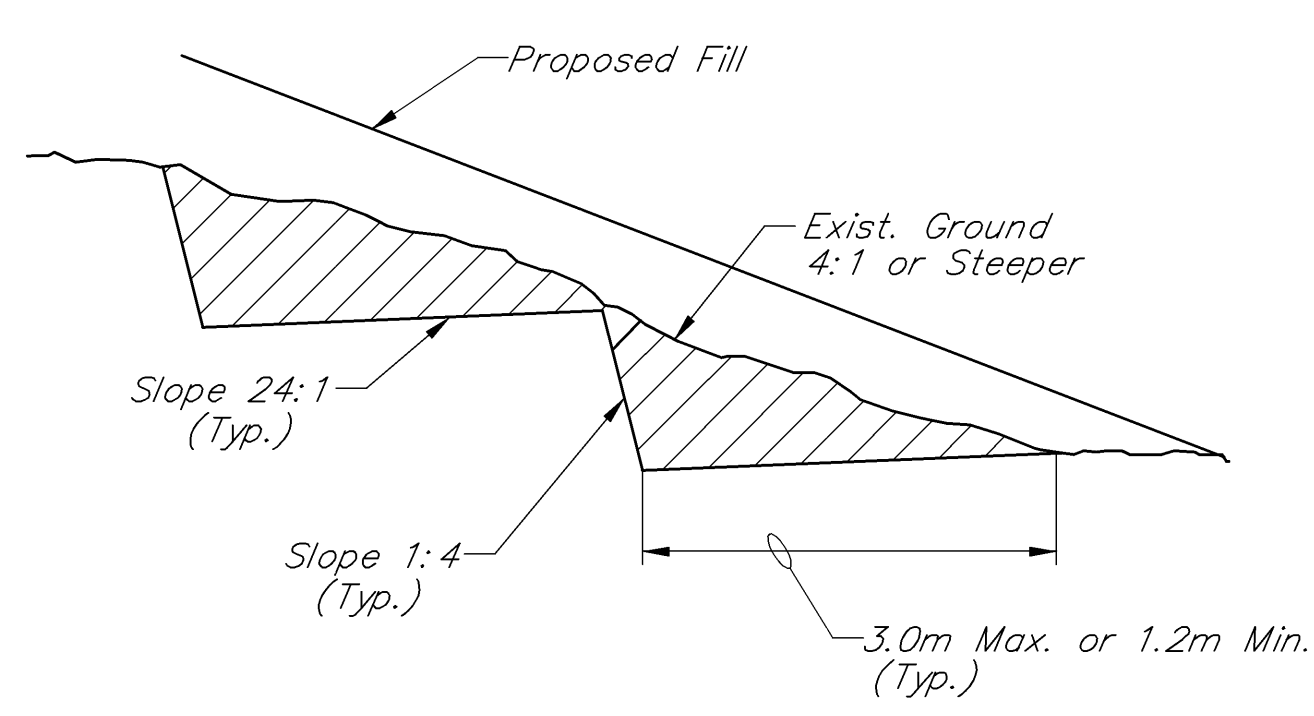
**COMPOSITE REPLACEMENT PAVEMENT**  
Not to Scale

L = Longitudinal Pay Limits of Pavement Removal and Pavement Replacement  
 $B_c$  = Inside Diameter  
 D = Vertical Distance From Flowline to Profile Grade

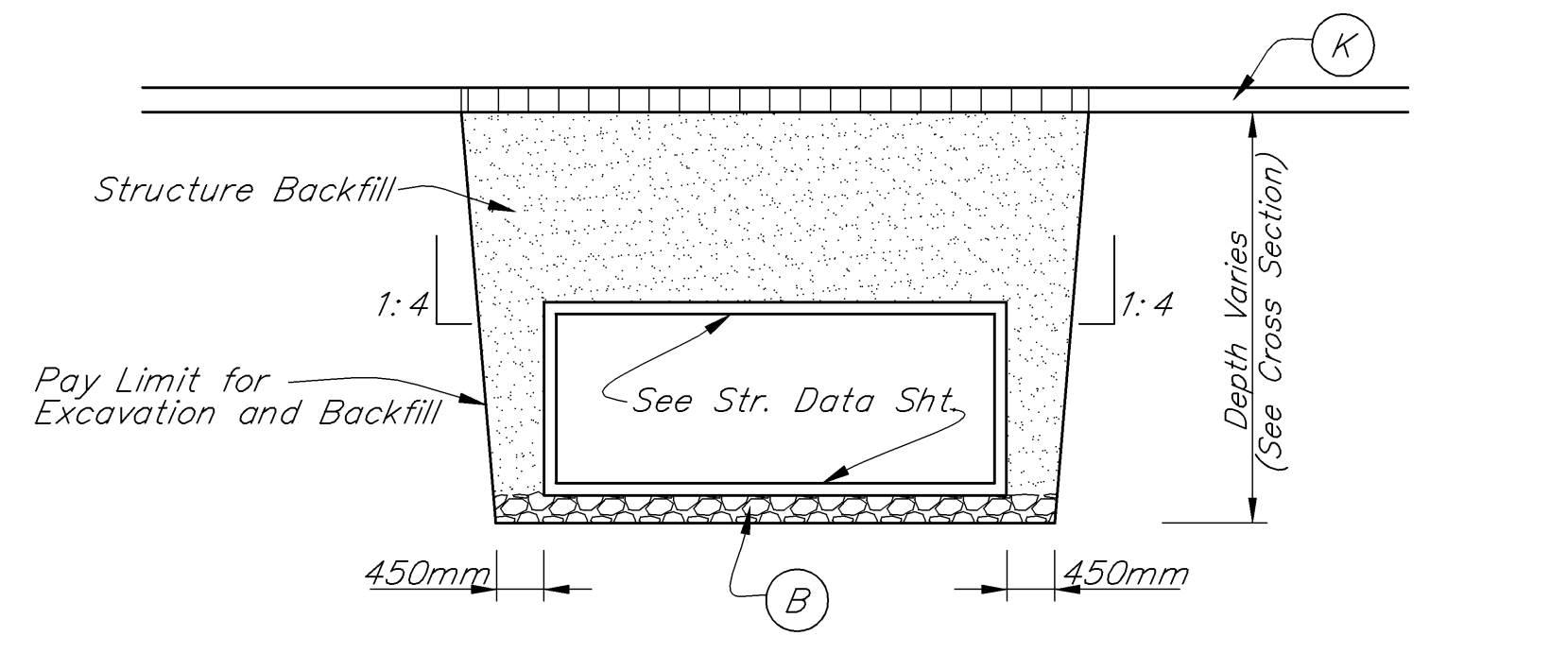


**MODIFIED PUBLIC ROAD APPROACH**  
**TYPE "C"**  
Not to Scale

Ⓓ HMA FOR APPROACHES, TYPE A  
 90 kg/m<sup>2</sup> HMA, SURFACE, TYPE A  
 150 kg/m<sup>2</sup> HMA, INTERMEDIATE, TYPE A  
 200mm COMPACTED AGGREGATE BASE

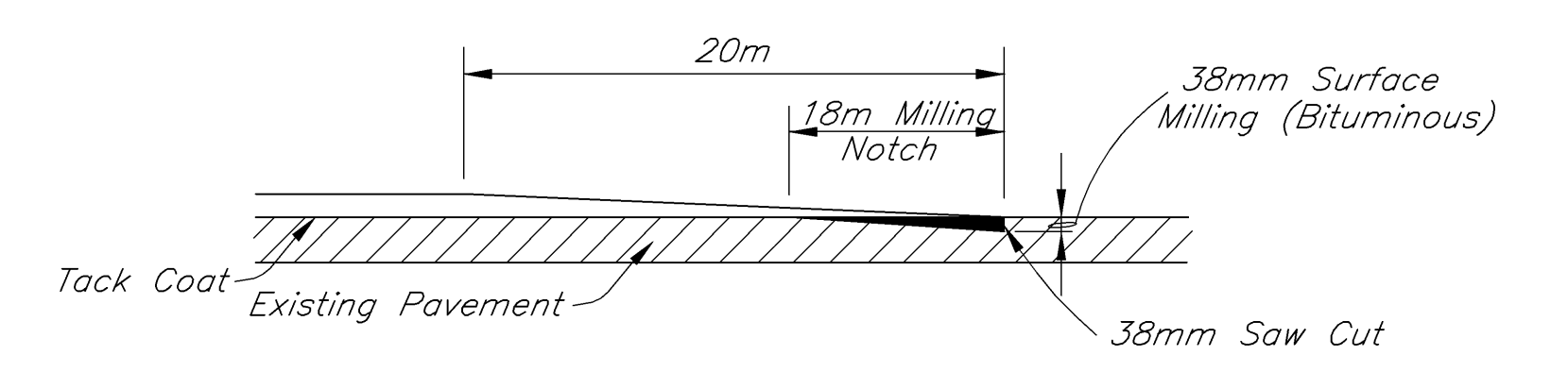


**TYPICAL BENCHING DETAIL**  
Not to Scale



**TYPICAL TRENCH DETAIL FOR BOX CULVERT INSTALLATION**  
Not to Scale

Ⓑ Aggregate, No. 2  
 Aggregate, No. 8



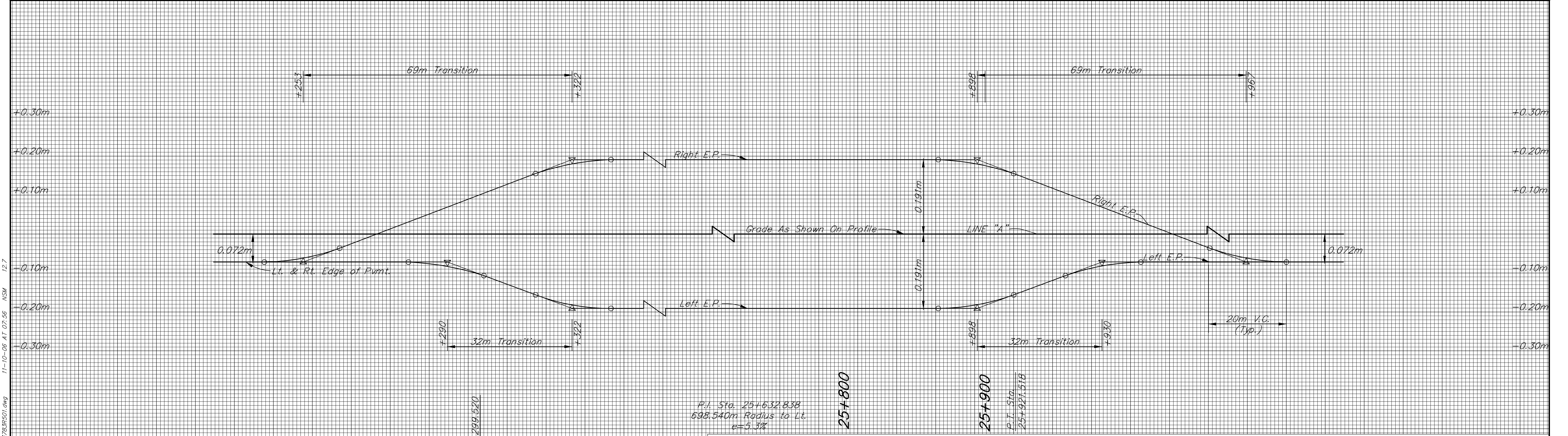
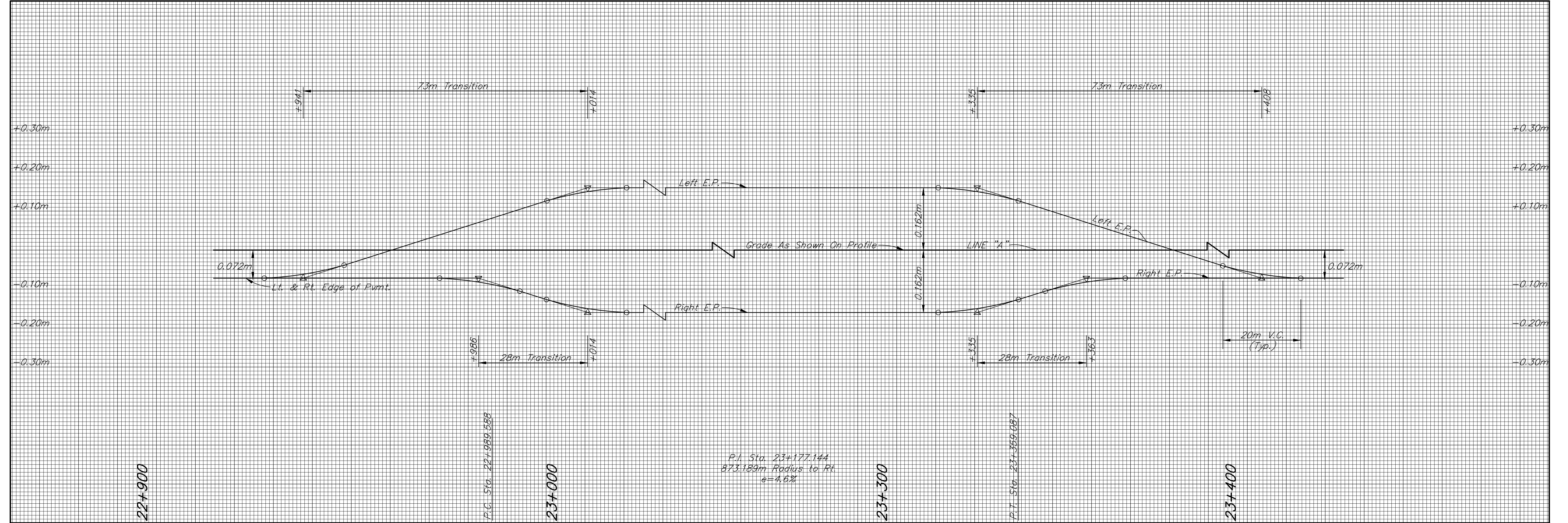
**PAVEMENT TERMINATION DETAIL**  
Not to Scale

NSM  
 I  
 11-10-06 AT 07:43  
 F:\17281\AUTOCAD\ROAD\17281R480.dwg

 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 715-4615 FAX 317 715-4616 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377		RECOMMENDED FOR APPROVAL: <i>Matthew J. Anaker</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION MISCELLANEOUS DETAILS S.R. 37	HORIZONTAL SCALE AS NOTED	FILE 3783
		DESIGNED: B.K.M. DRAWN: M.S.S. CHECKED: M.S.L. CHECKED: B.K.M.		VERTICAL SCALE AS NOTED DESIGNATION 9706580 SURVEY BOOK SHEET 72 OF 292 CONTRACT PROJECT R-28934 STP/097-9(005)	

BFS NO. 3783.07





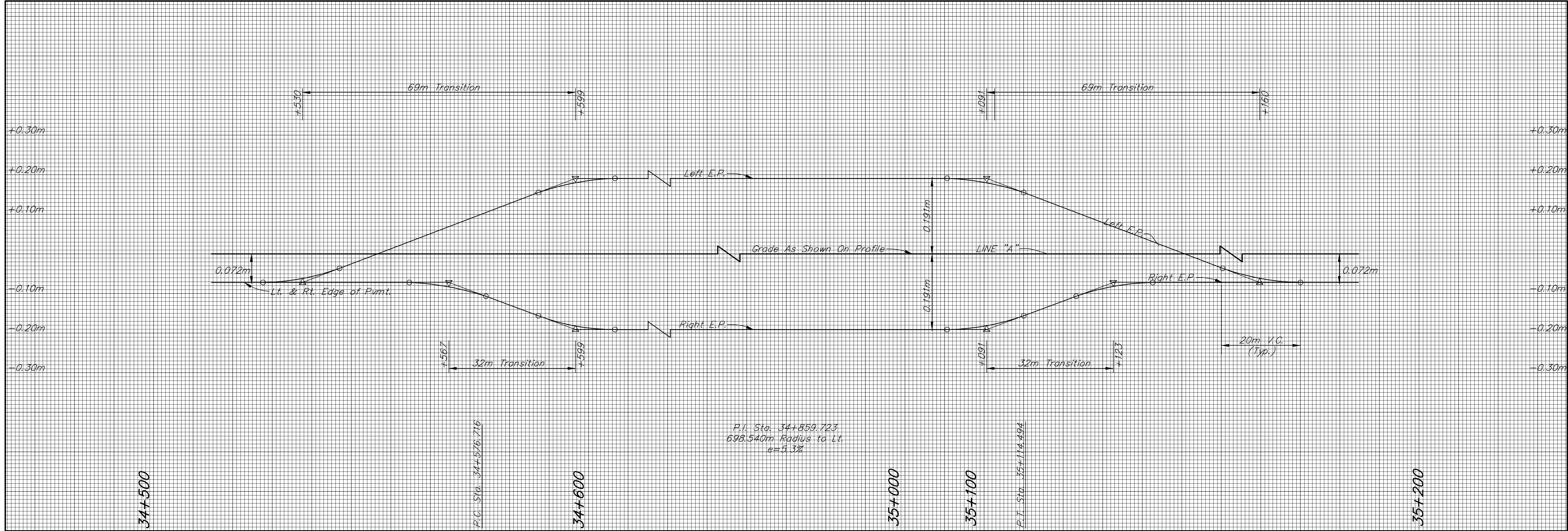
R:\3783\AUTOCAD\ROAD\3783R501.dwg 11-10-06 AT 07:56 NSM 12.7

	RECOMMENDED FOR APPROVAL	<i>Matthew Larrabee</i> 11/10/06	DATE
	DESIGNED:	J.B.	DRAWN: M.S.S.
	CHECKED:	B.Z.	CHECKED: J.B.
	P.I. Sta. 25+632.838 698.540m Radius to Lt. e=5.3%		

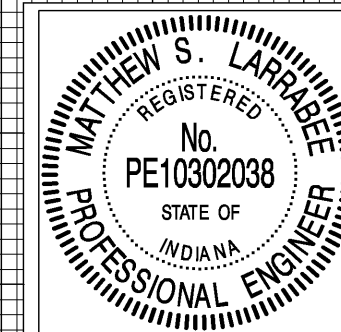
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37  
SUPERELEVATION DIAGRAM

HORIZONTAL SCALE	BRIDGE FILE
1:500	3783.0701
VERTICAL SCALE	DESIGNATION
1:5	9706580
SURVEY BOOK	SHEET
	73 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)



R:\3783\AUTOCAD\ROAD\3783R502.dwg 11-10-06 AT 07:58 NSM 12.7



RECOMMENDED FOR APPROVAL	<i>Matthew Larrabee</i> 11/10/06	
DESIGNED:	J.B.	DRAWN: M.S.S.
CHECKED:	B.Z.	CHECKED: J.B.

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37  
 SUPERELEVATION DIAGRAM

HORIZONTAL SCALE	BRIDGE FILE
1:500	3783.0701
VERTICAL SCALE	DESIGNATION
1:5	9706580
SURVEY BOOK	SHEET
	74 OF 292
CONTRACT	PROJECT
R-28934	STP/997-9(005)



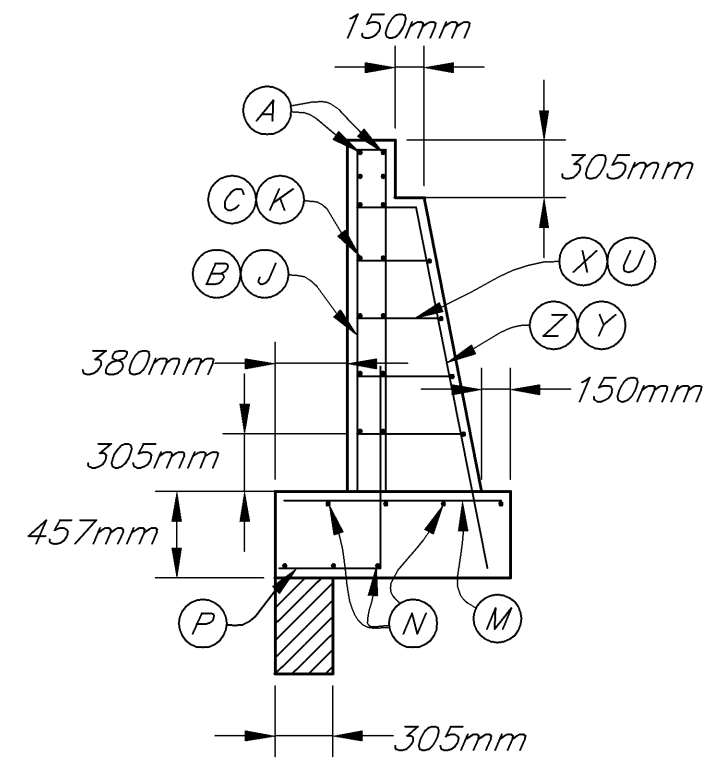
NOTES

1. For Dimensions, Quantities, and Bill of Reinforcement see below.
2. Dimensions from face of concrete to steel shall be 2" clear distance.
3. Encircled letters, ( ), indicate steel bar locations.
4. Bars (C), (G), (K), (V), (W), are spaced 1'-0" O.C. All other bars shall be evenly spaced.
5. Bars (V) and (W) are placed in order of increasing lengths, beginning at the end of each wing.
6. Bars (C) and (K) are placed in order of increasing lengths, beginning at the end of each wing.
7. Headwalls located at edge of shoulders shall be parallel to centerline of the road.
8. Limits of Apron.
9. Paving shall be required and shall be sloped in direction of flow equal to slope of Box. Front face of headwall and ends of wings shall remain vertical.

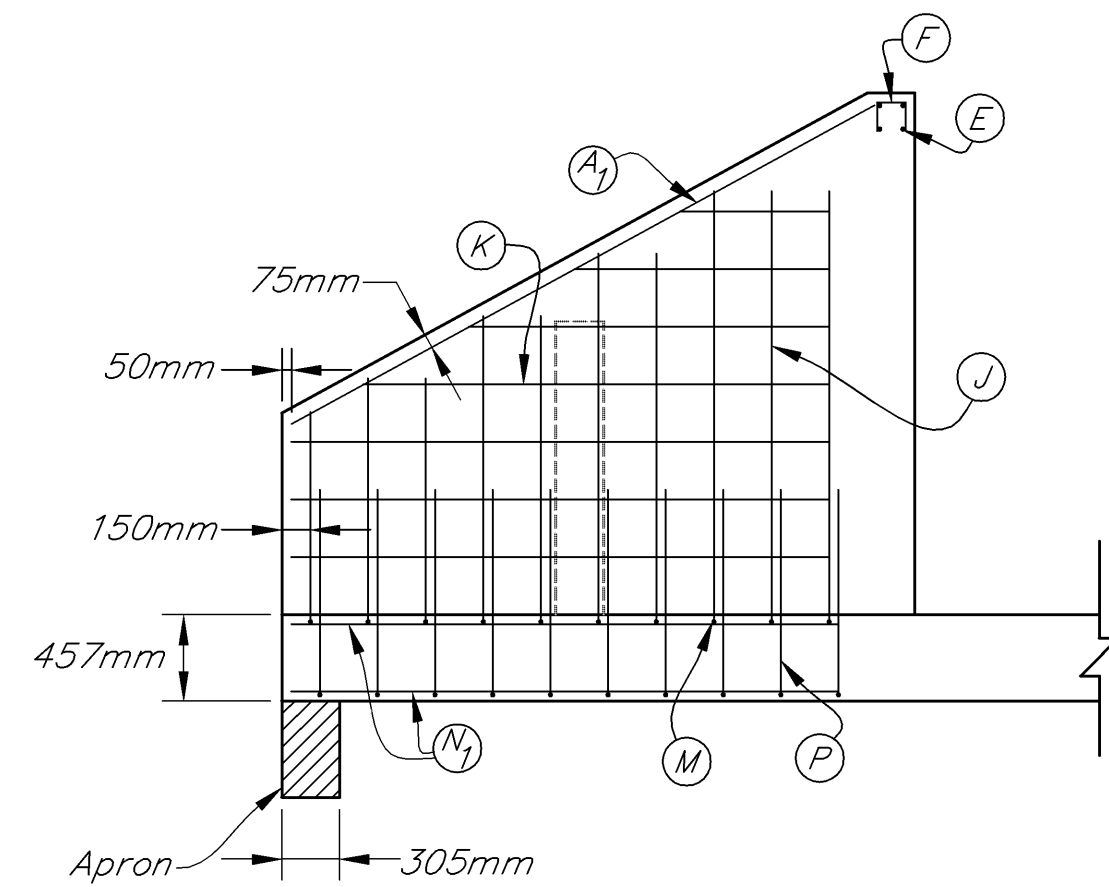
HEADWALL QUANTITIES \*\*

MARKING	SIZE	NO. OF BARS	LENGTH m	K	WEIGHT/LENGTH kg./m	TOTAL WEIGHT kg.	MARKING	SIZE	NO. OF BARS	LENGTH m	K	WEIGHT/LENGTH kg./m	TOTAL WEIGHT kg.
(A)	16	2	3.516		1.552	10.914	(A)	16	2	0.350		1.552	1.086
(B)	16	2	6.191		1.552	19.217	(B)	16	4	0.559		1.552	3.470
(C)	16	6	1.067		1.552	9.306	(C)	16	6	1.016		1.552	9.461
(D)	16	6	1.320		1.552	12.292	(D)	16	6	1.676		1.552	15.607
(E)	16	8	1.575		1.552	19.555	(E)	16	6	2.337		1.552	21.762
(F)	16	6	1.930		1.552	17.972	(F)	16	6	3.048		1.552	28.383
(G)	16	8	2.184		1.552	27.117	(G)	16	4	3.683		1.552	22.864
(H)	16	56	2.540		1.552	220.756	(H)	16	6	4.140		1.552	38.552
(I)	13	2	9.804		0.994	19.490	(I)	16	4	4.826		1.552	29.960
(J)	13	2	10.846		0.994	21.562	(J)	16	6	5.258		1.552	48.962
(K)	13	2	11.938		0.994	23.733	(K)	13	1	0.886	0.366	0.994	0.881
(L)	13	2	13.005		0.994	25.854	(L)	13	1	1.006	0.426	0.994	1.000
(M)	13	6	13.767		0.994	82.106	(M)	13	1	1.126	0.486	0.994	1.119
(N)	16	3	8.332	7.418	1.552	38.794	(N)	13	1	1.246	0.546	0.994	1.239
(O)	16	3	8.608	7.694	1.552	40.079	(O)	13	1	0.886	0.366	0.994	0.881
(P)	13	35	0.450	0.150	0.994	15.656	(P)	13	1	0.982	0.414	0.994	0.976
(Q)	16	2	1.092		1.552	3.390	(Q)	13	1	1.078	0.462	0.994	1.072
(R)	16	4	1.270		1.552	7.884	(R)	13	1	1.174	0.510	0.994	1.167
(S)	16	4	1.600		1.552	9.933	(S)	13	1	1.272	0.559	0.994	1.264
(T)	16	4	1.930		1.552	11.981	(T)	13	1	2.252	1.947	0.994	2.238
(U)	16	6	2.261		1.552	21.054	(U)	13	1	2.632	2.327	0.994	2.616
(V)	13	2	0.787		0.994	1.565							
(W)	13	2	1.346		0.994	2.676							
(X)	13	2	1.905		0.994	3.787							
(Y)	13	2	2.464		0.994	4.898							
(Z)	13	6	2.845		0.994	16.968							
(AA)	13	54	1.145		0.994	61.459							
(AB)	13	8	2.895		0.994	23.021							
(AC)	13	8	13.335		0.994	106.040							
(AD)	16	54	1.600	1.067	1.552	134.093							
(AE)	16	5	5.310		1.552	41.206							
(AF)	16	18	1.220		1.552	34.082							
(AG)	16	2	0.914		1.552	2.837							
(AH)	16	4	1.372		1.552	8.517							
(AI)	16	4	2.261		1.552	14.036							
(AJ)	16	4	3.150		1.552	19.555							
(AK)	16	4	4.064		1.552	25.229							
(AL)	16	4	4.928		1.552	30.593							
(AM)	16	4	5.842		1.552	36.267							
(AN)	16	4	6.731		1.552	41.786							
(AO)	16	4	7.620		1.552	47.305							
						<b>STEEL TOTALS</b>							
(A)	13	144				423.27							
(B)	16	281				1126.49							
						<b>TOTAL</b>							
						Class "A" Concrete	HEADWALL	40.07m <sup>3</sup>					
						Class "A" Concrete	APRON	3.17m <sup>3</sup>					
							<b>TOTAL</b>	43.24m <sup>3</sup>					

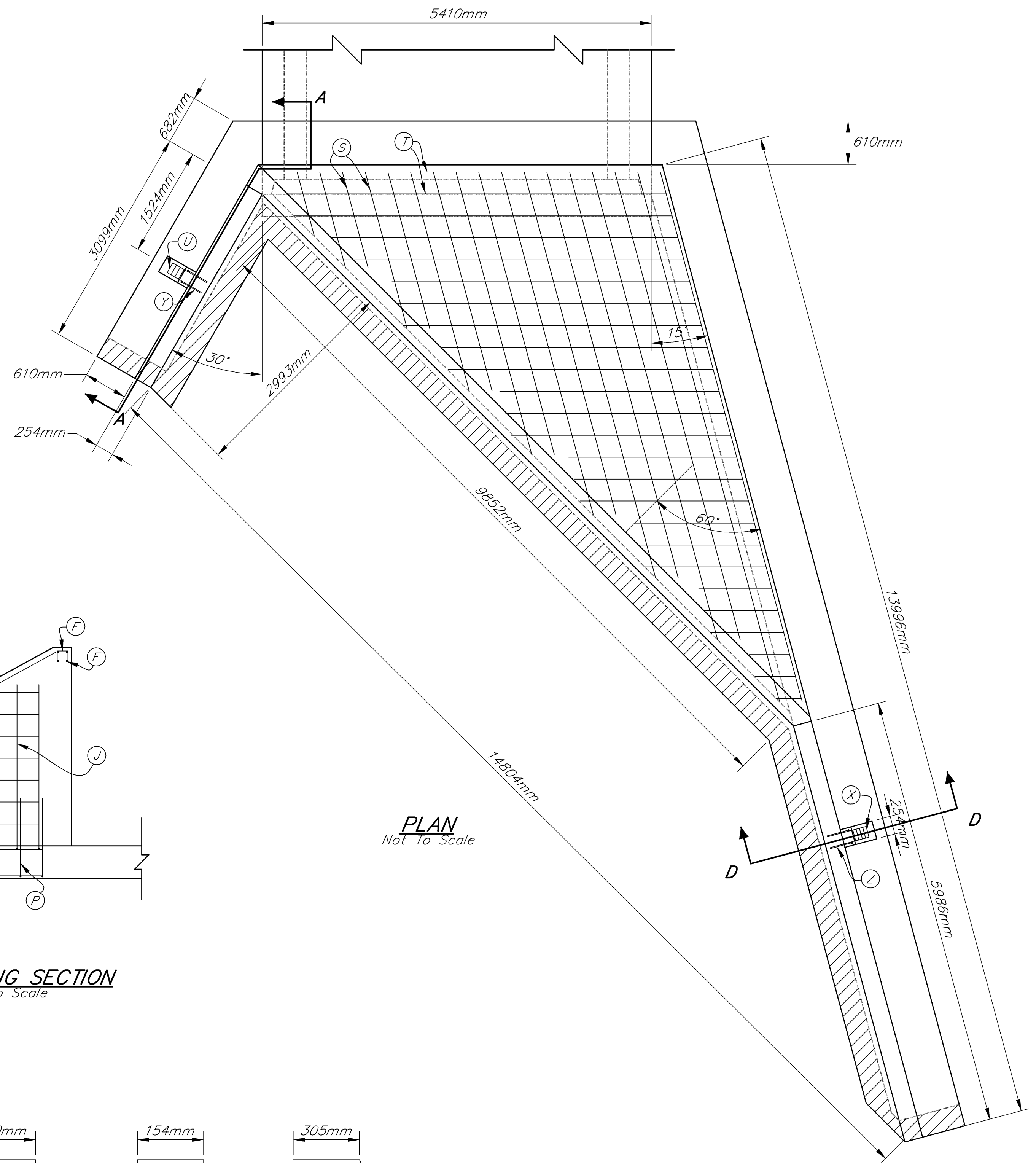
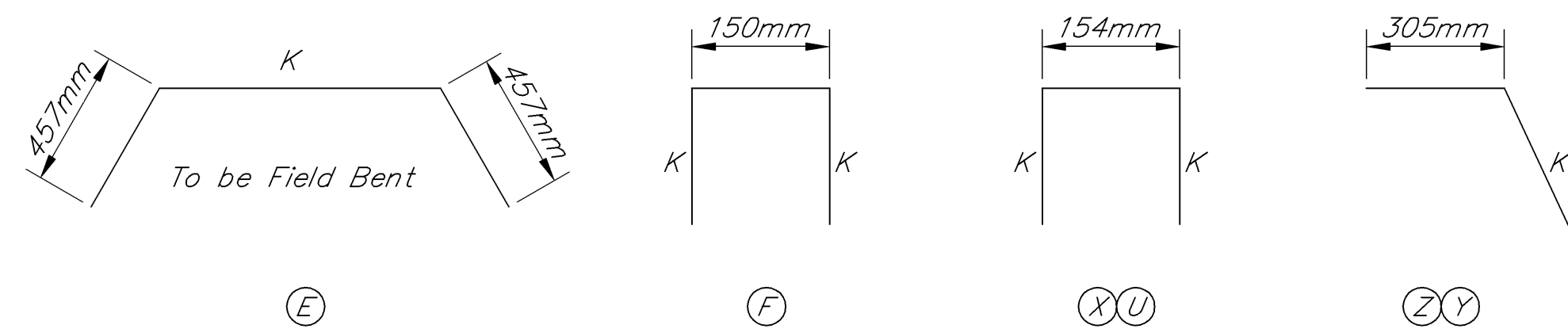
\*\* Quantities are Per Headwall.



SECTION D-D  
Not To Scale



SHORT WING SECTION  
Not To Scale



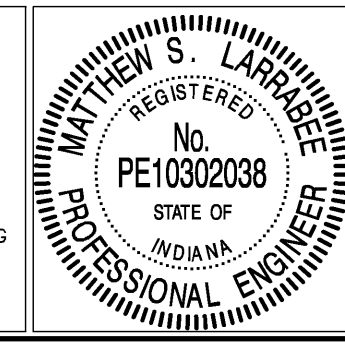
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11-10-06 AT 08:01  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew S. Lahr* 11/10/06  
DESIGN ENGINEER DATE

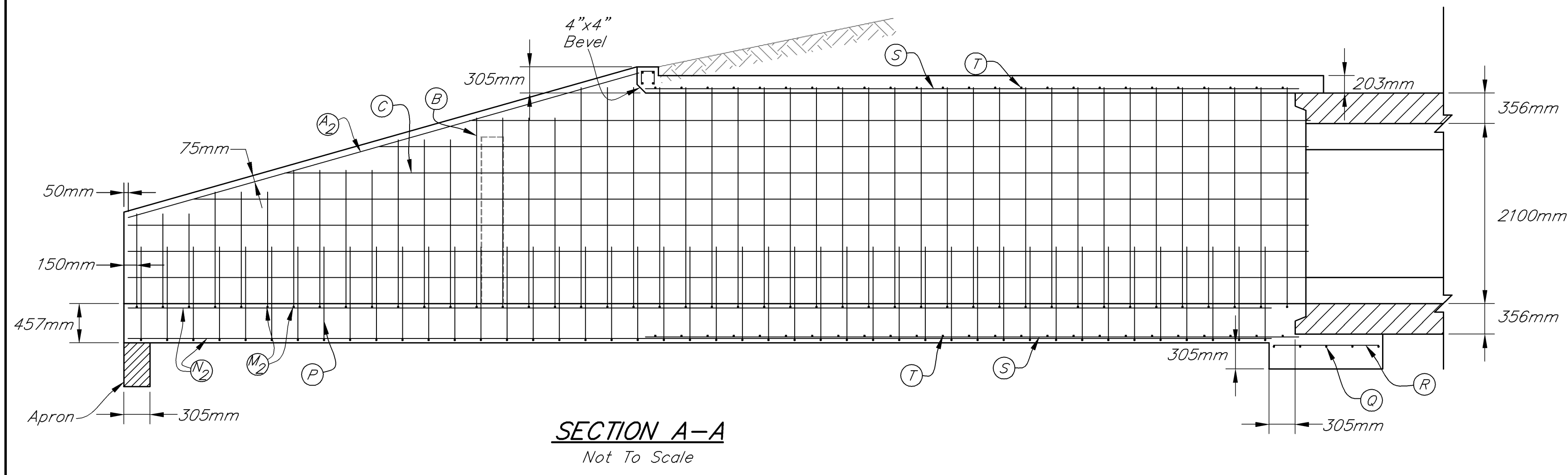
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CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION  
HEADWALL DETAILS  
STRUCTURE 46

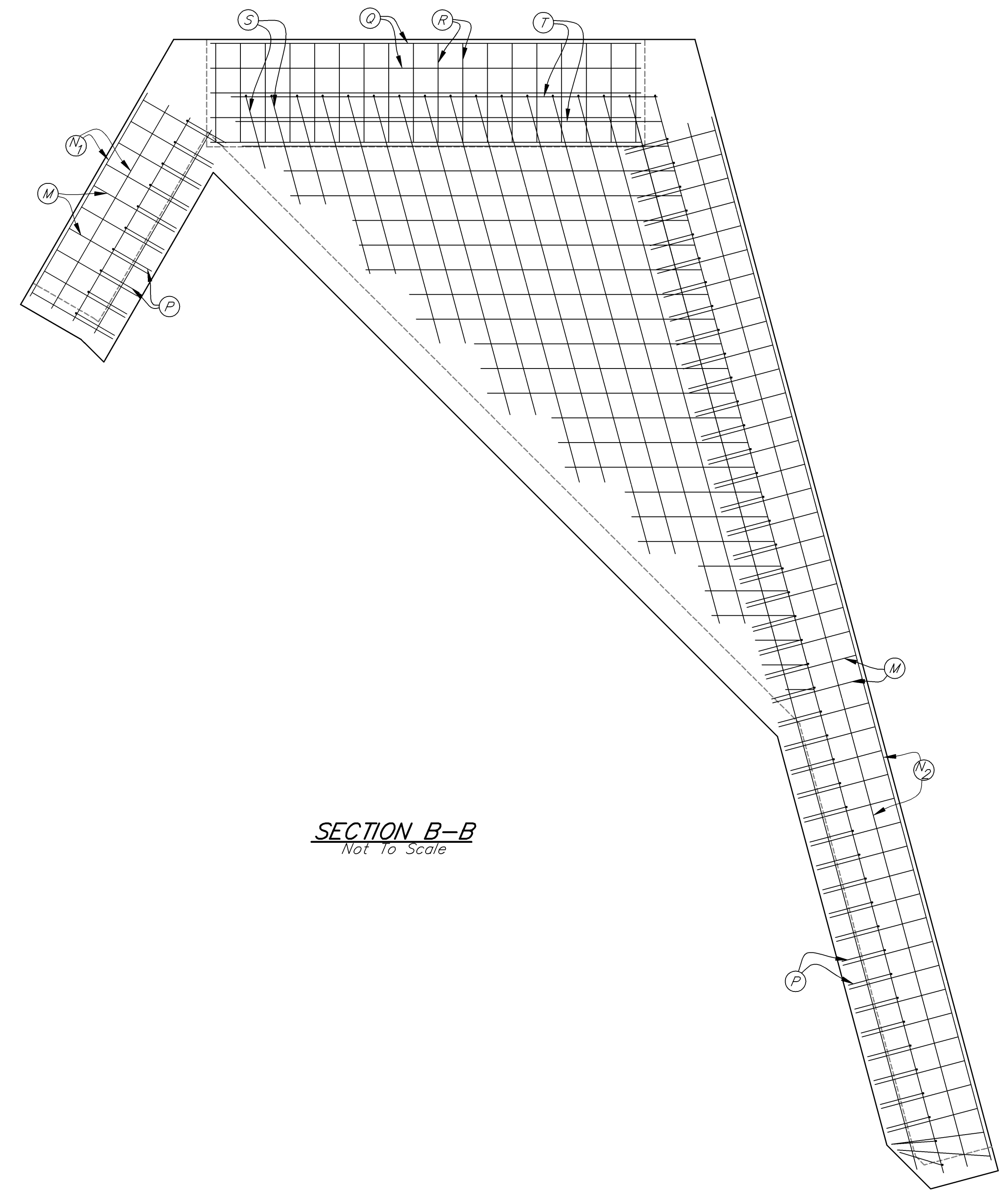
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VERTICAL SCALE	AS NOTED	DESIGNATION	9706580
SURVEY BOOK		SHEET	
		75	OF 292
CONTRACT	R-28934	PROJECT	STP/097-9(005)

BFS NO. 3783.07

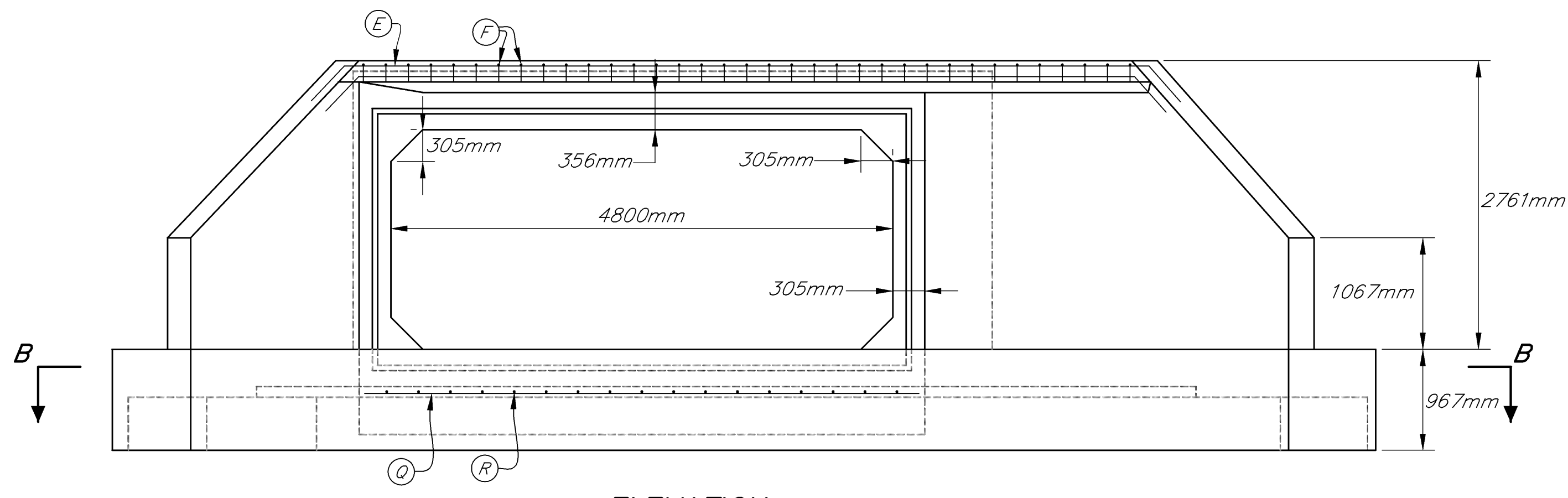
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 11-10-06 AT 08:01  
 NSM



**SECTION A-A**  
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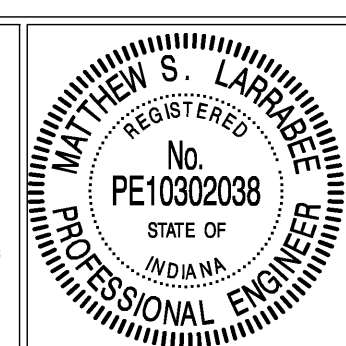


**SECTION B-B**  
Not To Scale



**ELEVATION**  
Not To Scale

**BF&S**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615  
 FAX 317 713-4616



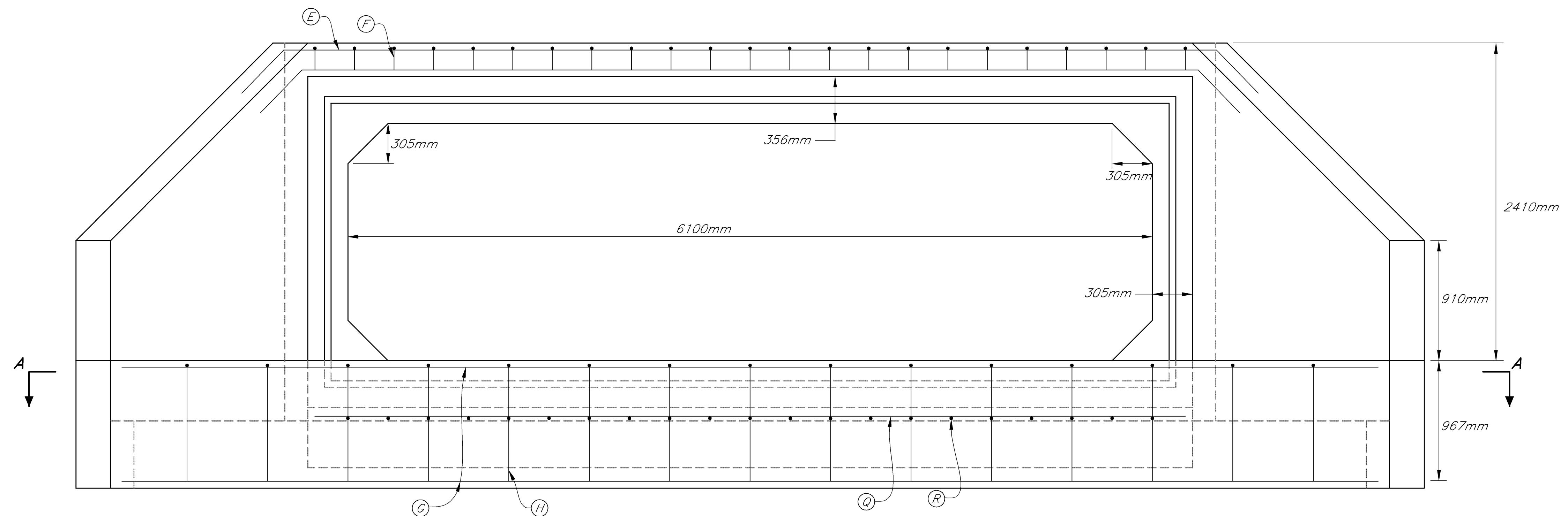
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: MSL DRAWN: NSM  
 CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION  
 HEADWALL DETAILS  
 STRUCTURE 46

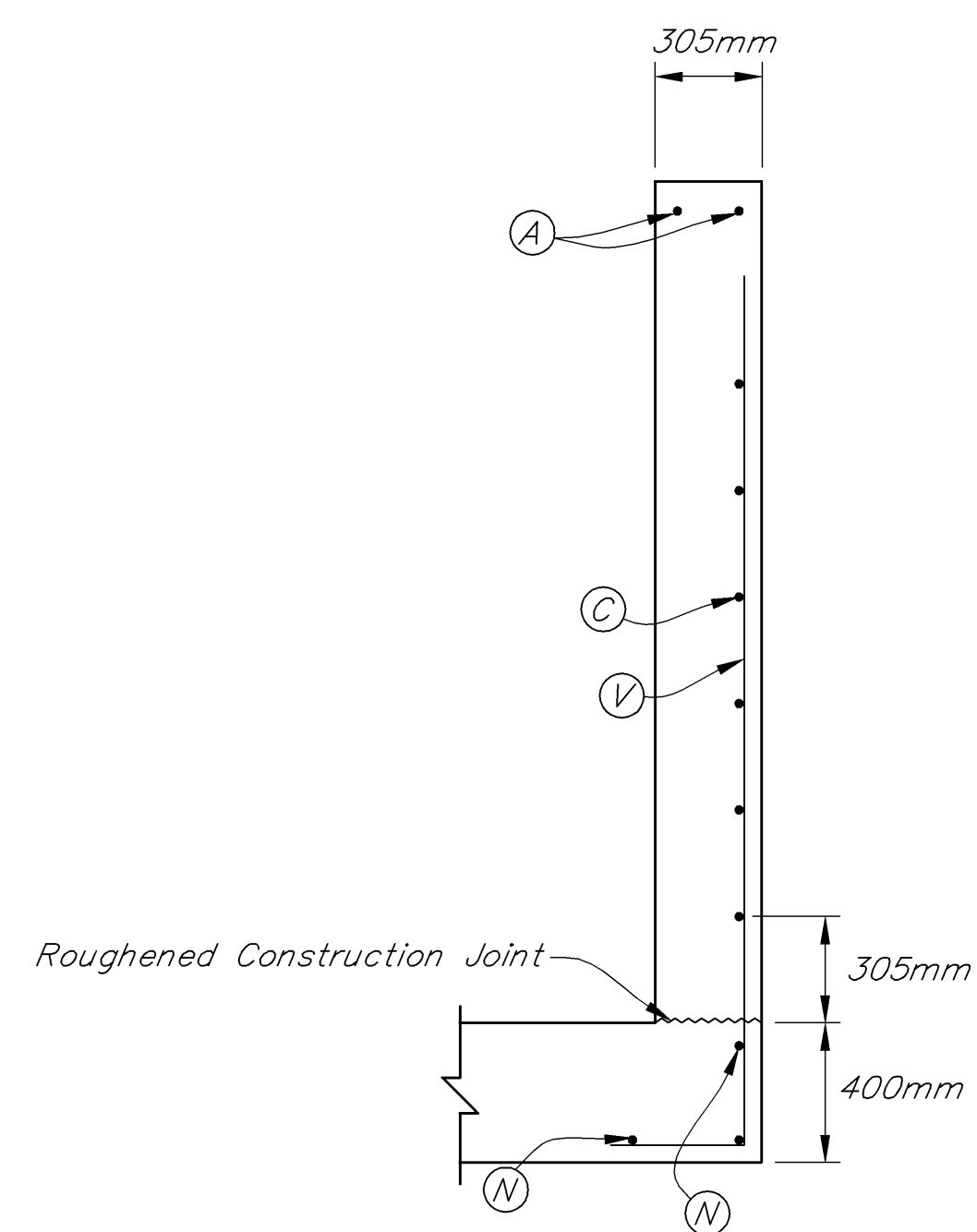
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AS NOTED	3783
VERTICAL SCALE	DESIGNATION
AS NOTED	9706580
SURVEY BOOK	SHEET
	75A OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

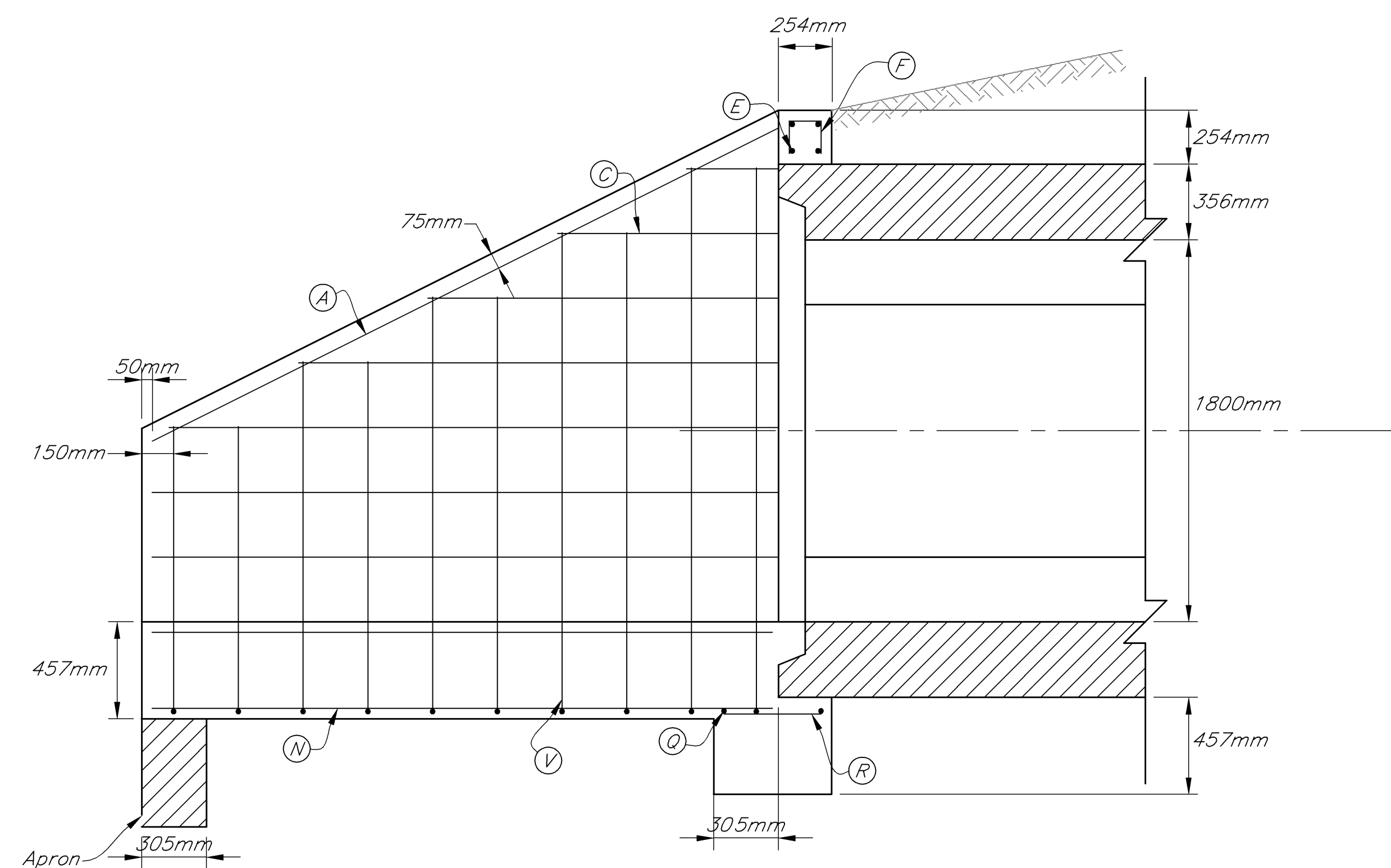




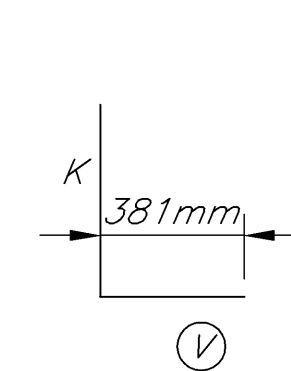
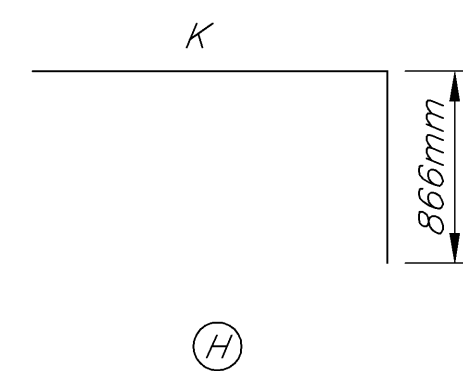
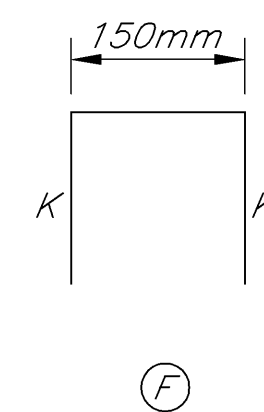
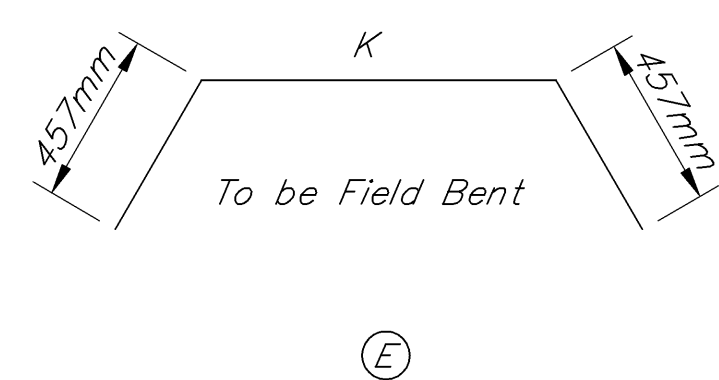
**ELEVATION**  
Not To Scale



**WING SECTION**  
Not To Scale



**SECTION B-B**  
Not To Scale

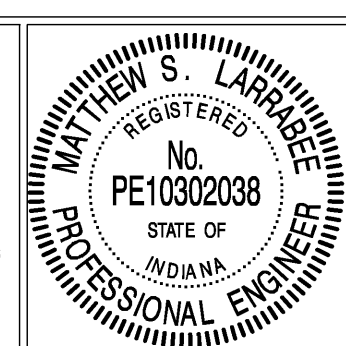


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**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: MSL DRAWN: NSM  
CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

**HEADWALL DETAILS**  
**STRUCTURE 92 & 129**

HORIZONTAL SCALE	FILE
AS NOTED	3783
VERTICAL SCALE	DESIGNATION
AS NOTED	9706580
SURVEY BOOK	SHEET
	76 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

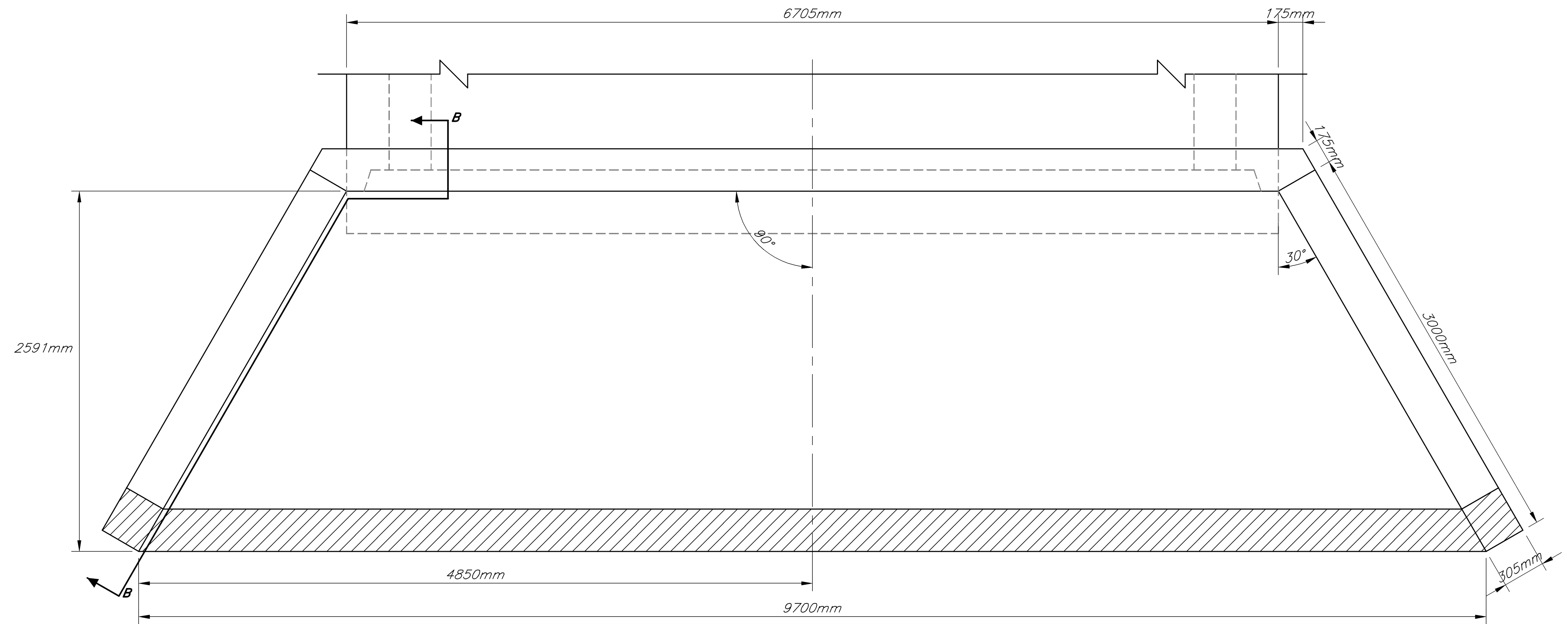
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NOTES

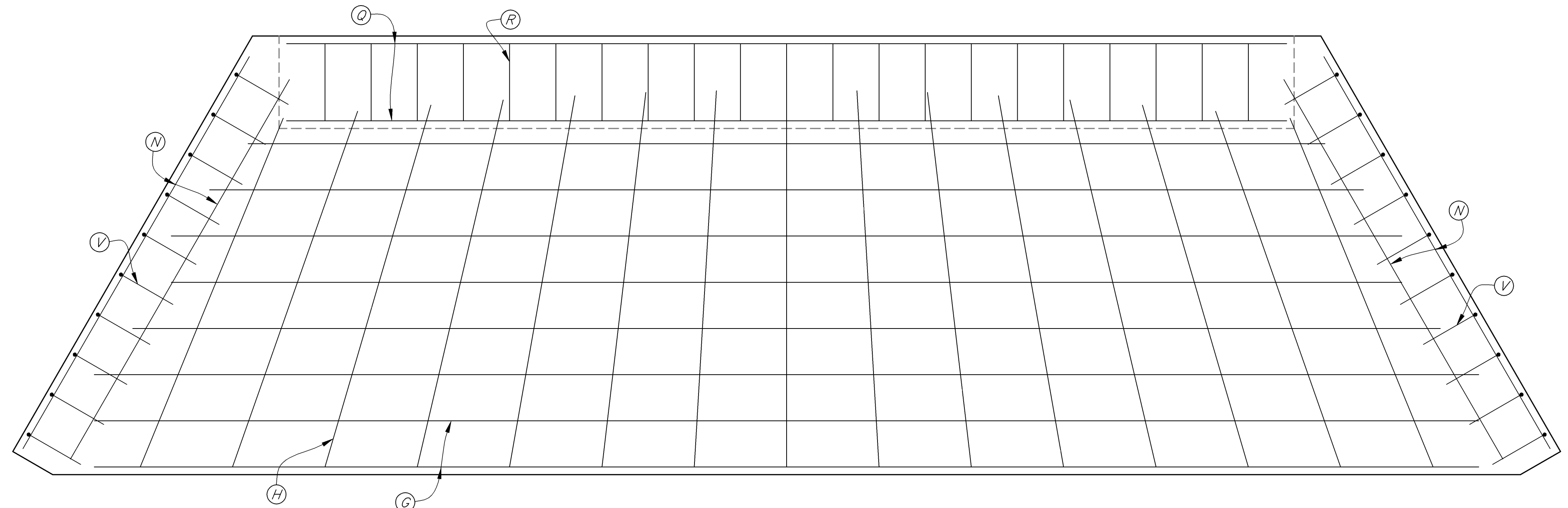
1. For Dimensions, Quantities, and Bill of Reinforcement see below.
2. Dimensions from face of concrete to steel shall be 2" clear distance.
3. Encircled letters, ( ), indicate steel bar locations.
4. Bars (C), (G), (K), (V), (W) are spaced 1'-0" O.C. All other bars shall be evenly spaced.
5. Bars (V) and (W) are placed in order of increasing lengths, beginning at the end of each wing.
6. Bars (C) and (K) are placed in order of increasing lengths, beginning at the end of each wing.
7. Headwalls located at edge of shoulders shall be parallel to centerline of the road.
8. Limits of Apron.
9. Paving shall be required and shall be sloped in direction of flow equal to slope of Box. Front face of headwall and ends of wings shall remain vertical.

HEADWALL QUANTITIES**						
MARKING	SIZE	NO. OF BARS	LENGTH m	K m	WEIGHT/LENGTH kg./m	TOTAL WEIGHT kg.
(A)	16	4	3.298		1.552	20.474
(B)	13	2	0.432		0.994	0.859
(C)	13	2	1.041		0.994	2.070
(D)	13	2	1.651		0.994	3.282
(E)	13	2	2.261		0.994	7.495
(F)	13	2	2.870		0.994	5.706
(G)	13	4	2.950		0.994	11.729
(H)	16	2	7.986	7.072	1.552	24.789
(I)	16	2	7.708	6.796	1.552	23.926
(J)	13	10	0.450	0.150	0.994	4.473
(K)	13	1	7.112		0.994	7.069
(L)	13	1	7.620		0.994	7.574
(M)	13	2	8.128		0.994	16.159
(N)	13	1	8.636		0.994	8.584
(O)	13	4	9.114		0.994	36.237
(P)	13	15	3.355	2.489	0.994	50.023
(Q)	13	6	2.921		0.994	17.421
(R)	13	2	6.600		0.994	13.121
(S)	13	21	0.458		0.994	9.560
(T)	16	4	1.708	1.327	1.552	10.603
(U)	16	4	1.168	1.632	1.552	7.251
(V)	16	4	2.318	1.937	1.552	14.390
(W)	16	4	2.622	2.241	1.552	16.277
(X)	16	4	2.927	2.546	1.552	18.171
<b>STEEL TOTALS</b>						
13	67					201.36
16	28					135.88
TOTAL						337.24
Class "A" Concrete					HEADWALL	16.41m <sup>3</sup>
Class "A" Concrete					APRON	2.06m <sup>3</sup>
TOTAL					18.4m <sup>3</sup>	

\*\* Quantities are Per Headwall.



PLAN  
Not To Scale



SECTION A-A  
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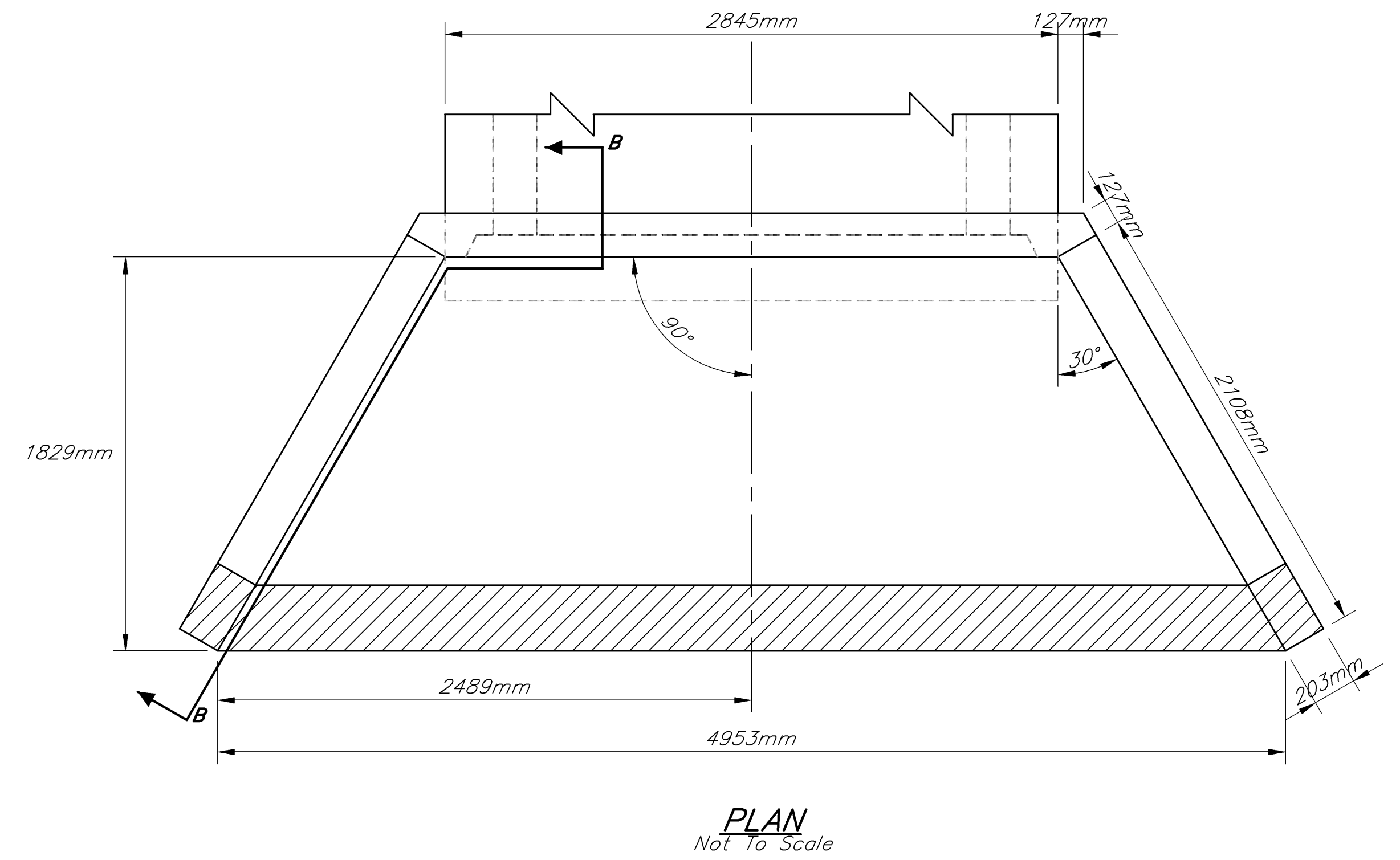
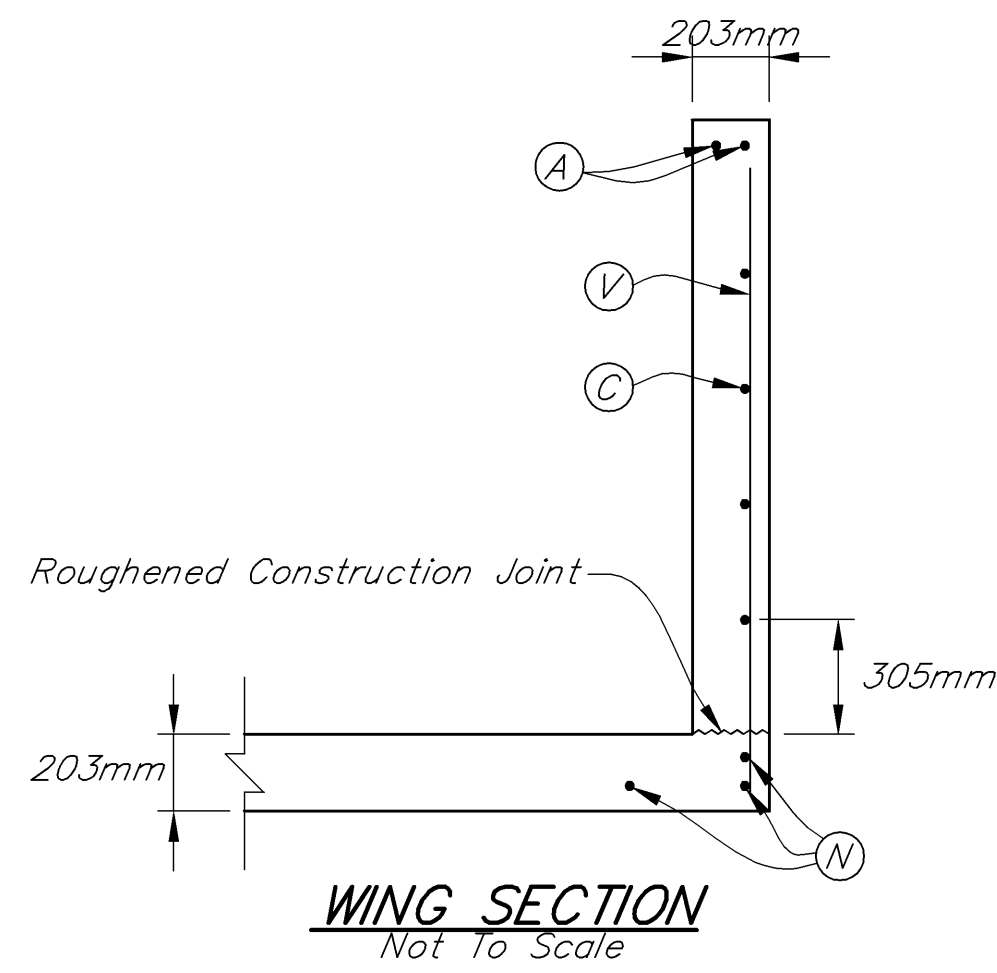
<p>Butler Fairman Seufert CIVIL ENGINEERS</p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 715-4615 FAX 317 715-4616</p> <p>509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377</p>		RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION  HEADWALL DETAILS STRUCTURE 92 & 129	HORIZONTAL SCALE	FILE
		DESIGNED: MSL DRAWN: NSM CHECKED: BZ CHECKED: MSL		AS NOTED AS NOTED SURVEY BOOK CONTRACT R-28934	3783 DESIGNATION 9706580 SHEET 76A OF 292 PROJECT STP/097-9(005)

BFS NO. 3783.07

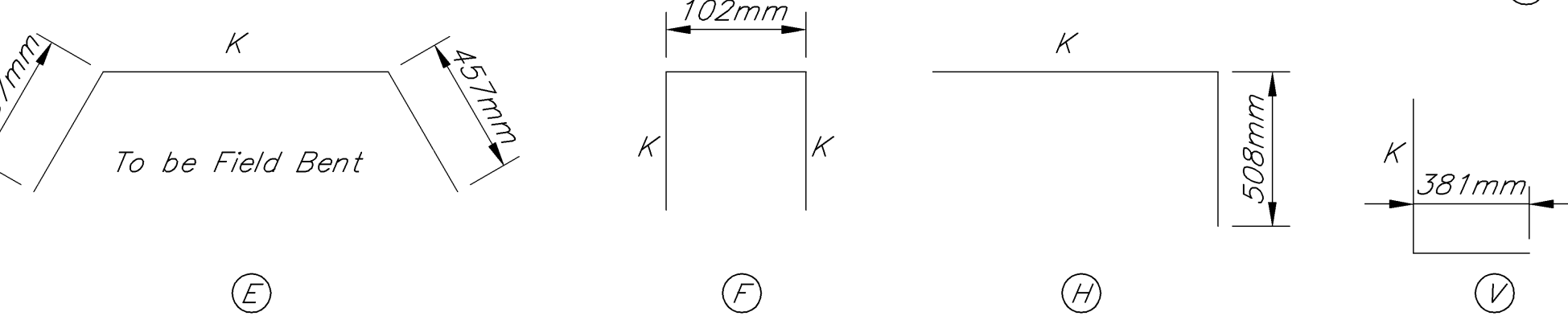
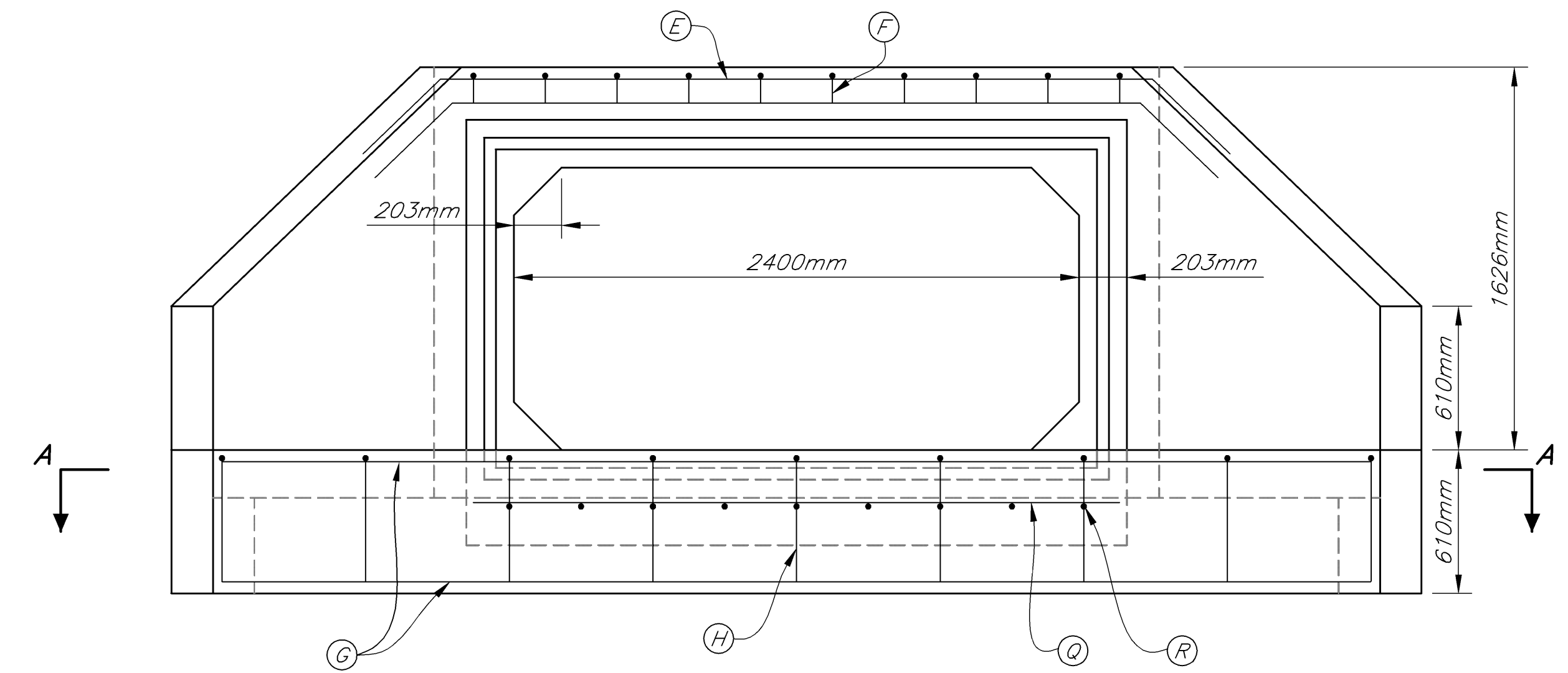
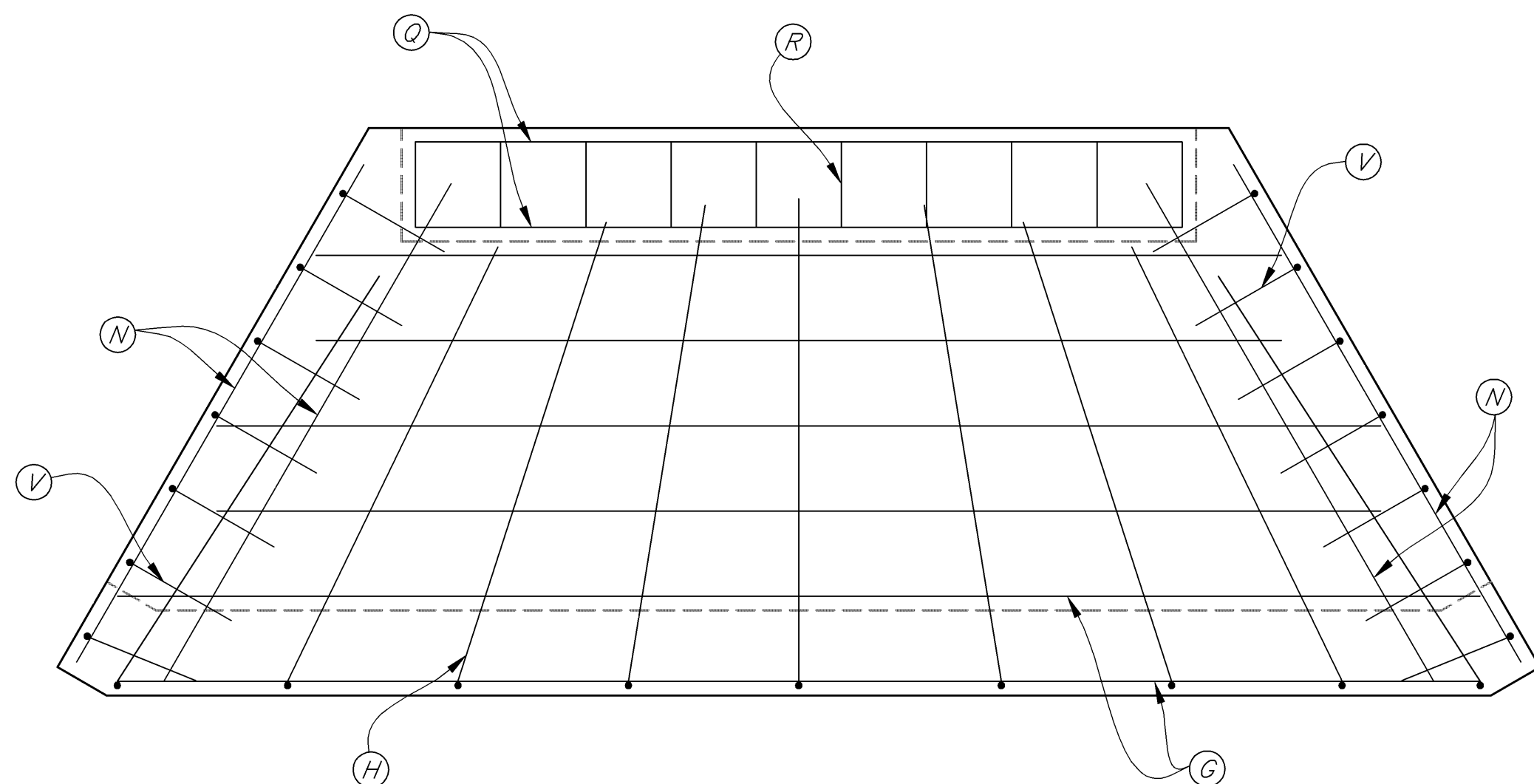
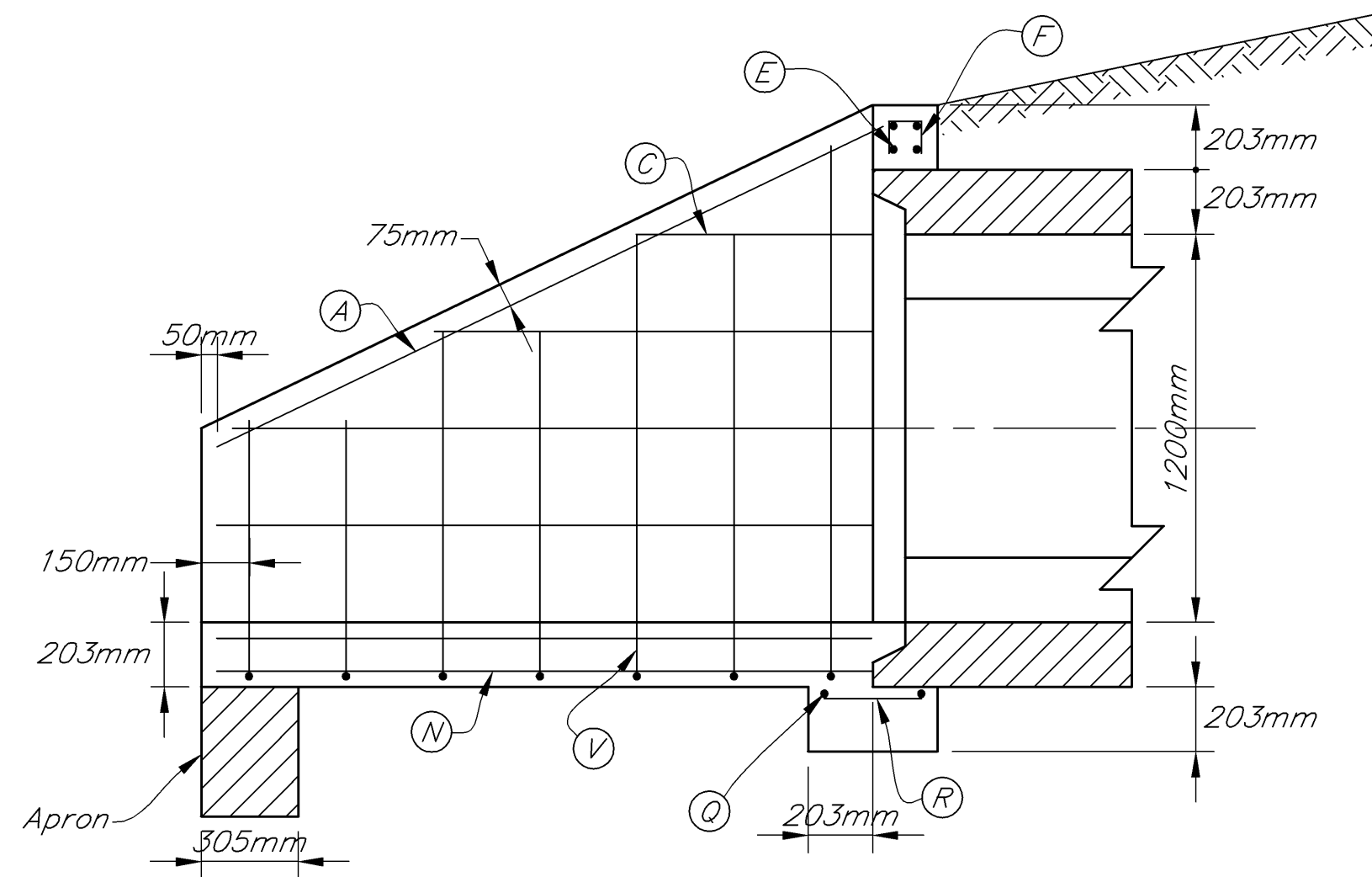


NOTES

1. For Dimensions, Quantities, and Bill of Reinforcement see below.
2. Dimensions from face of concrete to steel shall be 2" clear distance.
3. Encircled letters,  $\text{O}$ , indicate steel bar locations.
4. Bars,  $\text{C}$ ,  $\text{G}$ ,  $\text{K}$ ,  $\text{V}$ ,  $\text{W}$ , are spaced 1'-0" O.C.  
All other bars shall be evenly spaced.
5. Bars,  $\text{V}$  and  $\text{W}$  are placed in order of increasing lengths, beginning at the end of each wing.
6. Bars,  $\text{C}$  and  $\text{K}$  are placed in order of increasing lengths, beginning at the end of each wing.
7. Headwalls located at edge of shoulders shall be parallel to centerline of the road.
8.  Limits of Apron.
9. Paving shall be required and shall be sloped in direction of flow equal to slope of Box. Front face of headwall and ends of wings shall remain vertical.



HEADWALL QUANTITIES**						
MARKING	SIZE	NO. OF BARS	LENGTH m	K m	WEIGHT/LENGTH kg/m	TOTAL WEIGHT kg.
A	16	4	2.286		1.552	14.192
C	13	2	0.737		0.994	1.466
G	13	2	1.372		0.994	2.728
K	13	2	2.007		0.994	3.990
V	13	2	2.057		0.994	4.090
W	16	2	3.835	2.921	1.552	11.904
X	16	2	3.937	3.023	1.552	12.220
Y	13	10	0.306	0.102	0.994	3.042
Z	13	2	3.454		0.994	6.866
AA	13	2	4.166		0.994	8.282
AB	13	3	4.877		0.994	14.544
AC	13	9	2.235	1.727	0.994	19.998
AD	13	6	2.057		0.994	12.270
AE	13	2	2.743		0.994	5.454
AF	13	10	0.305		0.994	3.030
AG	16	4	1.168	0.787	1.552	7.252
AH	16	4	1.448	1.067	1.552	8.988
AI	16	4	1.753	1.372	1.552	10.884
AJ	16	2	2.032	1.651	1.552	6.308
		<b>STEEL TOTALS</b>				
	13	52				85.76
	16	22				71.75
<b>TOTAL</b>						<b>157.51</b>
				Class "A" Concrete	HEADWALL	3.67m <sup>3</sup>
				Class "A" Concrete	APRON	0.64m <sup>3</sup>
				Class "A" Concrete	TOTAL	4.31m <sup>3</sup>



**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 715-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
MATTHEW S. LARSEN

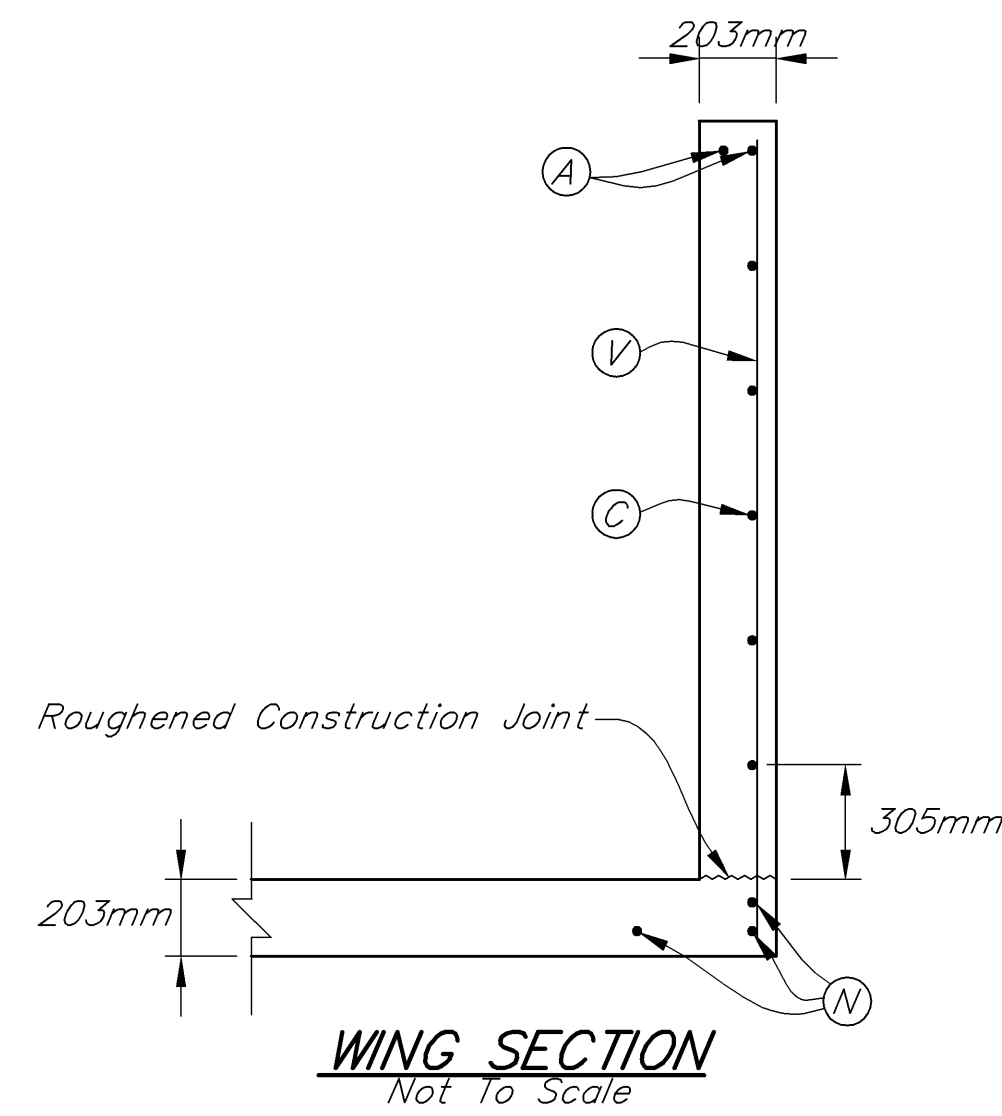
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: MSL DRAWN: NSM  
CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION  
**HEADWALL DETAILS  
STRUCTURE 123**

HORIZONTAL SCALE AS NOTED	FILE 3783
VERTICAL SCALE AS NOTED	DESIGNATION 9706580
SURVEY BOOK	SHEET
CONTRACT R-28934	77 OF 292 PROJECT STP/097-9(005)

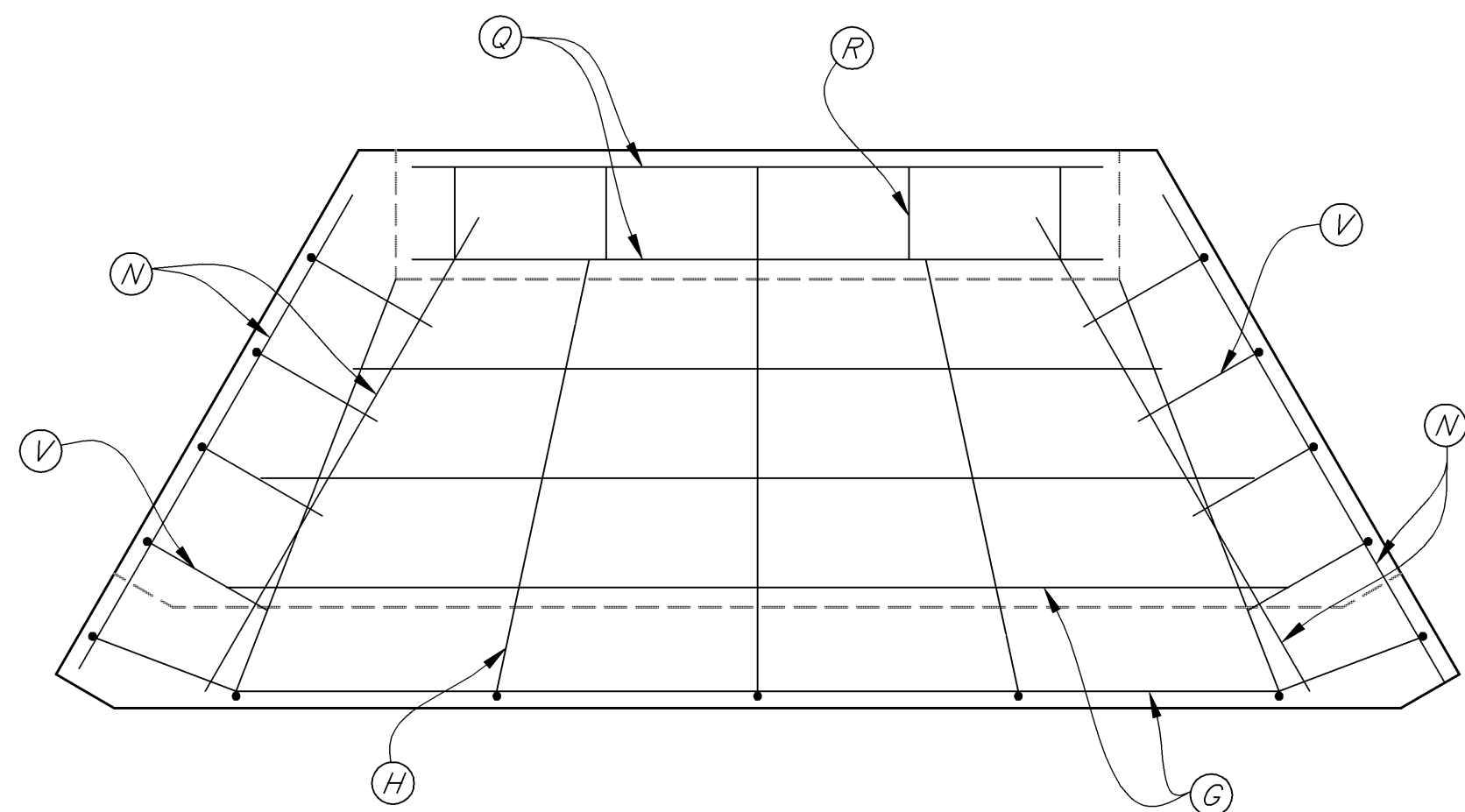
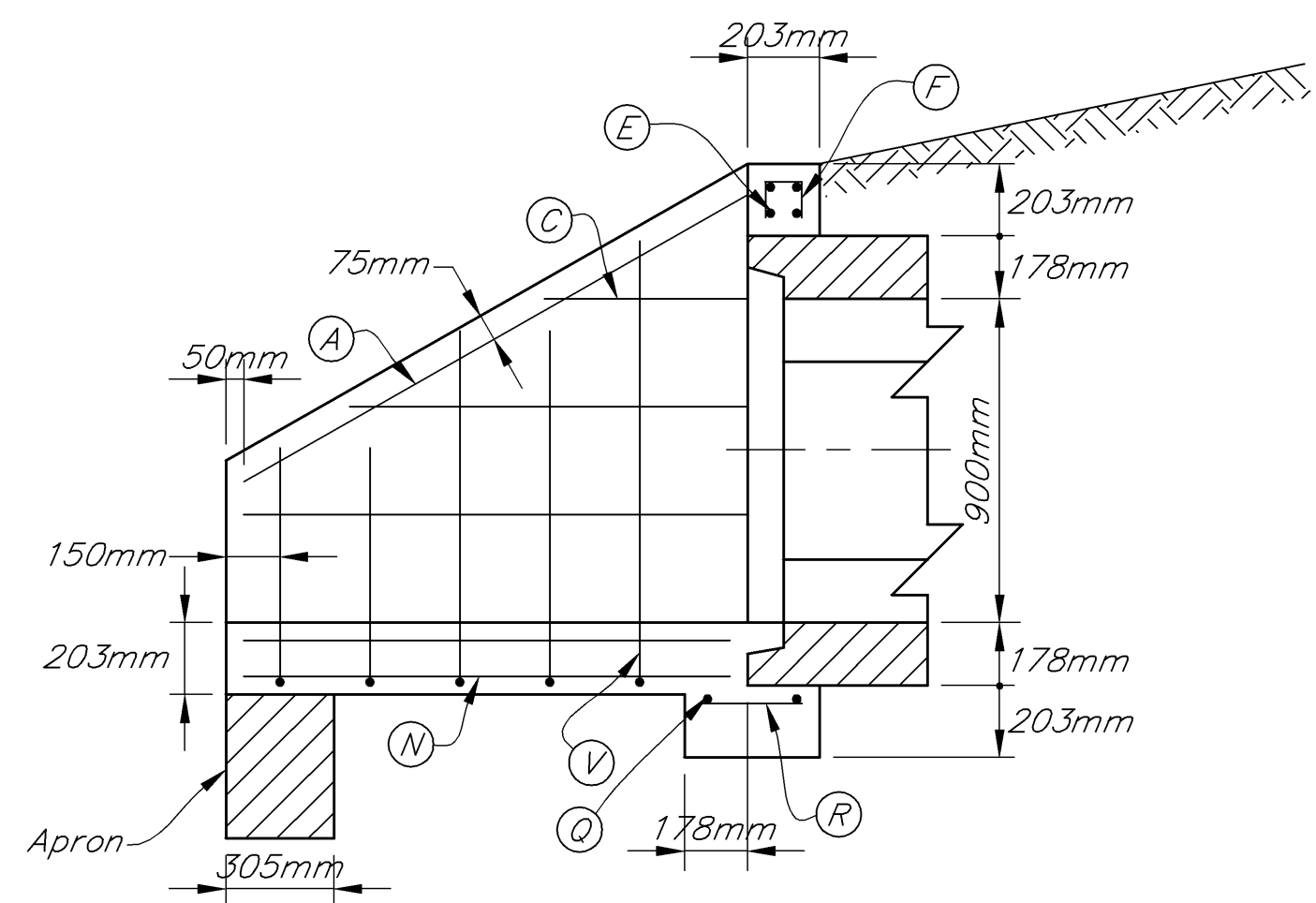
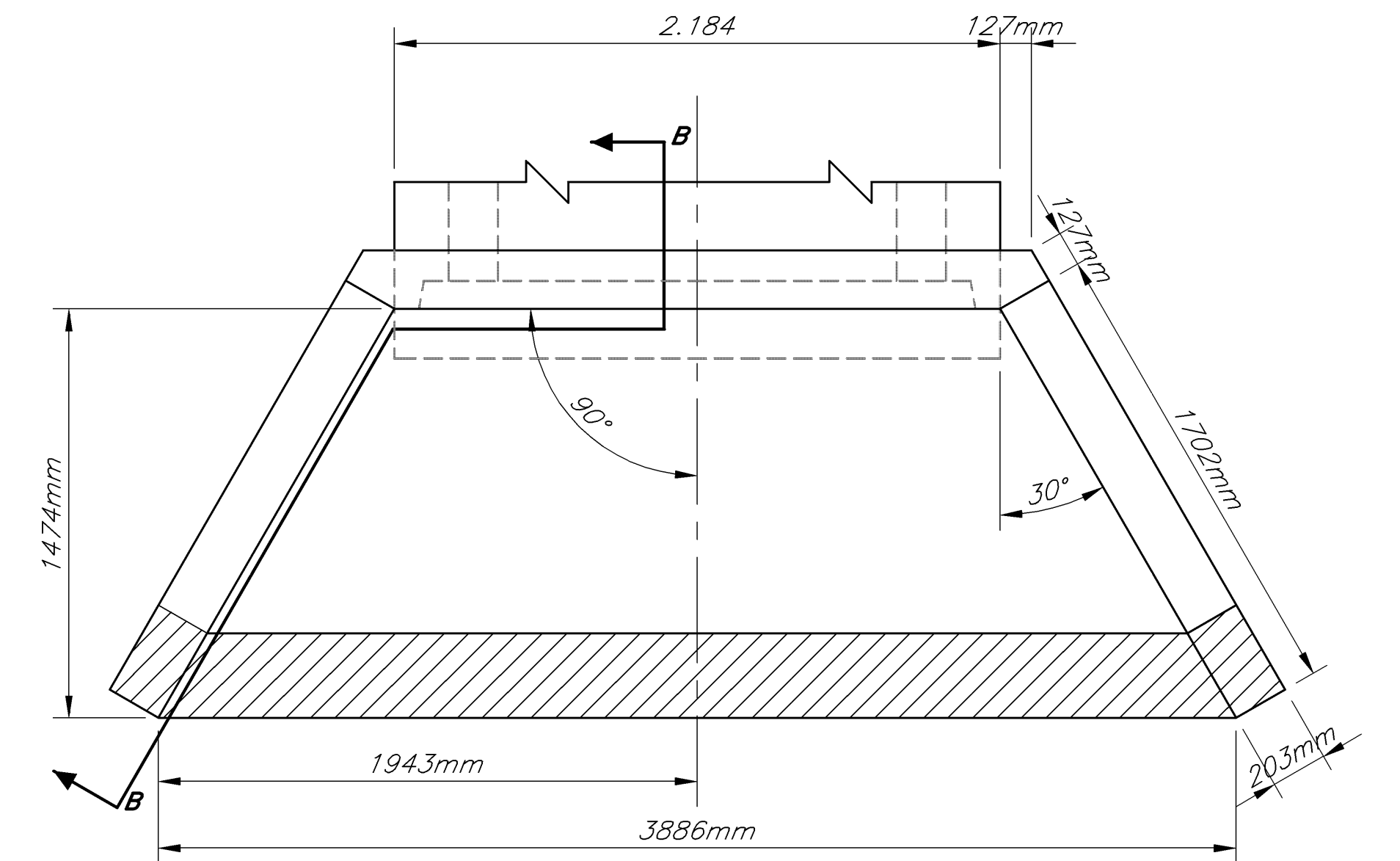
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BFS NO. 3783.07



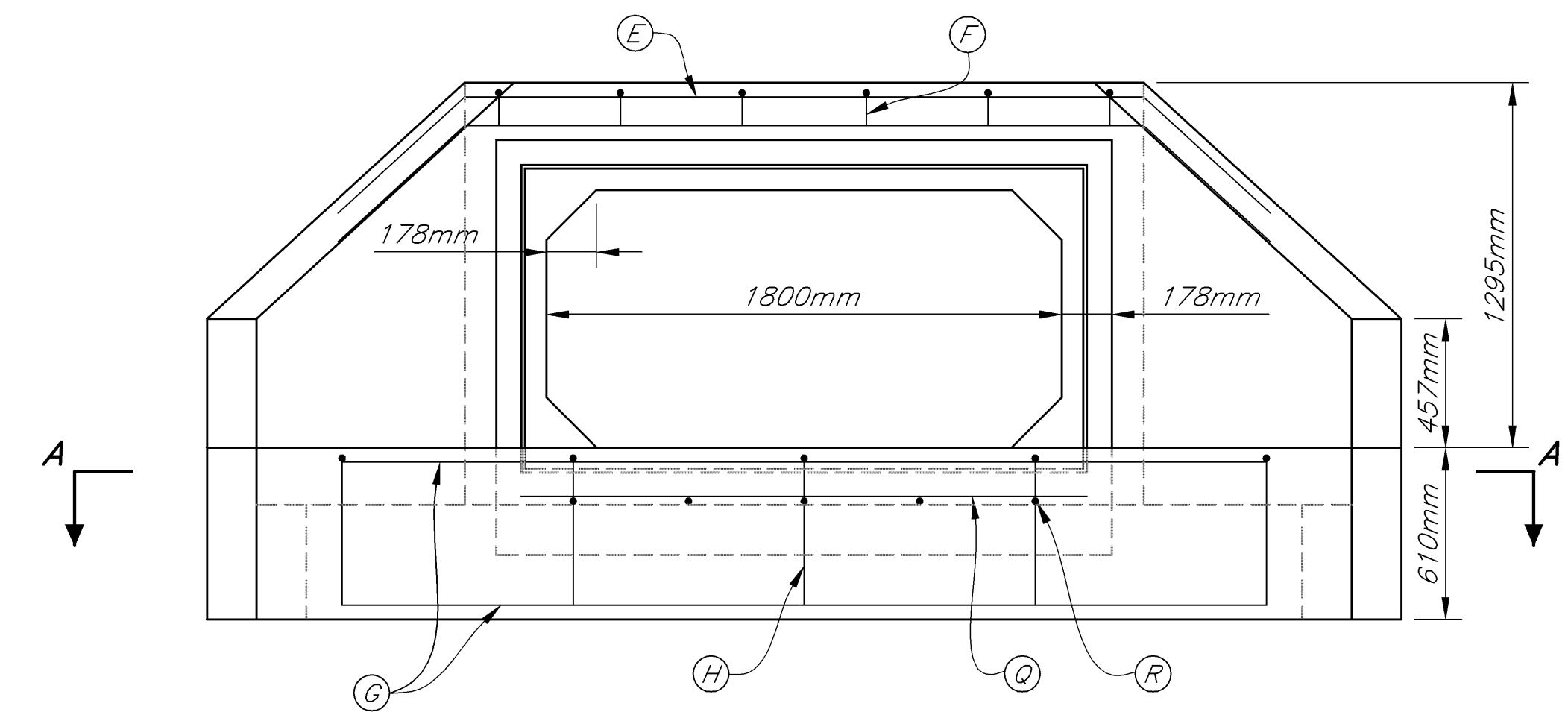
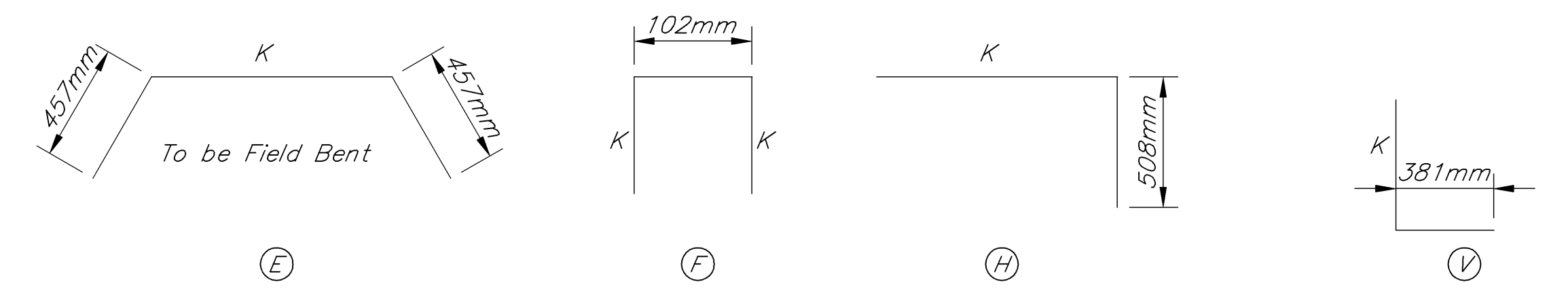
NOTES

1. For Dimensions, Quantities, and Bill of Reinforcement see below.
2. Dimensions from face of concrete to steel shall be 2" clear distance.
3. Encircled letters,  $\textcircled{\text{A}}$ , indicate steel bar locations.
4. Bars,  $\textcircled{\text{C}}$ ,  $\textcircled{\text{G}}$ ,  $\textcircled{\text{K}}$ ,  $\textcircled{\text{V}}$ ,  $\textcircled{\text{W}}$ , are spaced 1'-0" O.C. All other bars shall be evenly spaced.
5. Bars,  $\textcircled{\text{V}}$  and  $\textcircled{\text{W}}$  are placed in order of increasing lengths, beginning at the end of each wing.
6. Bars,  $\textcircled{\text{C}}$  and  $\textcircled{\text{K}}$  are placed in order of increasing lengths, beginning at the end of each wing.
7. Headwalls located at edge of shoulders shall be parallel to centerline of the road.
8. Limits of Apron.
9. Paving shall be required and shall be sloped in direction of flow equal to slope of Box. Front face of headwall and ends of wings shall remain vertical.



HEADWALL QUANTITIES**						
MARKING	SIZE	NO. OF BARS	LENGTH		WEIGHT/LENGTH	TOTAL WEIGHT
			m	m	kg./m	kg.
$\textcircled{\text{A}}$	16	4	1.854		1.552	11.511
$\textcircled{\text{C}}$	13	2	0.660		0.994	1.313
$\textcircled{\text{G}}$	13	2	1.295		0.994	2.575
$\textcircled{\text{K}}$	13	2	1.651		0.994	3.282
* $\textcircled{\text{F}}$	16	2	3.175	2.261	1.552	9.855
* $\textcircled{\text{S}}$	16	2	3.277	2.362	1.552	10.171
$\textcircled{\text{F}}$	13	8	0.306	0.102	0.994	2.433
$\textcircled{\text{S}}$	13	1	2.438		0.994	2.424
$\textcircled{\text{S}}$	13	2	2.997		0.994	5.958
$\textcircled{\text{G}}$	13	3	3.658		0.994	10.907
$\textcircled{\text{H}}$	13	7	1.880	1.372	0.994	13.078
$\textcircled{\text{N}}$	13	6	1.651		0.994	9.847
$\textcircled{\text{Q}}$	13	2	2.083		0.994	4.141
$\textcircled{\text{R}}$	13	8	0.279		0.994	2.222
$\textcircled{\text{V}}$	16	4	1.041	0.660	1.552	6.465
$\textcircled{\text{W}}$	16	4	1.372	0.991	1.552	8.515
$\textcircled{\text{W}}$	16	2	1.626	1.245	1.552	5.046
<b>STEEL TOTALS</b>						
13	43					58.18
16	18					51.56
<b>TOTAL</b>						<b>109.74</b>
Class "A" Concrete			HEADWALL			2.49m <sup>3</sup>
Class "A" Concrete			APRON			0.51m <sup>3</sup>
Class "A" Concrete			<b>TOTAL</b>			<b>3.00m<sup>3</sup></b>

\* Bars May Need to be Bent in Field to Fit.  
\*\* Quantities are Per Headwall.



NSM  
11-10-06 AT 08:01  
F:\17281\AUTOCAD\ROAD\17281R506.DWG

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615  
FAX 317 715-4616

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA

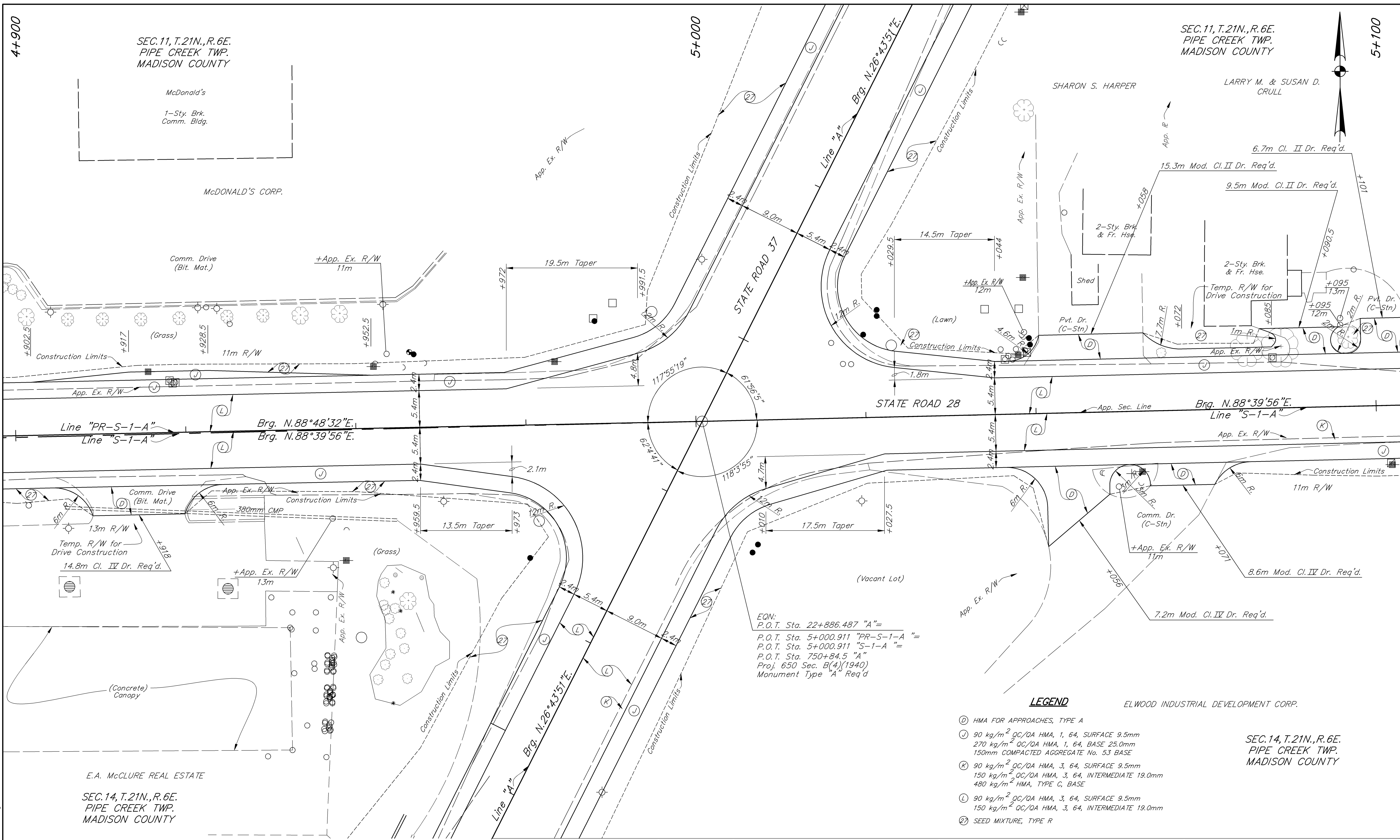
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: MSL DRAWN: NSM  
CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION  
**HEADWALL DETAILS  
STRUCTURE 142**

HORIZONTAL SCALE	FILE
AS NOTED	3783
VERTICAL SCALE	DESIGNATION
AS NOTED	9706580
SURVEY BOOK	SHEET
	78 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07





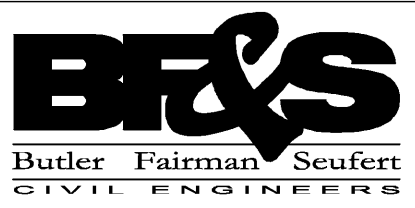
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 P.O.T. Sta. 22+886.487 "A"=  
 P.O.T. Sta. 5+000.911 "PR-S-1-A"=  
 P.O.T. Sta. 5+000.911 "S-1-A"=  
 P.O.T. Sta. 750+84.5 "A"=  
 Proj: 650 Sec. B(4)(1940)  
 Monument Type "A" Req'd

**LEGEND**

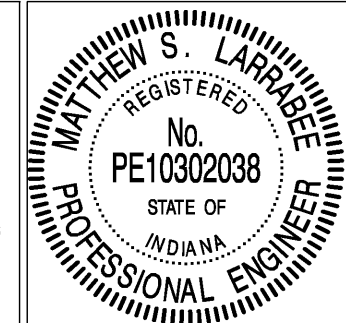
- Ⓧ HMA FOR APPROACHES, TYPE A
- Ⓨ 90 kg/m<sup>2</sup> QC/OA HMA, 1, 64, SURFACE 9.5mm  
270 kg/m<sup>2</sup> QC/OA HMA, 1, 64, BASE 25.0mm  
150mm COMPACTED AGGREGATE No. 53 BASE
- Ⓚ 90 kg/m<sup>2</sup> QC/OA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/OA HMA, 3, 64, INTERMEDIATE 19.0mm  
480 kg/m<sup>2</sup> HMA, TYPE C, BASE
- Ⓛ 90 kg/m<sup>2</sup> QC/OA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> QC/OA HMA, 3, 64, INTERMEDIATE 19.0mm
- Ⓜ SEED MIXTURE, TYPE R

ELWOOD INDUSTRIAL DEVELOPMENT CORP.

SEC. 14, T. 21N., R. 6E.  
 PIPE CREEK TWP.  
 MADISON COUNTY



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 715-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2334 FAX 219 769-2377

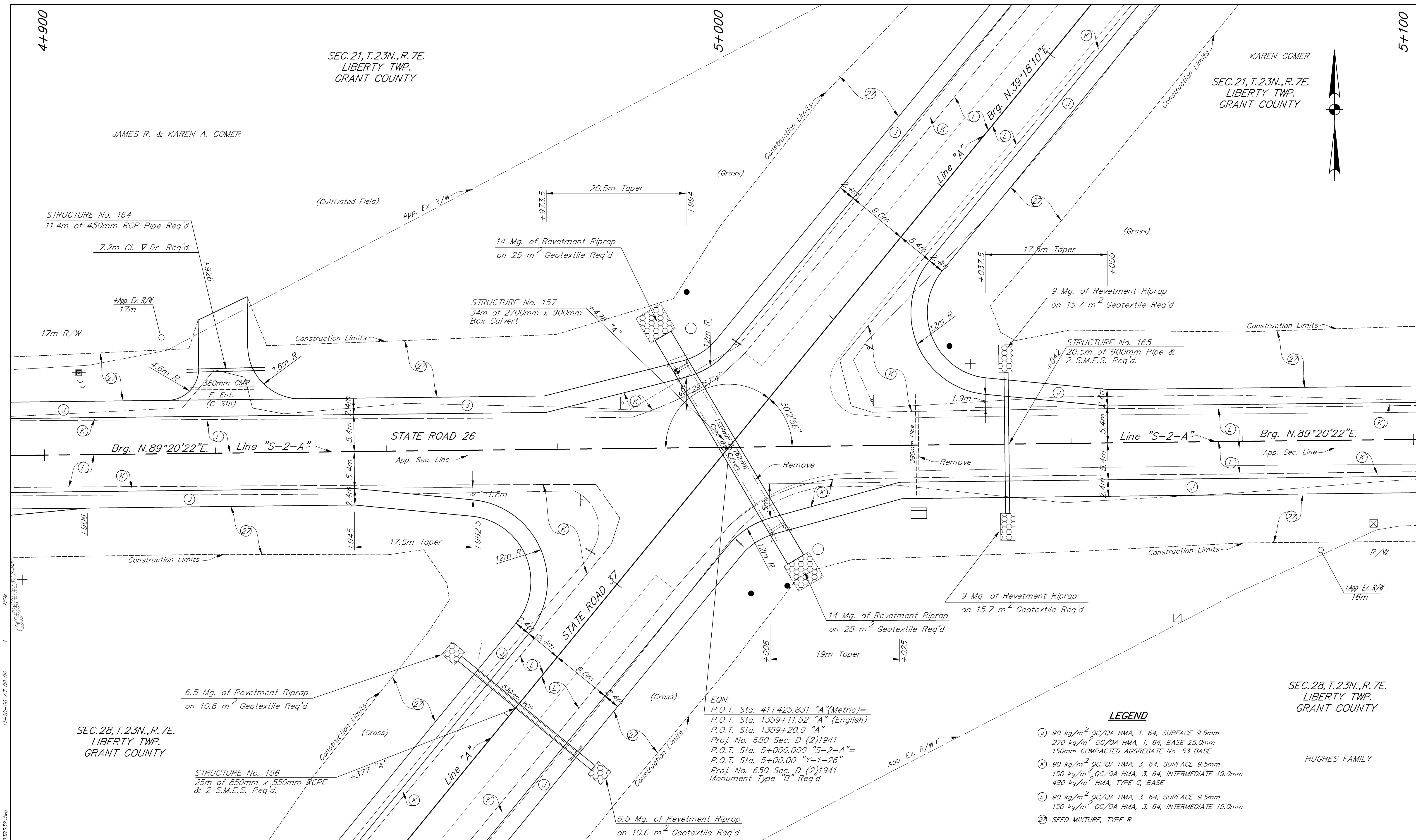


RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: MSL DRAWN: JM  
 CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION  
**INTERSECTION DETAILS**  
 S.R. 37 & S.R. 28

HORIZONTAL SCALE	FILE
1:250	3783
VERTICAL SCALE	DESIGNATION
1:250	9706580
SURVEY BOOK	SHEET
	79 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

11-10-06 AT 08:04  
 NSM  
 I  
 R:\172831\AUTOCAD\ROAD\172831.dwg



4+900  
 5+000  
 5+100  
 11-10-06 AT 08:06  
 L:\2831\AUTOCAD\ROAD\178\8532.dwg

SEC. 21, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY

KAREN COMER  
SEC. 21, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY

JAMES R. & KAREN A. COMER

STRUCTURE No. 164  
11.4m of 450mm RCP Pipe Req'd.

14 Mg. of Revetment Riprap  
on 25 m<sup>2</sup> Geotextile Req'd

STRUCTURE No. 157  
34m of 2700mm x 900mm  
Box Culvert

STRUCTURE No. 165  
20.5m of 600mm Pipe &  
2 S.M.E.S. Req'd.

6.5 Mg. of Revetment Riprap  
on 10.6 m<sup>2</sup> Geotextile Req'd

SEC. 28, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY

STRUCTURE No. 156  
25m of 850mm x 550mm RCPE  
& 2 S.M.E.S. Req'd.

EQN:  
P.O.T. Sta. 41+425.831 "A" (Metric)=  
P.O.T. Sta. 1359+11.52 "A" (English)  
P.O.T. Sta. 1359+20.0 "A"  
Proj. No. 650 Sec. D (2)1941  
P.O.T. Sta. 5+000.000 "S-2-A"=  
P.O.T. Sta. 5+00.00 "Y-1-26"  
Proj. No. 650 Sec. D (2)1941  
Monument Type "B" Req'd

SEC. 28, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY

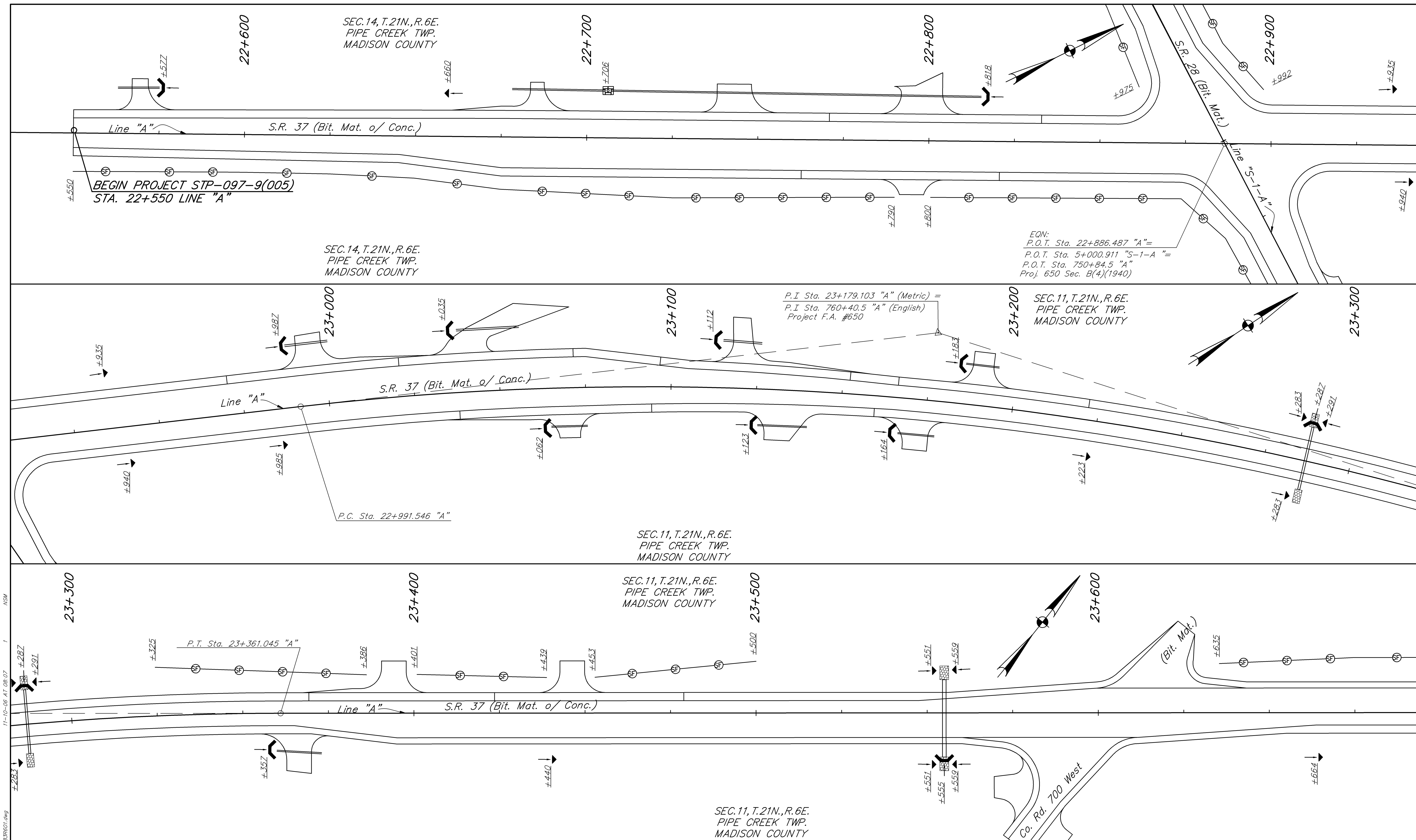
HUGHES FAMILY

**LEGEND**

- ⊙ 90 kg/m<sup>2</sup> OC/OA HMA, 1, 64, SURFACE 9.5mm  
270 kg/m<sup>2</sup> OC/OA HMA, 1, 64, BASE 25.0mm  
150mm COMPACTED AGGREGATE No. 53 BASE
- ⊙ 90 kg/m<sup>2</sup> OC/OA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> OC/OA HMA, 3, 64, INTERMEDIATE 19.0mm  
480 kg/m<sup>2</sup> HMA, TYPE C, BASE
- ⊙ 90 kg/m<sup>2</sup> OC/OA HMA, 3, 64, SURFACE 9.5mm  
150 kg/m<sup>2</sup> OC/OA HMA, 3, 64, INTERMEDIATE 19.0mm
- ⊙ SEED MIXTURE, TYPE R

 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 715-4615 FAX 317 715-4616	 REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA	RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1:250 FILE 3783
		DESIGNED: MSL DRAWN: JM CHECKED: BZ CHECKED: MSL	INTERSECTION DETAILS S.R. 37 & S.R. 26	VERTICAL SCALE 1:250 DESIGNATION 9706580
			SURVEY BOOK SHEET 80 OF 292	CONTRACT PROJECT R-28934 STP/097-9(005)



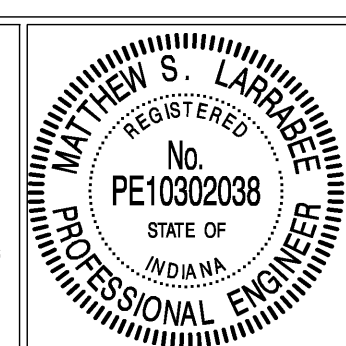


- LEGEND**
- RIPRAP CHECK DAM
  - RIPRAP CHECK DAM (ROCK HORSESHOE)
  - ⊙ PERIMETER PROTECTION
  - ⊠ DITCH INLET PROTECTION

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

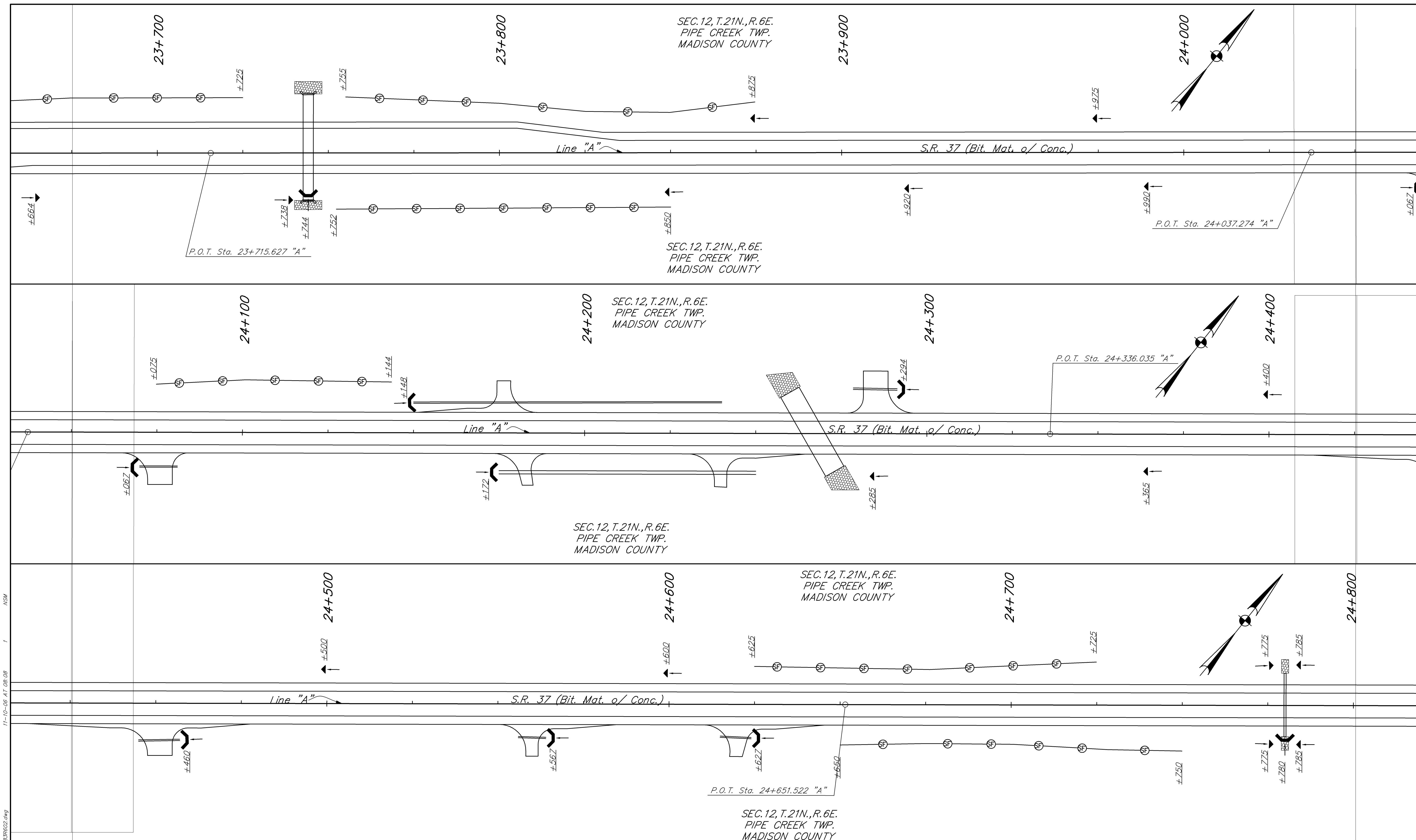
INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	81 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

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BFS NO. 3783.07



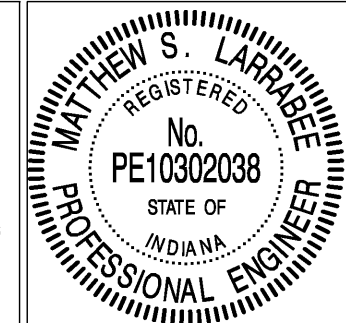
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 11-10-06 AT 08:08  
 NSM

**LEGEND**

- RIPRAP CHECK DAM
- RIPRAP CHECK DAM (ROCK HORSESHOE)
- PERIMETER PROTECTION

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300    509 WEST 84TH DRIVE, SUITE G  
 INDIANAPOLIS, IN. 46240    MERRILLVILLE, IN. 46410  
 317 713-4615    219 769-2333  
 FAX 317 713-4616    FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER    DATE

DESIGNED: JLB    DRAWN: JM  
 CHECKED: BZ    CHECKED: JLB

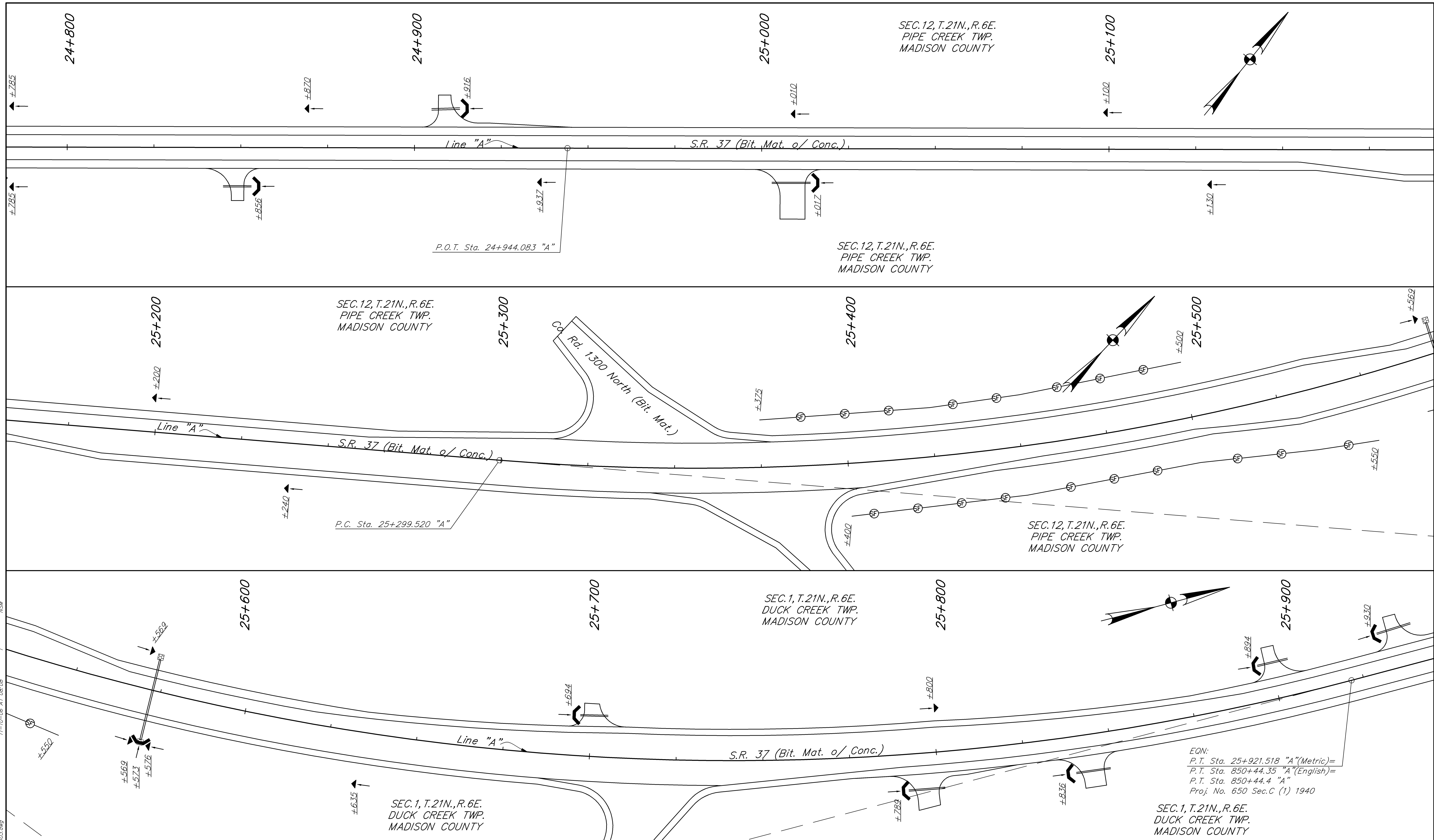
INDIANA  
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL  
STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 82 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

BFS NO. 3783.07



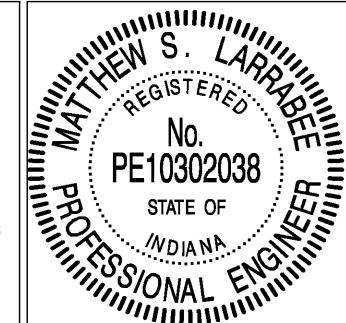


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 NSM

**LEGEND**

- RIPRAP CHECK DAM
- RIPRAP CHECK DAM (ROCK HORSESHOE)
- PERIMETER PROTECTION

**BFS**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616



RECOMMENDED FOR APPROVAL: *Matthew S. Larrabee* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

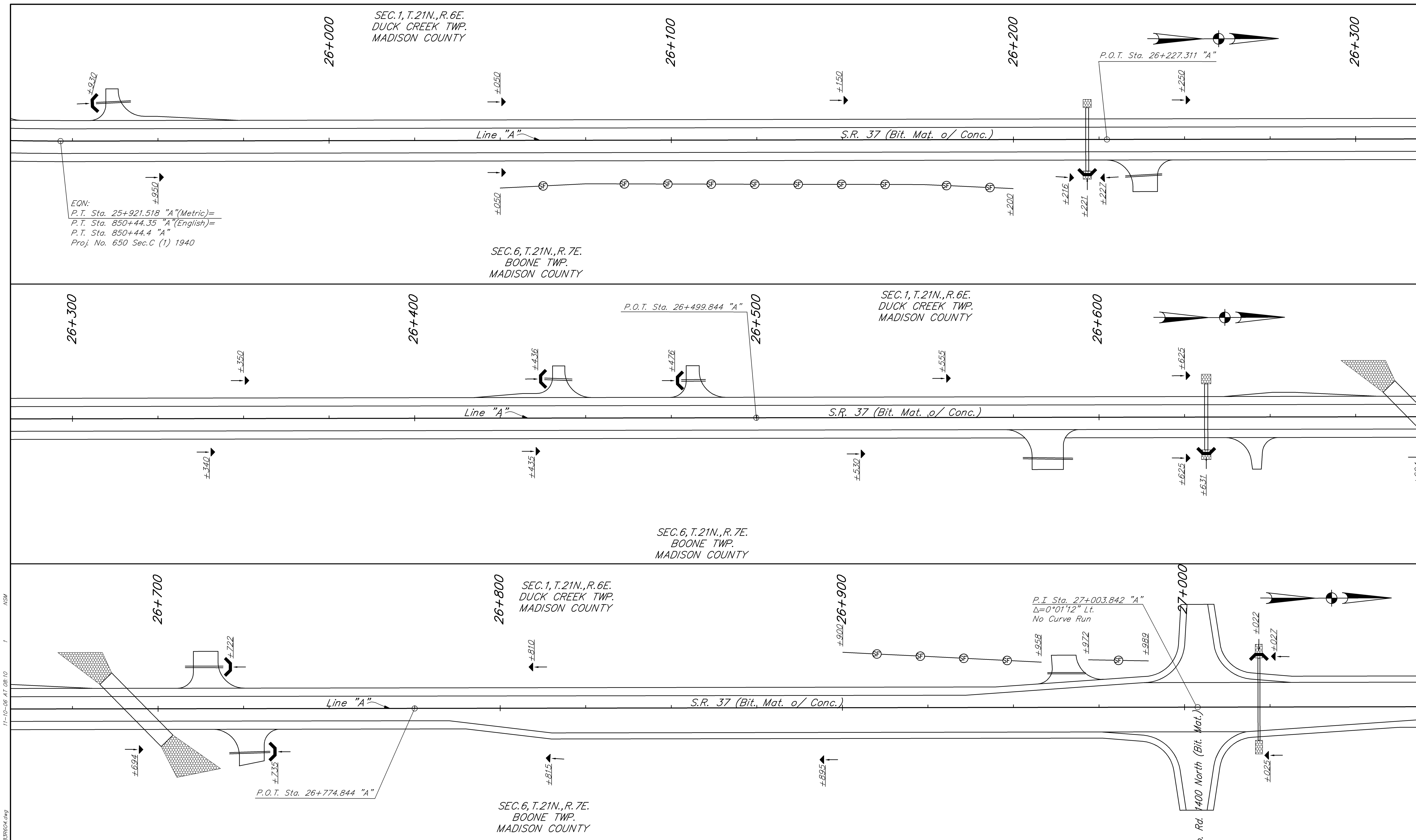
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL  
 STATE ROAD 37**

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	83 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

EON:  
 P.T. Sta. 25+921.518 "A"(Metric)=  
 P.T. Sta. 850+44.35 "A"(English)=  
 P.T. Sta. 850+44.4 "A"  
 Proj. No. 650 Sec.C (1) 1940

SEC. 1, T. 21N., R. 6E.  
 DUCK CREEK TWP.  
 MADISON COUNTY

BFS NO. 3783.07



EQN:  
 P.T. Sta. 25+921.518 "A" (Metric) =  
 P.T. Sta. 850+44.35 "A" (English) =  
 P.T. Sta. 850+44.4 "A"  
 Proj. No. 650 Sec.C (1) 1940

SEC. 6, T. 21N., R. 7E.  
 BOONE TWP.  
 MADISON COUNTY

SEC. 1, T. 21N., R. 6E.  
 DUCK CREEK TWP.  
 MADISON COUNTY

SEC. 6, T. 21N., R. 7E.  
 BOONE TWP.  
 MADISON COUNTY

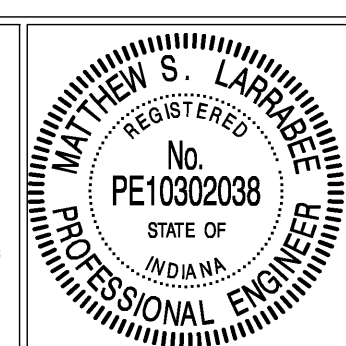
SEC. 1, T. 21N., R. 6E.  
 DUCK CREEK TWP.  
 MADISON COUNTY

SEC. 6, T. 21N., R. 7E.  
 BOONE TWP.  
 MADISON COUNTY

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 11-10-06 AT 08:10  
 NSM

- LEGEND**
- RIPRAP CHECK DAM
  - RIPRAP CHECK DAM (ROCK HORSESHOE)
  - PERIMETER PROTECTION

**BFS**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377



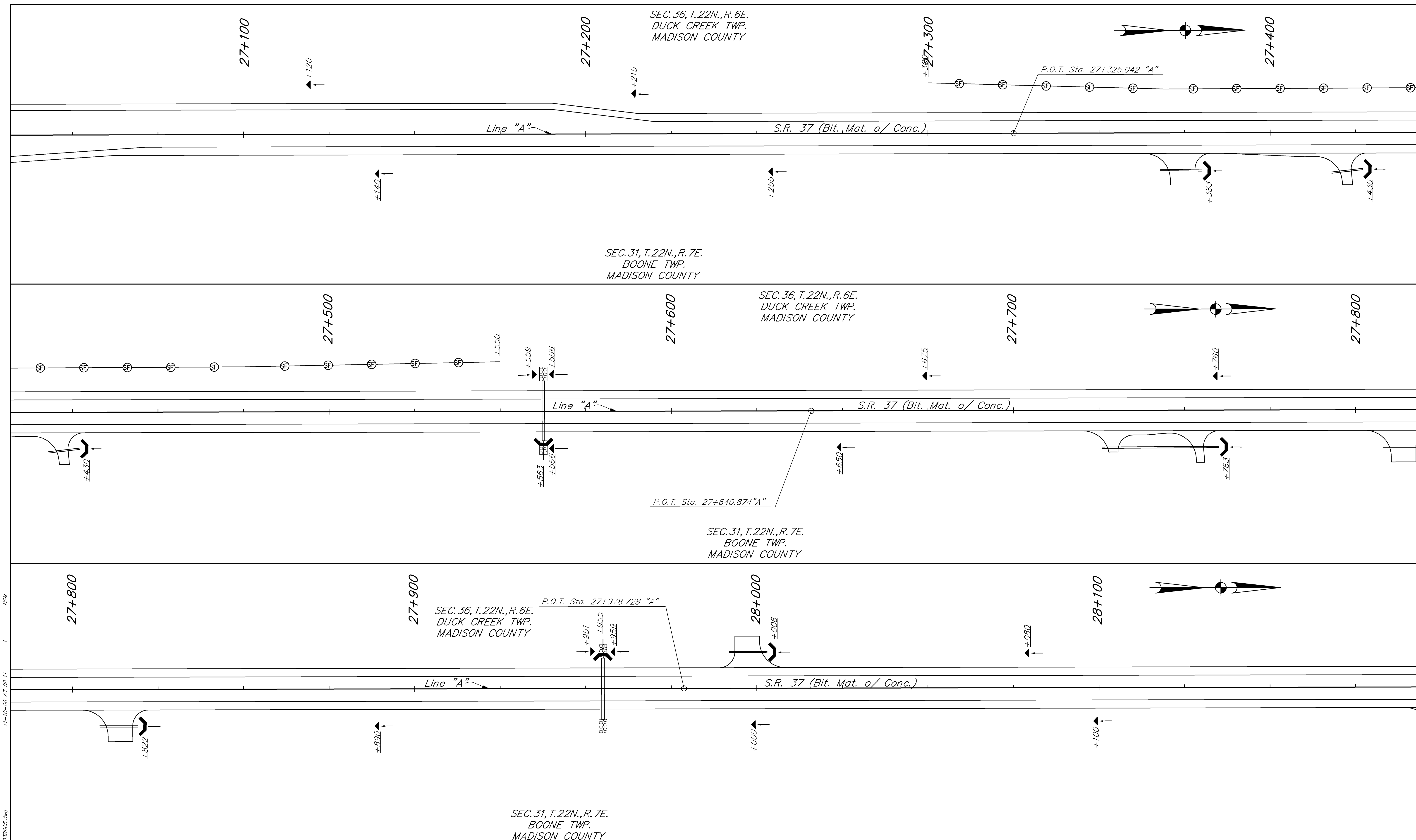
RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL STATE ROAD 37**

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	84 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07





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**LEGEND**

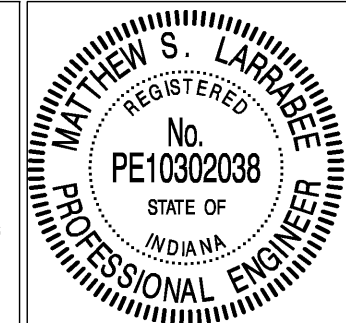
- RIPRAP CHECK DAM
- RIPRAP CHECK DAM (ROCK HORSESHOE)
- PERIMETER PROTECTION

SEC. 31, T. 22N., R. 7E.  
BOONE TWP.  
MADISON COUNTY

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2334  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

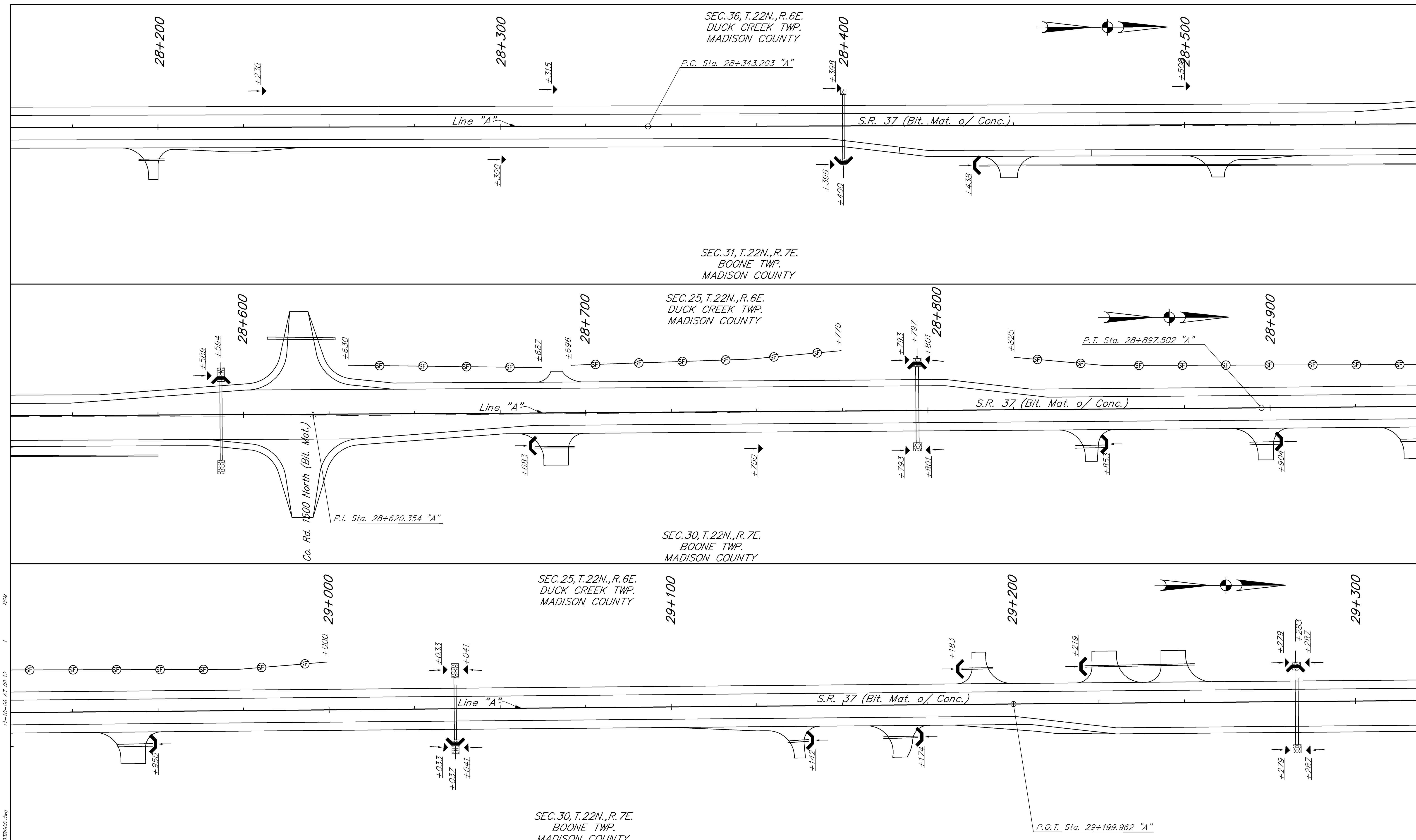
DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL  
STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 85 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

BFS NO. 3783.07



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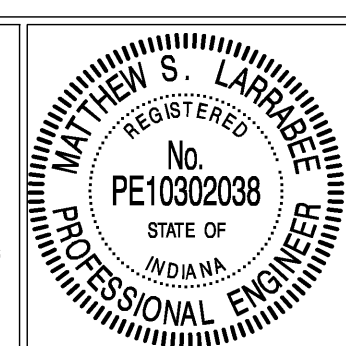
- LEGEND**
- RIPRAP CHECK DAM
  - RIPRAP CHECK DAM (ROCK HORSESHOE)
  - PERIMETER PROTECTION

SEC. 30, T. 22N., R. 7E.  
BOONE TWP.  
MADISON COUNTY

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

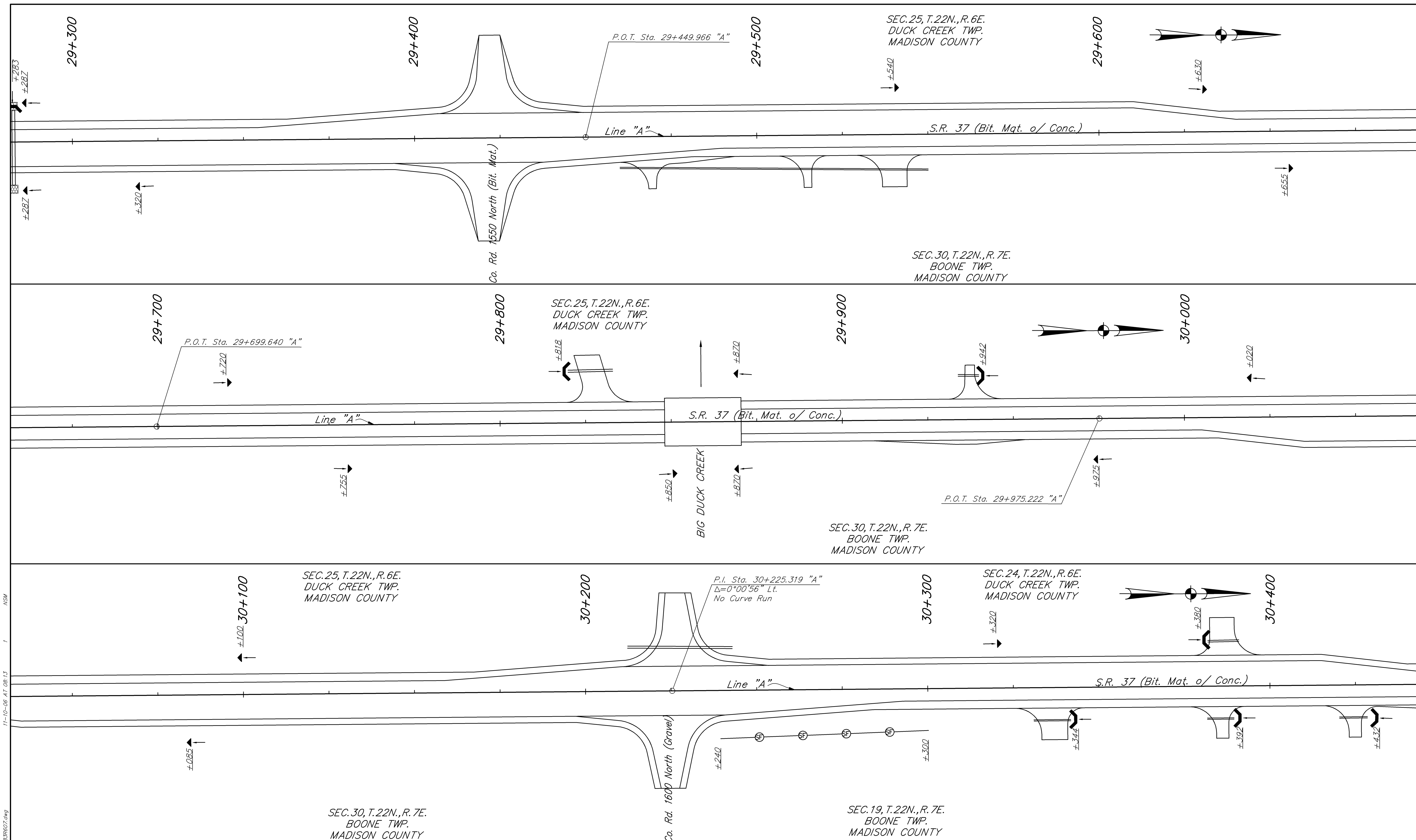
INDIANA DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL STATE ROAD 37**

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	86 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07





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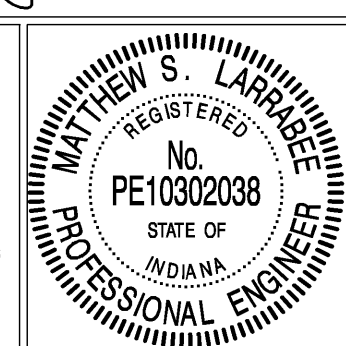
**LEGEND**

	RIPRAP CHECK DAM
	RIPRAP CHECK DAM (ROCK HORSESHOE)
	PERIMETER PROTECTION

**BFS**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE

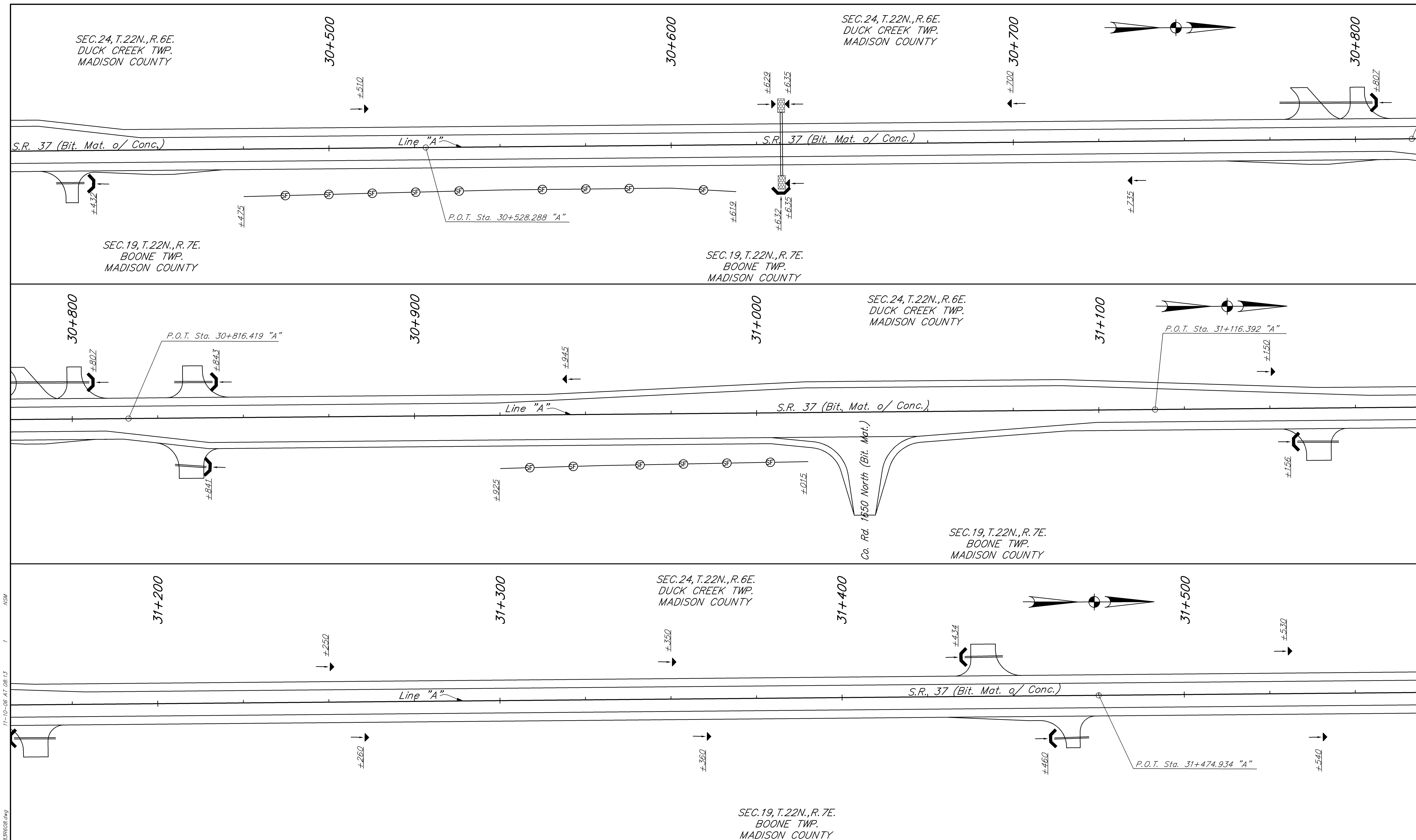
DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL STATE ROAD 37**

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 87 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

BFS NO. 3783.07



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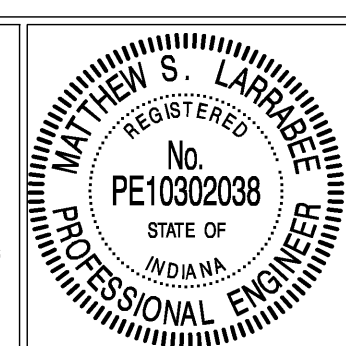
**LEGEND**

- RIPRAP CHECK DAM
- RIPRAP CHECK DAM (ROCK HORSESHOE)
- PERIMETER PROTECTION

**BF&S**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER DATE

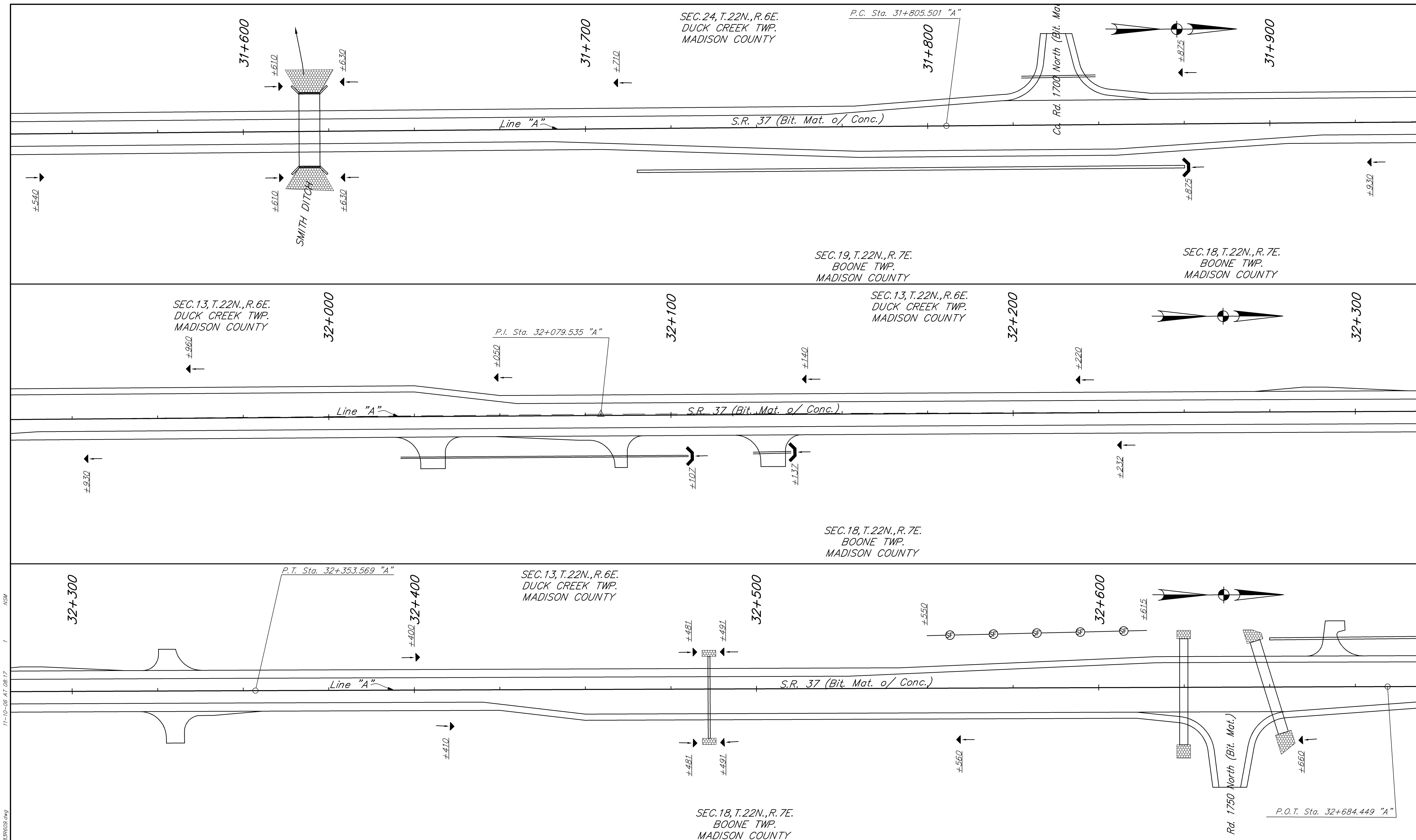
DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL STATE ROAD 37**

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	88 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07



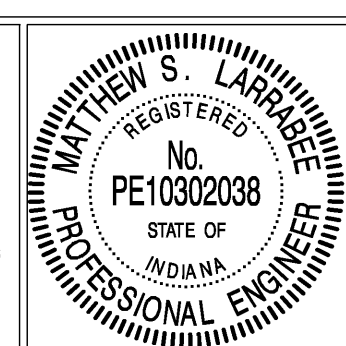
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 NSM

**LEGEND**

- RIPRAP CHECK DAM
- RIPRAP CHECK DAM (ROCK HORSESHOE)
- PERIMETER PROTECTION

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300    509 WEST 84TH DRIVE, SUITE G  
 INDIANAPOLIS, IN. 46240    MERRILLVILLE, IN. 46410  
 317 713-4615    219 769-2334  
 FAX 317 713-4616    FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER    DATE

DESIGNED: JLB    DRAWN: JM  
 CHECKED: BZ    CHECKED: JLB

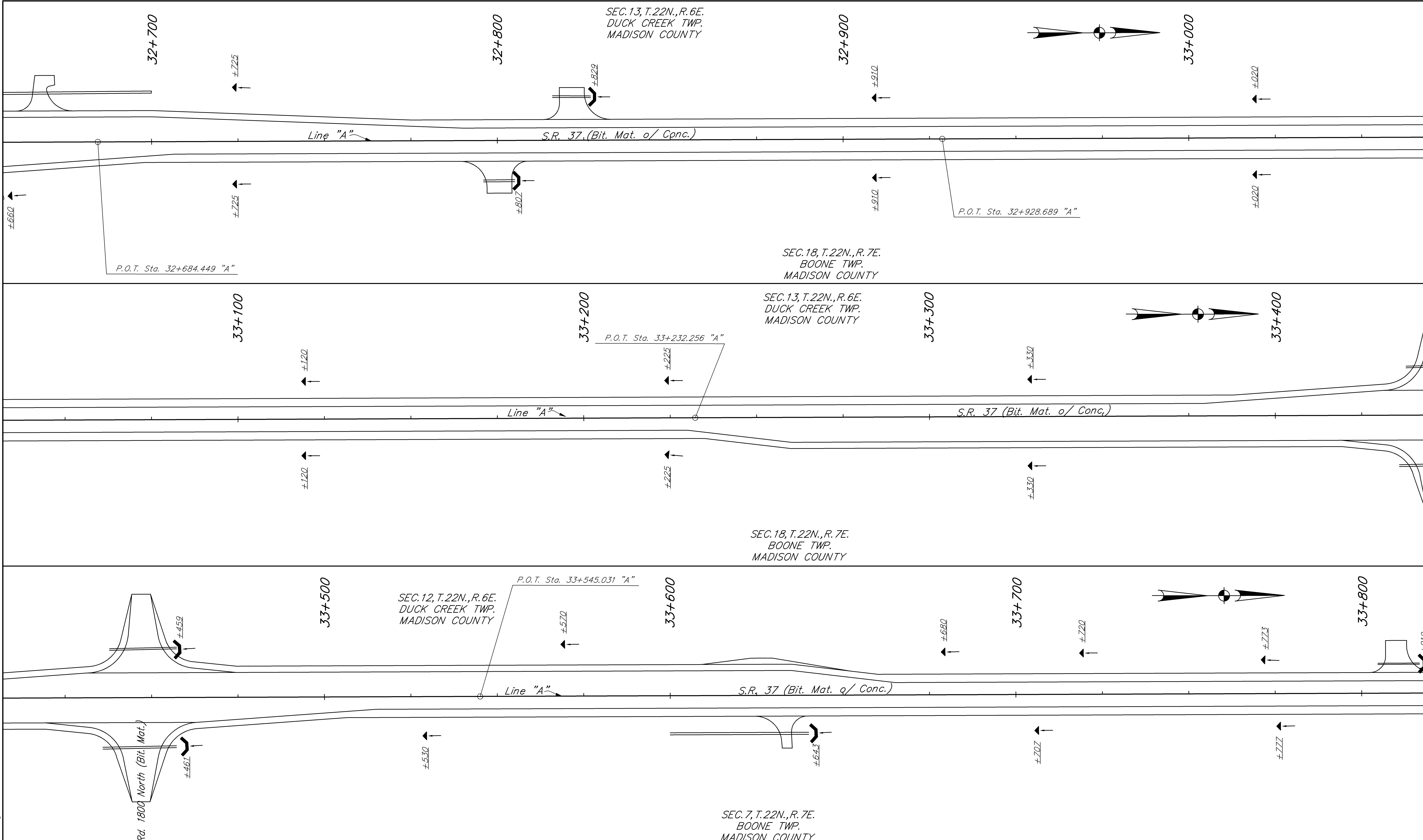
INDIANA  
DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL  
STATE ROAD 37**

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 89 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

BFS NO. 3783.07





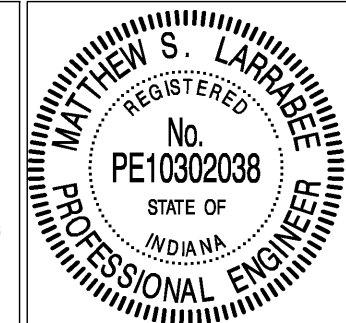
NSM  
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**LEGEND**

- RIPRAP CHECK DAM
- RIPRAP CHECK DAM (ROCK HORSESHOE)
- PERIMETER PROTECTION

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300    509 WEST 84TH DRIVE, SUITE G  
 INDIANAPOLIS, IN. 46240    MERRILLVILLE, IN. 46410  
 317 713-4615    219 769-2333  
 FAX 317 713-4616    FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER    DATE

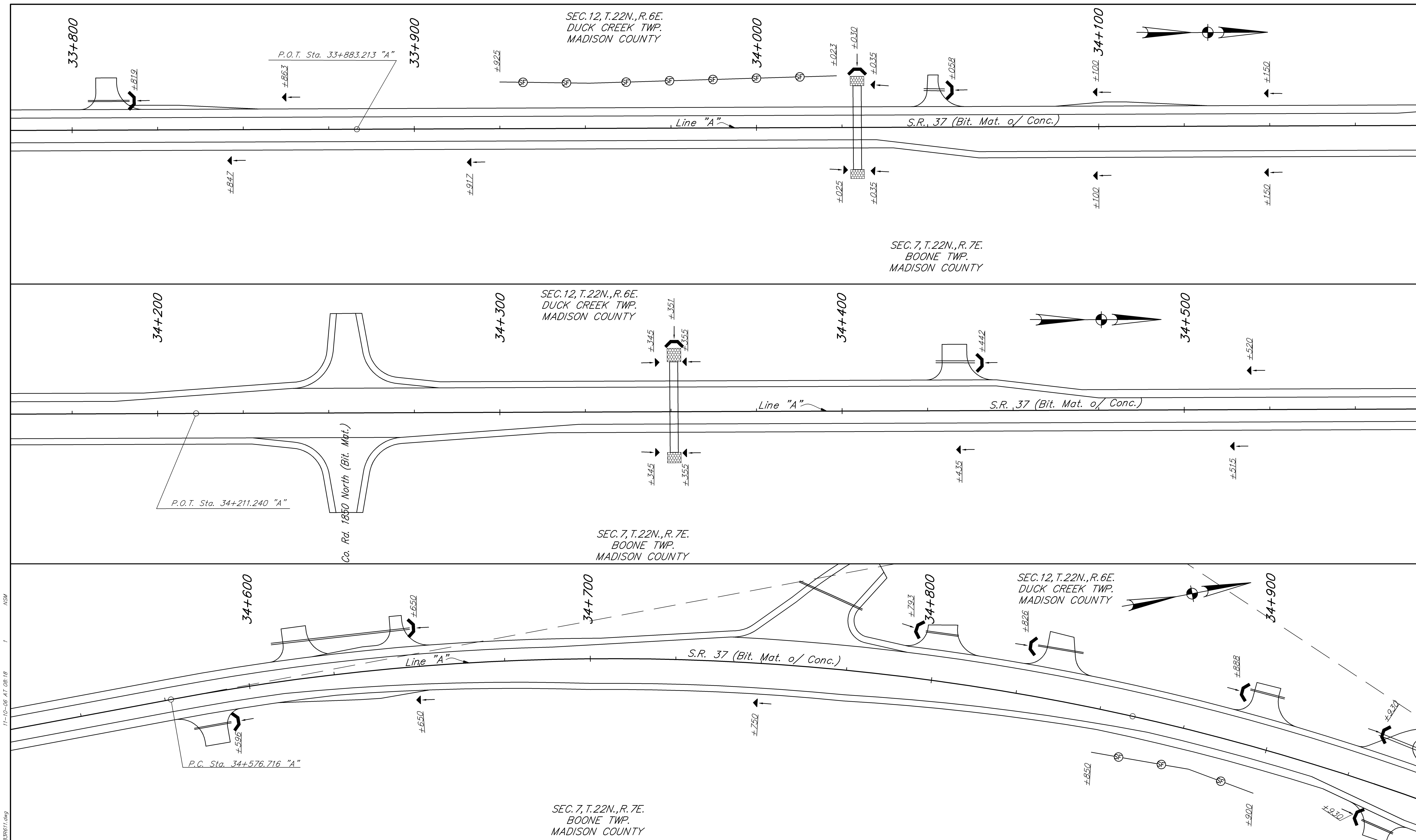
DESIGNED: JLB    DRAWN: JM  
 CHECKED: BZ    CHECKED: JLB

INDIANA  
DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL  
STATE ROAD 37**

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
CONTRACT R-28934	90 OF 292 PROJECT STP-097-9(005)

BFS NO. 3783.07



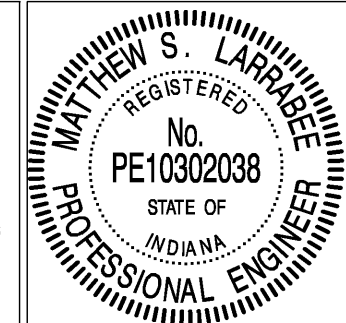
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 11-10-06 AT 08:18  
 NSM

**LEGEND**

- RIPRAP CHECK DAM
- RIPRAP CHECK DAM (ROCK HORSESHOE)
- PERIMETER PROTECTION

SEC. 7, T. 22N., R. 7E.  
 BOONE TWP.  
 MADISON COUNTY

**BFS**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377



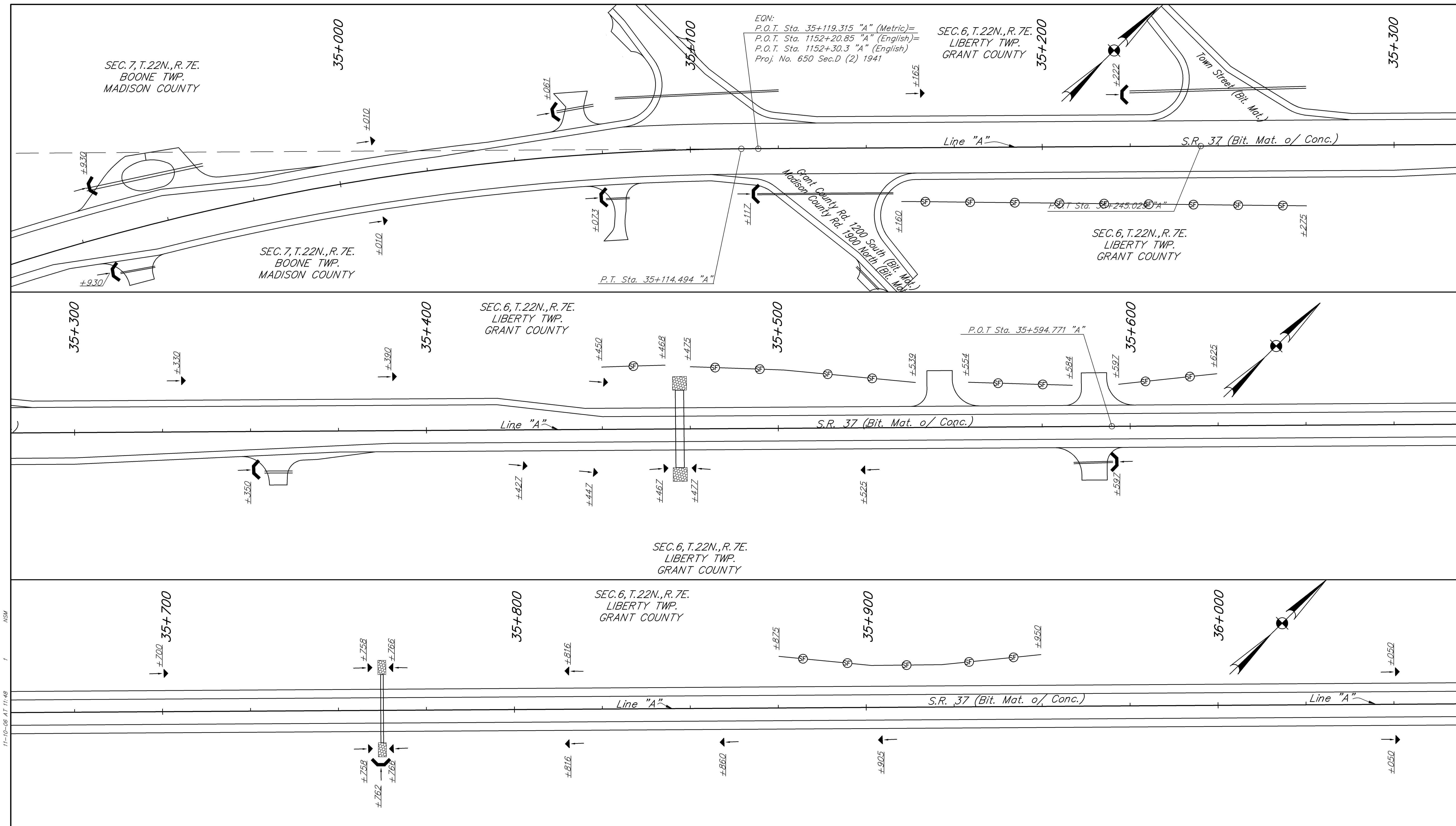
RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	91 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07



EQN:  
 P.O.T. Sta. 35+119.315 "A" (Metric)=  
 P.O.T. Sta. 1152+20.85 "A" (English)=  
 P.O.T. Sta. 1152+30.3 "A" (English)  
 Proj. No. 650 Sec.D (2) 1941

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 7, T. 22N., R. 7E.  
 BOONE TWP.  
 MADISON COUNTY

SEC. 7, T. 22N., R. 7E.  
 BOONE TWP.  
 MADISON COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

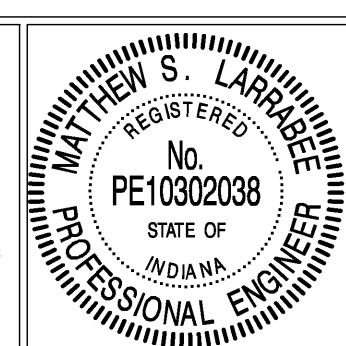
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 11-10-06 AT 11:48  
 NSM

- LEGEND**
- RIPRAP CHECK DAM
  - RIPRAP CHECK DAM (ROCK HORSESHOE)
  - PERIMETER PROTECTION

**BE&S**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300  
 INDIANAPOLIS, IN. 46240  
 317 713-4615  
 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G  
 MERRILLVILLE, IN. 46410  
 219 769-2334  
 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

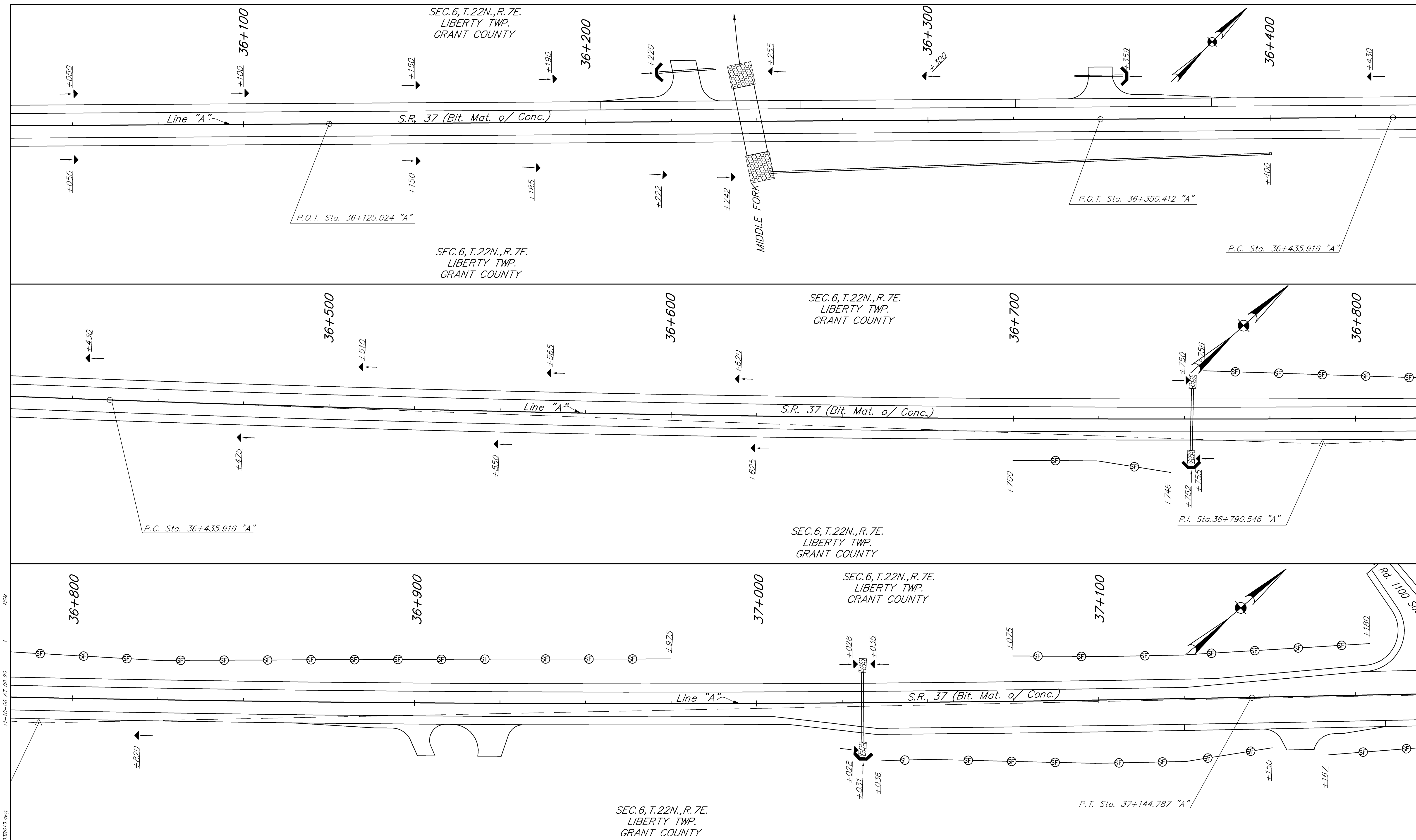
INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	92 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07





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 11-10-06 AT 08:20  
 NSM

**LEGEND**

- RIPRAP CHECK DAM
- RIPRAP CHECK DAM (ROCK HORSESHOE)
- PERIMETER PROTECTION

**BFS**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616

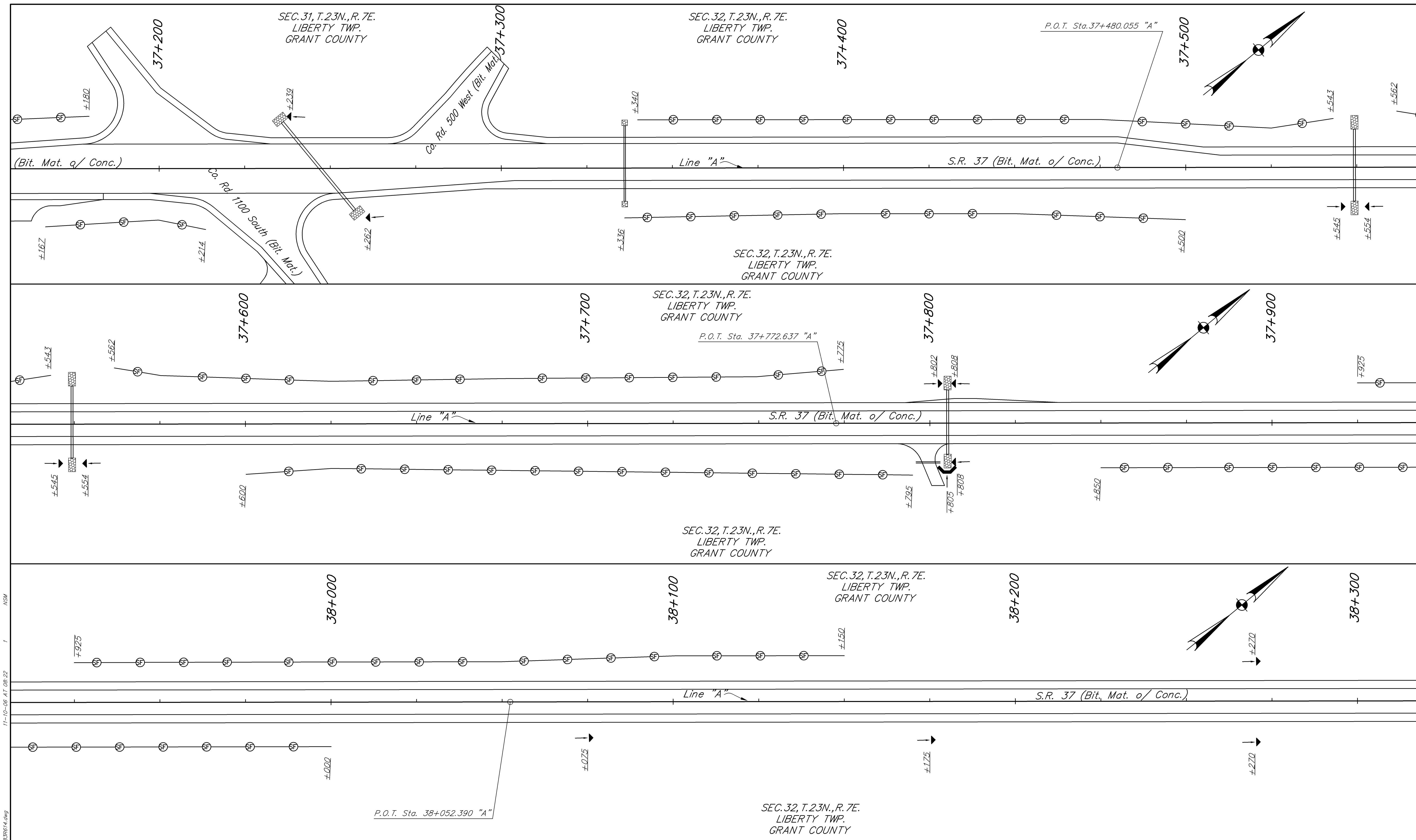
REGISTERED PROFESSIONAL ENGINEER  
 No. PE10302038  
 STATE OF INDIANA  
 MATTHEW S. LARSEN

RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL STATE ROAD 37**

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	93 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07



I:\17251\AUTOCAD\ROAD\17251R614.dwg  
 11-10-06 AT 08:22  
 NSM

- LEGEND**
- RIPRAP CHECK DAM
  - RIPRAP CHECK DAM (ROCK HORSESHOE)
  - PERIMETER PROTECTION

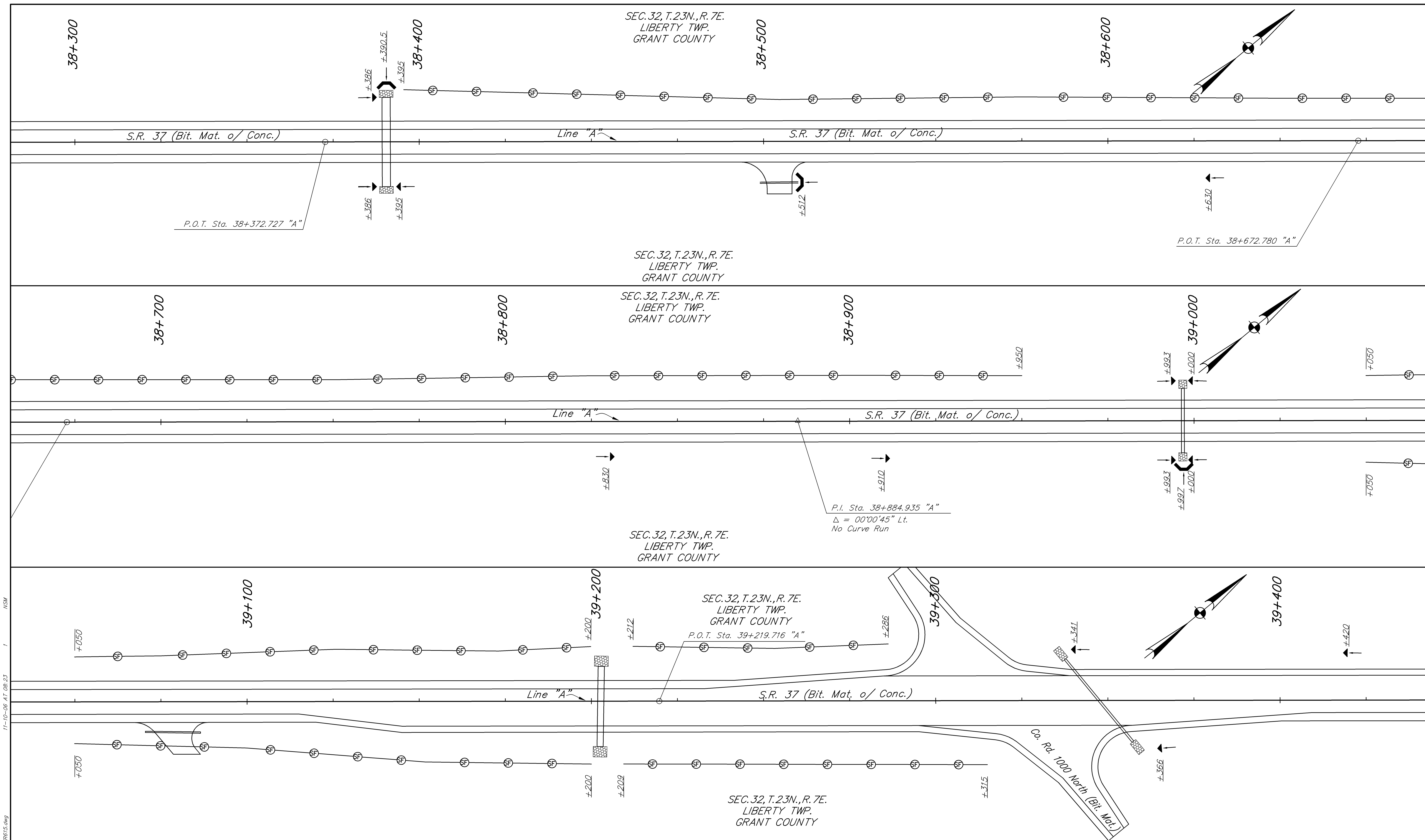
**Butler Fairman Seufert**  
 CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL  
 STATE ROAD 37**

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	94 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

BFS NO. 3783.07



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 11-10-06 AT 08:23  
 NSM

- LEGEND**
- RIPRAP CHECK DAM
  - RIPRAP CHECK DAM (ROCK HORSESHOE)
  - PERIMETER PROTECTION

**Butler Fairman Seufert**  
 CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300    509 WEST 84TH DRIVE, SUITE G  
 INDIANAPOLIS, IN. 46240    MERRILLVILLE, IN. 46410  
 317 713-4615    219 769-2333  
 FAX 317 713-4616    FAX 219 769-2377

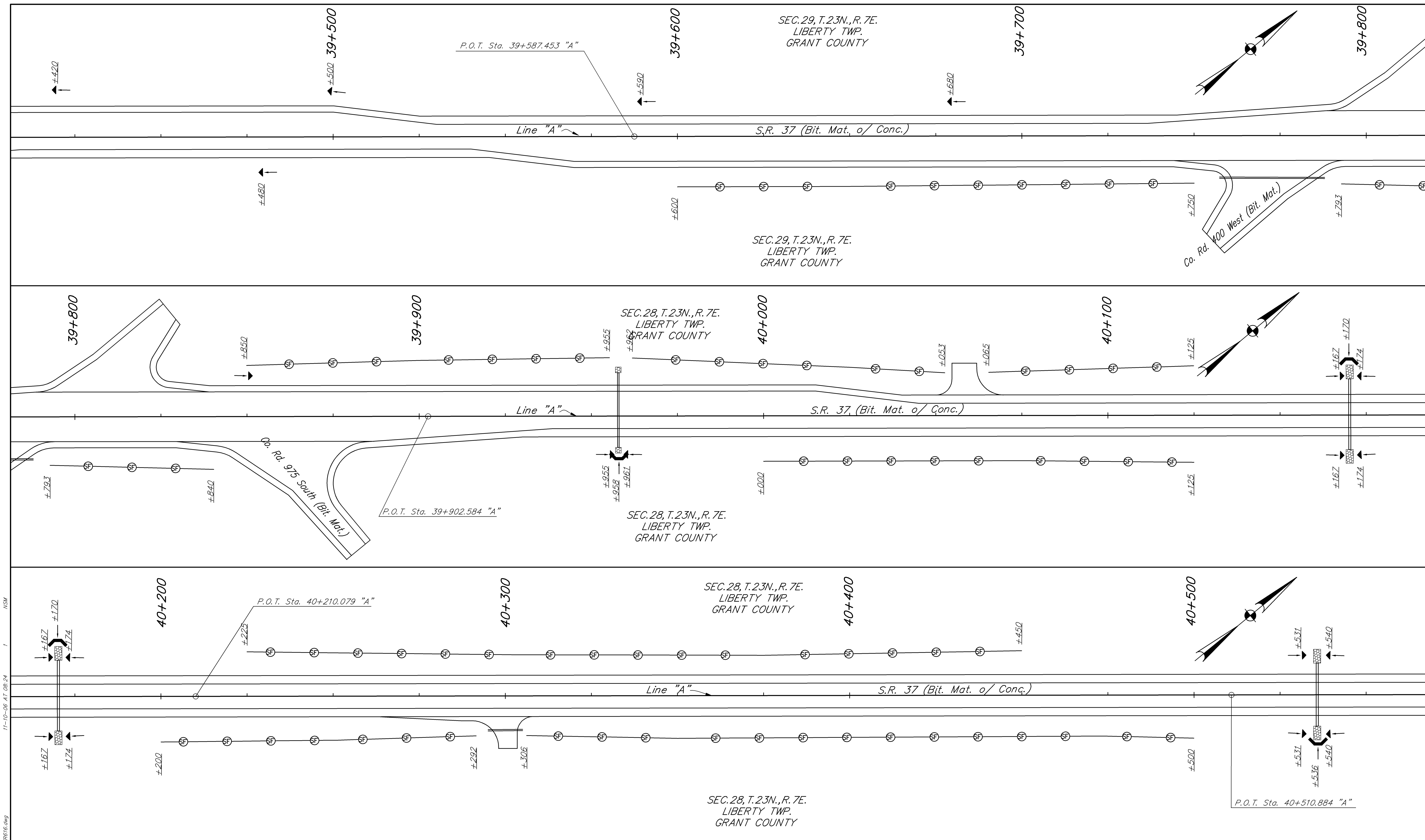
RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL**  
**STATE ROAD 37**

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
CONTRACT R-28934	95 OF 292 PROJECT STP-097-9(005)

BFS NO. 3783.07





I:\11-10-06 AT 08:24  
 NSM  
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- LEGEND**
- RIPRAP CHECK DAM
  - RIPRAP CHECK DAM (ROCK HORSESHOE)
  - PERIMETER PROTECTION

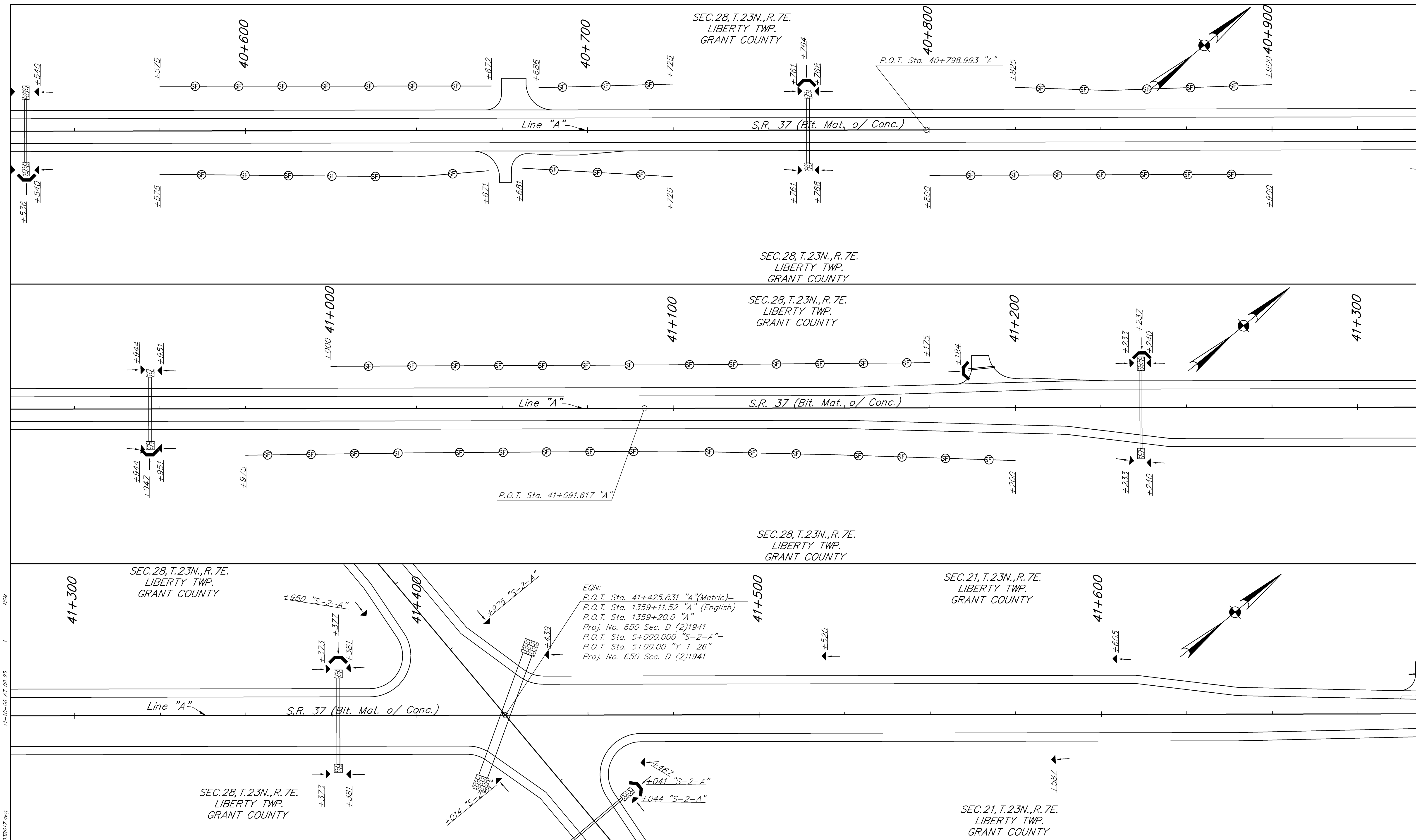
**Butler Fairman Seufert**  
 CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616

RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL STATE ROAD 37**

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 96 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

BFS NO. 3783.07



11-10-06 AT 08:25  
 I  
 NSM  
 F:\17831\AUTOCAD\ROAD\17831R617.dwg

- LEGEND**
- RIPRAP CHECK DAM
  - RIPRAP CHECK DAM (ROCK HORSESHOE)
  - PERIMETER PROTECTION

**Butler Fairman Seufert**  
 CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616

RECOMMENDED FOR APPROVAL: *Matthew Danaher* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL  
 STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 97 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

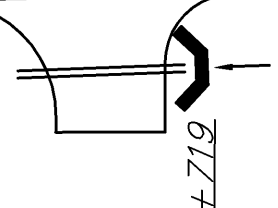
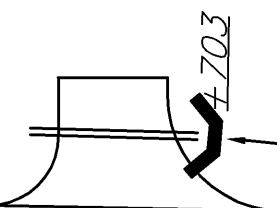
BFS NO. 3783.07

41+700

41+800

SEC. 21, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY

END PROJECT STP-0097-9(005)  
STA. 41+725.000 LINE "A"

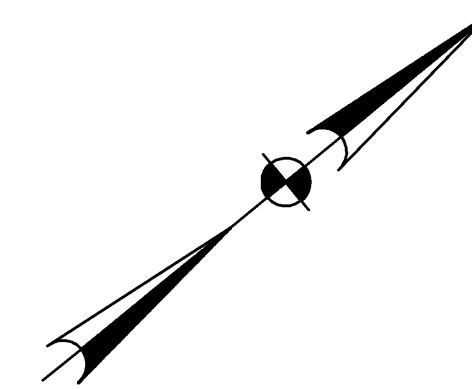


P.O.T. Sta. 41+756.374 "A"

Line "A"

S.R. 37 (Bit. Mat. o/. Conc.)

SEC. 21, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY



F:\172831\AUTOCAD\ROAD\172831R616.dwg 11-10-06 AT 08:26 NSM

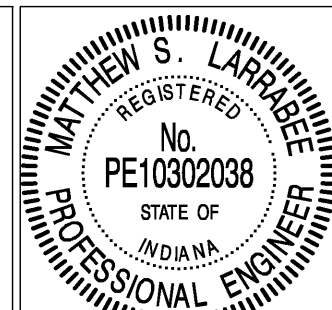
**LEGEND**

- RIPRAP CHECK DAM
- ⤵ RIPRAP CHECK DAM (ROCK HORSESHOE)



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

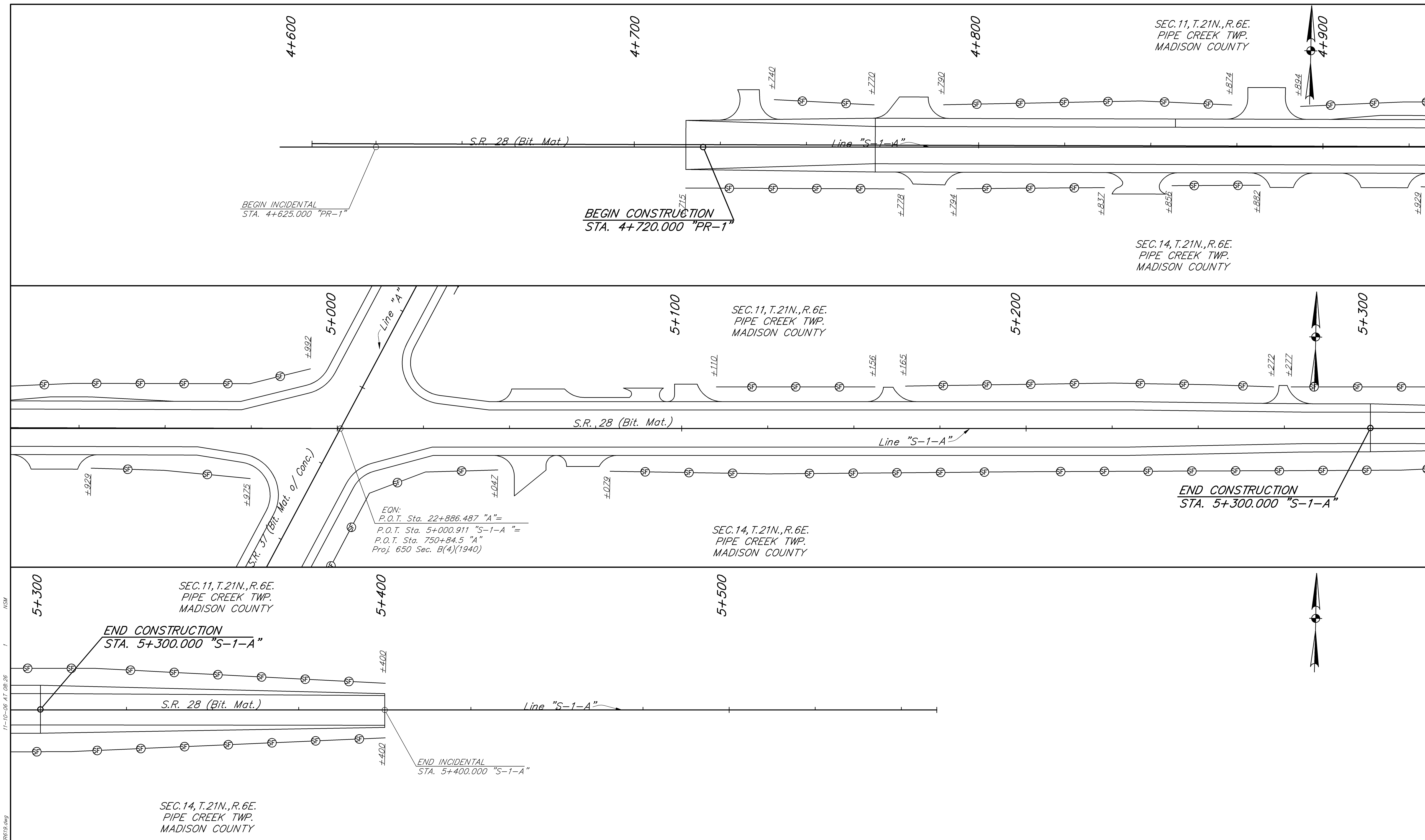
INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	98 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07

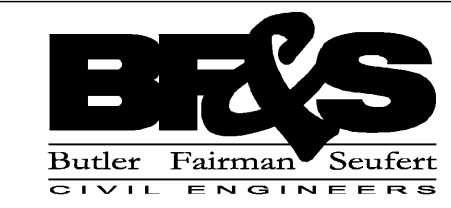




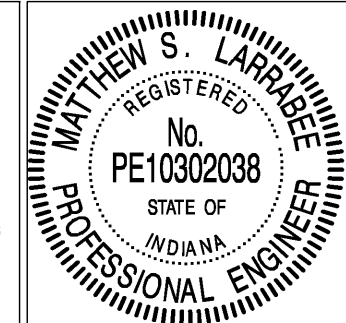
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 P.O.T. Sta. 22+886.487 "A"=  
 P.O.T. Sta. 5+000.911 "S-1-A"=  
 P.O.T. Sta. 750+84.5 "A"=  
 Proj. 650 Sec. B(4)(1940)

**LEGEND**

- RIPRAP CHECK DAM
- RIPRAP CHECK DAM (ROCK HORSESHOE)



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377



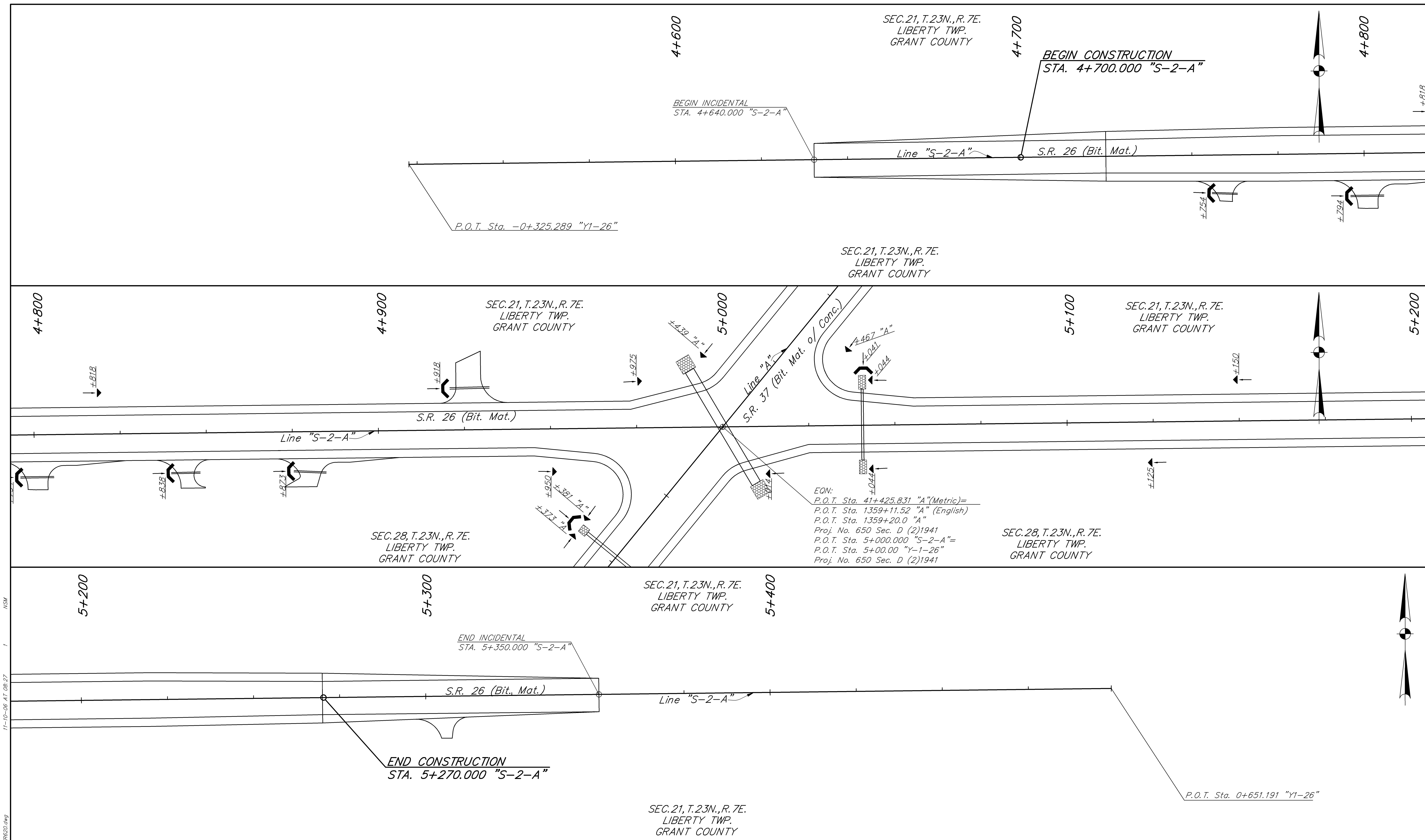
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL STATE ROAD 28

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	99 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

NORTH 1°20'04" 11-10-06 AT 08:26 F:\17281\AUTOCAD\ROAD\17281\B619.dwg

BFS NO. 3783.07



F:\172831\AUTOCAD\ROAD\172831R620.dwg  
 11-10-06 AT 08:27  
 NSM

**LEGEND**

RIPRAP CHECK DAM  
 RIPRAP CHECK DAM (ROCK HORSESHOE)

**BE&S**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 715-4615 FAX 317 715-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
 No. PE10302038  
 STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Matthew J. Vanabe* 11/10/06  
 DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL STATE ROAD 26

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	100 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07

TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	RIGHT				
<i>Line "A"</i>				ft	Mq	EA.	
22+550	22+790		✓	240			
22+577		✓			5		
22+660		✓			3		
22+706		✓				1	
22+800	22+875		✓	75			
22+818		✓			5		
22+935		✓			3		
22+940		✓			3		
22+985		✓			3		
22+987		✓			5		
23+035		✓			5		
23+062			✓		5		
23+112		✓			5		
23+123			✓		5		
23+164			✓		5		
23+183		✓			5		
23+223			✓		3		
23+283		✓			3		
23+283			✓		3		
23+287		✓			5		
23+291		✓			3		
23+325	23+386	✓		61			
23+357			✓		5		
23+401	23+439	✓		38			
23+440			✓		3		
23+453	23+500	✓		47			
23+551		✓			3		
23+551			✓		3		
23+555		✓			5		
23+559		✓			3		
23+559			✓		3		
23+635	23+725	✓		90			
23+664			✓		3		
23+738			✓		3		
23+744			✓		5		
23+752	23+850		✓	98	3		
23+755	23+875	✓		120	3		
23+920		✓			3		
TOTAL				769	119	1	

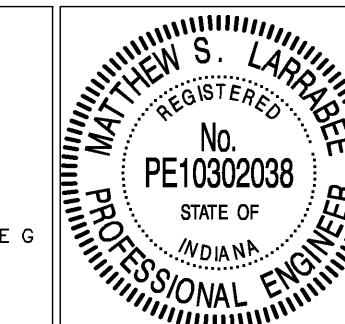
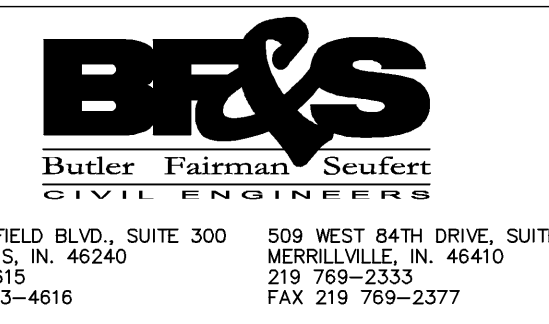
TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	RIGHT				
<i>Line "A"</i>				m	Mq	EA.	
23+975		✓			3		
23+990			✓		3		
24+067			✓		5		
24+075	24+144	✓		69			
24+148		✓			5		
24+172			✓		5		
24+285			✓		3		
24+294		✓			5		
24+365			✓		3		
24+400		✓			3		
24+460			✓		5		
24+500		✓			3		
24+567			✓		5		
24+600		✓			3		
24+625	24+725	✓		100			
24+627			✓		5		
24+650	24+750		✓	100			
24+775		✓			3		
24+775			✓		3		
24+780			✓		5		
24+785		✓			3		
24+785			✓		3		
24+856			✓		5		
24+870		✓			3		
24+916		✓			5		
24+937			✓		3		
25+010		✓			3		
25+017			✓		5		
25+100		✓			3		
25+130			✓		3		
25+200		✓			3		
25+240			✓		3		
25+375	25+500	✓		125			
25+400	24+550		✓	150			
25+569		✓			3		
25+569			✓		3		
25+573			✓		5		
25+576			✓		3		
TOTAL				544	123		

TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	RIGHT				
<i>Line "A"</i>				m	Mq	EA.	
25+635			✓		3		
25+694		✓			5		
25+789			✓		5		
25+800		✓			3		
25+836			✓		5		
25+894		✓			5		
25+930		✓			5		
25+950			✓		3		
26+050		✓			3		
26+050	26+200		✓	150	3		
26+150		✓			3		
26+216			✓		3		
26+221			✓		5		
26+227			✓		3		
26+250		✓			3		
26+340			✓		3		
26+350		✓			3		
26+435			✓		3		
26+436		✓			5		
26+476		✓			5		
26+530			✓		3		
26+555		✓			3		
26+625		✓			3		
26+625			✓		3		
26+631			✓		5		
26+694			✓		3		
26+722		✓			5		
26+735			✓		5		
26+810		✓			3		
26+815			✓		3		
26+895			✓		3		
26+900	26+958	✓		58			
26+972	26+989	✓		17			
27+022		✓			5		
27+025			✓		3		
27+027		✓			3		
27+120		✓			3		
27+140			✓		3		
TOTAL				225	132		

F:\17251\AUTOCAD ROAD\17251R021.dwg 11-10-06 AT 08:31 NSM



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: MSL DRAWN: NSM  
 CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL TABLE**

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	101 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07



TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION			TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	MEDIAN	RIGHT				
Line "A"					m	Mq	EA.	
27+215		✓				3		
27+225			✓			3		
27+300	27+550	✓			250			
27+383			✓			5		
27+430			✓			5		
27+559		✓				3		
27+563			✓			5		
27+566		✓				3		
27+566			✓			3		
27+650			✓			3		
27+675		✓				3		
27+760		✓				3		
27+763			✓			5		
27+822			✓			5		
27+890			✓			3		
27+951		✓				3		
27+955		✓				5		
27+959		✓				3		
28+000			✓			3		
28+006		✓				5		
28+080		✓				3		
28+100			✓			3		
28+230		✓				3		
28+300			✓			3		
28+315		✓				3		
28+396			✓			3		
28+398		✓				3		
28+400			✓			5		
28+438			✓			5		
28+589		✓				3		
28+594		✓				5		
28+630	28+687	✓			57			
28+683			✓			5		
28+696	28+775	✓			79			
28+750			✓			3		
28+793		✓				3		
28+793			✓			3		
28+797		✓				5		
TOTAL					386	129		

TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION			TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	MEDIAN	RIGHT				
Line "A"					m	Mq	EA.	
28+801		✓				3		
28+801			✓			3		
28+825	29+000	✓			175			
28+853			✓			5		
28+904			✓			5		
28+950			✓			5		
29+033		✓				3		
29+033			✓			3		
29+037			✓			5		
29+041		✓				3		
29+041			✓			3		
29+142			✓			5		
29+174			✓			5		
29+183		✓				5		
29+219		✓				5		
29+279		✓				3		
29+279			✓			3		
29+283		✓				5		
29+287		✓				3		
29+287			✓			3		
29+320			✓			3		
29+540		✓				3		
29+630		✓				3		
29+655			✓			3		
29+720		✓				3		
29+755			✓			3		
29+818		✓				5		
29+850			✓			3		
29+870		✓				3		
29+870			✓			3		
29+942		✓				5		
29+975			✓			3		
30+020		✓				3		
30+085			✓			3		
30+100		✓				3		
30+240	30+300		✓		60			
30+320		✓				3		
30+344			✓			5		
TOTAL					235	132		

TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION			TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	MEDIAN	RIGHT				
Line "A"					m	Mq	EA.	
30+320		✓				5		
30+392			✓			5		
30+432			✓			5		
30+475	30+619		✓		144			
30+510		✓				3		
30+629		✓				3		
30+632			✓			5		
30+635		✓				3		
30+635			✓			3		
30+700		✓				3		
30+735			✓			3		
30+807		✓				5		
30+841			✓			5		
30+843		✓				5		
30+925	31+015		✓		90			
30+945		✓				3		
31+150		✓				3		
31+156			✓			5		
31+250		✓				3		
31+260			✓			3		
31+350		✓				3		
31+360			✓			3		
31+434		✓				5		
31+460			✓			5		
31+530		✓				3		
31+540			✓			3		
31+610		✓				3		
31+610			✓			3		
31+630		✓				3		
31+630			✓			3		
31+710		✓				3		
31+875			✓			6		
31+875		✓				3		
31+930			✓			3		
31+960		✓				3		
32+050		✓				3		
32+107			✓			5		
TOTAL					234	130		

F:\172831\AUTOCAD ROAD\172831.dwg 11-10-06 AT 08:31 NSM

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 715-4615 FAX 317 715-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2334 FAX 219 769-2377

RECOMMENDED FOR APPROVAL: Matthew Lanphear 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: MSL DRAWN: NSM  
CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL TABLE

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	102 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	RIGHT				
Line "A"				m	Mq	EA.	
32+137			✓		5		
32+140		✓			3		
32+220		✓			3		
32+232			✓		3		
32+400		✓			3		
32+410			✓		3		
32+481		✓			3		
32+481			✓		3		
32+491		✓			3		
32+491			✓		3		
32+550	32+615	✓		65			
32+560			✓		3		
32+660			✓		3		
32+725		✓			3		
32+725		✓			3		
32+807		✓			5		
32+829		✓			5		
32+910		✓			3		
32+910		✓			3		
33+020		✓			3		
33+020		✓			3		
33+120		✓			3		
33+120		✓			3		
33+225		✓			3		
33+225		✓			3		
33+330		✓			3		
33+330		✓			3		
33+459		✓			5		
33+461		✓			5		
33+530		✓			3		
33+570		✓			3		
33+643		✓			5		
33+680		✓			3		
33+707		✓			3		
33+720		✓			3		
33+773		✓			3		
33+777		✓			3		
33+819		✓			5		
TOTAL				65	125		

TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	RIGHT				
Line "A"				m	Mq	EA.	
33+847			✓		3		
33+863		✓			3		
33+917			✓		3		
33+925	34+023	✓		98			
34+025			✓		3		
34+030		✓			5		
34+035		✓			3		
34+035			✓		3		
34+058		✓			5		
34+100		✓			3		
34+100			✓		3		
34+150		✓			3		
34+150			✓		3		
34+345		✓			3		
34+345			✓		3		
34+351		✓			5		
34+355		✓			3		
34+355			✓		3		
34+435			✓		3		
34+442		✓			5		
34+515			✓		3		
34+520		✓			3		
34+596			✓		5		
34+650		✓			5		
34+650			✓		3		
34+750			✓		3		
34+793		✓			5		
34+826		✓			5		
34+850	34+900		✓	50	3		
34+888		✓			5		
34+930		✓			5		
34+930			✓		5		
35+010		✓			3		
35+010			✓		3		
35+061		✓			5		
35+073			✓		5		
35+117			✓		5		
35+160	35+275		✓	115			
TOTAL				263	136		

TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	RIGHT				
Line "A"				m	Mq	EA.	
35+165		✓			3		
35+222		✓			5		
35+330		✓			3		
35+350			✓		5		
35+390		✓			3		
35+427			✓		3		
35+447			✓		3		
35+450	35+468	✓		18	3		
35+467			✓		3		
35+475	35+539	✓		64			
35+477			✓		3		
35+525			✓		3		
35+554	35+584	✓		30			
35+597	35+625	✓		28			
35+597			✓		5		
35+700		✓			3		
35+758		✓			3		
35+758			✓		3		
35+762			✓		5		
35+766		✓			3		
35+766			✓		3		
35+816		✓			3		
35+816			✓		3		
35+860			✓		3		
35+875	35+950	✓		75			
35+905			✓		3		
36+050		✓			3		
36+050			✓		3		
36+100		✓			3		
36+150		✓			3		
36+150			✓		3		
36+185			✓		3		
36+190		✓			3		
36+220		✓			5		
36+222			✓		3		
36+242			✓		3		
36+255		✓			3		
36+255			✓		3		
TOTAL				215	109		

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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 715-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2334 FAX 219 769-2377

RECOMMENDED FOR APPROVAL: Matthew J. Anable 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: MSL DRAWN: NSM  
CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL TABLE

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	102A OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	RIGHT				
Line "A"				m	Mq	EA.	
36+290			✓		3		
36+300		✓			3		
36+320							
36+350							
36+359		✓			5		
36+375							
36+400			✓		3		
36+430		✓			3		
36+475			✓		3		
36+510		✓			3		
36+550			✓		3		
36+565		✓			3		
36+620		✓			3		
36+625			✓		3		
36+700	36+746		✓	46			
36+750		✓			3		
36+752			✓		5		
36+755			✓		3		
36+756	36+975	✓		219			
36+820			✓		3		
37+028		✓			3		
37+028			✓		3		
37+031			✓		5		
37+035		✓			3		
37+036	37+150		✓	114			
37+075	37+180	✓		105			
37+167	37+214		✓	47			
37+239		✓			3		
37+262			✓		3		
37+336	37+500		✓	164			
37+340	37+543	✓		203			
37+545			✓		3		
37+554			✓		3		
37+562	37+775	✓		213			
37+600	37+795		✓	195			
37+802		✓			3		
37+805			✓		5		
37+808		✓			3		
TOTAL				1306	86		

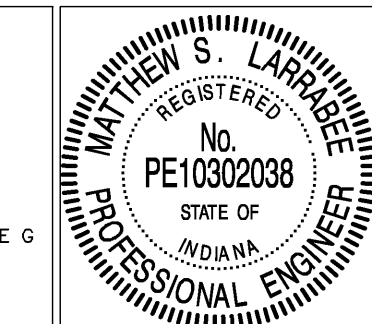
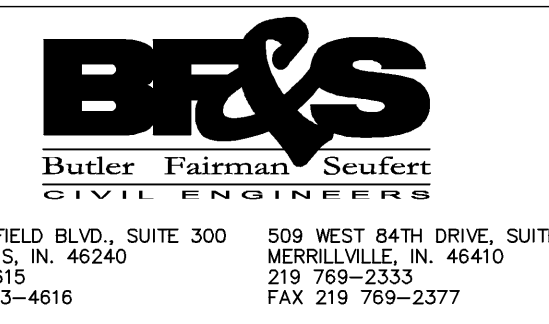
TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	RIGHT				
Line "A"				m	Mq	EA.	
37+808			✓		3		
37+850	38+000		✓	150			
37+925	38+150	✓		225			
38+075			✓		3		
38+175			✓		3		
38+270		✓			3		
38+270			✓		3		
38+386		✓			3		
38+386			✓		3		
38+390.5		✓			5		
38+395	38+950	✓		555			
38+395			✓		3		
38+512			✓		5		
38+630			✓		3		
38+830			✓		3		
38+910			✓		3		
38+993		✓			3		
38+993			✓		3		
38+997			✓		5		
39+000		✓			3		
39+000			✓		3		
39+050	39+200	✓		150			
39+050	39+200		✓	150			
39+209	39+315		✓	106			
39+212	39+286	✓		74			
39+341		✓			3		
39+366			✓		3		
39+420		✓			3		
39+480			✓		3		
39+500		✓			3		
39+590		✓			3		
39+600	39+750		✓	150			
39+680		✓			3		
39+793	39+840		✓	47			
39+850	39+955	✓		105	3		
39+955			✓		3		
39+958			✓		5		
39+961			✓		3		
TOTAL				1712	95		

TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	RIGHT				
Line "A"				m	Mq	EA.	
39+962	40+053	✓		91			
40+000	40+125		✓	125			
40+065	40+125	✓		60			
40+167		✓			3		
40+170		✓			5		
40+174		✓			3		
40+167			✓		3		
40+174			✓		3		
40+200	40+292		✓	92			
40+225	40+450	✓		225			
40+306	40+500		✓	194			
40+531			✓		3		
40+536			✓		5		
40+540			✓		3		
40+531		✓			3		
40+540		✓			3		
40+575	40+671		✓	96			
40+575	40+672	✓		97			
40+681	40+725		✓	44			
40+686	40+725	✓		39			
40+761		✓			3		
40+764		✓			5		
40+768		✓			3		
40+761			✓		3		
40+768			✓		3		
40+800	40+900		✓	100			
40+825	40+900	✓		75			
40+944		✓			3		
40+951		✓			3		
40+944			✓		3		
40+947			✓		5		
40+951			✓		3		
40+975	41+200		✓	225			
41+000	41+175	✓		175			
41+184		✓			5		
41+233		✓			3		
41+237		✓			5		
41+240		✓			3		
TOTAL				1638	84		

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RECOMMENDED FOR APPROVAL: Matthew J. Anable 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: MSL DRAWN: NSM  
CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL TABLE

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	102B OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07



### TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION			TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	MEDIAN	RIGHT				
Line "A"								
41+233				✓	3			
41+240				✓	3			
41+373				✓	3			
41+381				✓	3			
41+373		✓			3			
41+377		✓			5			
41+381		✓			3			
41+439		✓			3			
41+467			✓		3			
41+520		✓			3			
41+587			✓		3			
41+605		✓			3			
41+703		✓			5			
41+719			✓		5			
TOTAL SHT. 101					1538	374	1	
TOTAL SHT. 102					855	391		
TOTAL SHT. 102A					543	370		
TOTAL SHT. 102B					4656	265		
TOTAL SHT. 102C						48		
TOTAL					7592	1448	1	

### TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION			TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	MEDIAN	RIGHT				
Line "S-1-A"								
4+715	4+778			✓	63			
4+740	4+770	✓			30			
4+790	4+874	✓			84			
4+794	4+837			✓	43			
4+856	4+882			✓	26			
4+894	4+992	✓			98			
4+929	4+975			✓	46			
5+009	5+047			✓	38			
5+079	5+400			✓	321			
5+110	5+156	✓			46			
5+165	5+272	✓			107			
5+277	5+400	✓			123			
TOTAL					1025			

### TEMPORARY EROSION CONTROL TABLE

FROM STATION	TO STATION	LOCATION			TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, REVETMENT, RIPRAP	TEMPORARY DITCH INLET PROTECTION	REMARKS
		LEFT	MEDIAN	RIGHT				
Line "S-2-A"								
4+754				✓	5			
4+794				✓	5			
4+818		✓			3			
4+838				✓	5			
4+873				✓	5			
4+918		✓			5			
4+950				✓	3			
4+975		✓			3			
5+014				✓	3			
5+041		✓			5			
5+044		✓			3			
5+044				✓	3			
5+125				✓	3			
5+150		✓			3			
TOTAL					54			

F:\172831\AUTOCAD\ROAD\172831R021.dwg 11-10-06 AT 08:31 NSM

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

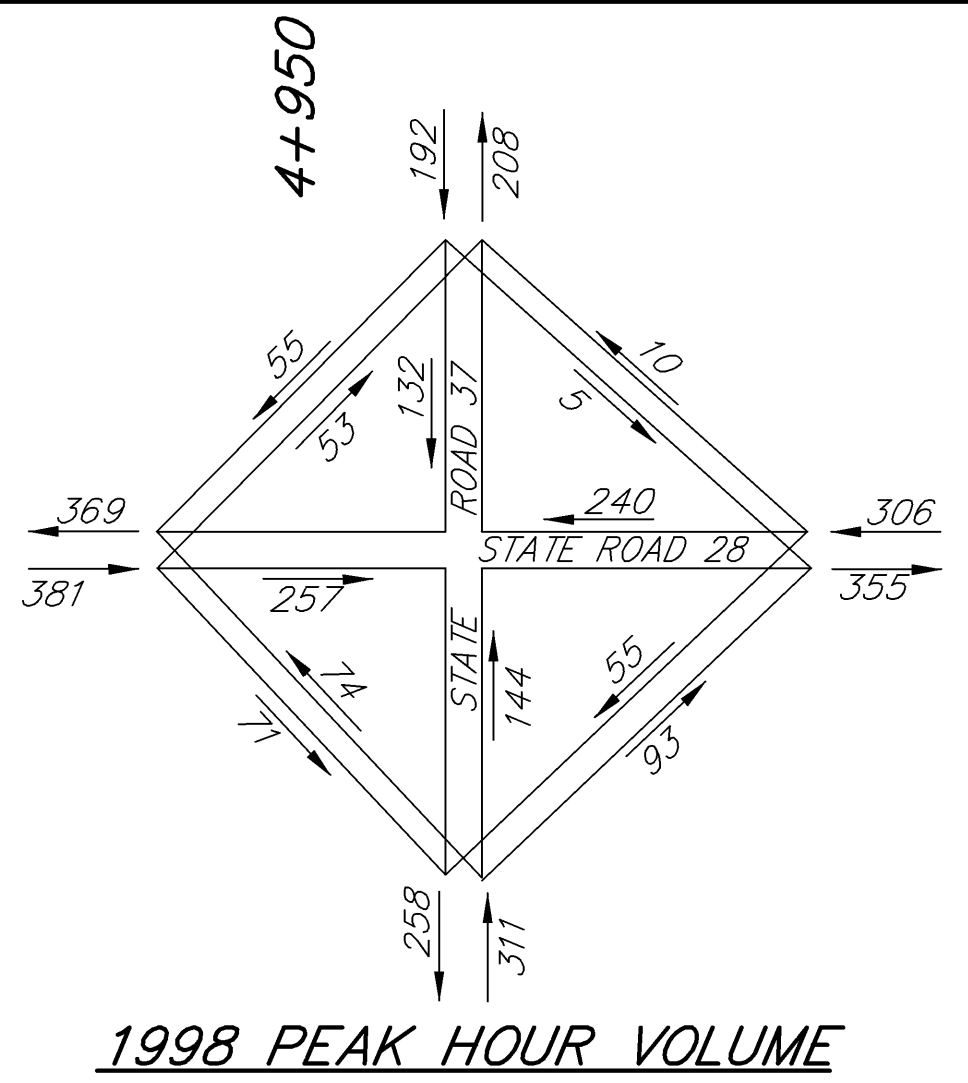
DESIGNED: MSL DRAWN: NSM  
CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

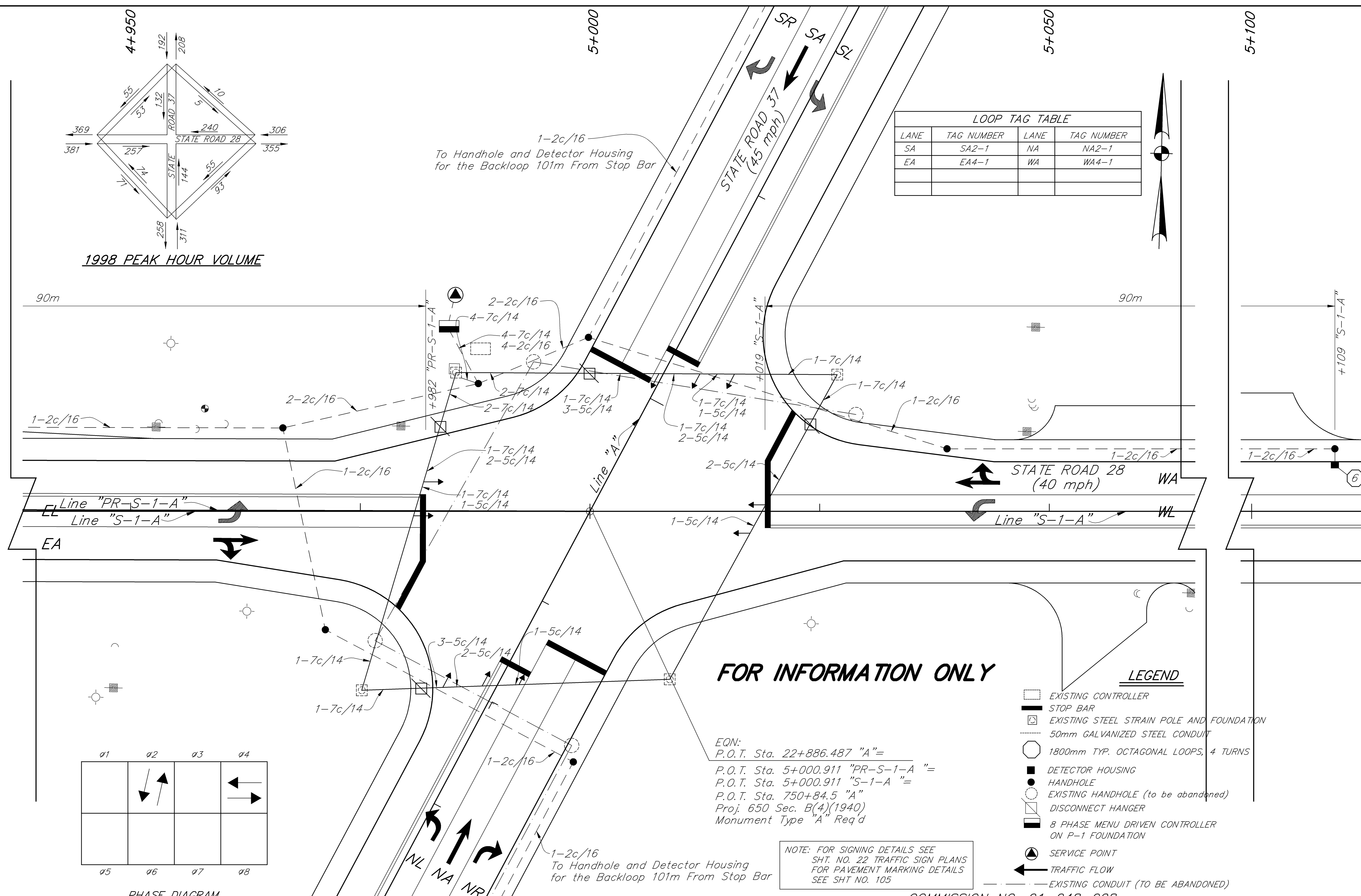
EROSION CONTROL TABLE

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	102C OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07



LANE	TAG NUMBER	LANE	TAG NUMBER
SA	SA2-1	NA	NA2-1
EA	EA4-1	WA	WA4-1



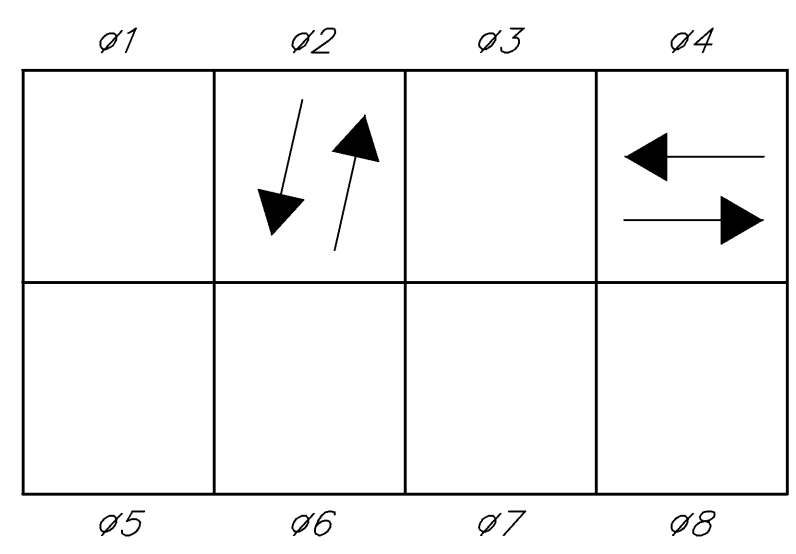
**FOR INFORMATION ONLY**

E.Q.N:  
 P.O.T. Sta. 22+886.487 "A"=  
 P.O.T. Sta. 5+000.911 "PR-S-1-A"=  
 P.O.T. Sta. 5+000.911 "S-1-A"=  
 P.O.T. Sta. 750+84.5 "A"=  
 Proj. 650 Sec. B(4)(1940)  
 Monument Type "A" Req'd

NOTE: FOR SIGNING DETAILS SEE  
 SHT. NO. 22 TRAFFIC SIGN PLANS  
 FOR PAVEMENT MARKING DETAILS  
 SEE SHT. NO. 105

**LEGEND**

- EXISTING CONTROLLER
- ▬ STOP BAR
- ⊠ EXISTING STEEL STRAIN POLE AND FOUNDATION
- 50mm GALVANIZED STEEL CONDUIT
- 1800mm TYP. OCTAGONAL LOOPS, 4 TURNS
- DETECTOR HOUSING
- HANDHOLE
- EXISTING HANDHOLE (to be abandoned)
- ⊠ DISCONNECT HANGER
- ▬ 8 PHASE MENU DRIVEN CONTROLLER ON P-1 FOUNDATION
- ▲ SERVICE POINT
- TRAFFIC FLOW
- EXISTING CONDUIT (TO BE ABANDONED)



COMMISSION NO. 01-048-028

11-10-06 AT 08:44  
 1  
 13781\102040\ROAD\137828649.dwg

**BF&S**  
 Butler Fairman Scufert  
 CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300  
 INDIANAPOLIS, IN. 46240  
 317 733-4615  
 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G  
 MERRILLVILLE, IN. 46410  
 219 769-2333  
 FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
 No. PE10302038  
 STATE OF INDIANA

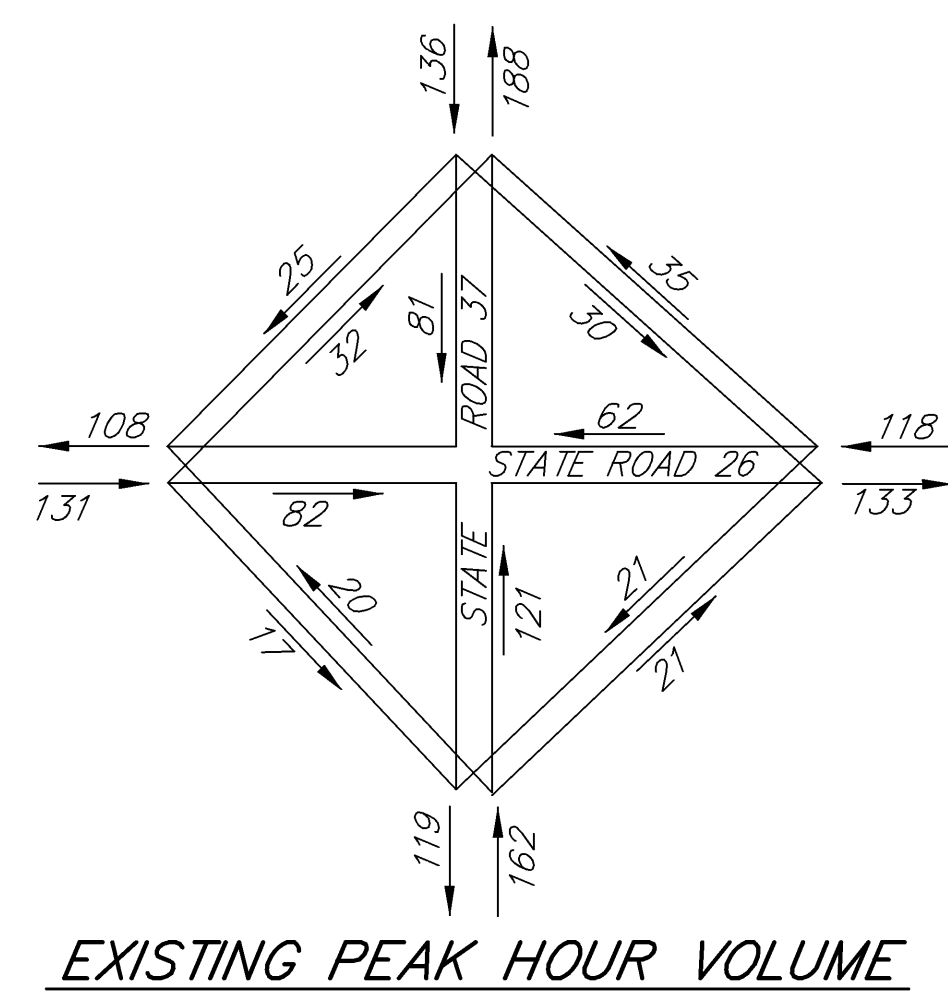
RECOMMENDED FOR APPROVAL:	<i>Matthew S. Anaker</i>	11/10/06
DESIGNED:	JLB	DRAWN: JM
CHECKED:	BZ	CHECKED: JLB

INDIANA  
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL MODERNIZATION**  
 S.R. 37 & S.R. 28  
 MADISON CO., GREENFIELD DST.

HORIZONTAL SCALE	1:200	FILE	3783
VERTICAL SCALE	1:200	DESIGNATION	990658A
SURVEY BOOK		SHEET	103 OF 292
CONTRACT	R-28934	PROJECT	STP-097-9(005)

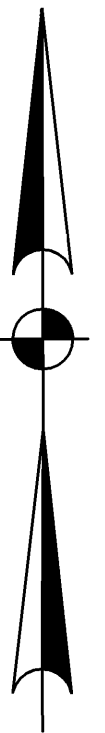
BFS NO. 3783.0703



4+950

5+000

SEC. 21, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY



EQN:  
P.O.T. Sta. 41+425.831 "A" (Metric)=  
P.O.T. Sta. 1359+11.52 "A" (English)  
P.O.T. Sta. 1359+20.0 "A"  
Proj. No. 650 Sec. D (2)1941  
P.O.T. Sta. 5+000.000 "S-2-A"=  
P.O.T. Sta. 5+00.00 "Y-1-26"  
Proj. No. 650 Sec. D (2)1941  
Monument Type "B" Req'd

SEC. 28, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY

STATE ROAD 37  
(55 mph)

**FOR INFORMATION ONLY**

**LEGEND**

- 4-WAY, 1 SECTION, 300mm RED LED SIGNAL INDICATION
- STOP BAR
- EXISTING STEEL STRAIN POLE AND FOUNDATION
- TRAFFIC FLOW
- DISCONNECT HANGER

NOTE: FOR SIGNING DETAILS SEE  
SHT. NO. 37 TRAFFIC SIGN PLANS  
FOR PAVEMENT MARKING DETAILS  
SEE SHT NO. 121

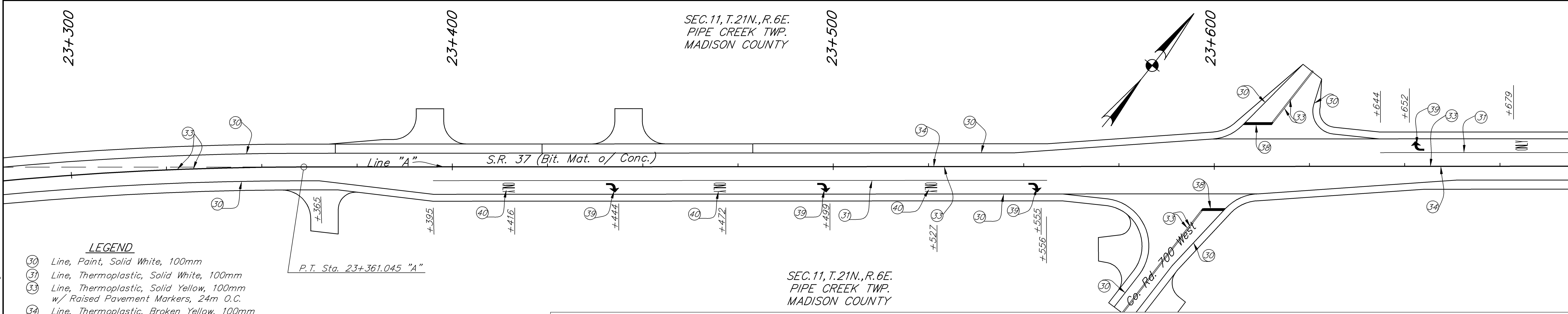
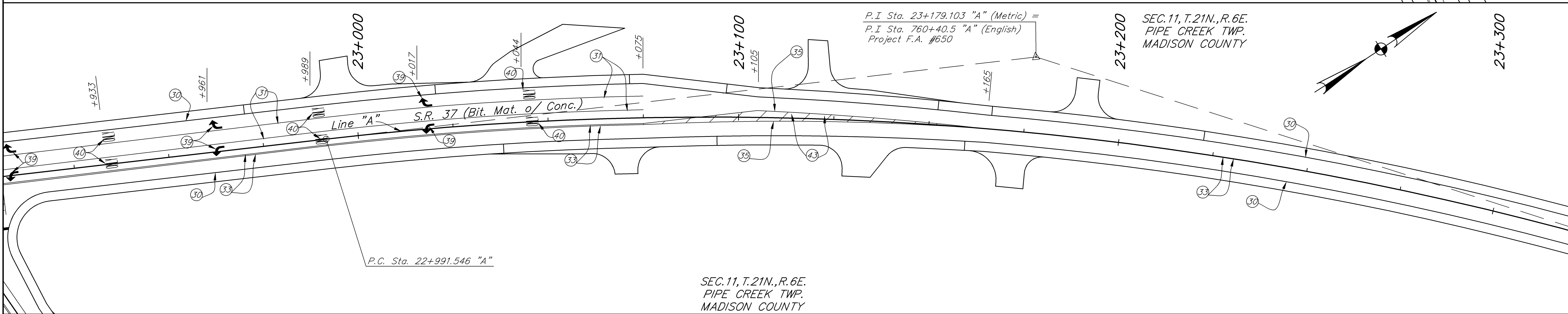
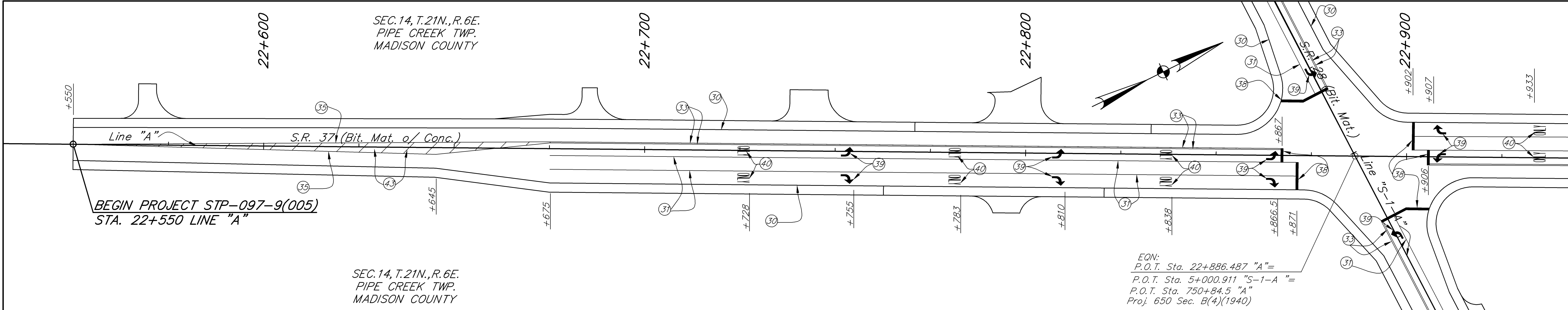
COMMISSION NO. 02-027-008

 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377		RECOMMENDED FOR APPROVAL: <i>Matthew S. Larrabee</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1:200	FILE 3783
		DESIGNED: JLB DRAWN: JM	FLASHING BEACON MODERNIZATION S.R. 37 & S.R. 26 GRANT CO., GREENFIELD DST.		VERTICAL SCALE 1:200	DESIGNATION 990658A
		CHECKED: BZ	CHECKED: JLB	SURVEY BOOK 104		SHEET 292
				CONTRACT R-28934		PROJECT STP-097-9(005)

11-10-06 AT 08:45  
 P:\2781\1070040\ROAD\2781R650.dwg  
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 NSM

BFS NO. 3783.0704





- LEGEND**
- (30) Line, Paint, Solid White, 100mm
  - (31) Line, Thermoplastic, Solid White, 100mm
  - (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (35) Line, Paint, Solid Yellow, 200mm
  - (36) Transverse Marking, Thermoplastic, Stop Line 600mm
  - (39) Pavement Message, Thermoplastic, Lane Indication Arrow
  - (40) Pavement Message, Thermoplastic, Word "ONLY"
  - (A3) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G  
MERRILLVILLE, IN. 46410  
219 769-2334  
FAX 219 769-2377

REGISTERED  
No. PE10302038  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

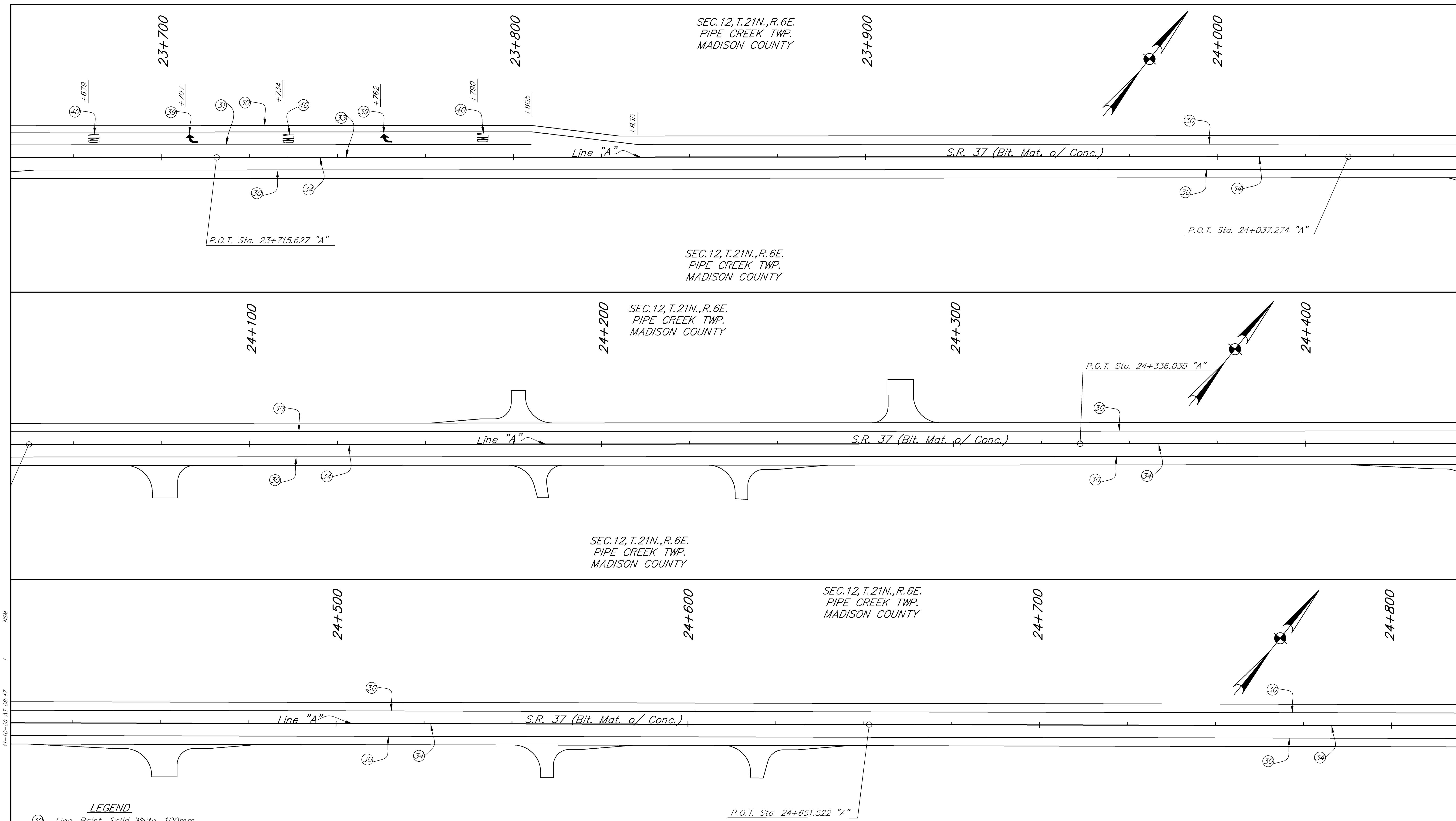
INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	105 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

NSM  
11-10-06 AT 08:46  
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BFS NO. 3783.07



**LEGEND**

- ③① Line, Paint, Solid White, 100mm
- ③② Line, Thermoplastic, Solid White, 100mm
- ③③ Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- ③④ Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- ③⑤ Line, Paint, Solid Yellow, 200mm
- ③⑥ Transverse Marking, Thermoplastic, Stop Line 600mm
- ③⑦ Pavement Message, Thermoplastic, Lane Indication Arrow
- ④① Pavement Message, Thermoplastic, Word "ONLY"
- ④③ Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377

REGISTERED  
No. PE10302038  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

SEC. 12, T. 21N., R. 6E.  
PIPE CREEK TWP.  
MADISON COUNTY

RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

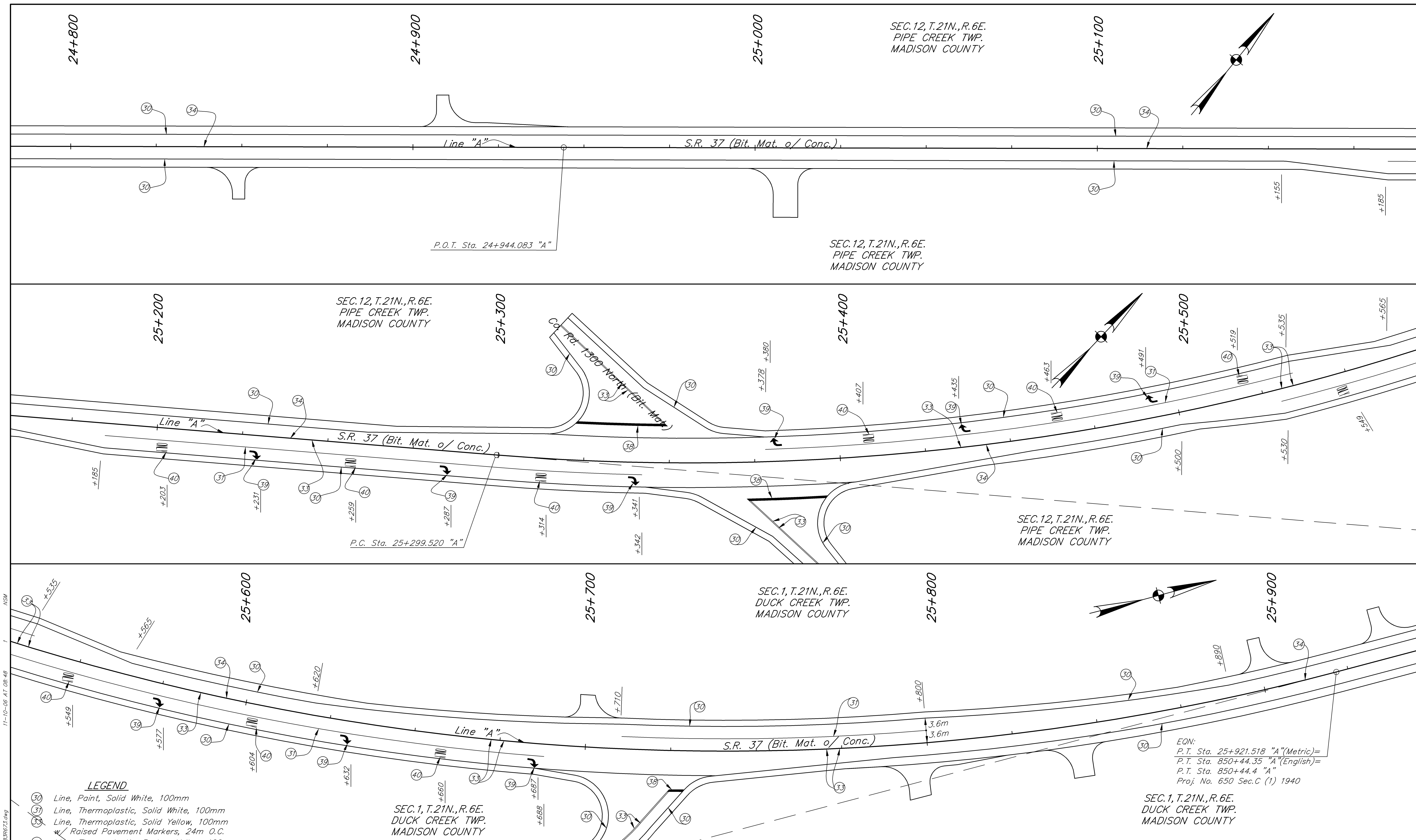
INDIANA  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	106 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

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 NSM

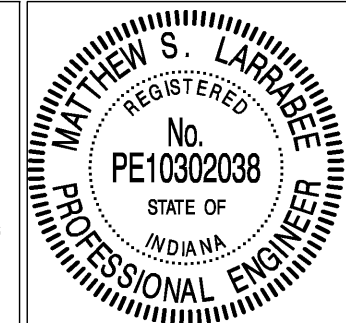
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11-10-06 AT 08:48  
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- LEGEND**
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  - (31) Line, Thermoplastic, Solid White, 100mm
  - (32) Line, Thermoplastic, Solid Yellow, 100mm
  - W/ Raised Pavement Markers, 24m O.C.
  - (34) Line, Thermoplastic, Broken Yellow, 100mm
  - w/ Raised Pavement Markers, 24m O.C.
  - (35) Line, Paint, Solid Yellow, 200mm
  - (36) Transverse Marking, Thermoplastic, Stop Line 600mm
  - (39) Pavement Message, Thermoplastic, Lane Indication Arrow
  - (40) Pavement Message, Thermoplastic, Word "ONLY"
  - (A3) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BE&S**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
 8450 WESTFIELD BLVD., SUITE 300 509 WEST 84TH DRIVE, SUITE G  
 INDIANAPOLIS, IN. 46240 MERRILLVILLE, IN. 46410  
 317 713-4615 219 769-2334  
 FAX 317 713-4616 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

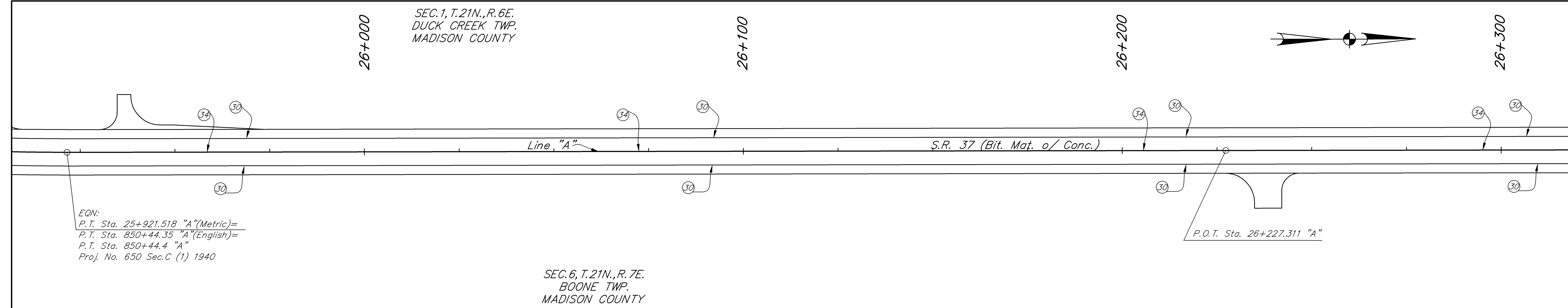
INDIANA DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS**  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	107 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

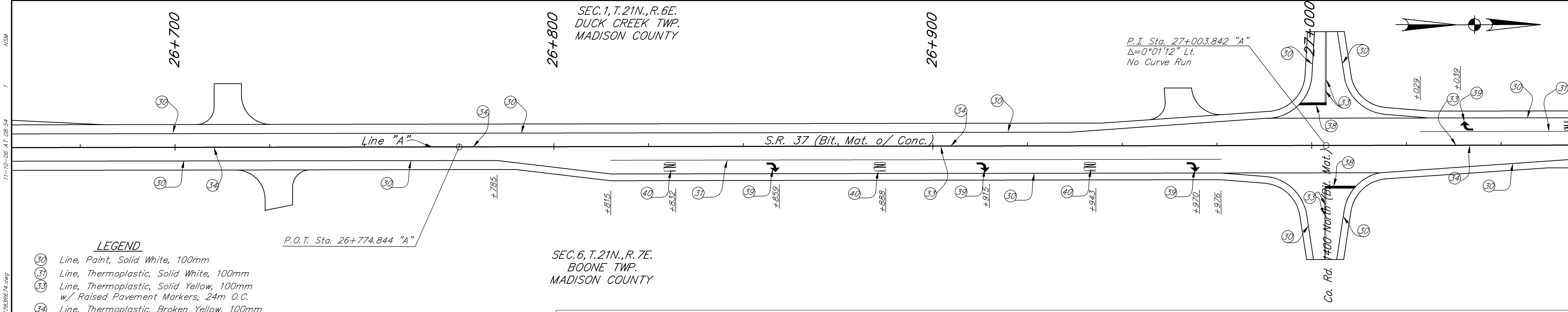
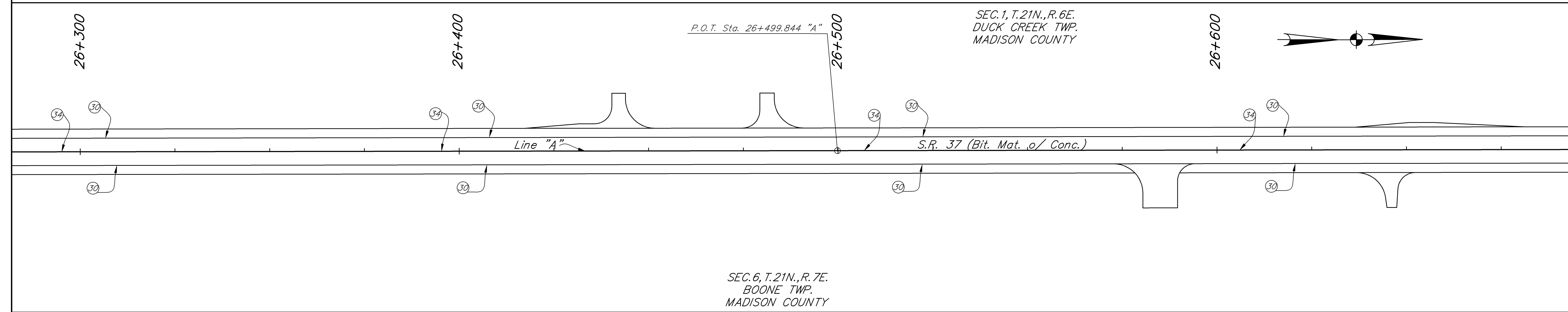
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 P.T. Sta. 850+44.35 "A"(English)=  
 P.T. Sta. 850+44.4 "A"  
 Proj. No. 650 Sec.C (1) 1940

SEC. 1, T. 21N., R. 6E.  
 DUCK CREEK TWP.  
 MADISON COUNTY





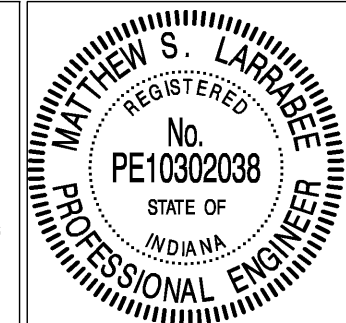
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 P.T. Sta. 850+44.35 "A"(English)=  
 P.T. Sta. 850+44.4 "A"  
 Proj. No. 650 Sec.C (1) 1940



**LEGEND**

- 30 Line, Paint, Solid White, 100mm
- 31 Line, Thermoplastic, Solid White, 100mm
- 33 Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- 34 Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- 35 Line, Paint, Solid Yellow, 200mm
- 38 Transverse Marking, Thermoplastic, Stop Line 600mm
- 39 Pavement Message, Thermoplastic, Lane Indication Arrow
- 40 Pavement Message, Thermoplastic, Word "ONLY"
- 43 Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BF&S**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 715-4615 FAX 317 715-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377



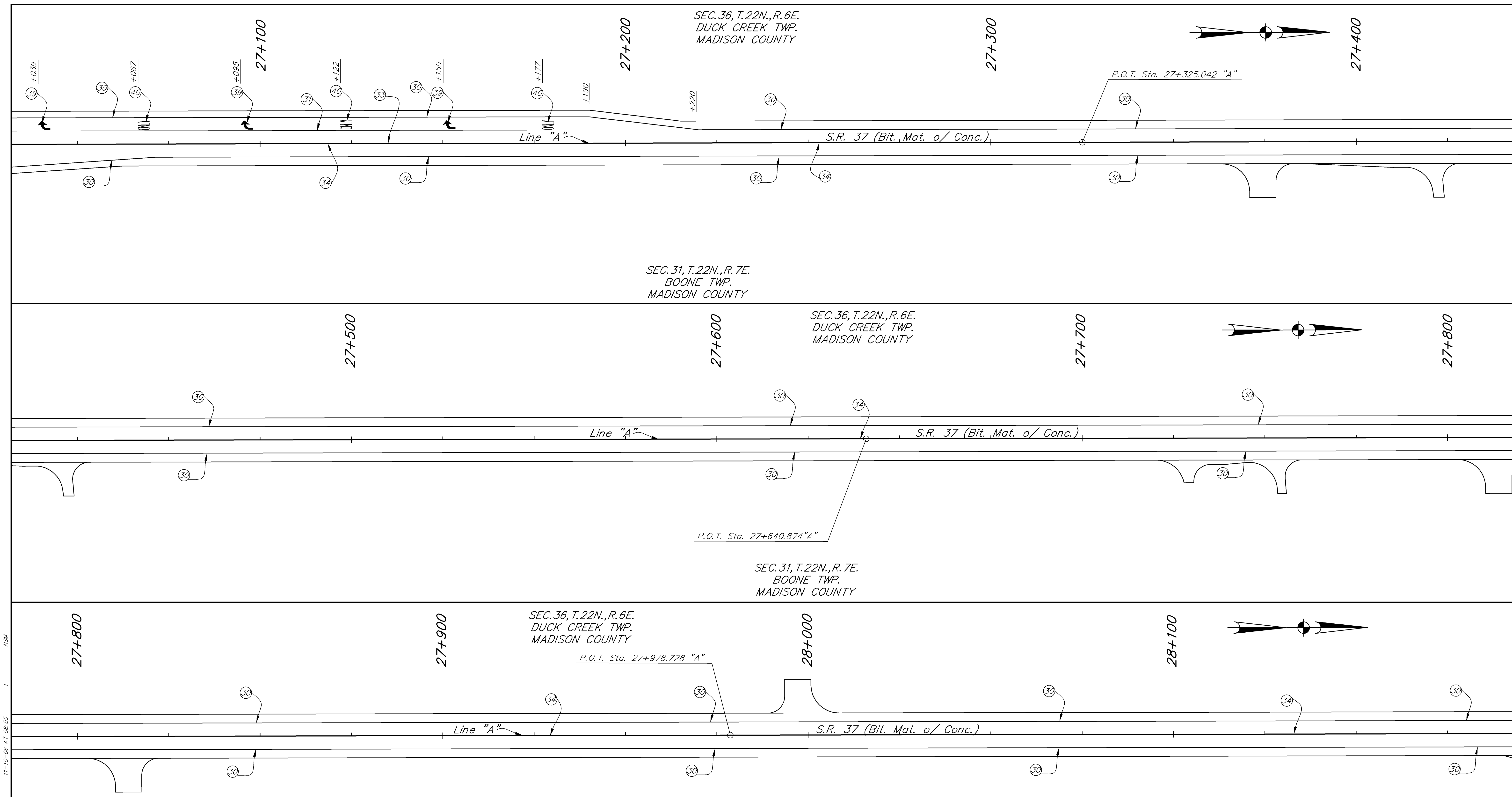
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS**  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	108 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

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 NSM

BFS NO. 3783.07

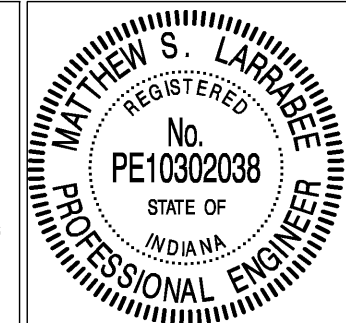


**LEGEND**

- (30) Line, Paint, Solid White, 100mm
- (31) Line, Thermoplastic, Solid White, 100mm
- (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (35) Line, Paint, Solid Yellow, 200mm
- (38) Transverse Marking, Thermoplastic, Stop Line 600mm
- (39) Pavement Message, Thermoplastic, Lane Indication Arrow
- (40) Pavement Message, Thermoplastic, Word "ONLY"
- (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

SEC. 31, T. 22N., R. 7E.  
BOONE TWP.  
MADISON COUNTY

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 715-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377



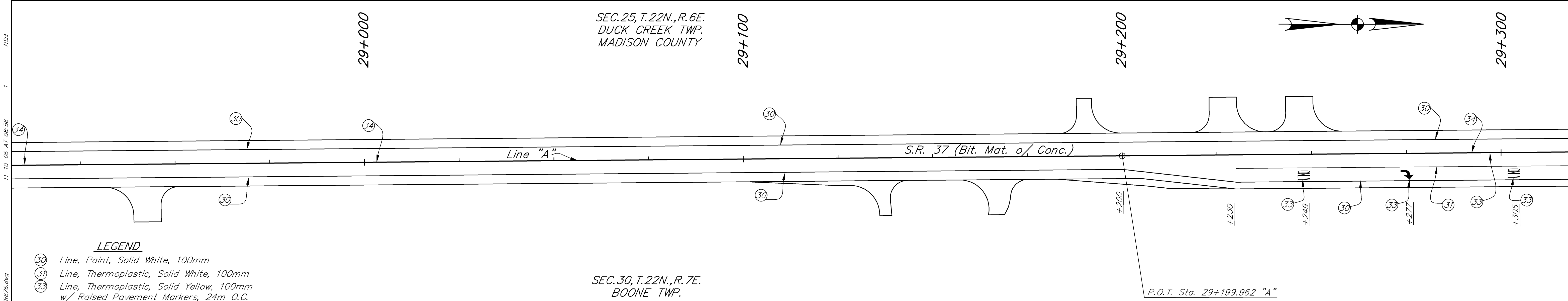
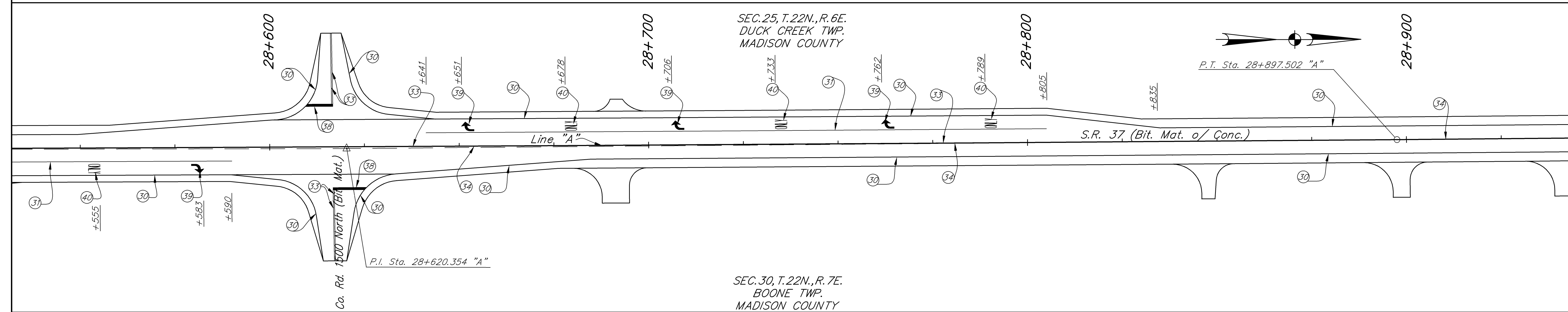
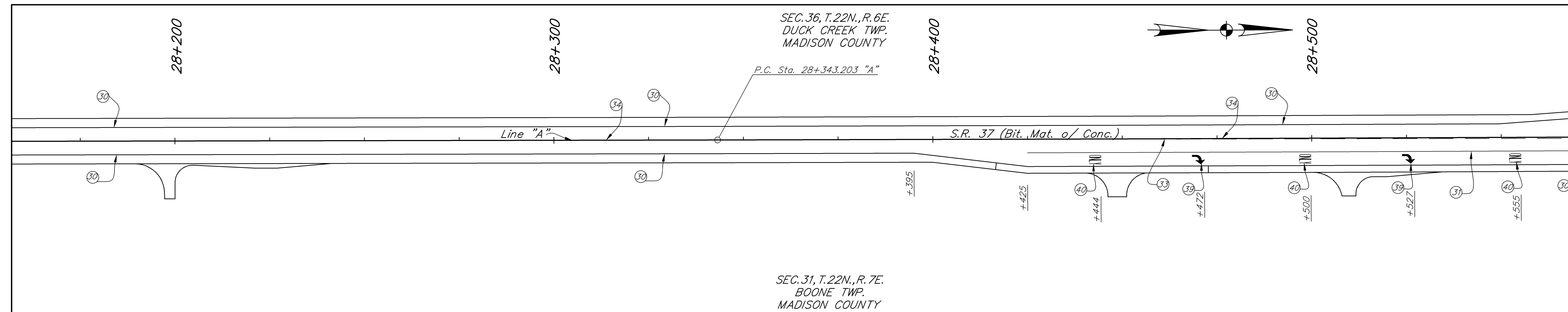
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

INDIANA  
DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
CONTRACT R-28934	PROJECT 109 OF 292 STP-097-9(005)

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BFS NO. 3783.07

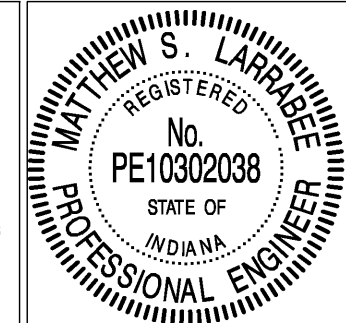


**LEGEND**

- (30) Line, Paint, Solid White, 100mm
- (31) Line, Thermoplastic, Solid White, 100mm
- (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (35) Line, Paint, Solid Yellow, 200mm
- (38) Transverse Marking, Thermoplastic, Stop Line 600mm
- (39) Pavement Message, Thermoplastic, Lane Indication Arrow
- (40) Pavement Message, Thermoplastic, Word "ONLY"
- (A3) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

SEC. 30, T. 22N., R. 7E.  
BOONE TWP.  
MADISON COUNTY

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 715-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

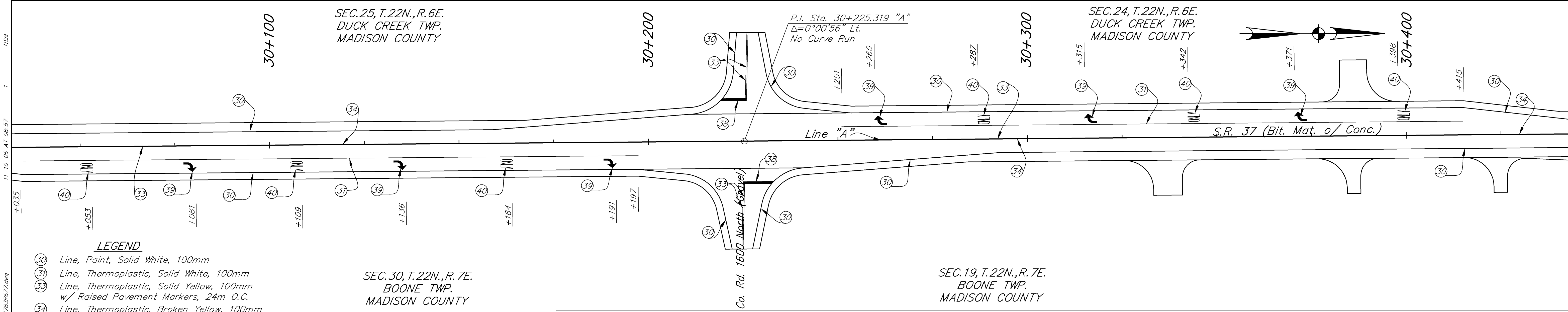
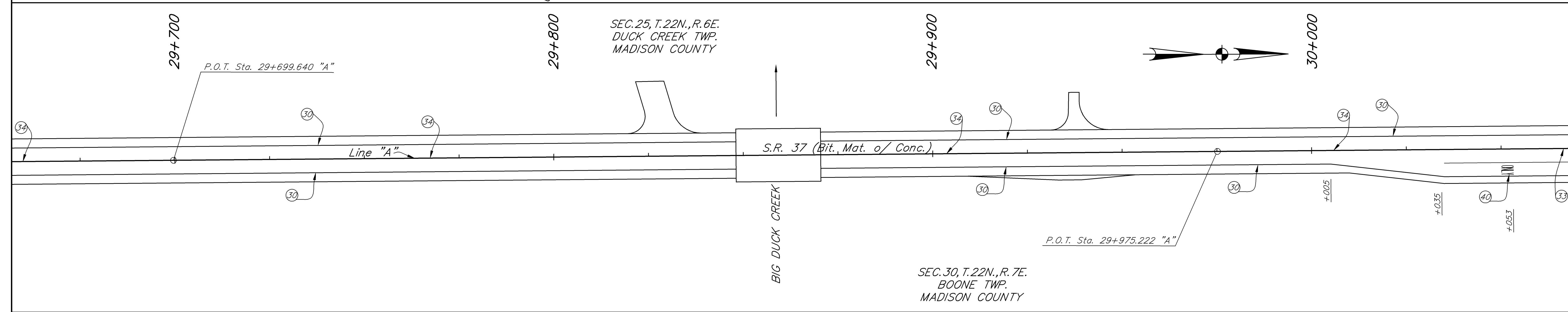
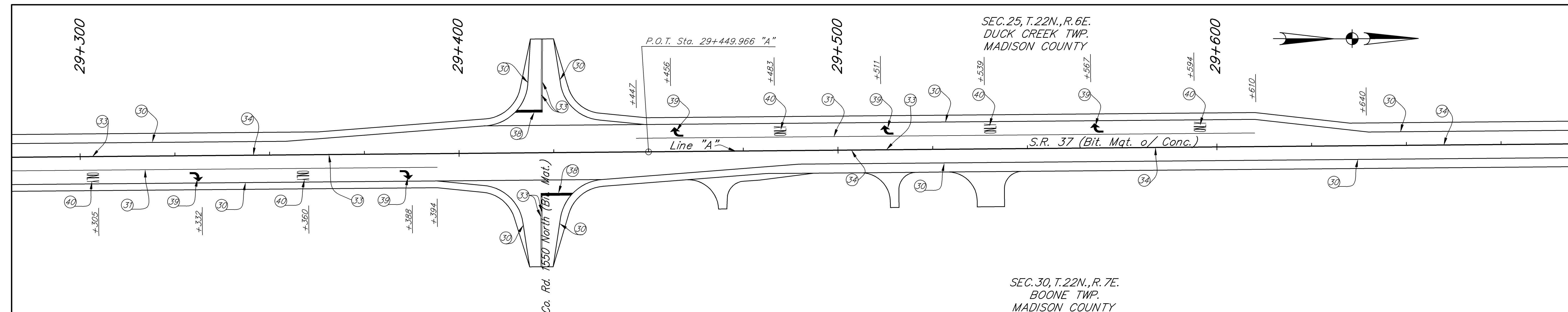
INDIANA DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	110 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

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BFS NO. 3783.07





- LEGEND**
- ③① Line, Paint, Solid White, 100mm
  - ③② Line, Thermoplastic, Solid White, 100mm
  - ③③ Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - ③④ Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - ③⑤ Line, Paint, Solid Yellow, 200mm
  - ③⑥ Transverse Marking, Thermoplastic, Stop Line 600mm
  - ③⑦ Pavement Message, Thermoplastic, Lane Indication Arrow
  - ④① Pavement Message, Thermoplastic, Word "ONLY"
  - ④② Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

SEC. 30, T. 22N., R. 7E.  
BOONE TWP.  
MADISON COUNTY

**BE&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
WALTER S. LARRABEE

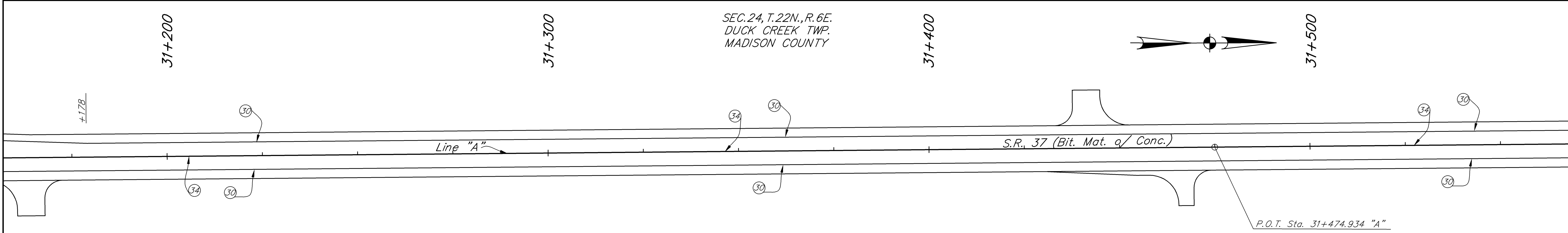
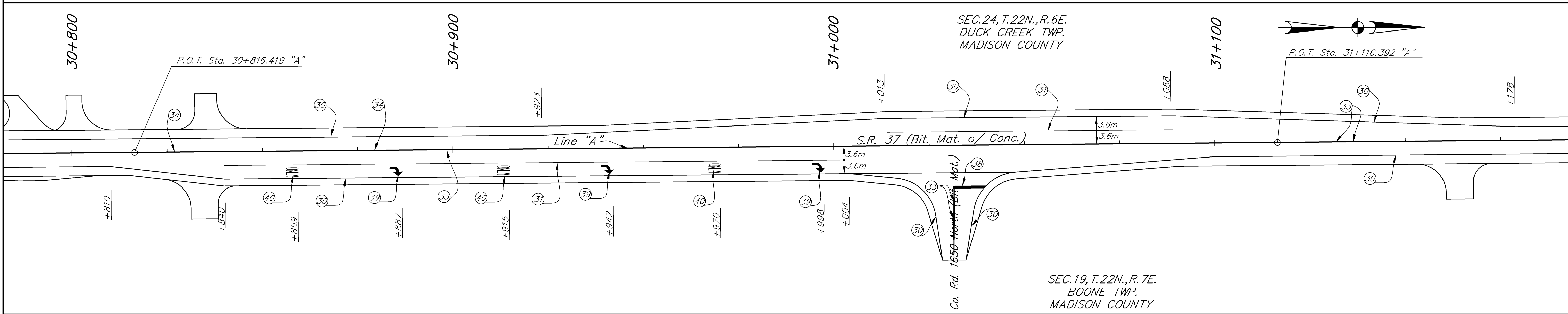
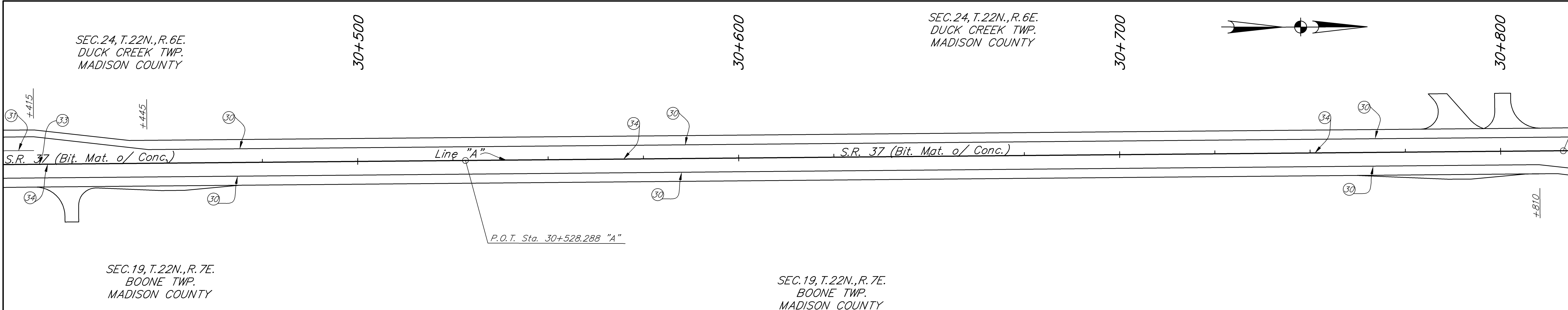
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	111 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

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BFS NO. 3783.07



**LEGEND**

- ③① Line, Paint, Solid White, 100mm
- ③② Line, Thermoplastic, Solid White, 100mm
- ③③ Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- ③④ Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- ③⑤ Line, Paint, Solid Yellow, 200mm
- ③⑥ Transverse Marking, Thermoplastic, Stop Line 600mm
- ③⑦ Pavement Message, Thermoplastic, Lane Indication Arrow
- ④① Pavement Message, Thermoplastic, Word "ONLY"
- ④② Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
MATTHEW S. LARSEN

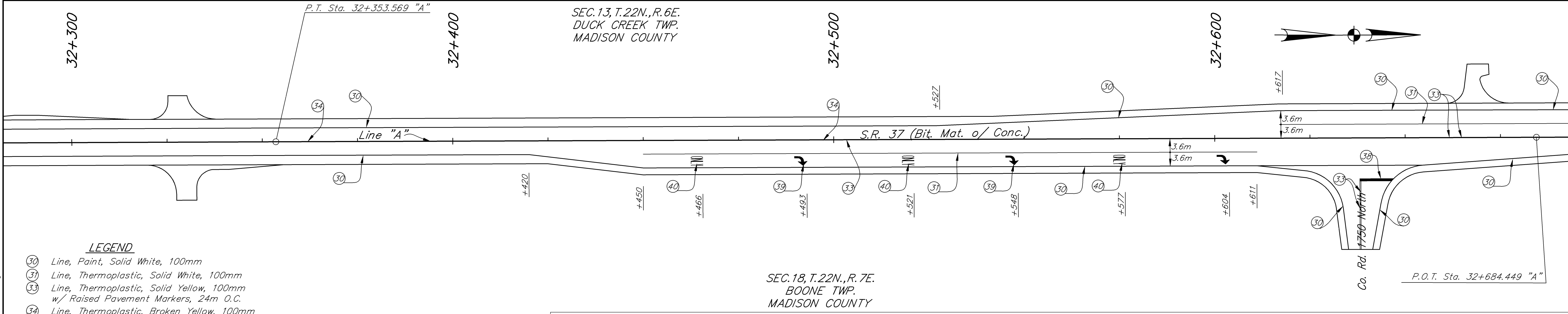
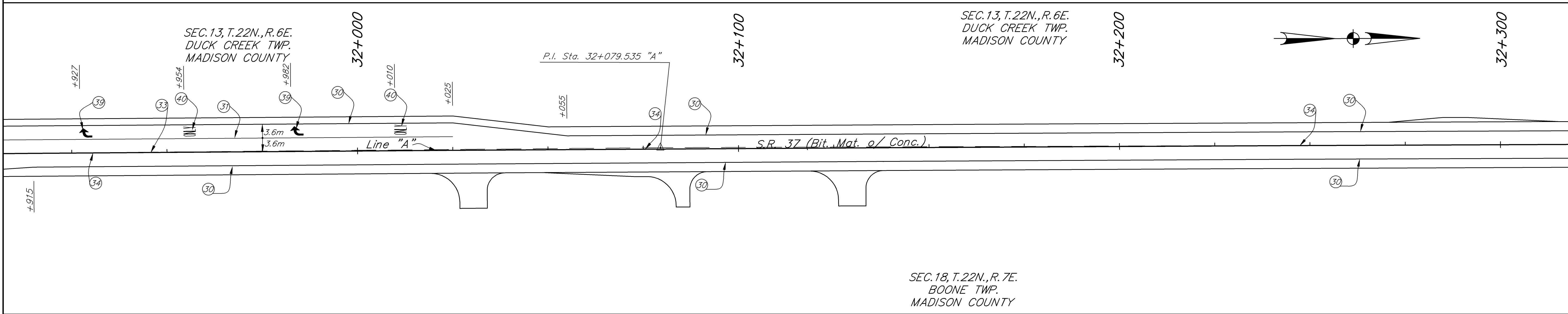
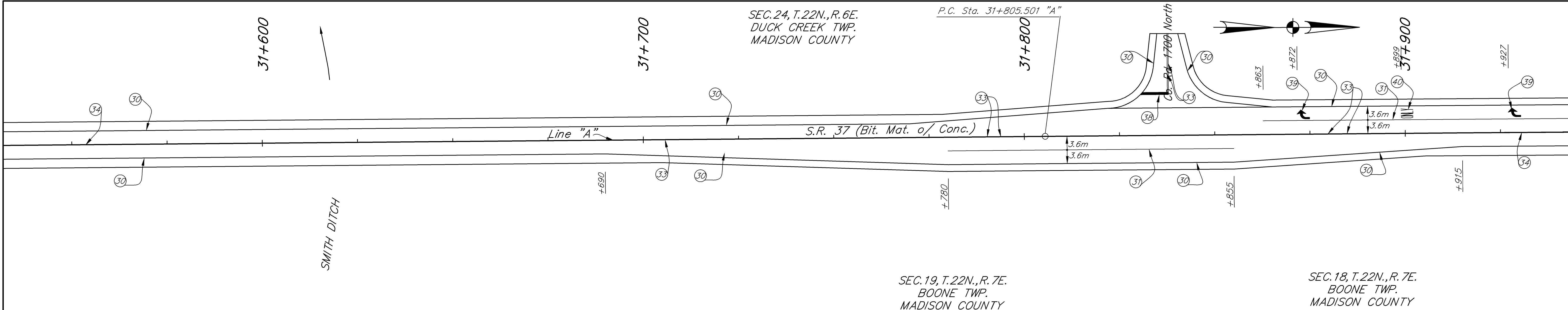
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS**  
STATE ROAD 37

HORIZONTAL SCALE	FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	112 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

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BFS NO. 3783.07

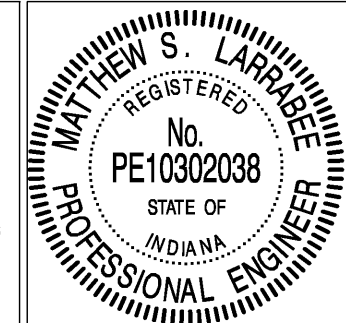


- LEGEND**
- (30) Line, Paint, Solid White, 100mm
  - (31) Line, Thermoplastic, Solid White, 100mm
  - (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (35) Line, Paint, Solid Yellow, 200mm
  - (38) Transverse Marking, Thermoplastic, Stop Line 600mm
  - (39) Pavement Message, Thermoplastic, Lane Indication Arrow
  - (40) Pavement Message, Thermoplastic, Word "ONLY"
  - (A3) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G  
MERRILLVILLE, IN. 46410  
219 769-2334  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

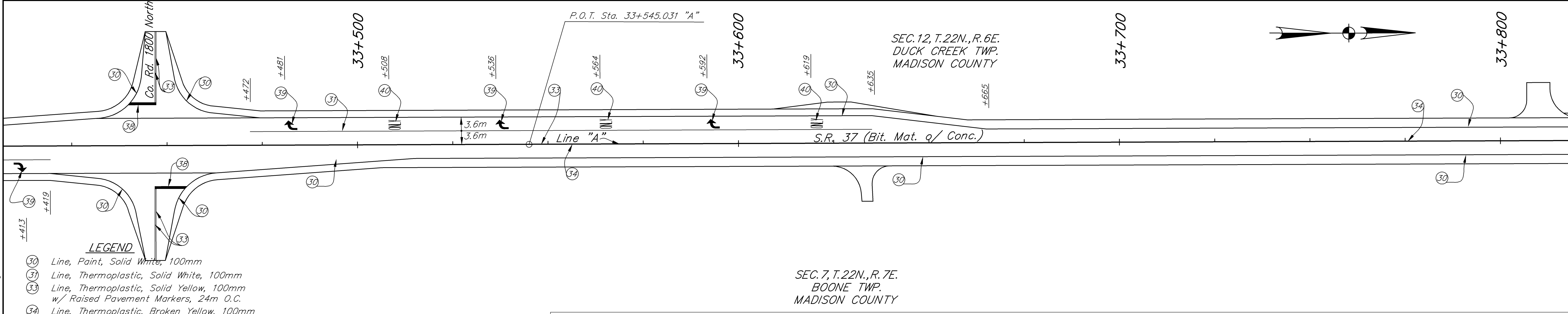
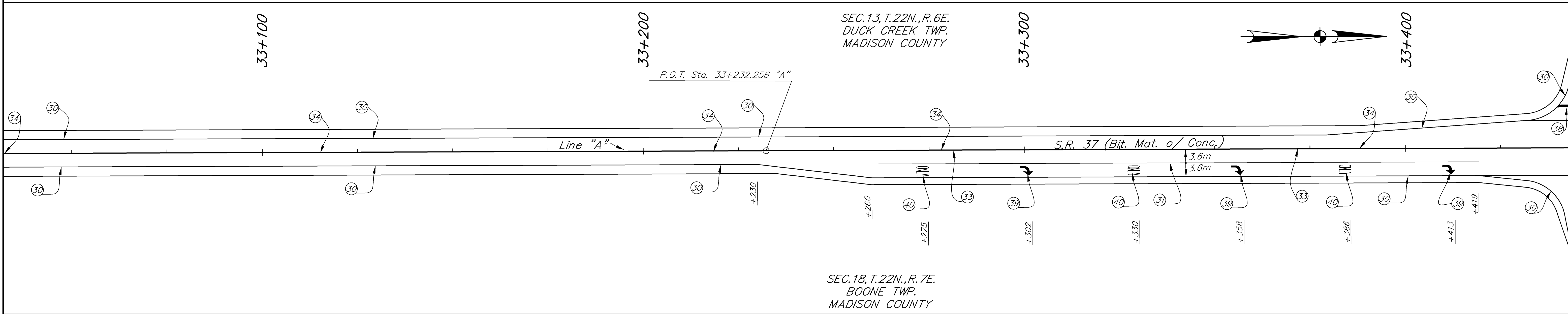
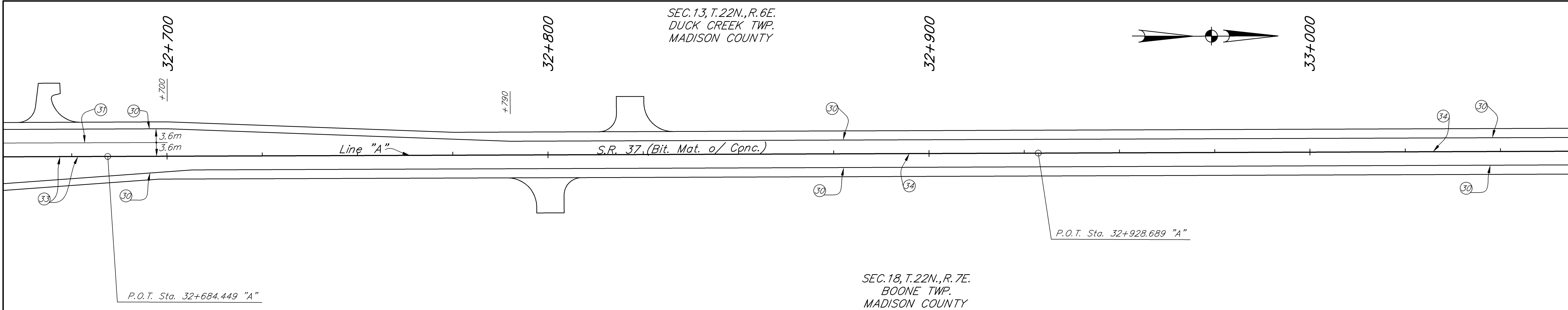
INDIANA DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	113 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

11-10-06 AT 08:59 NSM

BFS NO. 3783.07



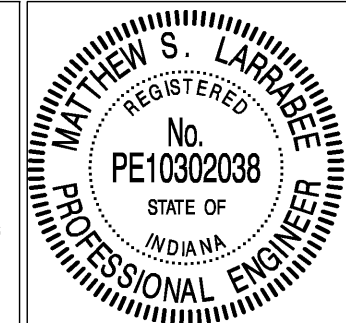


- LEGEND**
- (30) Line, Paint, Solid White, 100mm
  - (31) Line, Thermoplastic, Solid White, 100mm
  - (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (35) Line, Paint, Solid Yellow, 200mm
  - (38) Transverse Marking, Thermoplastic, Stop Line 600mm
  - (39) Pavement Message, Thermoplastic, Lane Indication Arrow
  - (40) Pavement Message, Thermoplastic, Word "ONLY"
  - (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

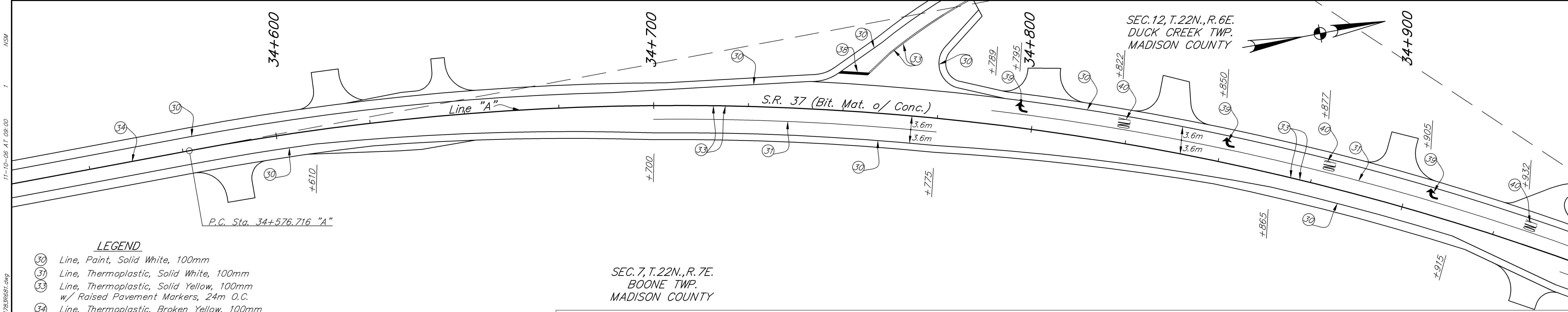
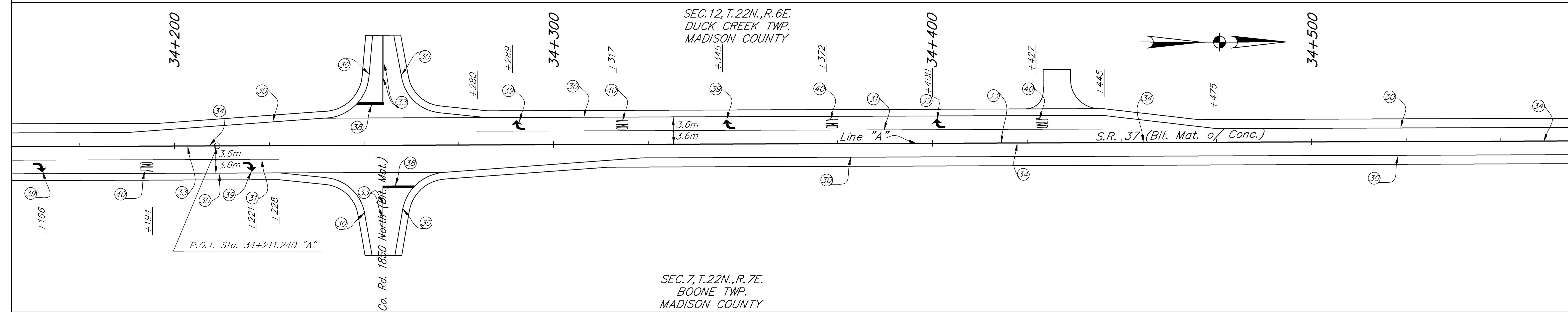
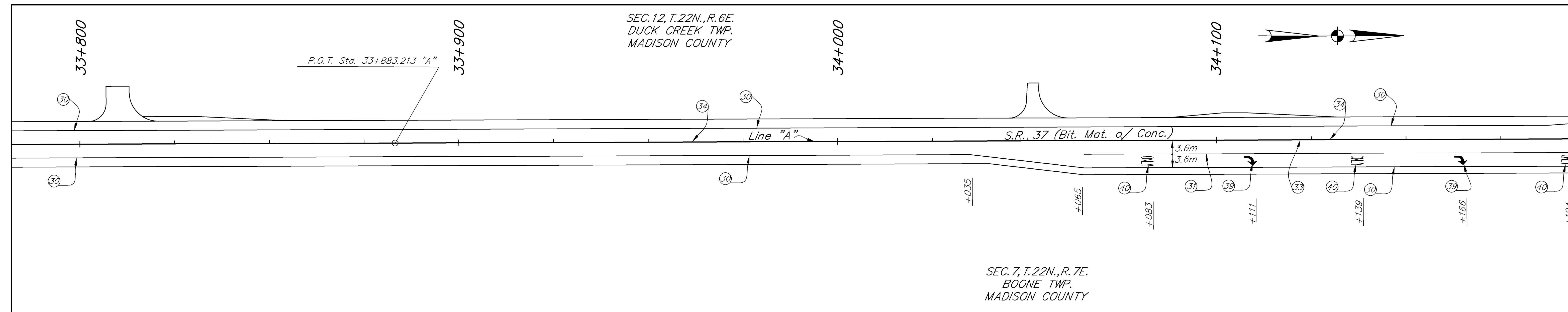
INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	114 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

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 11-10-06 AT 08:59  
 NSM

BFS NO. 3783.07



**LEGEND**

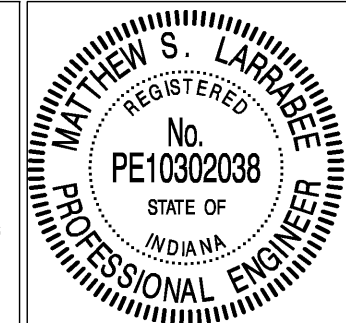
- (30) Line, Paint, Solid White, 100mm
- (31) Line, Thermoplastic, Solid White, 100mm
- (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (35) Line, Paint, Solid Yellow, 200mm
- (36) Transverse Marking, Thermoplastic, Stop Line 600mm
- (39) Pavement Message, Thermoplastic, Lane Indication Arrow
- (40) Pavement Message, Thermoplastic, Word "ONLY"
- (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

SEC. 7, T. 22N., R. 7E.  
BOONE TWP.  
MADISON COUNTY



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377



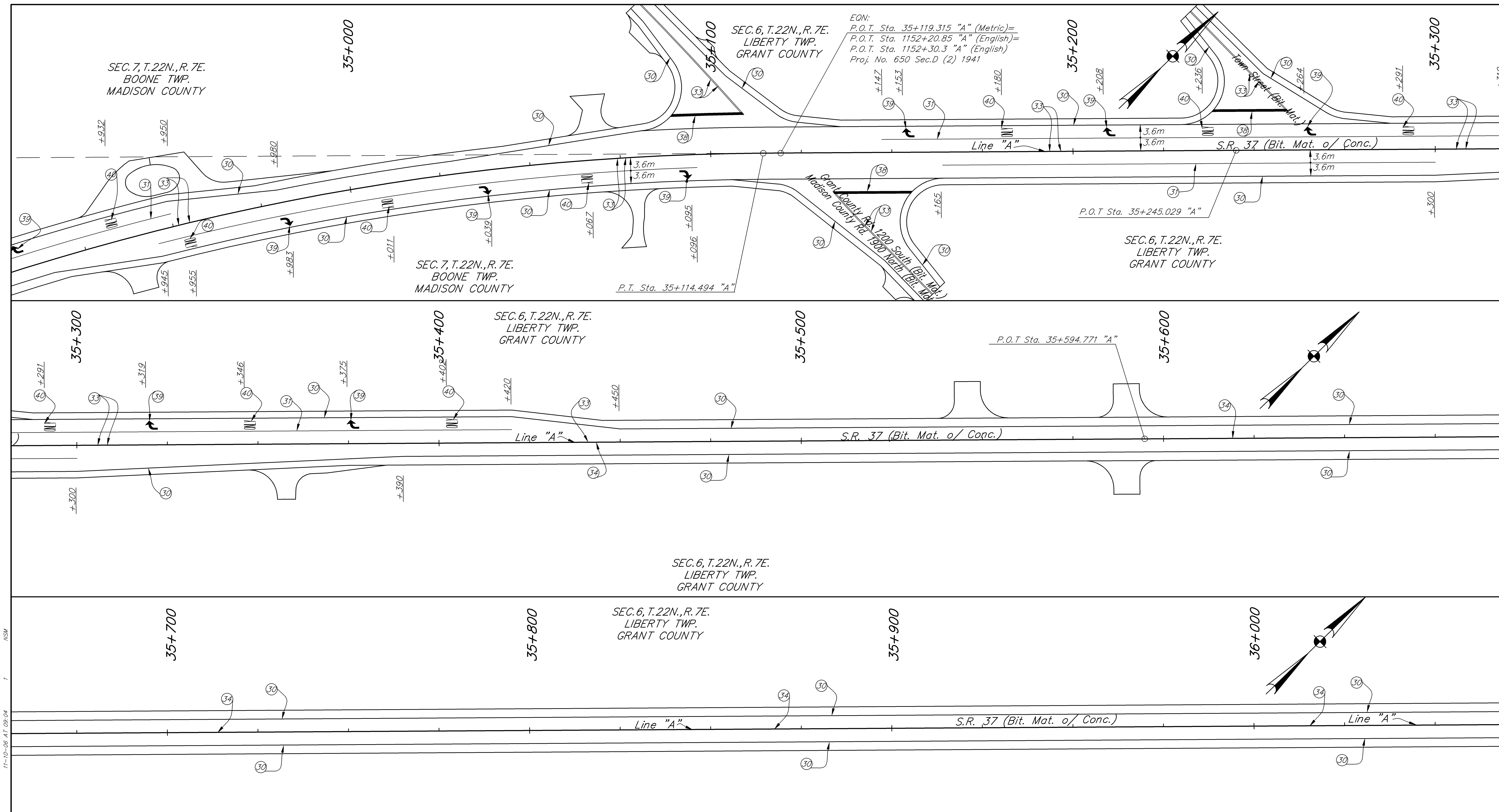
RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	115 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

11-10-06 AT 09:00  
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 NSM



EQN:  
 P.O.T. Sta. 35+119.315 "A" (Metric)=  
 P.O.T. Sta. 1152+20.85 "A" (English)=  
 P.O.T. Sta. 1152+30.3 "A" (English)=  
 Proj. No. 650 Sec.D (2) 1941

SEC. 7, T. 22N., R. 7E.  
 BOONE TWP.  
 MADISON COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 7, T. 22N., R. 7E.  
 BOONE TWP.  
 MADISON COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

SEC. 6, T. 22N., R. 7E.  
 LIBERTY TWP.  
 GRANT COUNTY

**LEGEND**

- (30) Line, Paint, Solid White, 100mm
- (31) Line, Thermoplastic, Solid White, 100mm
- (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (35) Line, Paint, Solid Yellow, 200mm
- (38) Transverse Marking, Thermoplastic, Stop Line 600mm
- (39) Pavement Message, Thermoplastic, Lane Indication Arrow
- (40) Pavement Message, Thermoplastic, Word "ONLY"
- (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BF&S**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
 No. PE10302038  
 STATE OF INDIANA  
 MATTHEW S. LARSEN

RECOMMENDED FOR APPROVAL: *Matthew Javalley* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

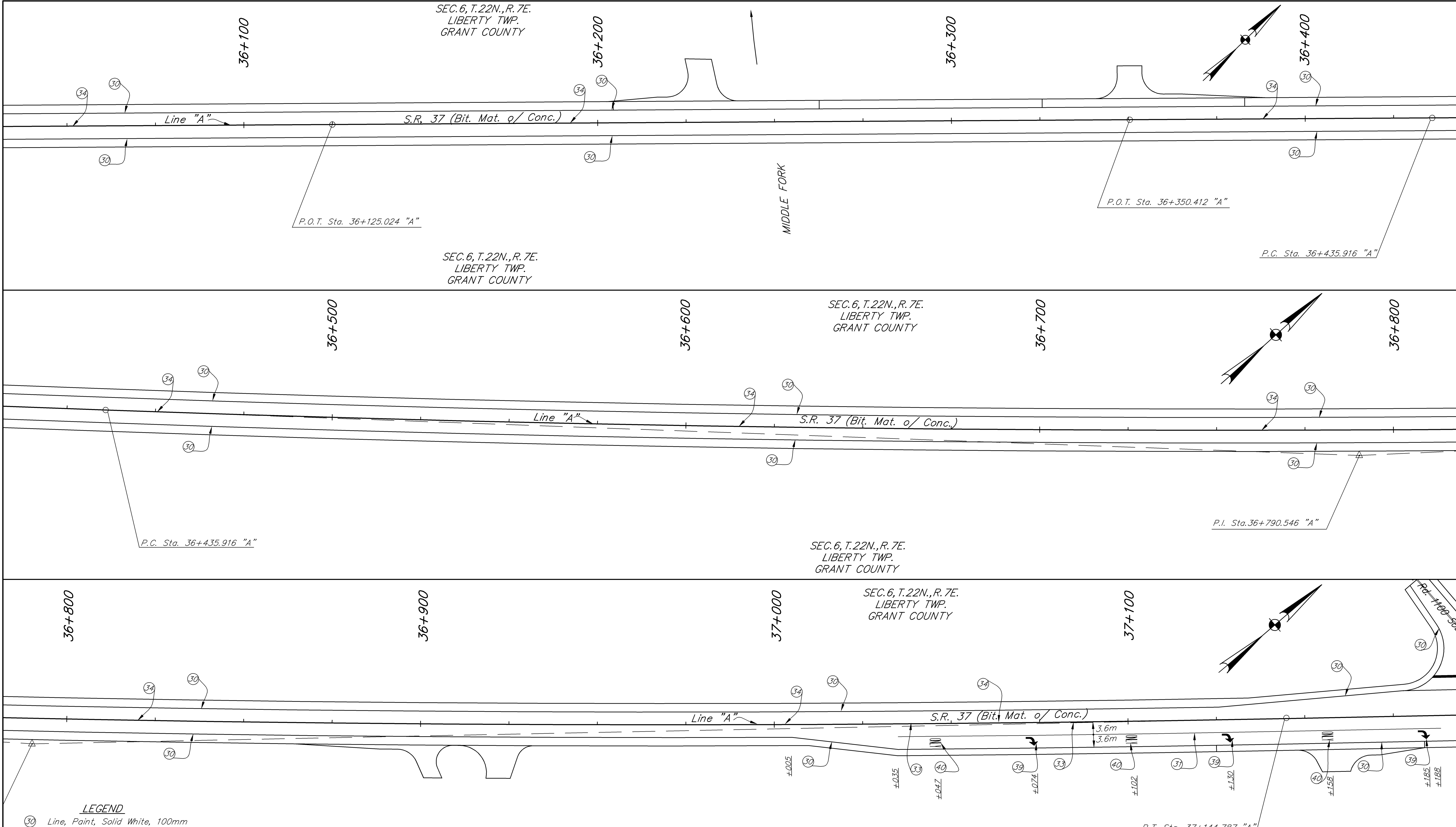
INDIANA DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS**  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	116 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

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 11-10-06 AT 09:04  
 NSM

BFS NO. 3783.07

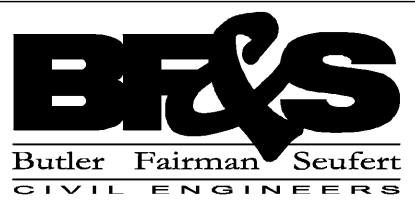




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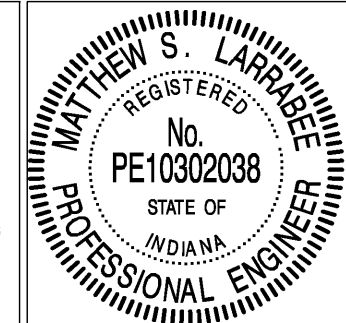
- (30) Line, Paint, Solid White, 100mm
- (31) Line, Thermoplastic, Solid White, 100mm
- (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- (35) Line, Paint, Solid Yellow, 200mm
- (38) Transverse Marking, Thermoplastic, Stop Line 600mm
- (39) Pavement Message, Thermoplastic, Lane Indication Arrow
- (40) Pavement Message, Thermoplastic, Word "ONLY"
- (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

SEC. 6, T. 22N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 715-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

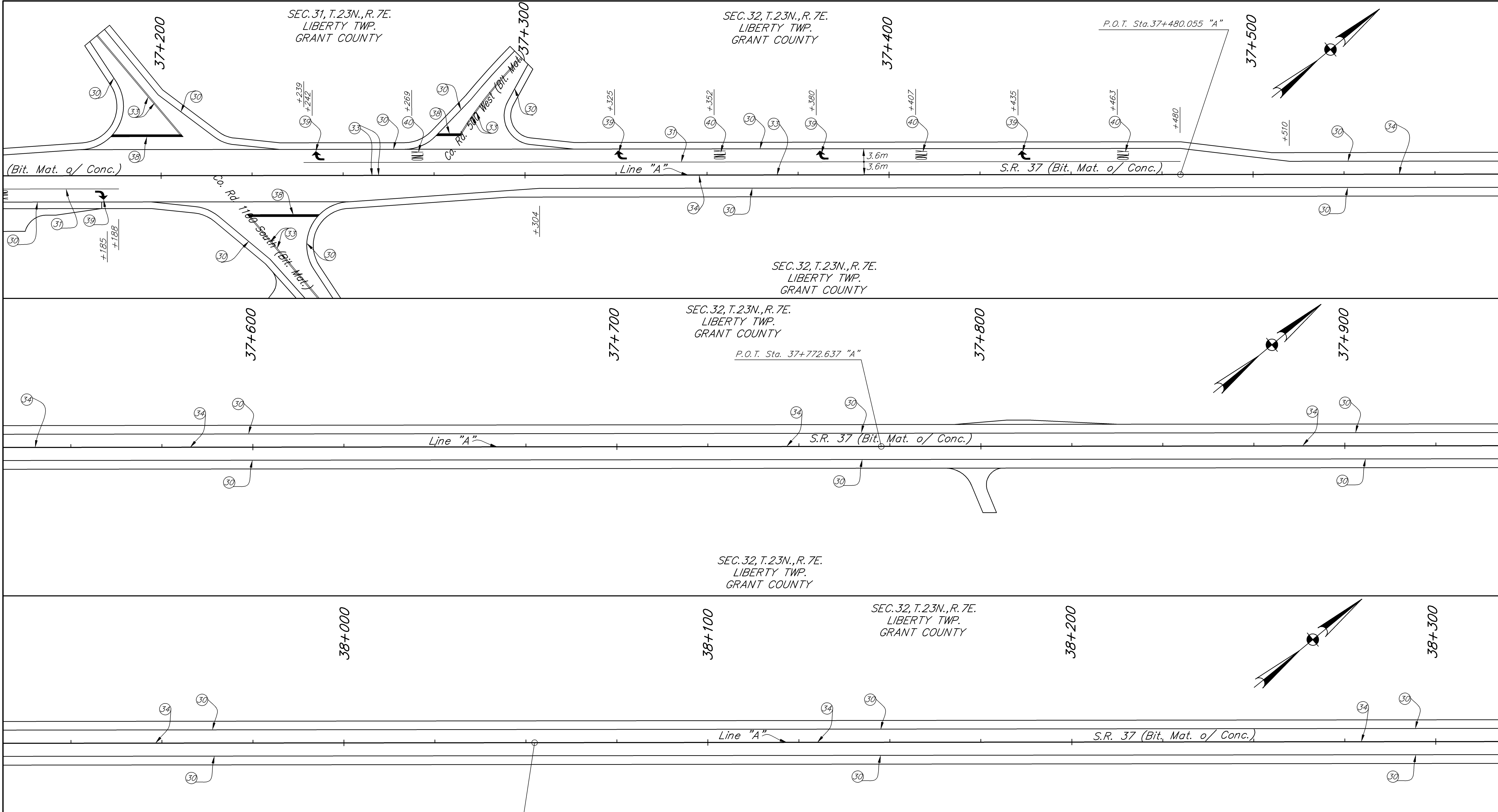
INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	117 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

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BFS NO. 3783.07



- LEGEND**
- (30) Line, Paint, Solid White, 100mm
  - (31) Line, Thermoplastic, Solid White, 100mm
  - (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (35) Line, Paint, Solid Yellow, 200mm
  - (36) Transverse Marking, Thermoplastic, Stop Line 600mm
  - (39) Pavement Message, Thermoplastic, Lane Indication Arrow
  - (40) Pavement Message, Thermoplastic, Word "ONLY"
  - (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

P.O.T. Sta. 38+052.390 "A"

SEC. 32, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA  
WALTER S. LARSEN

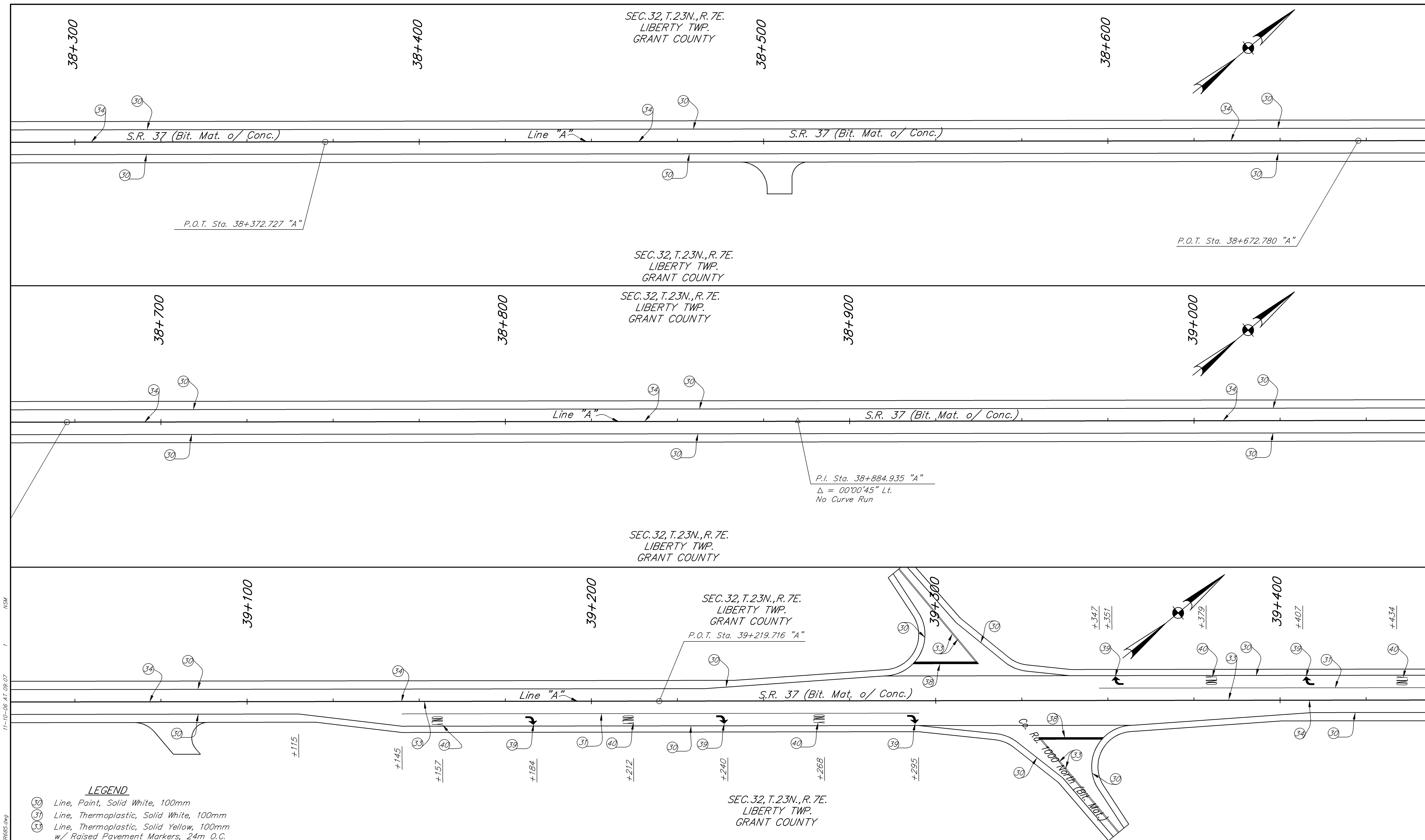
RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
DESIGN ENGINEER DATE  
DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	118 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

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BFS NO. 3783.07



11-10-06 AT 09:07  
 NSM  
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- LEGEND**
- (30) Line, Paint, Solid White, 100mm
  - (31) Line, Thermoplastic, Solid White, 100mm
  - (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (35) Line, Paint, Solid Yellow, 200mm
  - (38) Transverse Marking, Thermoplastic, Stop Line 600mm
  - (39) Pavement Message, Thermoplastic, Lane Indication Arrow
  - (40) Pavement Message, Thermoplastic, Word "ONLY"
  - (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2334  
FAX 219 769-2377

REGISTERED  
No. PE10302038  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL: *Matthew Javalley* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

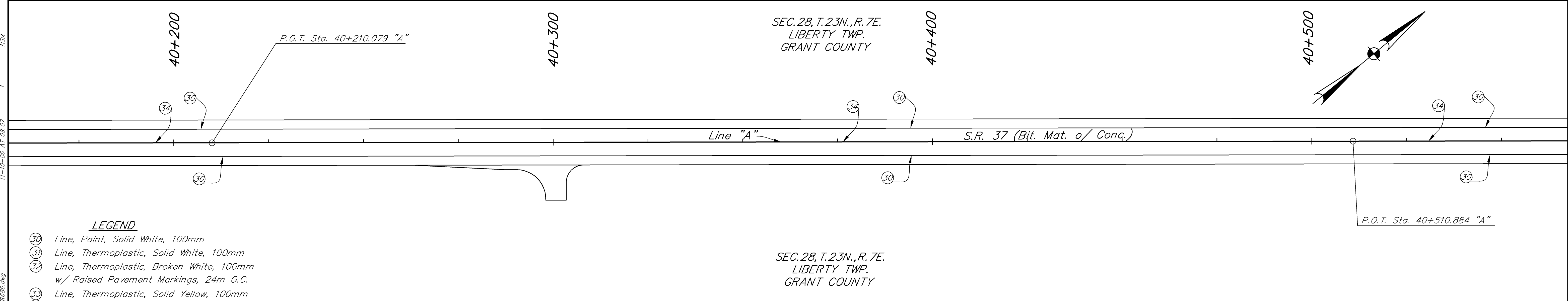
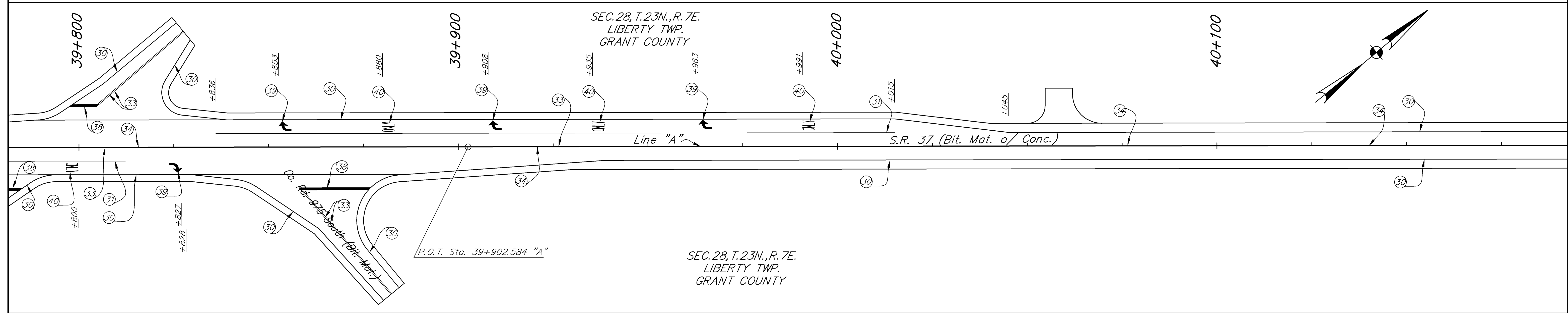
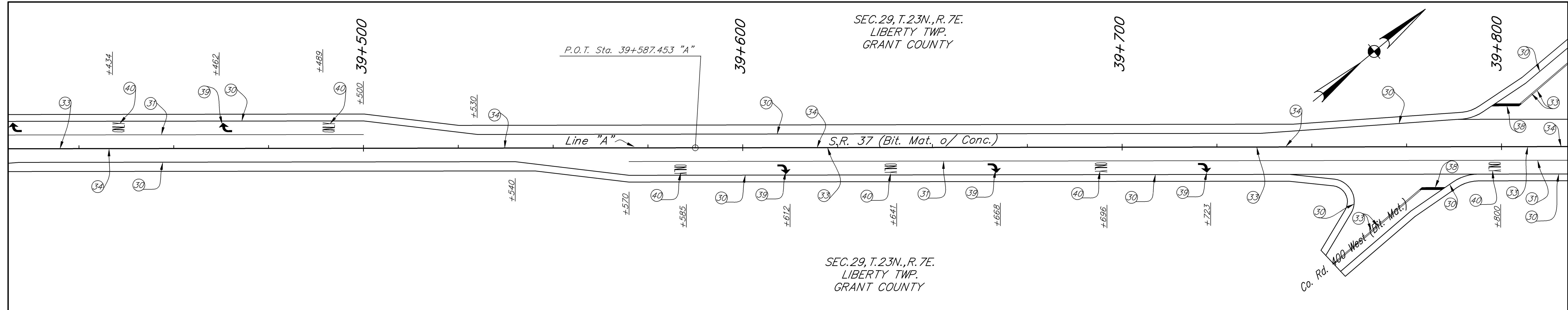
INDIANA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS  
STATE ROAD 37**

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
CONTRACT R-28934	119 OF 292 PROJECT STP-097-9(005)

BFS NO. 3783.07



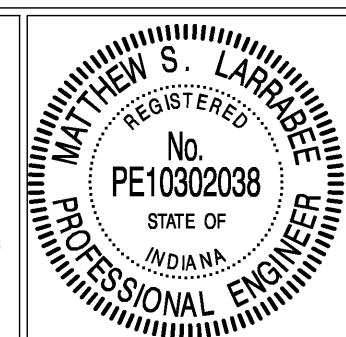


- LEGEND**
- (30) Line, Paint, Solid White, 100mm
  - (31) Line, Thermoplastic, Solid White, 100mm
  - (32) Line, Thermoplastic, Broken White, 100mm w/ Raised Pavement Markings, 24m O.C.
  - (33) Line, Thermoplastic, Solid Yellow, 100mm
  - (34) Line, Thermoplastic, Broken Yellow, 100mm
  - (38) Transverse Marking, Thermoplastic, Stop Line 600mm
  - (39) Pavement Message, Thermoplastic, Lane Indication Arrow
  - (40) Pavement Message, Thermoplastic, Word "ONLY"
  - (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)
  - (44) Line Paint, Solid Yellow, 200mm w/ Raised Pavement Markings, 24m O.C.

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JM  
CHECKED: BZ CHECKED: JLB

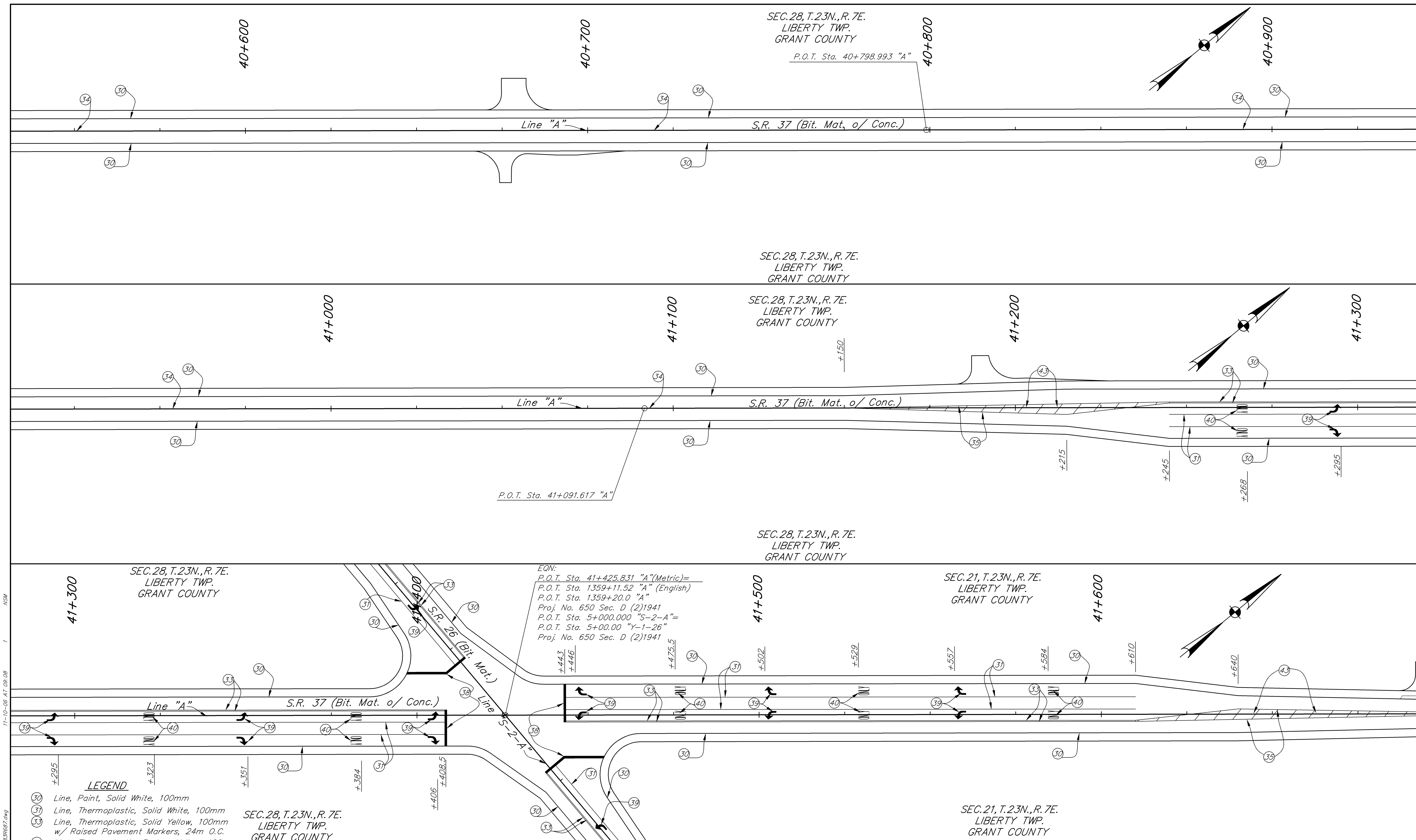
INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS  
STATE ROAD 37

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 120 OF 292
CONTRACT R-28934	PROJECT STP-097-9(005)

11-10-06 AT 09:07  
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BFS NO. 3783.07



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 11-10-06 AT 09:08  
 NSM

- LEGEND**
- (30) Line, Paint, Solid White, 100mm
  - (31) Line, Thermoplastic, Solid White, 100mm
  - (33) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (35) Line, Paint, Solid Yellow, 200mm
  - (38) Transverse Marking, Thermoplastic, Stop Line 600mm
  - (39) Pavement Message, Thermoplastic, Lane Indication Arrow
  - (40) Pavement Message, Thermoplastic, Word "ONLY"
  - (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)
- SEC. 28, T. 23N., R. 7E.  
LIBERTY TWP.  
GRANT COUNTY

EON:  
 P.O.T. Sta. 41+425.831 "A" (Metric) =  
 P.O.T. Sta. 1359+11.52 "A" (English)  
 P.O.T. Sta. 1359+20.0 "A"  
 Proj. No. 650 Sec. D (2)1941  
 P.O.T. Sta. 5+000.000 "S-2-A" =  
 P.O.T. Sta. 5+00.00 "Y-1-26"  
 Proj. No. 650 Sec. D (2)1941

**BF&S**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615  
 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333  
 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
 No. PE10302038  
 STATE OF INDIANA  
 MATTHEW S. LARSEN

RECOMMENDED FOR APPROVAL: *Matthew J. Anaker* 11/10/06  
 DESIGN ENGINEER DATE

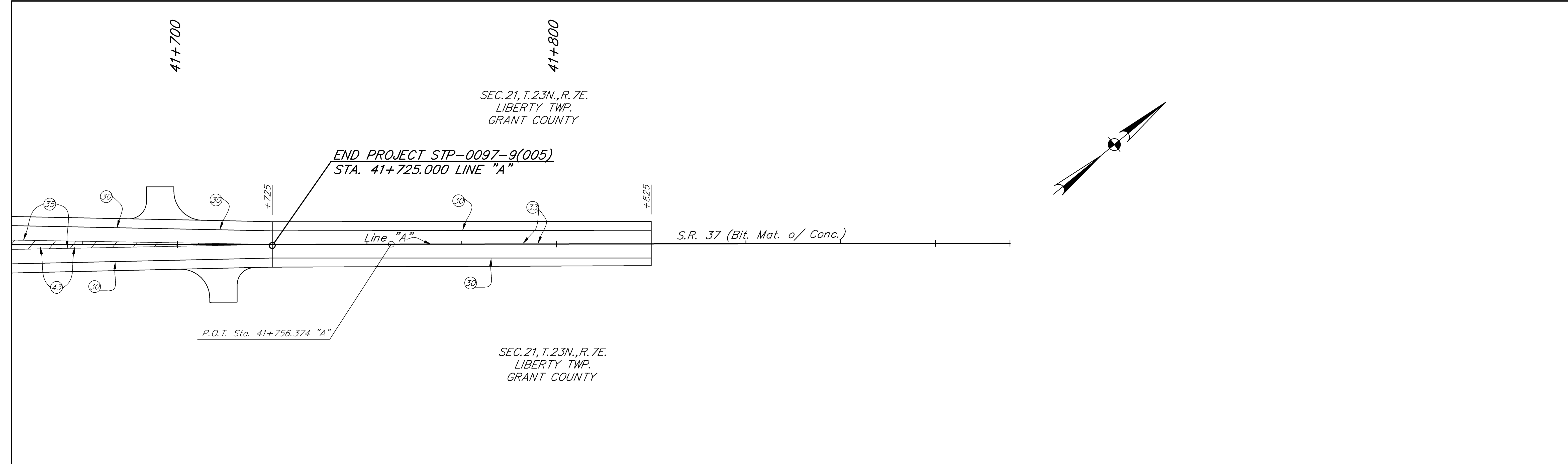
DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	121 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07

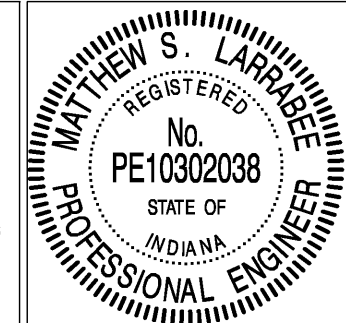


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 NSM

**LEGEND**

- ③① Line, Paint, Solid White, 100mm
- ③① Line, Thermoplastic, Solid White, 100mm
- ③③ Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- ③④ Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
- ③⑤ Line, Paint, Solid Yellow, 200mm
- ③⑥ Transverse Marking, Thermoplastic, Stop Line 600mm
- ③⑨ Pavement Message, Thermoplastic, Lane Indication Arrow
- ④① Pavement Message, Thermoplastic, Word "ONLY"
- ④③ Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BF&S**  
 Butler Fairman Seufert  
 CIVIL ENGINEERS  
 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377



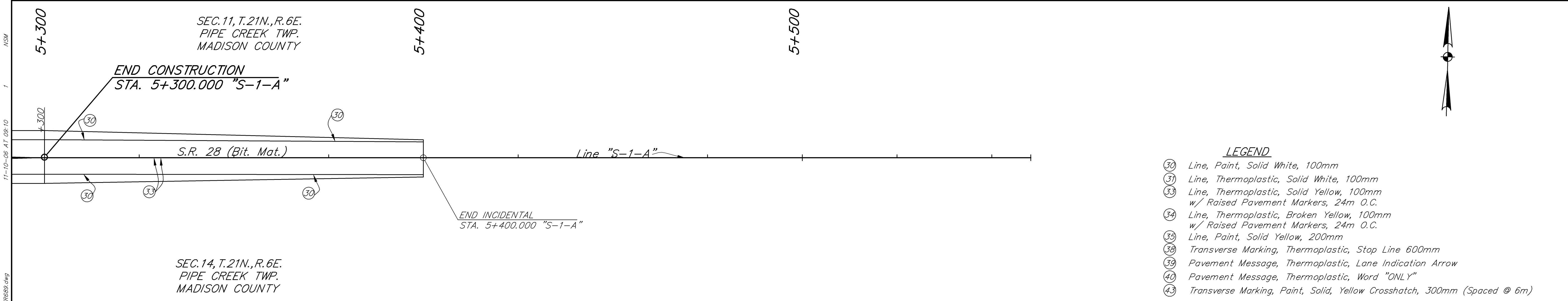
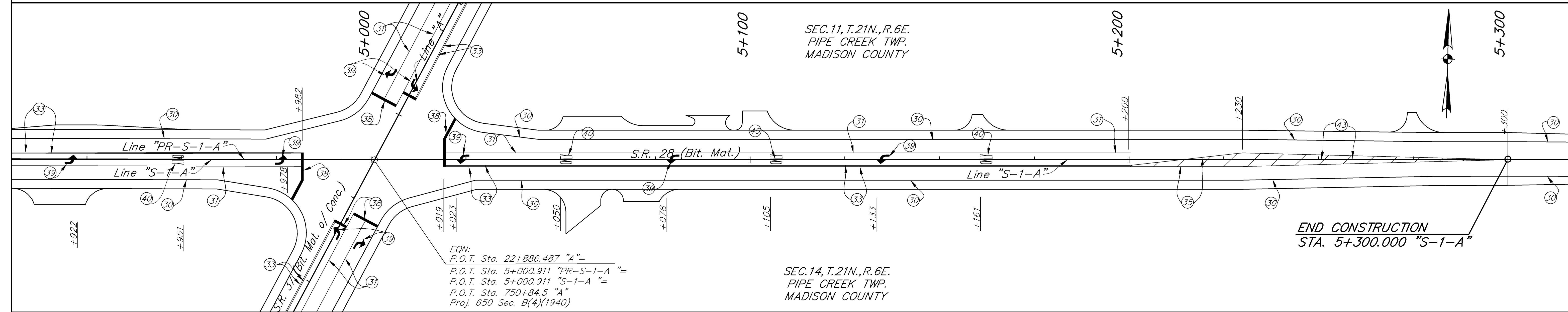
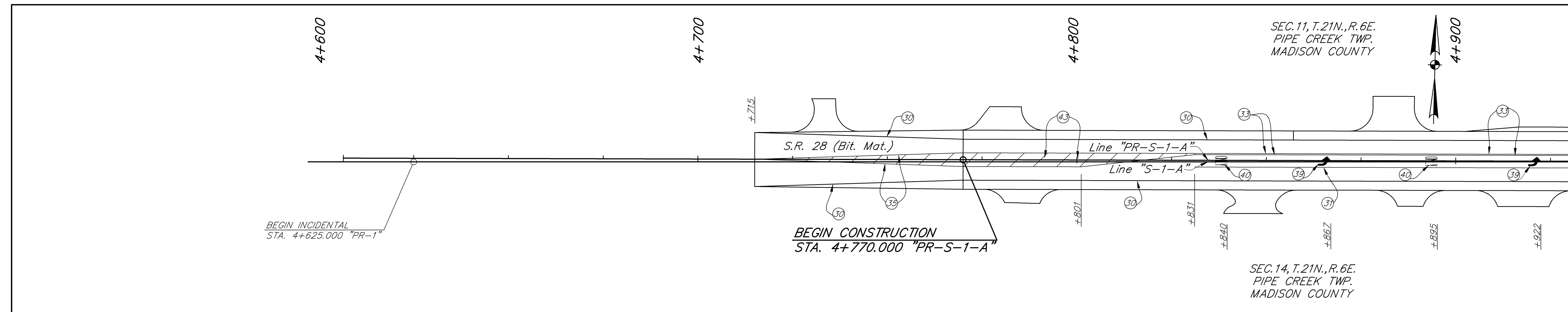
RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE  
 DESIGNED: JLB DRAWN: JM  
 CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION  
 PAVEMENT MARKINGS  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:500	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	122 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07





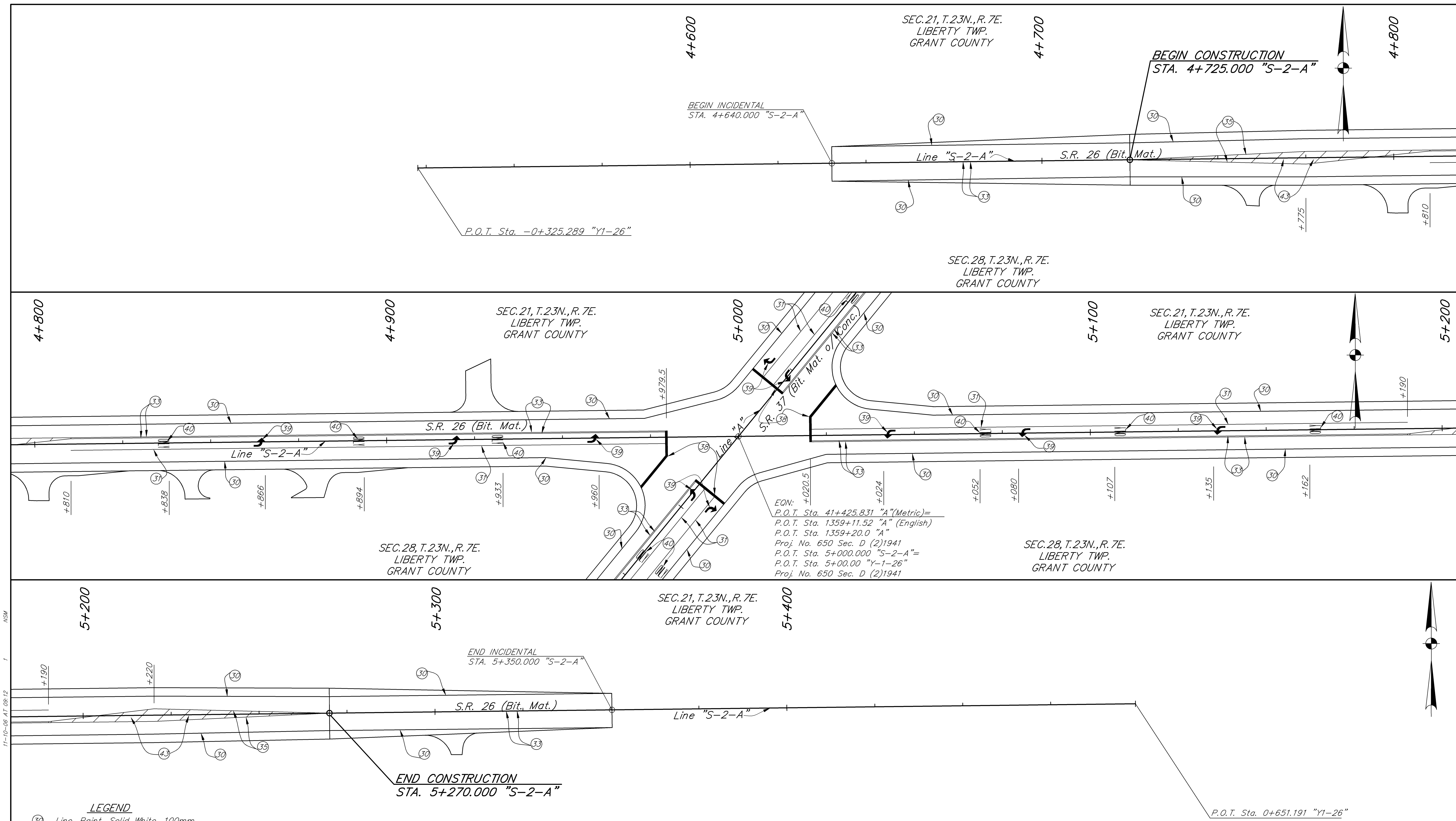
EON:  
 P.O.T. Sta. 22+886.487 "A" =  
 P.O.T. Sta. 5+000.911 "PR-S-1-A" =  
 P.O.T. Sta. 5+000.911 "S-1-A" =  
 P.O.T. Sta. 750+84.5 "A" =  
 Proj. 650 Sec. B(4)(1940)

- LEGEND**
- (30) Line, Paint, Solid White, 100mm
  - (31) Line, Thermoplastic, Solid White, 100mm
  - (32) Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (34) Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - (35) Line, Paint, Solid Yellow, 200mm
  - (36) Transverse Marking, Thermoplastic, Stop Line 600mm
  - (39) Pavement Message, Thermoplastic, Lane Indication Arrow
  - (40) Pavement Message, Thermoplastic, Word "ONLY"
  - (43) Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

NORTH 1"=200'4"  
 11-10-06 AT 09:10  
 NSM  
 F:\17251\AUTOCAD\ROAD\17251R6688.dwg

 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377		RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION <b>PAVEMENT MARKINGS STATE ROAD 28</b>		HORIZONTAL SCALE	FILE
		DESIGNED: JLB DRAWN: BH CHECKED: BZ CHECKED: JLB			1:500 1:500	3783 9706580
			SURVEY BOOK	SHEET		
			CONTRACT	PROJECT		
			R-28934	STP-097-9(005)		

BFS NO. 3783.07

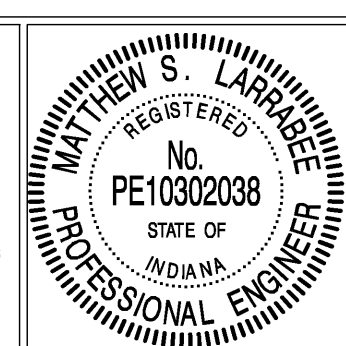


- LEGEND**
- ③① Line, Paint, Solid White, 100mm
  - ③② Line, Thermoplastic, Solid White, 100mm
  - ③③ Line, Thermoplastic, Solid Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - ③④ Line, Thermoplastic, Broken Yellow, 100mm w/ Raised Pavement Markers, 24m O.C.
  - ③⑤ Line, Paint, Solid Yellow, 200mm
  - ③⑥ Transverse Marking, Thermoplastic, Stop Line 600mm
  - ③⑦ Pavement Message, Thermoplastic, Lane Indication Arrow
  - ③⑧ Pavement Message, Thermoplastic, Word "ONLY"
  - ③⑨ Transverse Marking, Paint, Solid, Yellow Crosshatch, 300mm (Spaced @ 6m)

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN. 46240  
317 715-4615  
FAX 317 715-4616

509 WEST 84TH DRIVE, SUITE G  
MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: BH  
CHECKED: BZ CHECKED: JLB

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS  
STATE ROAD 26

HORIZONTAL SCALE 1:500	FILE 3783
VERTICAL SCALE 1:500	DESIGNATION 9706580
SURVEY BOOK	SHEET
CONTRACT R-28934	PROJECT STP-097-9(005)

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BFS NO. 3783.07

### FENCE TABLE

LOCATION	TYPE		GATE
	F.F.T.F. m	WOOD m	
LINE "A"			
29+830 Rt. To 29+852 Rt.	22		
29+941 Lt. To 29+950 Lt.	9		
34+276 Lt. To 34+612.5 Lt.	336.5		
34+998 Lt. To 35+016 Lt.	18		
36+320 Lt. To 36+345.5 Lt.		25.5	
36+356 Lt. To 36+368.5 Lt.		12.5	
36+368.5 Lt. To 36+390.5 Lt.	22		
TOTALS	454.5	38	

### DITCH SODDING TABLE

LOCATION	LEFT	RIGHT	m <sup>2</sup>
LINE "A"			
23+287 To 23+325	✓		136.8
24+875 To 24+905	✓		108
24+875 To 24+950		✓	270
24+913 To 25+000	✓		298.8
25+550 To 25+572.5		✓	81
26+200 To 26+233		✓	118.8
26+243.5 To 26+250		✓	23.4
26+631 To 26+640	✓		32.4
28+775 To 28+797	✓		79.2
29+000 To 29+075	✓		270
29+000 To 29+036.9		✓	132.8
29+250 To 29+282.8		✓	118.1
32+475 To 32+500		✓	90
33+640 To 33+650		✓	36
33+700 To 33+758	✓		360
35+125 To 35+175	✓		180
35+425 To 35+470		✓	162
35+475 To 35+525		✓	180
36+100 To 36+222	✓		439.2
36+150 To 36+244		✓	338.4
36+238 To 36+244	✓		21.6
36+254 To 36+400	✓		525.6
37+239 To 37+265	✓		93.6
40+170 To 40+200		✓	108
40+500 To 40+575		✓	270
40+900 To 40+944		✓	158.4
41+702.5 To 41+725	✓		81
TOTAL			4713.1

### MAILBOX ASSEMBLY TABLE

LOCATION	SINGLE	DOUBLE	LEFT	RIGHT
22+678 "A"	✓			
23+006 "A"	✓			
23+132 "A"	✓			
23+378 "A"	✓			
24+168 "A"	✓			
24+248 "A"		✓		✓
24+440 "A"	✓			✓
24+461 "A"	✓			✓
24+565	✓			✓
24+625	✓			✓
24+918			✓	
25+803	✓			✓
25+945	✓			✓
26+433	✓			✓
26+653	✓			✓
27+736	✓			✓
28+225				✓
29+131	✓			✓
29+211	✓			✓
29+475	✓			✓
29+937.5	✓			✓
30+453	✓			✓
30+790	✓			✓
31+453	✓			✓
32+074	✓			✓
32+287	✓			✓
32+341	✓			✓
33+625	✓			✓
33+827	✓			✓
34+104	✓			✓
34+635	✓			✓
34+636	✓			✓
34+968	✓			✓
35+365	✓			✓
36+220	✓			✓
36+331	✓			✓
36+893	✓			✓
37+186	✓			✓
40+290	✓			✓
40+695	✓			✓
41+200	✓			✓
4+815 "S-2-A"	✓			✓
4+890 "S-2-A"	✓			✓
TOTALS	42	1		

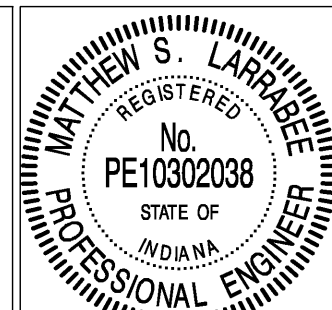
### MONUMENT TABLE

LOCATION	TYPE
P.O.T. Sta. 22+442.152 "A"	A
P.O.T. Sta. 22+886.487 "A"	A
P.C. Sta. 22+991.546 "A"	A
P.T. Sta. 23+361.045 "A"	A
P.O.T. Sta. 23+715.627 "A"	A
P.O.T. Sta. 24+037.274 "A"	A
P.O.T. Sta. 24+336.035 "A"	A
P.O.T. Sta. 24+651.522 "A"	A
P.O.T. Sta. 24+944.083 "A"	A
P.C. Sta. 25+299.520 "A"	A
P.T. Sta. 25+921.518 "A"	A
P.O.T. Sta. 26+227.311 "A"	A
P.O.T. Sta. 26+499.844 "A"	A
P.O.T. Sta. 26+774.844 "A"	A
P.I. Sta. 27+003.842 "A"	A
P.O.T. Sta. 27+325.042 "A"	A
P.O.T. Sta. 27+978.728 "A"	A
P.C. Sta. 28+343.203 "A"	A
P.I. Sta. 28+620.354 "A"	A
P.T. Sta. 28+897.502 "A"	A
P.O.T. Sta. 29+199.962 "A"	A
P.O.T. Sta. 29+450.000 "A"	A
P.O.T. Sta. 29+699.640 "A"	A
P.O.T. Sta. 29+975.222 "A"	A
P.I. Sta. 30+225.319 "A"	A
P.O.T. Sta. 30+528.288 "A"	A
P.O.T. Sta. 30+816.419 "A"	A
P.O.T. Sta. 31+116.392 "A"	A
P.O.T. Sta. 31+474.934 "A"	A
P.C. Sta. 31+805.501 "A"	A
P.I. Sta. 32+079.535 "A"	A
P.T. Sta. 32+353.569	A
P.O.T. Sta. 32+684.449	A
P.O.T. Sta. 32+928.689	A
P.O.T. Sta. 33+545.031	A
P.O.T. Sta. 33+883.213	A
P.O.T. Sta. 34+211.240	A
P.C. Sta. 34+576.716	A
P.T. Sta. 35+114.494	A
P.O.T. Sta. 35+245.029	B
P.O.T. Sta. 35+594.771	B
P.O.T. Sta. 36+125.024	B
P.C. Sta. 36+435.916	B
P.I. Sta. 36+790.546	C
P.T. Sta. 37+144.787	B
P.O.T. Sta. 37+480.055	B
P.O.T. Sta. 37+772.637	B
P.O.T. Sta. 38+052.390	B
P.O.T. Sta. 38+372.727	B
P.O.T. Sta. 38+672.780	B
P.I. Sta. 38+884.935	B
P.O.T. Sta. 39+219.716	B
P.O.T. Sta. 39+587.483	B
P.O.T. Sta. 39+902.584	B
P.O.T. Sta. 40+210.079	B
P.O.T. Sta. 40+510.884	B
P.O.T. Sta. 40+798.993	B
P.O.T. Sta. 41+091.617	B
P.O.T. Sta. 41+425.831	B
P.O.T. Sta. 41+756.374	B
P.O.T. Sta. 4+606.440 "PR-S-1-A"	B
P.O.T. Sta. 4+800.000 "PR-S-1-A"	B
P.O.T. Sta. 5+560.310 "S-1-A"	B
P.O.T. Sta. 4+522.310 "S-2-A"	B
P.O.T. Sta. 5+498.790 "S-2-A"	B
TOTALS	TYPE A TYPE B TYPE C
	39 25 1

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8450 WESTFIELD BLVD., SUITE 300  
 INDIANAPOLIS, IN. 46240  
 317 715-4615  
 FAX 317 715-4616



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BKM CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS TABLES

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	125 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

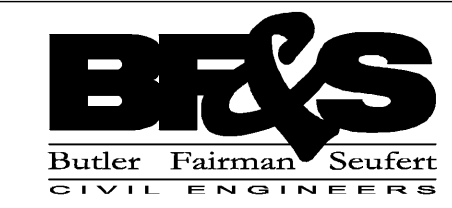


# SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE	EXCAVATION	CLEAR ZONE AT DRIVE	HMA MATERIAL FOR APPROACHES				HMA FOR PAVEMENT				HMA FOR WIDENING			ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR BASE NO. 53			COMPACTED AGGREGATE FOR SURFACE NO. 73			CEMENT CONCRETE PAVEMENT FOR DRIVES (150mm)	REMARKS																										
						COMPACTED AGGREGATE BASE	HMA	CONCRETE				TYPE A SURFACE	TYPE A INTERMEDIATE	TYPE A INTERMEDIATE	TYPE A BASE	kg PER m <sup>2</sup>				TYPE C BASE	TYPE C BASE	WIDENING WITH HMA, TYPE A	SEAL COAT TYPE 2	SEAL COAT TYPE 5	PRIME COAT	TACK COAT	DEPTH			DEPTH																												
																1	2	CUT	FILL								90	150	270	480			90	90	150	270	480	540	100	150	200	100	150	200														
						m	m	m				m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	Mg	Mg	m <sup>2</sup>	m <sup>2</sup>			m <sup>2</sup>	m <sup>2</sup>	m <sup>2</sup>	m <sup>2</sup>	m <sup>2</sup>																					
<b>MAINLINE</b>																																																										
22+569 Lt.	Cl. II	4.7	9.1	4.6-7.7					3	6		60	60														0.016	60																														
22+685 Lt.	Cl. II	4	8.3	4.6-7.7					4			70	70														0.019	70																														
22+742.5 Lt.	Mod. Cl. II	10.0	8.2	4.6-7.7					5			100	100														0.027	100									Mod. Width																					
22+796 Rt.	Mod. Cl. IV	7.0	4.4	6-6	1.3	1.3			4	2		34	34														0.009		34		10						Mod. Length																					
22+798 Lt.	Cl. IV	12	8.2	6-6					20			131	131														0.036		131																													
22+995 Lt.	Cl. IV	7.4	9.5	6-6					11	22		109	109														0.030		109																													
23+025 Lt.	Mod. Cl. IV	5.4	25.9	2.4-6							51	170	170														0.046		170									Mod. Width & Radius																				
23+070 Rt.	Cl. IV	6	6.8	6-6					16			82	82														0.022		82																													
23+120.5 Lt.	Mod. Cl. IV	5.2	13.4	6-6					12	6		116	116														0.032		116									Mod. Width																				
23+132 Rt.	Cl. IV	7.4	8.1	6-6					9	19		94	94														0.026		94																													
23+172.5 Rt.	Cl. V	7.2	8.8	7.7-4.6						8																																																
23+190 Lt.	Cl. IV	6	9.6	6-6					7			73	73														0.020		73																													
23+366.5 Rt.	Cl. V	7.2	11.2	7.7-4.6						29																																																
23+394 Lt.	Cl. IV	7.2	9.2	6-6					20			101	101														0.027		101																													
23+446 Lt.	Cl. IV	7.2	9.2	6-6					16			82	82														0.022		82																													
23+569.5 Rt.	Mod. Cl. II	6.1	11.4	3.2-4.6					21			107	107														0.029	107											Mod. Radius																			
23+590.5 Rt.	Cl. V	7.2	6.8	7.7-4.6					10	5																																																
23+605 Lt.	M.P.R.A.	6.2	22.9	6-12					35	106		353	353														0.096		353																													
23+605 Rt.	M.P.R.A.	5.4	39.3	12-12								595	595														0.162		595																													
24+076 Rt.	Cl. V	7.2	9.2	7.7-4.6						17																																																
24+176 Lt.	Cl. II	4	9.2	4.6-7.7					6	12		60	60														0.016	60																														
24+183 Rt.	Mod. Cl. II	3.1	9.4	7.7-4.6						24		48	48														0.013	48													Mod. Width																	
24+240 Rt.	Cl. II	3.7	9.6	7.7-4.6								58	58														0.016	58																														
24+285 Lt.	Cl. V	7.2	12.3	4.6-7.7																																																						
24+451 Rt.	Cl. II	7.2	9.2	7.7-4.6					13			131	131														0.036	131																														
24+560 Rt.	Cl. II	3.6	9.2	7.7-4.6					7			69	69														0.019	69																														
24+621 Rt.	Cl. II	3.6	9.6	7.7-4.6					8			78	78														0.021	78																														
24+849 Rt.	Cl. II	3.6	9.2	7.7-4.6					2	2		48	48														0.013	48																														
24+909 Lt.	Cl. II	3.6	9.2	4.6-7.7						16		78	78														0.021	78																														
25+009 Rt.	Cl. V	7.2	14.3	7.7-4.6	5					48																																																
25+361 Lt.	M.P.R.A.	6.7	48.1	12-12					336			841	841														0.229		841																													
25+361 Rt.	M.P.R.A.	5.5	45.8	13.7-12					392			783	783														0.213		783																													
25+700 Lt.	Mod. Cl. II	4.2	6.6	4.6-7.7					5			45	45														0.012	45												Mod. Length																		
25+725 Rt.	Cl. II	3.6	12.7	7.7-4.6					8			79	79														0.021	79																														
25+734 Rt.	M.P.R.A.	6.3	38.8	12-12					277			615	615														0.167		615																													
25+797 Rt.	Cl. II	6.3	9.8	7.7-4.6					19			96	96														0.026	96																														
25+844 Rt.	Cl. II	6	9.2	7.7-4.6						17		83	83														0.023	83																														

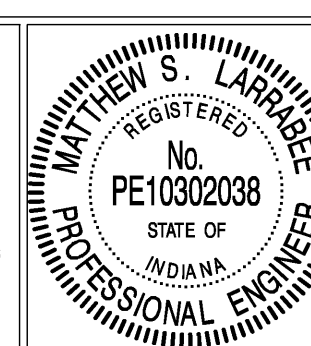
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P.R.A. = Public Road Approach



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 715-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew S. Lavallee* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: B.H.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA  
DEPARTMENT OF TRANSPORTATION

**APPROACH TABLE**

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	126 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS No. 3783.07

# SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE	EXCAVATION	CLEAR ZONE AT DRIVE	HMA MATERIAL FOR APPROACHES				HMA FOR PAVEMENT				HMA FOR WIDENING			ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR BASE NO. 53			COMPACTED AGGREGATE FOR SURFACE NO. 73			CEMENT CONCRETE PAVEMENT FOR DRIVES (150mm)				REMARKS		
						COMPACTED AGGREGATE BASE	HMA	CONCRETE				TYPE A SURFACE	TYPE A INTERMEDIATE	TYPE A INTERMEDIATE	TYPE A BASE	QC/OA 1, 64 SURFACE, 9.5mm	QC/OA 3, 64 SURFACE, 9.5mm	QC/OA 3, 64 INTERMEDIATE 19.0mm	QC/OA 1, 64 BASE, 25.0mm	TYPE C BASE	TYPE C BASE	WIDENING WITH HMA, TYPE A	SEAL COAT TYPE 2	SEAL COAT TYPE 5	PRIME COAT	TACK COAT	DEPTH			DEPTH							
						m	m	m																			%	%	m <sup>3</sup>	m <sup>3</sup>						m	kg PER m <sup>2</sup>
Line "A" Cont'd.																																					
25+900 Lt.	Cl. II	3.6	9.2	4.6-7.7							5	51	51																	0.014	51						
25+936.5 Lt.	Cl. II	3.6	9.2	4.6-7.7							8	78	78																	0.021	78						
26+239 Rt.	Cl. V	7.2	9.2	7.7-4.6							12																								60		
26+442 Lt.	Cl. II	3.6	9.2	4.6-7.7							7	74	74																	0.020	74						
26+481 Lt.	Cl. II	3.6	9.2	4.6-7.7							8	78	78																	0.021	78						
26+646 Rt.	Mod. Cl. II	2.6	9.2	7.7-4.6							6	60	60																	0.016	60						Mod. Width
26+714 Lt.	Cl. V	7.2	10.8	4.6-7.7							19																								95		
26+727 Rt.	Cl. V	7.2	10.0	7.7-4.6							18																								90		
26+965 Lt.	Cl. V	7.2	7.7	4.6-7.7							7																								74		
27+004 Lt.	M.P.R.A.	6.1	22.8	12-12							113	376	376																	0.102		376					
27+004 Rt.	M.P.R.A.	6.1	23	12-12							118	392	392																	0.107		392					
27+374 Rt.	Cl. V	7.2	9.2	7.7-4.6							25																										
27+423 Rt.	Mod. Cl. II	2.9	9.2	7.7-4.6							3	66	66																	0.018	66						Mod. Width
27+729 Rt.	Mod. Cl. II	2.7	6.2	7.7-4.6							5	48	48																	0.013	48						Mod. Length & Width
27+755 Rt.	Mod. Cl. II	2.4	9.3	7.7-4.6							4	43	43																	0.012	43						Mod. Width
27+814 Rt.	Cl. V	7.2	9.2	7.7-4.6							17																								84		
27+997 Lt.	Cl. V	7.2	9.2	4.6-7.7							17																								84		
28+199 Rt.	Mod. Cl. II	2.7	9.2	7.7-4.6							7	74	74																	0.020	74						Mod. Width
28+449 Rt.	Mod. Cl. IV	4.7	10.6	6-6							10	67	67																	0.018		67					Mod. Width
28+510 Rt.	Cl. II	3.8	8	7.7-4.6							20	65	65																	0.018	65						
28+616.5 Lt.	M.P.R.A.	5.3	22.8	12-11.7							88	352	352																	0.096		352					
28+616.5 Rt.	M.P.R.A.	6.2	22.9	12-12							95	378	378																	0.103		378					
28+691 Rt.	Cl. V	7.2	9.2	7.7-4.6							21																										
28+691.5 Lt.	Mod. Cl. II	3.2	3.2	4.6-7.7								20	20																	0.005	20						Mod. Length & Width
28+848 Rt.	Mod. Cl. II	3.5	9.2	7.7-4.6							5	52	52																	0.014	52						Mod. Width
28+899 Rt.	Cl. II	4.5	9.2	7.7-4.6							6	59	59																	0.016	59						
28+943 Rt.	Cl. V	7.2	9.2	7.7-4.6							21																										
29+137.5 Rt.	Mod. Cl. II	3.2	9.5	7.7-4.6	0.3	0.3					15	72	72																	0.020	72		1				Mod. Width
29+169 Rt.	Mod. Cl. II	2.7	6	7.7-4.6								67	67																	0.018	67						Mod. Length & Width
29+190 Lt.	Cl. II	4.0	9.2	4.6-7.7							5	54	54																	0.015	54						
29+227 Lt.	Cl. II	7.2	9.2	4.6-7.7							4	84	84																	0.023	84						
29+247 Lt.	Cl. II	7.2	9.2	4.6-7.7							4	84	84																	0.023	84						
29+422 Lt.	M.P.R.A.	6.1	22.8	12-12							107	357	357																	0.097		357					
29+422 Rt.	M.P.R.A.	6.2	22.8	12-12							114	380	380																	0.103		380					

R: J:\2853 AUTOCAD ROAD\JTB\55531.dwg  
11-10-06 AT 09:16

P.R.A. = Public Road Approach

**BF&S**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300    509 WEST 84TH DRIVE, SUITE G  
INDIANAPOLIS, IN. 46240             MERRILLVILLE, IN. 46410  
317 715-4615                             219 769-2334  
FAX 317 715-4616                             FAX 219 769-2377

REGISTERED PROFESSIONAL ENGINEER  
**Matthew S. Lanier**  
No. PE10302038  
STATE OF INDIANA

RECOMMENDED FOR APPROVAL: Matthew Lanier 11/10/06  
DESIGN ENGINEER                             DATE  
DESIGNED: \_\_\_\_\_ J.B. \_\_\_\_\_ DRAWN: \_\_\_\_\_ B.H. \_\_\_\_\_  
CHECKED: \_\_\_\_\_ B.Z. \_\_\_\_\_ CHECKED: \_\_\_\_\_ J.B. \_\_\_\_\_

INDIANA DEPARTMENT OF TRANSPORTATION  
**APPROACH TABLE**

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	127 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07






# SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADI	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE	EXCAVATION	CLEAR ZONE AT DRIVE	HMA MATERIAL FOR APPROACHES				HMA FOR PAVEMENT					HMA FOR WIDENING					ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR BASE NO. 53			COMPACTED AGGREGATE FOR SURFACE NO. 73			CEMENT CONCRETE PAVEMENT FOR DRIVES (150mm)	REMARKS	
						COMPACTED AGGREGATE BASE	HMA	CONCRETE				TYPE A SURFACE	TYPE A INTERMEDIATE	TYPE A INTERMEDIATE	TYPE A BASE	QC/OA 1, 64 SURFACE, 9.5mm	QC/OA 3, 64 SURFACE, 9.5mm	QC/OA 3, 64 INTERMEDIATE 19.0mm	QC/OA 1, 64 BASE, 25.0mm	TYPE C BASE		TYPE C BASE		WIDENING WITH HMA, TYPE A	SEAL COAT TYPE 2	SEAL COAT TYPE 5	PRIME COAT	TACK COAT	DEPTH			DEPTH				
																				kg PER m <sup>2</sup>		kg PER m <sup>2</sup>							kg PER m <sup>2</sup>		100	150	200			100
						1	2	CUT				FILL	90	150	270	480	90	90	150	270	480	540														
1	2	100	150	200	100	150	200	m <sup>2</sup>	m <sup>2</sup>	m <sup>2</sup>	m <sup>2</sup>	Mg	Mg																							
<i>Line "A" Cont'd.</i>																																				
34+433 Lt.	Cl. V	7.2	11	4.6-7.7					24																											
34+588 Rt.	Cl. V	7.2	9.2	7.7-4.6					13																		84									
34+615 Lt.	Cl. V	7.2	9.2	4.6-7.7					22																											
34+644 Lt.	Cl. II	3.6	9.2	4.6-7.7					7	69	69											0.019	69													
34+741 Lt.	M.P.R.A.	7.1	40.4	7-12					126	63	632	632										0.172		632												
34+801 Lt.	Cl. IV	8.6	7.5	6-6					3	3	56	56										0.015		56												
34+837 Lt.	Cl. IV	7.1	10.3	6-6					5	5	97	97										0.026		97												
34+896 Lt.	Cl. V	7.2	9.4	4.6-7.7					39																											
34+918 Lt.	Mod. Cl. II	2.9	24.1	4.6-7.7					33		110	110										0.030	110									Mod. Width				
34+938 Rt.	Mod. Cl. V	7.2	6.9	7.7-4.6					3																							Mod. Length				
34+965 Lt.	Cl. II	5	13.7	4.6-7.7					28		139	139										0.038	139													
35+063 Lt.	Mod. Cl. IV	4.8	11	4.6-7.7					8		75	75										0.020		75								Mod. Width & Radius				
35+079.5 Rt.	Mod. Cl. II	3	15.8	7.7-4.6					22		73	73										0.020	73									Mod. Width				
35+082 Lt.	Mod. Cl. IV	8.1	2.3	4.6-4.6					5		26	26										0.007		26								Mod. Length & Radius				
35+101 Rt.	Mod. Cl. II	2.9	1.6	4.6-4.6					1		7	7										0.002	7									Mod. Length, Width, & Radius				
35+122 Lt.	M.P.R.A.	5.4	49.1	12-12					220		734		734									0.200		734												
35+122 Rt.	M.P.R.A.	5.9	45.2	12-12					224		745		745									0.203		745												
35+149 Rt.	Mod. Cl. II	5	3.6	4.6-4.6					5		26	26										0.007	26									Mod. Length & Radius				
35+271 Lt.	M.P.R.A.	3.9	44.1	12-12					197		658		658									0.179		658												
35+358 Rt.	Cl. II	5	8.6	7.7-4.6					5	5	95	95										0.026	95													
35+546 Lt.	Cl. V	7.2	10.1	4.6-7.7					23																											
35+590 Lt.	Cl. V	7.2	9.2	4.6-7.7					23																								90			
35+590 Rt.	Cl. V	7.2	9.2	7.7-4.6					10																								65			
36+232 Lt.	Cl. IV	7.3	12.1	6-6					15		102	102										0.028		102												
36+350 Lt.	Cl. IV	7	9.2	6-6					17		110	110										0.030		110												
36+897 Rt.	Cl. II	4.7	10	7.7-4.6					22		88	88										0.024	88													
36+927 Rt.	Cl. II	6	10.7	7.7-4.6					20		98	98										0.027	98													
37+149 Rt.	Cl. IV	6.6	7.3	6-6					10	5	95	95										0.026		95												
37+215.5 Lt.	M.P.R.A.	5.2	41.2	12-12					64		641		641									0.174		641												
37+215.5 Rt.	M.P.R.A.	5.1	40.5	11-12					33		658		658									0.179		658												
37+231.5 Rt.	Mod. Cl. II	6.7	5.9	4.6-4.6					5		50	50										0.014	50										Mod. Length & Radius			
37+280 Lt.	M.P.R.A.	5.2	33.8	8-12					49		489		489									0.133		489												
37+295.5 Rt.	Mod. Cl. II	3.5	13.2	7.7-4.6	3.2	3.2			12		50	50										0.014	50			11						Mod. Width				
38+504.5 Rt.	Cl. V	7.2	9.2	7.7-4.6					25																											
39+082.5 Rt.	Cl. II	6	9.2	7.7-4.6																																
39+321.5 Lt.	M.P.R.A.	4.3	40.7	12-12							270		270									0.073		270												
39+321.5 Rt.	M.P.R.A.	4	40.7	12-12							620		620									0.169		620												

R: 1378314(1)DCA(1) ROAD LRT82RFB31.dwg  
11-10-06 AT 08:16  
MSM

P.R.A. = Public Road Approach



**Butler Fairman Seufert**  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 715-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2334 FAX 219 769-2377



REGISTERED  
No. PE10302038  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: B.H.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA  
DEPARTMENT OF TRANSPORTATION

APPROACH TABLE

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	129 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS NO. 3783.07

# SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH  m	LENGTH  m	RADII  m	DISTANCE BEYOND R/W LINE  m	SURFACE BEYOND R/W LINE			GRADE  %	EXCAVATION		CLEAR ZONE AT DRIVE  m	HMA MATERIAL FOR APPROACHES				HMA FOR PAVEMENT				HMA FOR WIDENING				WIDENING WITH HMA, TYPE A  m <sup>2</sup>	SEAL COAT TYPE 2  m <sup>2</sup>	SEAL COAT TYPE 5  m <sup>2</sup>	ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR BASE NO. 53			COMPACTED AGGREGATE FOR SURFACE NO. 73			CEMENT CONCRETE PAVEMENT FOR DRIVES (150mm)  m <sup>2</sup>	REMARKS				
						COMPACTED AGGREGATE BASE  m <sup>2</sup>	HMA  m <sup>2</sup>	CONCRETE  m <sup>2</sup>		CUT  m <sup>3</sup>	FILL  m <sup>3</sup>		TYPE A SURFACE  m <sup>2</sup>	TYPE A INTERMEDIATE  m <sup>2</sup>	TYPE A INTERMEDIATE  m <sup>2</sup>	TYPE A BASE  m <sup>2</sup>	QC/OA 1, 64 SURFACE, 9.5mm  m <sup>2</sup>	QC/OA 3, 64 SURFACE, 9.5mm  m <sup>2</sup>	QC/OA 3, 64 INTERMEDIATE 19.0mm  m <sup>2</sup>	QC/OA 1, 64 BASE, 25.0mm  m <sup>2</sup>	TYPE C BASE  m <sup>2</sup>	TYPE C BASE  m <sup>2</sup>	PRIME COAT  Mg	TACK COAT  Mg				DEPTH			DEPTH										
																												1	2	90	150	270	480	90	90			150	270	480	540
																			kg PER m <sup>2</sup>				kg PER m <sup>2</sup>							m <sup>2</sup>			m <sup>2</sup>								
																			m <sup>2</sup>				m <sup>2</sup>					m <sup>2</sup>		m <sup>2</sup>			m <sup>2</sup>								
<i>Line "A" Cont'd.</i>																																									
39+792 Lt.	M.P.R.A.	5.8	35.7	12-6						55			545		545														0.148			545									
39+792 Rt.	M.P.R.A.	5.7	36.4	6-12						54			539		539													0.147			539										
39+849 Rt.	M.P.R.A.	5.2	41.6	12-12						131			656		656													0.178			656										
40+058 Lt.	Cl. V	7.2	9.2	46-7.7																																					
40+301 Rt.	Cl. II	5.4	9.2	7.7-4.6						10			95		95													0.026			95										
40+676 Rt.	Mod. Cl. II	3.4	9.2	7.7-4.6						8			77		77													0.021			77				Mod. Width						
40+678.5 Lt.	Cl. V	7.2	9.2	46-7.7						17																															
41+190 Lt.	Cl. II	5	8.1	46-7.7						8			84		84													0.023			84										
41+695 Lt.	Cl. V	7.2	8.6	46-7.7						16																															
41+712 Rt.	Cl. V	7.2	9	7.7-4.6						16																															
<i>Line "S-1-A"</i>																																									
4+733.5 Lt.	Cl. IV	6.3	7.1	6-6													3071	8120	8159					3071						486											
4+780 Lt.	Cl. IV	8.3	6.2	6-6						11			75		75													0.020			75										
4+786 Rt.	Mod. Cl. IV	9.2	3.6	6-6						4			44		44													0.012			44				Mod. Length						
4+848 Rt.	Cl. IV	10.6	6.2	6-6						12			81		81													0.022			81										
4+884 Lt.	Cl. IV	11	9.2	6-6						23			116		116													0.032			116										
4+888 Rt.	Mod. Cl. IV	6.7	4.2	6-6						4			41		41													0.011			41				Mod. Length						
4+918 Rt.	Mod. Cl. IV	13.5	4.2	6-6						7			70		70													0.019			70				Mod. Length & Width						
5+056 Rt.	Mod. Cl. IV	9.2	8	6-3						8			84		84													0.023			84				Mod. Radius						
5+058 Lt.	Mod. Cl. II	15.3	3.7	46-7.7						9			90		90													0.024			90				Mod. Length & Width						
5+071 Rt.	Mod. Cl. IV	9.4	3.2	6-3						4			37		37													0.010			37				Mod. Length & Radius						
5+091 Lt.	Mod. Cl. II	8.1	3.9	1-2.1									36		36													0.010			36				Mod. Length, Width, & Radius						
5+101 Lt.	Mod. Cl. II	6.5	5.1	2-7.7						7			44		44													0.012			44				Mod. Length & Radius						
5+160 Lt.	Mod. Cl. II	2.8	4.2	46-7.7						2			24		24													0.007			24				Mod. Length & Width						
5+274.5 Lt.	Mod. Cl. II	2.4	5.2	46-7.7						4			28		28													0.008			28				Mod. Length & Width						
<i>LINE "S-2-A"</i>																																									
4+759.5 Rt.	Cl. II	3.7	5.8	7.7-4.6													2948	7698	7744					2948						1936											
4+801 Rt.	Cl. II	5.8	8.2	7.7-4.6																								0.010			37										
4+844 Rt.	Cl. II	3.7	8.2	7.7-4.6									52		52													0.014			52										
4+881 Rt.	Cl. II	5.5	8.6	7.7-4.6						4	4		85		85													0.023			85										
4+926 Lt.	Cl. V	7.2	13.3	46-7.7						17																															
5+306 Rt.	Mod. Cl. II	3.1	5.9	7.7-4.6									35		35													0.010			35				Mod. Length & Width						

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11-10-06 AT 09:16

P.R.A. = Public Road Approach



REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Matthew J. Galvez* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: B.H.  
CHECKED: B.Z. CHECKED: J.B.

INDIANA  
DEPARTMENT OF TRANSPORTATION

**APPROACH TABLE**

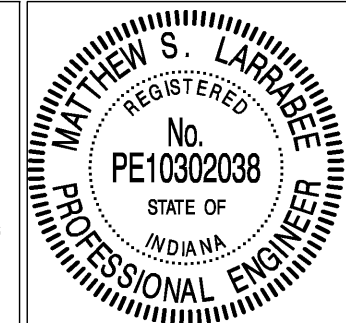
HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	130 OF 292
CONTRACT	PROJECT
R-28934	STP-097-9(005)

BFS No. 3783.07

# STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				SIZE	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	FLOW LINE					SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL	REVEMENT RIPRAP	CLASS 1 RIPRAP	CLASS 2 RIPRAP	CONCRETE CLASS A, FOR STRUCTURES	PIPE END SECTION	HMA FOR STRUCTURE INSTALLATION	SAFETY METAL END SECTION			CONNECT TO STRUCTURE	REMARKS				
	STATION	LEFT	RIGHT	CROSS						COVER	UP ELEV.	DOWN ELEV.	SERVICE LIFE	PCCP FOR STRUCTURE INSTALLATION											TYPE	SLOPE	EA.						
														m <sup>3</sup>																m <sup>2</sup>	m <sup>3</sup>		
	Line "A"				mm			m		m	m	m	YEAR				Mg	Mg	Mg	m <sup>3</sup>	EA.	Mg	m <sup>2</sup>										
10	22+569	✓			375	3		11.4		0.7	263.049	263.026	75	A	7.0	2	1.8													1			
11	22+706	✓			375	2	Inlet F-7	28.0		0.3	263.310	263.300	75	A	7.0	1	18.2																
12	22+746.5	✓			375	2		110.0		0.4	263.53	263.256	75	A	7.0	2	17.6													1			
13	22+995	✓			750 x 475 RCPE	3		12.0		0.3	263.357	263.320	75	A	7.0	2	3.2																
14	23+025	✓			750 x 475 RCPE	3		18.0		0.3	263.206	263.152	75	A	7.0	2	4.9																
15	23+070		✓		575 x 350 RCPE	3		10.8		0.3	263.327	263.284	75	A	7.0	2	1.8																
16	23+120.5	✓			600 x 450 CMPA	3		10.8		0.3	262.972	262.938	75	A	7.0	2	1.5																
17	23+132		✓		575 x 350 RCPE	3		14.4		0.3	263.082	262.998	75	A	7.0	2	2.4														2		
18	23+172.5		✓		575 x 350 RCPE	3		10.8		0.4	262.842	262.780	75	A	7.0	2	1.8														2		
19	23+190	✓			575 x 350 RCPE	3		9.6		0.3	262.730	262.719	75	A	7.0	2	1.6																
20	23+287			✓	600	1		19.0		0.5	262.150	262.080	75	A	7.0	1	24.2	18							9						2		
21	23+366.5		✓		575 x 350 RCPE	3		13.2		0.6	262.007	261.981	75	A	7.0	2	2.2																
22	23+555		✓		1050 x 675 RCPE	1		22.5		0.6	261.270	261.240	75	A	7.0	1	59.1	22															
23	23+744			✓	3000 x 1200	1	Box Culvert	37.0		1.1	260.650	260.550	75	A	7.0	1	74															Buried 300mm	
24	24+076		✓		375	3		10.8		0.3	262.411	262.366	75	A	7.0	2	1.7																
25	24+206	✓			375	3		90.0		0.5	262.000	261.775	75	A	7.0	2	14.4																
26	24+211.5		✓		950 x 600 RCPE	3		75.0		0.4	262.027	261.800	75	A	7.0	2	30.0																
27	24+267			✓	6100 x 2100 or 7315 x 2134	1	Box Culvert Arch Box	26.5	30°	1.1	259.950	259.900	75	A	7.0	2	274																
28	24+285	✓			450	3		12.6		0.6	261.660	261.620	75	A	7.0	1	14.2																
29	24+451		✓		375	3		12.0		0.3	262.485	262.449	75	A	7.0	2	1.9																
30	24+560		✓		375	3		7.8		0.3	262.806	262.782	75	A	7.0	2	1.2															2	
31	24+621		✓		375	3		9.0		0.3	262.988	262.961	75	A	7.0	2	1.4															2	
32	24+780			✓	600	1		18.5		0.6	262.730	262.630	75	A	7.0	1	26.3	18														2	
33	24+849		✓		575 x 350 RCPE	3		7.2		0.3	263.176	263.130	75	A	7.0	2	1.2																
34	24+909	✓			450	3		7.8		0.3	263.706	263.625	75	A	7.0	2	1.5																
35	25+009		✓		575 x 350 RCPE	3		11.4		0.3	264.732	264.656	75	A	7.0	2	1.9															2	
36	25+572.5			✓	450 RCP	1		23.5		0.8	265.210	265.100	75	A	7.0	1	32.5	6														2	
37	25+700	✓			375	3		7.8		0.3	265.440	265.419	75	A	7.0	2	1.2															2	
38	25+797		✓		375	3		10.2		0.3	265.507	265.487	75	A	7.0	2	1.6																
38A	25+844		✓		375	3		9.6		0.3	265.412	265.392	75	A	7.0	2	1.5																
39	25+900	✓			375	3		8.4		0.4	264.930	264.908	75	A	7.0	2	1.3																
40	25+936.5	✓			375	3		9.0		0.4	264.836	264.812	75	A	7.0	2	1.4																
41	26+221.5			✓	850 x 550 RCPE	1		18.5		0.6	264.110	264.090	75	A	7.0	1	33.1	13														2	
42	26+239		✓		375	3		10.8		0.3	264.330	264.218	75	A	7.0	2	1.7																
43	26+442	✓			750 x 475 RCPE	3		7.8		0.3	263.373	263.347	75	A	7.0	2	2.1																
44	26+481	✓			750 x 475 RCPE	3		7.2		0.3	263.243	263.218	75	A	7.0	2	1.9																
45	26+631		✓		950 x 600 RCPE	1		19.0		0.7	263.000	262.970	75	A	7.0	1	42.7	17														2	
46	26+694			✓	4800 x 2100 or 6096 x 2134	1	Box Culvert Arch Box	25.5	45°	0.7	261.560	261.460	75	A	7.0	1	180																
47	26+714	✓			450	3		10.8		0.5	263.043	263.024	75	A	7.0	2	2.1																
48	26+727		✓		375	3		12.0		0.6	262.950	262.848	75	A	7.0	2	1.9																
49	26+965	✓			375	3		11.4		0.4	263.981	263.876	75	A	7.0	2	1.8																
50	27+021.7			✓	600	1		24.0		0.6	263.630	263.600	75	A	7.0	1	34.2	18															
51	27+374	✓			375	3		12.0		0.5	263.949	263.935	75	A	7.0	2	1.9																
52	27+423.5	✓			375	3		8.4		0.4	264.001	263.992	75	A	7.0	2	1.3																
	SUBTOTAL 1																																
											928.2	112.0	168.0	128.0												169						349.6	

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RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: BJE  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	131 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07



# STRUCTURE DATA

STRUCTURE NUMBER	LOCATION			SIZE	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	FLOW LINE				SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL	REVETMENT R/R	CLASS 1 RIPRAP	CLASS 2 RIPRAP	CONCRETE CLASS A, FOR STRUCTURES	PIPE END SECTION	HMA FOR STRUCTURE INSTALLATION	PCCP FOR STRUCTURE INSTALLATION		SAFETY METAL END SECTION			CONNECT TO STRUCTURE	REMARKS												
	STATION	LEFT	RIGHT						CROSS	m	COVER	UP											DOWN	SERVICE	ELEV.	ELEV.	YEAR			m <sup>2</sup>	Mg	EA.	Mg	Mg	EA.	Mg	EA.	m <sup>2</sup>	TYPE	SLOPE	EA.
53	Line "A" 27+562.6		✓		750 x 475 RCPE	1	17.5	0.5	264.010	264.000	75	A	7.0	1	24.0	20							20.5				2														
54	27+742		✓		375	3	33.6	0.5	264.261	264.818	75	A	7.0	2	5.4																										
55	27+814		✓		375	3	10.8	0.3	264.337	264.323	75	A	7.0	2	1.7																										
56	27+955			✓	750 x 475 RCPE	1	18.0	0.5	264.520	264.500	75	A	7.0	1	24.7	20								20.5				2													
57	27+997	✓			375	3	11.4	0.4	264.658	264.626	75	A	7.0	2	1.8																										
58	28+199		✓		375	3	7.2	0.3	265.232	265.205	75	A	7.0	2	1.2																										
59	28+400			✓	450 RCP	1	19.0	0.5	264.650	264.620	75	A	7.0	1	19.0	6							17.6						2												
60	28+508		✓		600	3	135.0	0.6	264.321	264.234	75	A	7.0	2	36.5																										
61	28+593.5			✓	600 RCP	1	23.0	0.5	264.230	264.190	75	A	7.0	1	29.3	18								18.7																	
62	28+616.50	✓			375	1	15.5	0.3	264.660	264.600	75	A	7.0	1	10.1																										
63	28+691		✓		375	3	11.4	0.3	264.500	264.438	75	A	7.0	2	1.8																										
64	NOT USED																																								
65	28+797			✓	850 x 550 RCPE	1	22.0	0.6	263.900	263.890	75	A	7.0	1	39.4	13								22.0																	
66	28+848		✓		750 x 475 RCPE	3	9.0	0.3	264.057	264.039	75	A	7.0	2	2.4																										
67	28+899		✓		750 x 475 RCPE	3	9.0	0.3	264.167	264.148	75	A	7.0	2	2.4																										
68	28+943		✓		750 x 475 RCPE	3	10.2	0.3	264.264	264.242	75	A	7.0	2	2.8																										
69	29+036.9			✓	600 RCP	1	18.0	0.6	263.790	263.740	75	A	7.0	1	25.6	18								18.7																	
70	29+137.5		✓		850 x 550 RCPE	3	6.0	0.3	264.112	264.093	75	A	7.0	2	2.0																										
71	29+169		✓		750 x 475 RCPE	3	10.2	0.3	264.212	264.182	75	A	7.0	2	2.8																										
72	29+190	✓			375	3	9.6	0.4	263.942	263.910	75	A	7.0	2	1.5																										
73	29+237	✓			375	3	31.8	0.4	263.819	263.712	75	A	7.0	2	5.1																										
74	29+282.8			✓	850 x 550 RCPE	1	22.0	0.6	263.610	263.600	75	A	7.0	1	39.4	13								22.0																	
75	29+500		✓		375	3	90.0	0.3	263.970	263.700	75	A	7.0	2	16.0																										
76	NOT USED																																								
77	NOT USED																																								
78	29+826	✓			600 RCP	3	12.6	0.7	262.874	262.842	75	A	7.0	2	3.4																										
79	29+937	✓			750 x 475 RCPE	3	6.6	0.3	263.392	263.379	75	A	7.0	2	1.8																										
80	30+225	✓			600 RCP	1	30.0	0.3	264.417	264.052	75	A	7.0	1	29.5									18.7																	
81	30+337		✓		375	3	10.8	0.3	264.544	264.516	75	A	7.0	2	1.7																										
82	30+386	✓			750 x 475 RCPE	3	7.8	0.3	264.669	264.649	75	A	7.0	2	2.1																										
83	30+386		✓		375	3	9.6	0.3	264.445	264.440	75	A	7.0	2	1.5																										
84	30+425		✓		375	3	8.4	0.3	264.772	264.750	75	A	7.0	2	1.3																										
85	30+632.2			✓	600	1	18.5	0.6	264.390	264.310	75	A	7.0	1	26.3	18								18.7																	
86	30+793	✓			375 RCP	3	27.0	0.4	264.676	264.621	75	A	7.0	2	4.3																										
87	30+835	✓			375 RCP	3	10.2	0.3	264.754	264.732	75	A	7.0	2	1.6																										
88	30+835		✓		375	3	9.0	0.3	264.780	264.763	75	A	7.0	2	1.4																										
89	31+164		✓		375	3	12.0	0.5	264.924	264.892	75	A	7.0	2	1.9																										
90	31+441	✓			375 RCP	3	11.4	0.5	264.235	264.207	75	A	7.0	2	1.8																										
91	31+467.5		✓		575 x 350 RCPE	3	10.2	0.6	264.133	264.106	75	A	7.0	2	1.7																										
92	31+619			✓	6100 x 1800 or 6096 x 1829	1	21.5	0.8	262.760	262.750	75	A	7.0	1	576	115								91.1																	
92A	31+795		✓		750 x 475 RCPE	3	160.0	0.3	264.132	263.874	75	A	7.0	2	52.5																										
93	31+837	✓			850 x 550 RCPE	3	19.8	0.3	264.141	264.097	75	A	7.0	2	6.5																										
94	32+063		✓		750 x 475 RCPE	3	84.0	0.3	264.392	264.367	75	A	7.0	2	22.7																										
95	32+130		✓		750 x 475 RCPE	3	11.4	0.4	264.542	264.486	75	A	7.0	2	3.1																										
96	32+486 SUBTOTAL 2		✓		575 x 350 RCPE	1	24.0	0.8	264.890	264.680	75	A	7.0	1	33.5 1057.7	16 257.0								19.3 309.8																	

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**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300  
INDIANAPOLIS, IN. 46240  
317 715-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G  
MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377

WALTER S. LARGIERE  
REGISTERED  
No. PE10302038  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

RECOMMENDED  
FOR APPROVAL: *Matthew J. Vanalst* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: \_\_\_\_\_ J.B. \_\_\_\_\_ DRAWN: \_\_\_\_\_ BJE \_\_\_\_\_

CHECKED: \_\_\_\_\_ B.Z. \_\_\_\_\_ CHECKED: \_\_\_\_\_ J.B. \_\_\_\_\_

INDIANA  
DEPARTMENT OF TRANSPORTATION

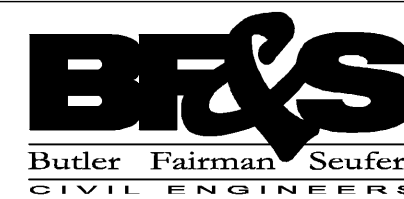
STRUCTURE DATA

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	132 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

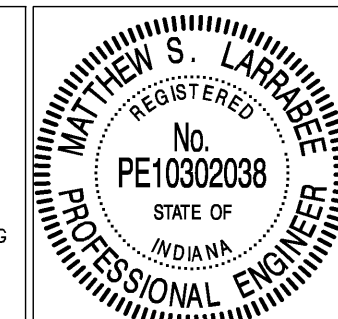
# STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				SIZE mm	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH m	SKEW	FLOW LINE				SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL m <sup>3</sup>	REVIEWMENT RIPRAP Mg	CLASS 1 RIPRAP Mg	CLASS 2 RIPRAP Mg	CONCRETE CLASS A, FOR STRUCTURES m <sup>3</sup>	PIPE END SECTION EA.	HMA FOR STRUCTURE INSTALLATION Mg	SAFETY METAL END SECTION			CONNECT TO STRUCTURE	REMARKS							
	STATION	LEFT	RIGHT	CROSS						COVER m	UP STREAM ELEV.	DOWN STREAM ELEV.	SERVICE LIFE YEAR											TYPE	SLOPE	EA.									
<i>Line "A"</i>																																			
97	32+625			✓	2400 x 900	1	Box Culvert	28.6		0.7	264.580	264.570	75	A	7.0	1	95	25.2											Buried 300mm						
98	32+650			✓	3000 x 1200 or 4267 x 1219 600 RCP	1	Box Culvert Arch Box	28.0	17°	0.6	264.510	264.480	75	A	7.0	1	105	37.2						24											
99	32+668	✓				3		50.0		0.7	264.725	264.500	75	A	7.0	2	13.5								2										
100	32+800.5			✓	850 x 550 RCPE	3		7.2		0.3	265.269	265.248	75	A	7.0	2	2.4								2										
101	32+822	✓			750 x 475 RCPE	3		10.8		0.4	265.066	265.035	75	A	7.0	2	2.9								2										
102	33+447	✓			750 x 475 RCPE	1		19.2		0.4	266.865	266.826	75	A	7.0	1	23.1								2	10			20.5						
103	33+447			✓	850 x 550 RCPE	1		20.4		0.4	266.823	266.726	75	A	7.0	1	28.9								2	11			22.0						
104	33+620			✓	850 x 550 RCPE	3		39.6		0.5	267.799	267.396	75	A	7.0	2	13.1								2										
105	33+810	✓			575 x 350 RCPE	3		12.0		0.5	268.906	268.870	75	A	7.0	2	2.0												2						
106	34+029			✓	2400 x 1200	1	Box Culvert	24.5		0.7	268.940	268.860	75	A	7.0	1	106	25.2							21				42.8						
107	34+052	✓			850 x 550 RCPE	3		6.6		0.3	269.889	269.836	75	A	7.0	2	2.2												2						
108	34+351			✓	2400 x 900	1	Box Culvert	26.5		0.3	270.692	270.620	75	A	7.0	1	57	25.2								20				42.4					
109	34+433	✓			600	3		11.4		0.3	271.054	271.007	75	A	7.0	2	3.1																		
110	34+588			✓	375	3		10.8		0.3	271.899	271.841	75	A	7.0	2	1.7												2						
111	34+628.5	✓			450 RCP	3		39.6		0.5	271.975	271.875	75	A	7.0	2	7.5																		
112	34+768.5	✓			375	1		20.0		0.3	272.400	272.350	75	A	7.0	1	13.0									8			17.1						
113	34+801	✓			375 RCP	3		9.6		0.3	272.784	272.725	75	A	7.0	2	1.5																		
114	34+837	✓			375 RCP	3		12.6		0.3	272.642	272.603	75	A	7.0	2	2.0																		
115	34+896	✓			375 RCP	3		10.2		0.5	272.458	272.427	75	A	7.0	2	1.6																		
116	34+938			✓	375	3		10.8		0.3	272.299	272.228	75	A	7.0	2	1.7												2						
117	34+946.5	✓			750 x 475 RCPE	3		33.0		0.8	272.339	272.241	75	A	7.0	2	7.6																		
118	35+063	✓			850 x 550 RCPE	3		10.2		0.5	271.673	271.611	75	A	7.0	2	3.4																		
119	35+079.5			✓	375	3		6.6		0.3	271.357	271.313	75	A	7.0	2	1.1																		
120	35+105	✓			850 x 550 RCPE	1		24.6		0.3	271.452	271.203	75	A	7.0	1	30.3									11									
121	35+140			✓	575 x 350 RCPE	1		38.5		0.4	271.070	270.966	75	A	7.0	1	29.3																		
122	NOT USED																																		
123	35+250	✓			850 x 550 RCPE	1		50.0		0.3	270.099	270.000	75	A	7.0	2	61.7																		
124	35+358			✓	850 x 550 RCPE	3		7.8		0.3	269.862	269.820	75	A	7.0	2	2.6												2						
125	35+472			✓	2400 x 1200 or 3658 x 1219 375	1	Box Culvert Arch Box	22.0		1.0	267.850	267.820	75	A	7.0	1	123	25.2																	
126	35+590			✓	375	3		10.8		0.3	269.190	269.115	75	A	7.0	2	1.7												2						
127	35+762.4			✓	750 x 475 RCPE	1		19.0		0.7	269.350	269.040	75	A	7.0	1	32.6	20								10			2						
128	36+232	✓			450	3		16.8		0.8	267.864	267.569	75	A	7.0	2	3.2																		
129	36+248			✓	6100 x 1800 or 6096 x 1829 375 RCP	1	Box Culvert Arch Box	21.0		0.9	266.970	266.960	75	A	7.0	1	185.5	90												44					
130	36+350	✓			375 RCP	3		14.4		0.6	268.495	268.407	75	A	7.0	2	2.3																		
131	36+752			✓	600	3		18.0		0.5	270.340	270.330	75	A	7.0	2	4.9	18											2						
132	37+031			✓	600 RCP	1		20.5		0.6	269.960	269.910	75	A	7.0	1	29.2	18											2						
133	NOT USED																																		
134	37+247			✓	750	1		33.0	40°	0.3	269.800	269.770	75	A	7.0	1	44.5	20											2						
135	37+336			✓	450 RCP	1		22.0		0.7	270.100	269.930	75	A	7.0	1	27.6	6											2						
136	37+549			✓	600 RCP	1		18.0		0.6	269.950	269.930	75	A	7.0	1	25.6	18											2						
137	37+795.5			✓	375	3		7.8		0.3	269.468	269.428	75	A	7.0	2	1.2												2						
138	37+805			✓	600	1		19.0		0.3	269.420	269.380	75	A	7.0	1	18.7	18											2						
SUBTOTAL 3																1119.2	258.4	87.6								254			237.6						

I:\12831\AUTODCAD\ROAD\12831\06 AT 09-37 11-10-06 AT 09-37



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2335 FAX 219 769-2377



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: BJE  
CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA

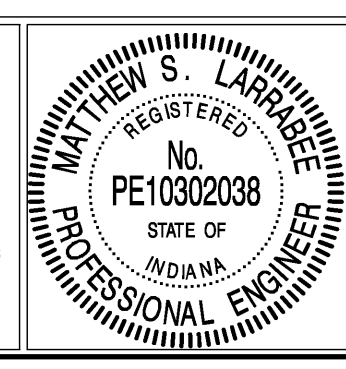
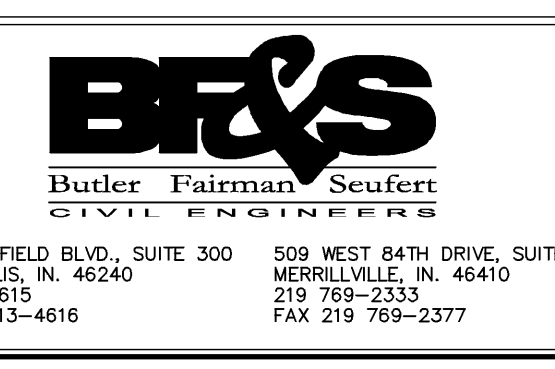
HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	133 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

# STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				SIZE mm	PIPE TYPE	MANHOLE, INLET CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH m	SKEW	FLOW LINE					SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL m <sup>3</sup>	REVEINMENT R/R Mg	CLASS 1 R/R Mg	CLASS 2 R/R Mg	CONCRETE CLASS A, FOR STRUCTURES m <sup>3</sup>	PIPE END SECTION EA.	HMA FOR STRUCTURE INSTALLATION Mg	PCCP FOR STRUCTURE INSTALLATION			SAFETY METAL END SECTION			CONNECT TO STRUCTURE	REMARKS																	
	STATION	LEFT	RIGHT	CROSS						COVER	UP STREAM ELEV.	DOWN STREAM ELEV.	SERVICE LIFE YEAR	TYPE											SLOPE	EA.																							
																											m <sup>2</sup>	TYPE	SLOPE	EA.																			
	Line "A"																																																
139	38+390			✓	2400 x 900	1	Box Culvert	26.0		0.6	268.210	268.150	75	A	7.0	1	86		25.2				20										Buried 150mm																
140	38+504.5		✓		375	3		12.0		0.6	268.619	268.590	75	A	7.0	2	1.9						2																										
141	38+997			✓	850 x 550 RCPE	1		19.0		0.6	268.630	268.570	75	A	7.0	1	34.0	13					11												2														
142	39+203			✓	1800 x 900	1	Box Culvert	23.0		0.8	267.470	267.400	75	A	7.0	1	77	20					17																										
143	39+347			✓	600 RCP	1		31.0	40°	0.5	267.830	267.710	75	A	7.0	1	39.6	18					9													2													
144	39+772.5			✓	375	1		30.6		1.2	268.580	268.499	75	A	7.0	1	52.9						2	8																									
145	NOT USED																																																
146	39+958			✓	450 RCP	1		22.0		0.5	267.900	268.000	75	A	7.0	1	22.0	6					9														2												
147	40+170			✓	600	1		18.0		0.6	267.710	267.650	75	A	7.0	1	25.6	18					9														2												
148	40+300			✓	375	3		9.6		0.3	268.048	268.031	75	A	7.0	2	1.5						2																										
149	40+536			✓	600	1		18.0		0.6	267.370	267.350	75	A	7.0	1	25.6	18					9															2											
150	NOT USED																																																
151	NOT USED																																																
152	40+764			✓	850 x 550 RCPE	1		19.0		0.6	267.190	267.090	75	A	7.0	1	34.0	13					11															2											
153	40+944			✓	850 x 550 RCPE	1		19.0		0.6	267.030	266.950	75	A	7.0	1	34.0	13					11															2											
154	41+190		✓		375	3		7.8		0.3	267.201	267.135	75	A	7.0	2	1.2						2																										
155	41+237			✓	600	1		23.0		0.5	266.770	266.750	75	A	7.0	1	29.3	18					9															2											
156	41+377			✓	850 x 550 RCPE	1		25.0		0.6	266.650	266.610	75	A	7.0	1	44.8	13					11															2											
157	41+426			✓	2700 x 900	1	Box Culvert	38.0	20°	0.6	266.150	266.149	75	A	7.0	1	135	28					22															Buried 150mm											
158	41+695		✓		450	3		10.8		0.5	267.434	267.274	75	A	7.0	2	2.1						2																										
159	41+712			✓	450	3		10.8		0.4	267.303	267.238	75	A	7.0	2	2.1						2																										
159A	36+400			✓	450	2	Inlet Type E-7	146.0		0.6	268.500	267.350	75	A	7.0	2	23.1						2																										
	Line "S-2-A"																																																
160	4+759.5			✓	375	3		7.8		0.3	266.852	266.840	75	A	7.0	2	1.2																					2											
161	4+801			✓	375	3		10.2		0.3	266.788	266.772	75	A	7.0	2	1.6																					2											
162	4+844			✓	375	3		9.0		0.3	266.718	266.704	75	A	7.0	2	1.4																					2											
163	4+880.5			✓	375	3		10.2		0.3	266.661	266.645	75	A	7.0	2	1.6																					2											
164	4+926			✓	450 RCP	3		11.4		0.5	266.464	266.437	75	A	7.0	2	2.2																					2											
165	5+042			✓	600	1		20.5		0.3	266.345	266.300	75	A	7.0	1	20.2	18					9															2											
	SUBTOTAL 4															699.9	196.0	25.2			165																												
	PREV. SUBTOTAL 1																																																
	PREV. SUBTOTAL 2															928.2	112.0	168.0	128.0		169						349.6																						
	PREV. SUBTOTAL 3															1057.7	257.0	287.0			151						309.8																						
	TOTAL															3805.0	823.4	280.8	128.0		739						897.0																						

P:\172831\AUTOCAD ROAD\172831\172831.dwg 11-10-06 AT 09:37 NSM



RECOMMENDED FOR APPROVAL: Matthew S. Larkins 11/10/06  
 DESIGN ENGINEER DATE

DESIGNED: J.B. DRAWN: BJE  
 CHECKED: B.Z. CHECKED: J.B.

INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	134 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07


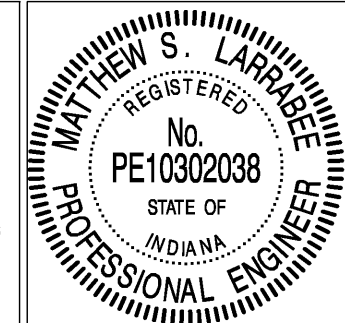


		STRUCTURE NUMBER																															
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32									
CORRUGATED STEEL PIPE / PIPE-ARCH	PIPE TYPE / SHAPE	3	2	2	3	3	3	3	3	3	3	1	3	1	BOX CULVERT	3	3	3	BOX CULVERT	3	3	3	3	1									
	SMOOTH PIPE SIZE	375mm	375mm	375mm	750mm X 475mm	750mm X 475mm	575mm X 350mm	600mm X 450mm	575mm X 350mm	575mm X 350mm	575mm X 350mm	600mm	575mm X 350mm	1050mm X 675mm	375mm	375mm	950mm X 600mm	450mm	450mm	450mm	375mm	375mm	375mm	375mm	600mm								
	CORRUGATED PIPE SIZE	375mm																															
	RCP / RCHPE (S) CLASS	II	II	II																													
	D <sub>0.3</sub> RATING	50.0	60.0	60.0																													
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)	OK																															
	CORRUGATED PE PIPE, TYPE S (S)	OK																															
	RIBBED PE PIPE (S)																																
	SMOOTH WALL PE PIPE (S) / MAXIMUM DR	OK/26.00																															
	PROFILE WALL PVC PIPE (S)	OK																															
	SMOOTH WALL PVC PIPE (S)	OK																															
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)	OK																			OK				OK								
	FULLY BIT. PAVED & LINED (S)																																
	ZINC COATED (C)																																
	ZINC COATED W/ BPI (C)																																
	ALUM. COATED TYPE 2 (C)																																
	ALUM. COATED TYPE 2 W/ BPI (C)																																
	POLYMER PRECOATED GALVANIZED (C)																																
	POLYMER PRECOATED GALVANIZED W/ BPI (C)																																
	FIBER BONDED BITUMINOUS COATED (C)																																
FIBER BONDED BITUMINOUS COATED W/ BPI (C)																																	
CORRUGATED ALUM. ALLOY PIPE (C)																																	
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																																	
STR. PLATE ALUMINUM ALLOY PIPE (C)																																	
STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																																	
STR. PLATE STEEL PIPE (C)																																	
STR. PLATE STEEL PIPE W/ CFP (C)																																	

		STRUCTURE NUMBER																															
		33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51													
CORRUGATED STEEL PIPE / PIPE-ARCH	PIPE TYPE / SHAPE	3	3	3	1	3	3	3	3	1	3	3	3	1	BOX CULVERT	3	3	3	1	3													
	SMOOTH PIPE SIZE	575mm X 350mm	450mm	575mm X 350mm	450mm	375mm	375mm	375mm	375mm	850mm X 550mm	375mm	750mm X 475mm	750mm X 475mm	950mm X 600mm	450mm	375mm	375mm	600mm	375mm														
	CORRUGATED PIPE SIZE	450mm																															
	RCP / RCHPE (S) CLASS																																
	D <sub>0.3</sub> RATING		50.0			60.0	60.0	60.0	60.0		60.0																						
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																																
	CORRUGATED PE PIPE, TYPE S (S)																																
	RIBBED PE PIPE (S)																																
	SMOOTH WALL PE PIPE (S) / MAXIMUM DR																	OK/26.00															
	PROFILE WALL PVC PIPE (S)																	OK															
	SMOOTH WALL PVC PIPE (S)																	OK															
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																		OK	OK													
	FULLY BIT. PAVED & LINED (S)																																
	ZINC COATED (C)																																
	ZINC COATED W/ BPI (C)																																
	ALUM. COATED TYPE 2 (C)																																
	ALUM. COATED TYPE 2 W/ BPI (C)																																
	POLYMER PRECOATED GALVANIZED (C)																																
	POLYMER PRECOATED GALVANIZED W/ BPI (C)																																
	FIBER BONDED BITUMINOUS COATED (C)																																
FIBER BONDED BITUMINOUS COATED W/ BPI (C)																																	
CORRUGATED ALUM. ALLOY PIPE (C)																																	
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																																	
STR. PLATE ALUMINUM ALLOY PIPE (C)																																	
STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																																	
STR. PLATE STEEL PIPE (C)																																	
STR. PLATE STEEL PIPE W/ CFP (C)																																	

- LEGEND
- RCP- REINFORCED CONCRETE PIPE
  - RCHPE- 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
  - (S)- SMOOTH PIPE MATERIAL
  - (C)- CORRUGATED PIPE MATERIAL
  - OK- ACCEPTABLE FOR USE
  - (L)- LOCK SEAM PIPE REQUIRED
  - \*\*- TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

11-10-06 AT 09:40  
 MSH  
 CORRUGATED STEEL PIPE / PIPE-ARCH  
 F:\17281\AUTOCAD\ROAD\17281\971.dwg

 Butler Fairman Seufert CIVIL ENGINEERS <small>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 715-4615 FAX 317 715-4616</small>	 REGISTERED PROFESSIONAL ENGINEER No. PE10302038 STATE OF INDIANA	RECOMMENDED FOR APPROVAL: <i>Matthew J. Vanlee</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION  PIPE MATERIAL SHEET	HORIZONTAL SCALE NONE VERTICAL SCALE NONE SURVEY BOOK CONTRACT R-28934	FILE 3783 DESIGNATION 9706580 SHEET 292 PROJECT STP/097-9(005)
		DESIGNED: MSL CHECKED: BZ		DRAWN: MSS CHECKED: MSL	

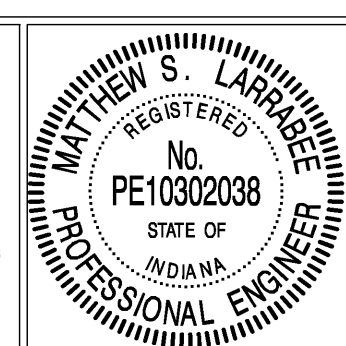
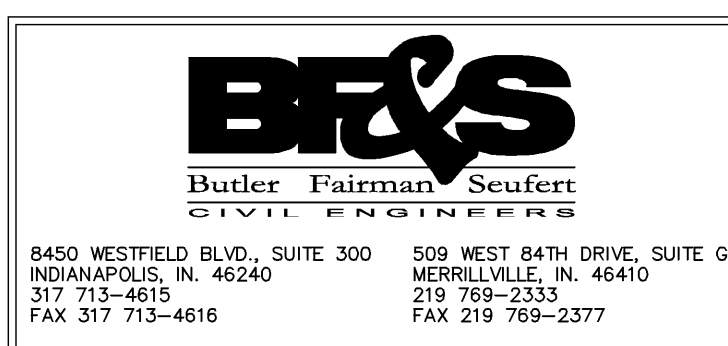
BFS NO. 3783.07

		STRUCTURE NUMBER																						
		52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
PIPE TYPE / SHAPE		3	1	3	3	1	3	3	1	3	1	3	3	NOT USED	1	3	3	3	1	3	3	3	1	
SMOOTH PIPE SIZE		375mm	750mm X 475mm	375mm	375mm	750mm X 475mm	375mm	375mm	450mm	600mm	600mm	375mm	375mm		850mm X 550mm	750mm X 475mm	750mm X 475mm	750mm X 475mm	600mm	850mm X 550mm	750mm X 475mm	375mm	375mm	850mm X 550mm
CORRUGATED PIPE SIZE		375mm		375mm	375mm		375mm	375mm		600mm	600mm	375mm	375mm									375mm	375mm	
RCP / RCHP (S)	CLASS	II		II	II		II	II		II	II	II	II									II	II	
	D <sub>0.3</sub> RATING	60.0		50.0	60.0		60.0	60.0		50.0	60.0	60.0	60.0									60.0	60.0	
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)				OK						OK														
CORRUGATED PE PIPE, TYPE S (S)																								
RIBBED PE PIPE (S)																								
SMOOTH WALL PE PIPE (S) / MAXIMUM DR																								
PROFILE WALL PVC PIPE (S)																								
SMOOTH WALL PVC PIPE (S)																								
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)				OK						OK														
FULLY BIT. PAVED & LINED (S)																								
ZINC COATED (C)																								
ZINC COATED W/ BPI (C)																								
ALUM. COATED TYPE 2 (C)																								
ALUM. COATED TYPE 2 W/ BPI (C)																								
POLYMER PRECOATED GALVANIZED (C)																								
POLYMER PRECOATED GALVANIZED W/ BPI (C)																								
FIBER BONDED BITUMINOUS COATED (C)																								
FIBER BONDED BITUMINOUS COATED W/ BPI (C)																								
CORRUGATED ALUM. ALLOY PIPE (C)																								
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																								
STR. PLATE ALUMINUM ALLOY PIPE (C)																								
STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																								
STR. PLATE STEEL PIPE (C)																								
STR. PLATE STEEL PIPE W/ CFP (C)																								

		STRUCTURE NUMBER																		
		75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92A	93
PIPE TYPE / SHAPE		3	NOT USED	NOT USED	3	3	1	3	3	3	3	1	3	3	3	3	3	3	3	3
SMOOTH PIPE SIZE		375mm			600mm	750mm X 475mm	600mm	375mm	750mm X 475mm	375mm	375mm	600mm	375mm	375mm	375mm	375mm	375mm	575mm X 350mm	750mm X 450mm	850mm X 550mm
CORRUGATED PIPE SIZE		375mm						375mm		375mm	375mm	600mm	375mm	375mm	375mm	375mm	375mm			
RCP / RCHP (S)	CLASS	II						II		II	II	II	II	II	II	II	II			
	D <sub>0.3</sub> RATING	60.0						60.0		60.0	60.0	50.0	60.0	60.0	50.0	50.0				
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)								OK		OK	OK	OK	OK	OK	OK	OK				
CORRUGATED PE PIPE, TYPE S (S)																				
RIBBED PE PIPE (S)																				
SMOOTH WALL PE PIPE (S) / MAXIMUM DR																				
PROFILE WALL PVC PIPE (S)																				
SMOOTH WALL PVC PIPE (S)																				
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)															OK			OK		
FULLY BIT. PAVED & LINED (S)																				
ZINC COATED (C)																				
ZINC COATED W/ BPI (C)																				
ALUM. COATED TYPE 2 (C)																				
ALUM. COATED TYPE 2 W/ BPI (C)																				
POLYMER PRECOATED GALVANIZED (C)																				
POLYMER PRECOATED GALVANIZED W/ BPI (C)																				
FIBER BONDED BITUMINOUS COATED (C)																				
FIBER BONDED BITUMINOUS COATED W/ BPI (C)																				
CORRUGATED ALUM. ALLOY PIPE (C)																				
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																				
STR. PLATE ALUMINUM ALLOY PIPE (C)																				
STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																				
STR. PLATE STEEL PIPE (C)																				
STR. PLATE STEEL PIPE W/ CFP (C)																				

- LEGEND
- RCP- REINFORCED CONCRETE PIPE
  - RCHP- 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
  - (S)- SMOOTH PIPE MATERIAL
  - (C)- CORRUGATED PIPE MATERIAL
  - OK- ACCEPTABLE FOR USE
  - (LS)- LOCK SEAM PIPE REQUIRED
  - \*\* - TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

11-10-06 AT 09:40  
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 172831



RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE MATERIAL SHEET


HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	136 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

		STRUCTURE NUMBER																						
		94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116
PIPE TYPE / SHAPE		3	3	1	BOX CULVERT	BOX CULVERT	3	3	3	1	1	3	3	BOX CULVERT	3	BOX CULVERT	3	3	3	1	3	3	3	3
SMOOTH PIPE SIZE		750mm X 475mm	750mm X 475mm	575mm X 350mm			600mm	850mm X 550mm	750mm X 475mm	750mm X 475mm	850mm X 550mm	850mm X 550mm	575mm X 350mm		850mm X 550mm		600mm	375mm	450mm	375mm	375mm	375mm	375mm	375mm
CORRUGATED PIPE SIZE																	600mm	375mm		375mm				
RCP / RCHP (S)	CLASS																II	II		II				II
	D 0.3 RATING																50.0	60.0		60.0				60.0
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																								
CORRUGATED PE PIPE, TYPE S (S)																								
RIBBED PE PIPE (S)																								
SMOOTH WALL PE PIPE (S) / MAXIMUM DR																								
PROFILE WALL PVC PIPE (S)																								
SMOOTH WALL PVC PIPE (S)																								
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																								
FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS																							
ZINC COATED (C)	CORR. PROFILE THICKNESS																							
ZINC COATED W/ BPI (C)	CORR. PROFILE THICKNESS																							
ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS																							
ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE THICKNESS																68mm X 13mm	68mm X 13mm		68mm X 13mm				68mm X 13mm
POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS																2.77mm	2.77mm		2.77mm				2.77mm
POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS																68mm X 13mm	68mm X 13mm		68mm X 13mm				68mm X 13mm
FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS																2.77mm	2.77mm		2.77mm				2.77mm
FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS																68mm X 13mm	68mm X 13mm		68mm X 13mm				68mm X 13mm
CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS																2.77mm	2.77mm		2.77mm				2.77mm
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS																68mm X 13mm	68mm X 13mm		68mm X 13mm				68mm X 13mm
STR. PLATE ALUMINUM ALLOY PIPE (C)	CORR. PROFILE THICKNESS																1.52mm	1.52mm		1.52mm				1.52mm
STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE THICKNESS																							
STR. PLATE STEEL PIPE (C)	CORR. PROFILE THICKNESS **																							
STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE THICKNESS **																							

		STRUCTURE NUMBER																		
		117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
PIPE TYPE / SHAPE		3	3	3	1	1	NOT USED	1	3	BOX CULVERT	3	1	3	BOX CULVERT	3	3	1	NOT USED	1	1
SMOOTH PIPE SIZE		750mm X 475mm	850mm X 550mm	375mm X 375mm	850mm X 550mm	575mm X 350mm		850mm X 550mm	850mm X 550mm		375mm	750mm X 475mm	450mm		375mm	600mm	600mm		750mm	450mm
CORRUGATED PIPE SIZE				375mm							375mm		450mm			600mm			750mm	
RCP / RCHP (S)	CLASS			II							II		II		II				II	
	D 0.3 RATING			60.0							60.0		50.0		50.0			50.0		
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)													OK		OK			OK		
CORRUGATED PE PIPE, TYPE S (S)													OK		OK			OK		
RIBBED PE PIPE (S)													OK		OK			OK		
SMOOTH WALL PE PIPE (S) / MAXIMUM DR													OK/26.00		OK			OK		
PROFILE WALL PVC PIPE (S)													OK		OK			OK		
SMOOTH WALL PVC PIPE (S)													OK		OK			OK		
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)													OK		OK			OK		
FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS																			
ZINC COATED (C)	CORR. PROFILE THICKNESS																			
ZINC COATED W/ BPI (C)	CORR. PROFILE THICKNESS																			
ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS																			
ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE THICKNESS			68mm X 13mm							68mm X 13mm		68mm X 13mm		68mm X 13mm				68mm X 13mm	
POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS			2.77mm							2.77mm		2.77mm		2.77mm				2.77mm	
POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS			68mm X 13mm							68mm X 13mm		68mm X 13mm		68mm X 13mm				68mm X 13mm	
FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS			2.77mm							2.77mm		2.77mm		2.77mm				2.77mm	
FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS			68mm X 13mm							68mm X 13mm		68mm X 13mm		68mm X 13mm				68mm X 13mm	
CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS			2.77mm							2.77mm		2.77mm		2.77mm				2.77mm	
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS			68mm X 13mm							68mm X 13mm		68mm X 13mm		68mm X 13mm				68mm X 13mm	
STR. PLATE ALUMINUM ALLOY PIPE (C)	CORR. PROFILE THICKNESS			1.52mm							1.52mm		1.52mm		1.52mm				1.52mm	
STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE THICKNESS																			
STR. PLATE STEEL PIPE (C)	CORR. PROFILE THICKNESS **																			
STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE THICKNESS **																			

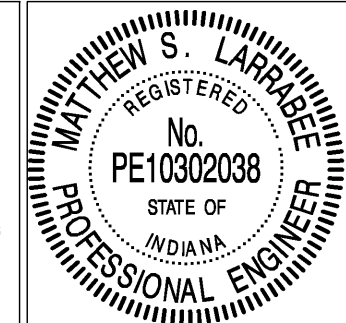
- LEGEND
- RCP- REINFORCED CONCRETE PIPE
  - RCHP- REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
  - PE- POLYETHYLENE
  - DR- DIMENSION RATIO
  - PVC- POLYVINYL CHLORIDE
  - BIT- BITUMINOUS
  - CORR- CORRUGATION
  - BPI- BITUMINOUS PAVED INVERT
  - ALUM- ALUMINUM
  - STR- STRUCTURAL
  - CFP- CONCRETE FIELD PAVING
  - (S)- SMOOTH PIPE MATERIAL
  - (C)- CORRUGATED PIPE MATERIAL
  - OK- ACCEPTABLE FOR USE
  - (LS)- LOCK SEAM PIPE REQUIRED
  - \*\*- TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.



**Butler Fairman Seufert**  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 715-4615 FAX 317 715-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377



REGISTERED PROFESSIONAL ENGINEER  
No. PE10302038  
STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
DESIGN ENGINEER DATE

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE MATERIAL SHEET

HORIZONTAL SCALE	FILE
NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	137 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

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 11-10-06 AT 09:40  
 NSM  
 CORRUGATED STEEL PIPE / PIPE-ARCH

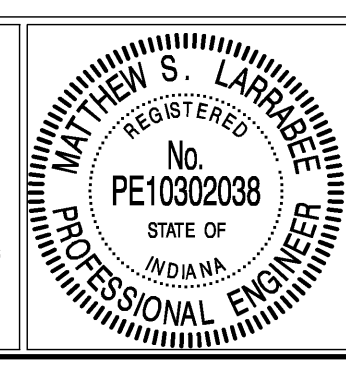
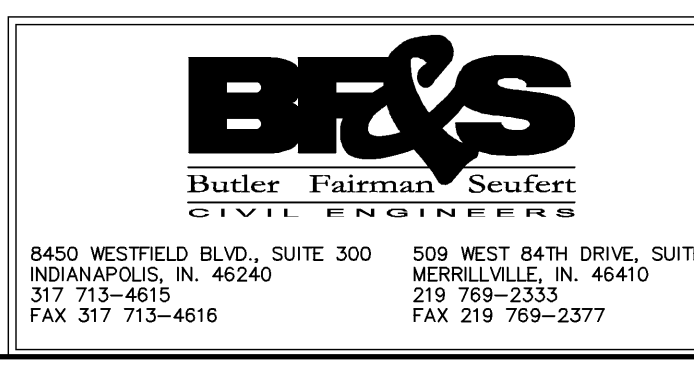


		STRUCTURE NUMBER																						
		136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158
CORRUGATED STEEL PIPE / PIPE-ARCH	PIPE TYPE / SHAPE	1	3	1	BOX CULVERT	3	1	BOX CULVERT	1	1	NOT USED	1	1	3	1	NOT USED	NOT USED	1	1	3	1	1	BOX CULVERT	3
	SMOOTH PIPE SIZE	600mm	375mm	600mm		375mm	850mm X 550mm		600mm	375mm		450mm	600mm	375mm	600mm			850mm X 550mm	850mm X 550mm	375mm	600mm	850mm X 550mm	450mm	
	CORRUGATED PIPE SIZE		375mm	600mm		375mm				375mm			600mm	375mm	600mm					375mm	600mm		450mm	
	RCP / RCHEP (S) CLASS		II	II		II				II			II	II	II					II	II		II	
	D <sub>0.3</sub> RATING		60.0	60.0		50.0				50.0			50.0	60.0	50.0					60.0	50.0		50.0	
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)					OK				OK			OK	OK	OK					OK	OK		OK	
	CORRUGATED PE PIPE, TYPE S (S)					OK				OK														OK
	RIBBED PE PIPE (S)																							
	SMOOTH WALL PE PIPE (S) / MAXIMUM DR					OK/26.00				OK/26.00														
	PROFILE WALL PVC PIPE (S)					OK				OK														
	SMOOTH WALL PVC PIPE (S)					OK				OK														
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)					OK				OK				OK		OK						OK		OK
	FULLY BIT. PAVED & LINED (S)																							
	ZINC COATED (C)																							
	ZINC COATED W/ BPI (C)																							
	ALUM. COATED TYPE 2 (C)																							
	ALUM. COATED TYPE 2 W/ BPI (C)																							
	POLYMER PRECOATED GALVANIZED (C)																							
	POLYMER PRECOATED GALVANIZED W/ BPI (C)																							
	FIBER BONDED BITUMINOUS COATED (C)																							
FIBER BONDED BITUMINOUS COATED W/ BPI (C)																								
CORRUGATED ALUM. ALLOY PIPE (C)																								
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																								
STR. PLATE ALUMINUM ALLOY PIPE (C)																								
STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																								
STR. PLATE STEEL PIPE (C)																								
STR. PLATE STEEL PIPE W/ CFP (C)																								

		STRUCTURE NUMBER																					
		159	160	161	162	163	164	165															
CORRUGATED STEEL PIPE / PIPE-ARCH	PIPE TYPE / SHAPE	3	3	3	3	3	3	1															
	SMOOTH PIPE SIZE	450mm	375mm	375mm	375mm	375mm	450mm	600mm															
	CORRUGATED PIPE SIZE	450mm	375mm	375mm	375mm	375mm		600mm															
	RCP / RCHEP (S) CLASS	II	II	II	II	II		II															
	D <sub>0.3</sub> RATING	50.0	60.0	60.0	60.0	60.0		50.0															
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																						
	CORRUGATED PE PIPE, TYPE S (S)																						
	RIBBED PE PIPE (S)																						
	SMOOTH WALL PE PIPE (S) / MAXIMUM DR																						
	PROFILE WALL PVC PIPE (S)																						
	SMOOTH WALL PVC PIPE (S)																						
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																						
	FULLY BIT. PAVED & LINED (S)																						
	ZINC COATED (C)																						
	ZINC COATED W/ BPI (C)																						
	ALUM. COATED TYPE 2 (C)																						
	ALUM. COATED TYPE 2 W/ BPI (C)																						
	POLYMER PRECOATED GALVANIZED (C)																						
	POLYMER PRECOATED GALVANIZED W/ BPI (C)																						
	FIBER BONDED BITUMINOUS COATED (C)																						
FIBER BONDED BITUMINOUS COATED W/ BPI (C)																							
CORRUGATED ALUM. ALLOY PIPE (C)																							
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																							
STR. PLATE ALUMINUM ALLOY PIPE (C)																							
STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																							
STR. PLATE STEEL PIPE (C)																							
STR. PLATE STEEL PIPE W/ CFP (C)																							

- 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
  - (S)- SMOOTH PIPE MATERIAL
  - (C)- CORRUGATED PIPE MATERIAL
  - OK- ACCEPTABLE FOR USE
  - (LS)- LOCK SEAM PIPE REQUIRED
  - \*\*- TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

11-10-06 AT 09:40  
 MSL  
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RECOMMENDED FOR APPROVAL: *Matthew J. Anable* 11/10/06  
 DESIGN ENGINEER DATE

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE MATERIAL SHEET

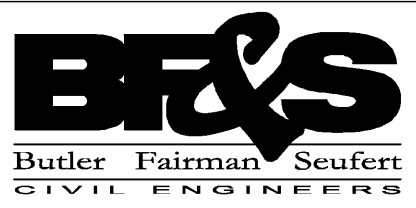
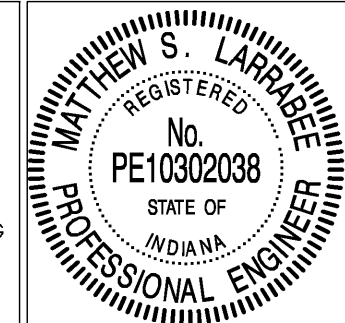
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NONE	3783
VERTICAL SCALE	DESIGNATION
NONE	9706580
SURVEY BOOK	SHEET
	138 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

**GUARDRAIL SUMMARY TABLE**

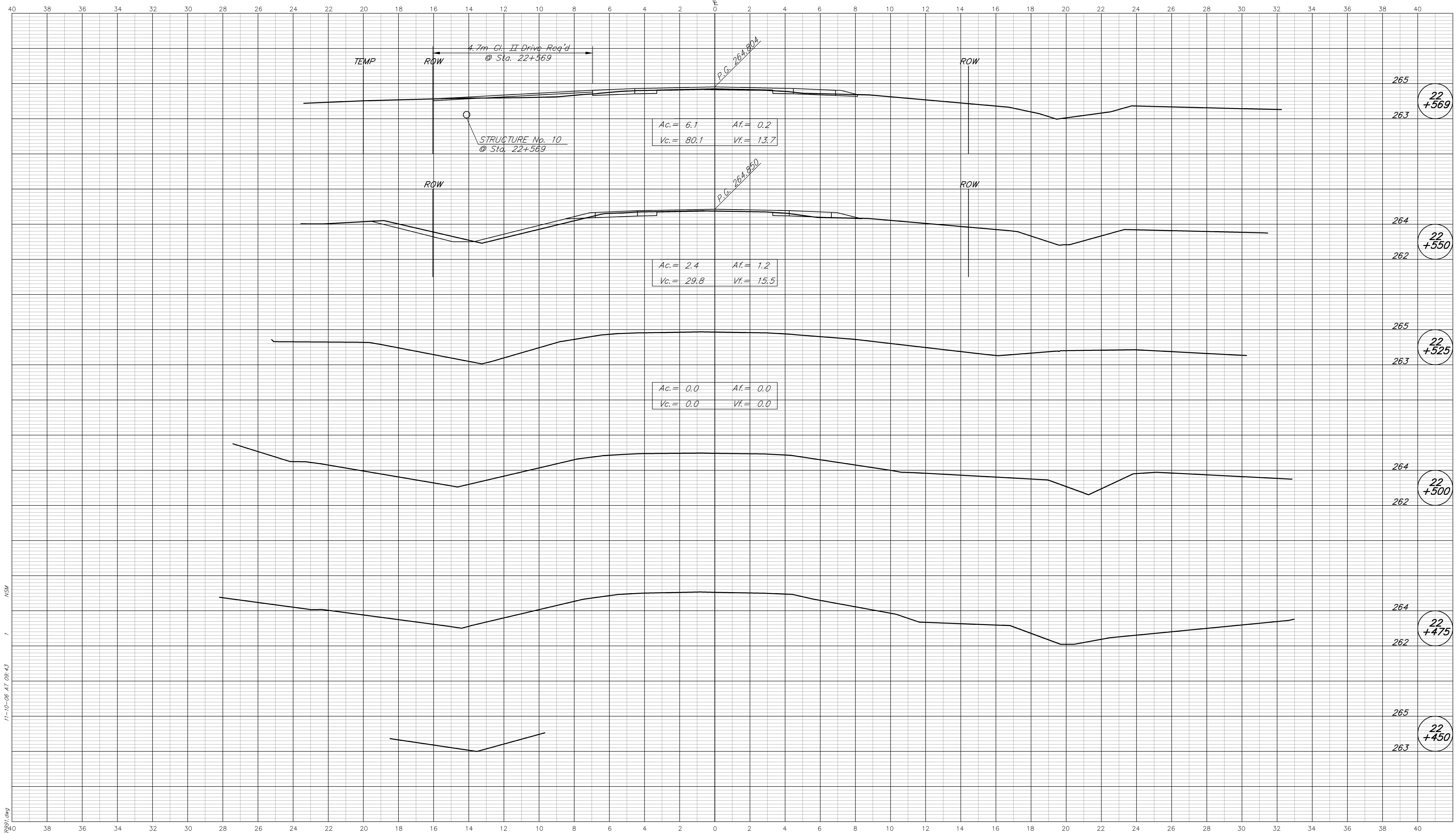
LOCATION		W-BEAM GUARDRAIL LENGTH		CURVED W-BEAM GUARDRAIL SYSTEM											REMARKS																					
FROM STATION	TO STATION	LEFT	RIGHT	MEDIAN LEFT	MEDIAN RIGHT	STANDARD POST AT 1.905 m SPA.	STANDARD POST AT 0.952 m SPA.	STANDARD POST AT 0.476 m SPA.	DOUBLE FACED AT 1.905 m SPA.	LONG POST AT 1.905 m SPA.	LONG POST AT 0.952 m SPA.	LONG POST AT 0.476 m SPA.	SHOP CURVED AT m SPA.	NESTED GUARDRAIL		GRAVEL BARREL ARRAY	GUARDRAIL TRANSITION TYPE TGS-1	GUARDRAIL TRANSITION TYPE TGB	GUARDRAIL TRANSITION TYPE VH	GUARDRAIL END TREATMENT MS	GUARDRAIL END TREATMENT OS	GUARDRAIL END TREATMENT TYPE 1	TERMINAL SYSTEM		CONNECTOR SYSTEM		GUARDRAIL REMOVE	GUARDRAIL RESET								
																							TYPE	EACH	TYPE	EACH										
LINE "A"						3	3	3	3	3	3	3		EACH		EACH	EACH	EACH	EACH	EACH	EACH															
23+684.945	23+757.335		✓							45.945				1							2															
23+740.000	23+802.865		✓							62.865											2															
24+243.795	24+285.705		✓							41.910											1		1	1	1											
24+248.820	24+281.205		✓							32.385											1		1	1	1											
26+651.345	26+721.860		✓							36.385				1									1	2												
26+672.760	26+703.240		✓											1							1		1	1												
29+775.332	29+842.007		✓							66.675							1				1															
29+840.102	29+842.007		✓							1.905							1						6	1												
29+876.532	29+929.872		✓							53.340							1						3	1												
29+876.532	29+905.107		✓							28.575							1				1															
31+559.945	31+634.240		✓							43.815				1								2														
31+603.760	31+678.055		✓							43.815												2														
35+415.230	35+480.000		✓							64.770												2														
35+469.545	35+530.505		✓							60.960												2														
36+190.850	36+263.240		✓							41.91				1								2														
36+239.900	36+305.150		✓							41.91				1							1		1	1												
TOTALS										667.165																										

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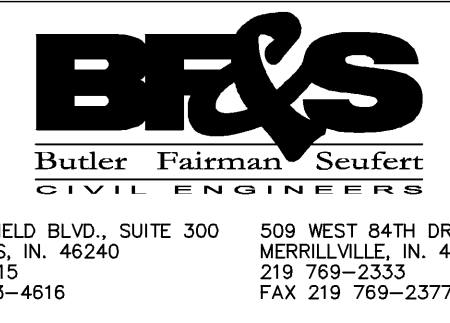
 Butler Fairman Seufert CIVIL ENGINEERS 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4616 FAX 317 713-4616	 REGISTERED PROFESSIONAL ENGINEER No. PE10302038 STATE OF INDIANA	RECOMMENDED FOR APPROVAL: <i>Matthew J. Anable</i> 11/10/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE: NONE VERTICAL SCALE: NONE SURVEY BOOK:	FILE: 3783 DESIGNATION: 9706580 SHEET: 139 OF 292 PROJECT: STP/097-9(005)
		DESIGNED: BKM DRAWN: NSM CHECKED: MSL CHECKED: MSL	<b>GUARDRAIL SUMMARY TABLE</b>		CONTRACT: R-28934	

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



R:\3783\AUTOCAD\ROAD\3783.dwg  
11-10-06 AT 09:43  
MSA



CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

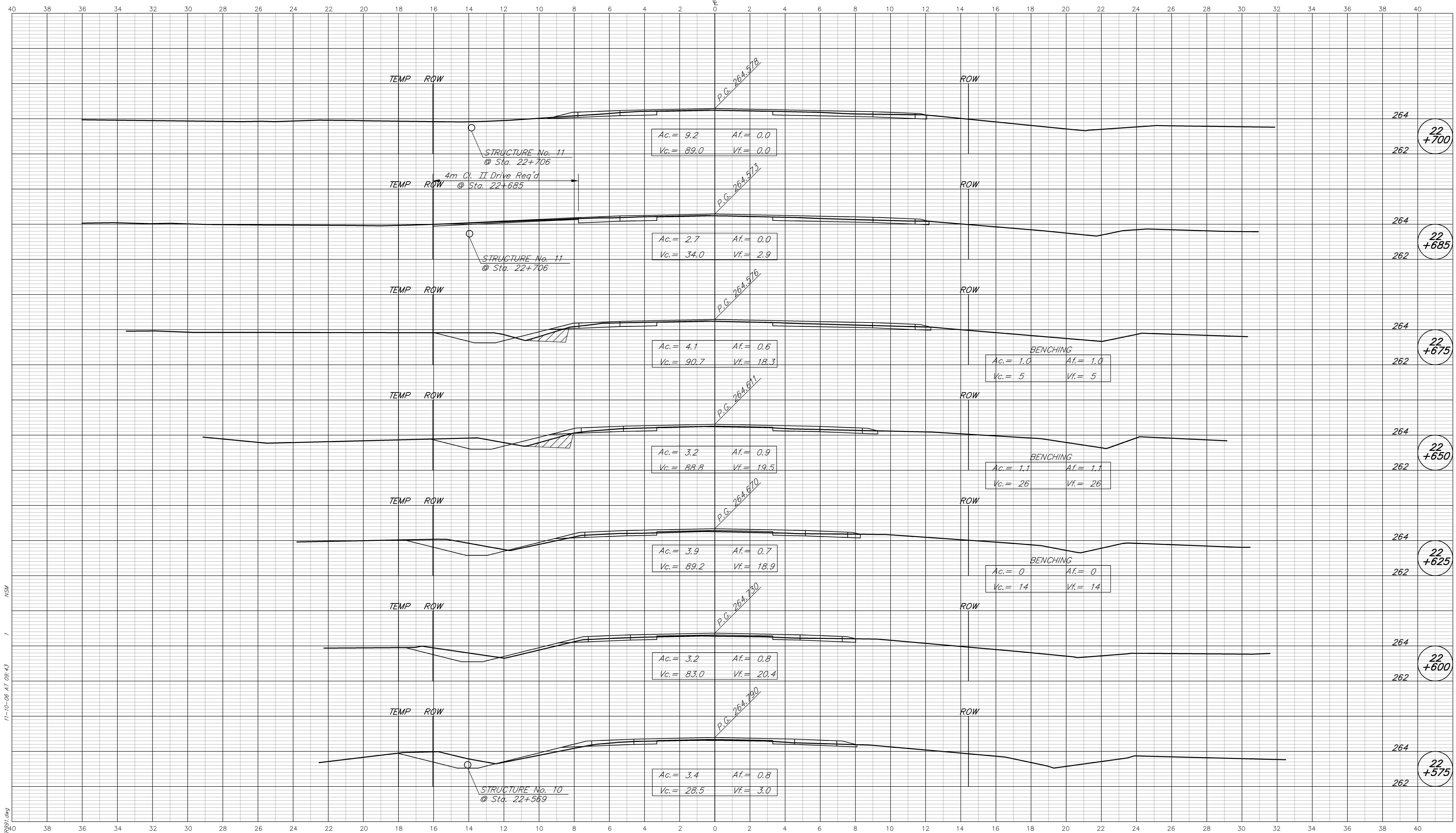
STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 140 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

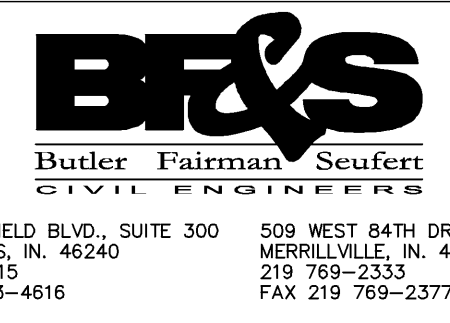
BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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 MS4



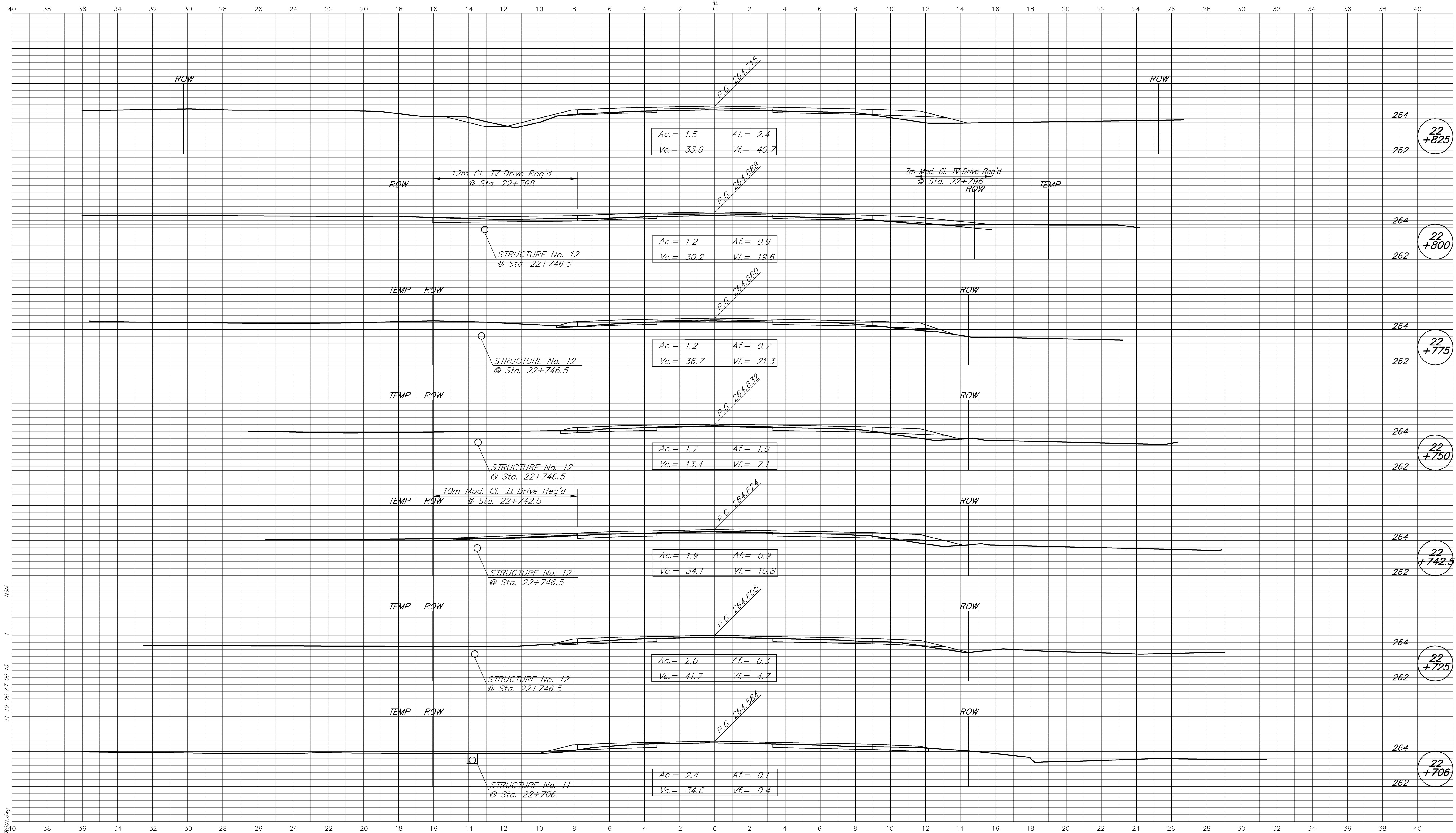
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 CHECKED: BZ CHECKED: MSL

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

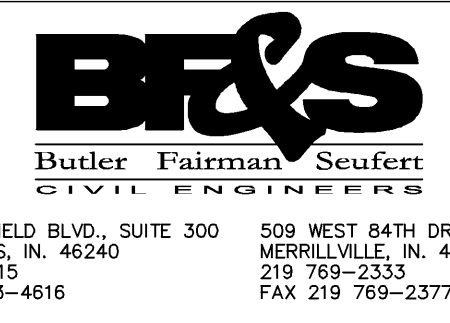
HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 141 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
 13783 (AUTOCAD) ROAD.L3783.dwg



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

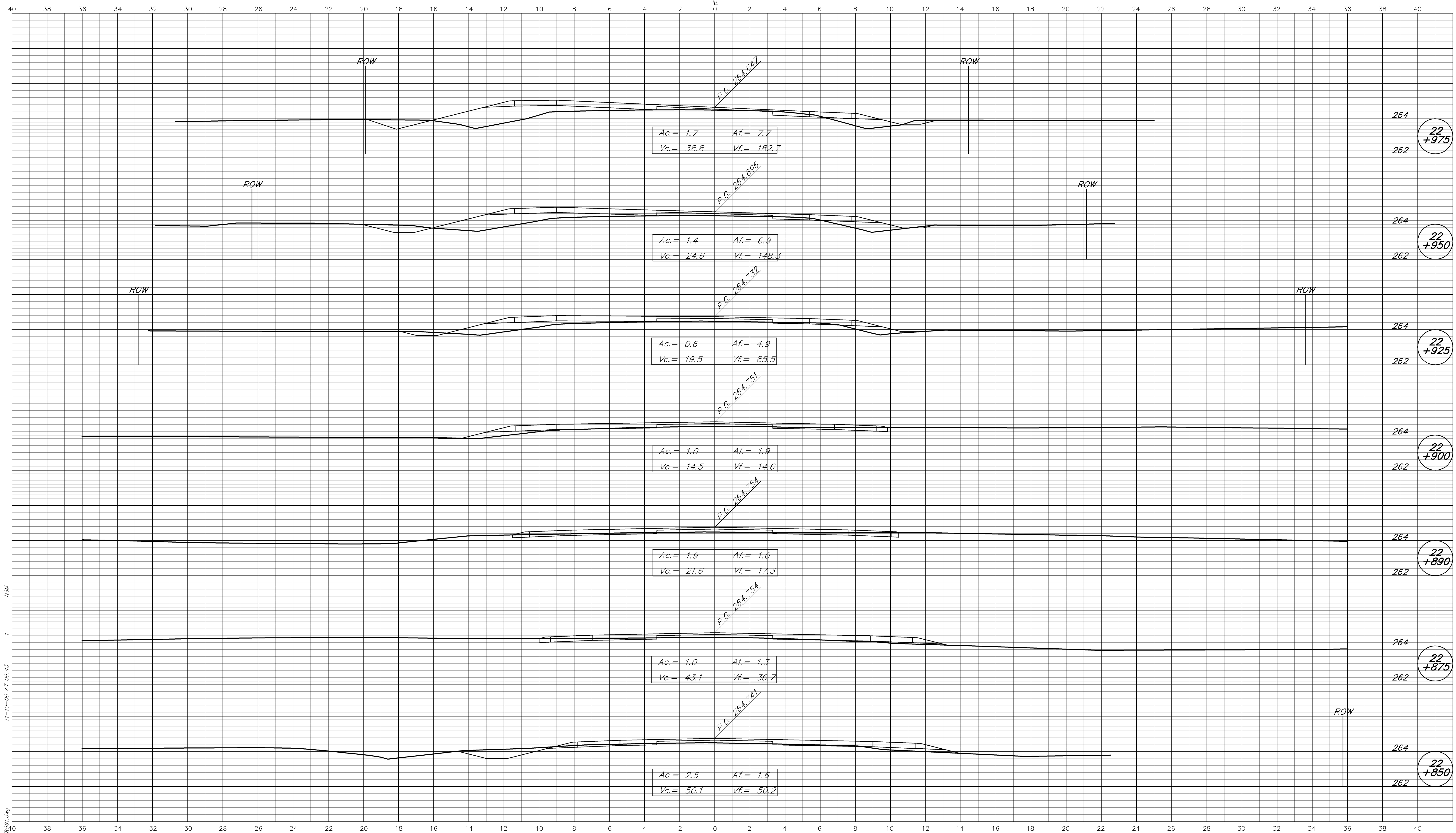
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DESIGNED: MSL	DRAWN: MSS
CHECKED: BZ	CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

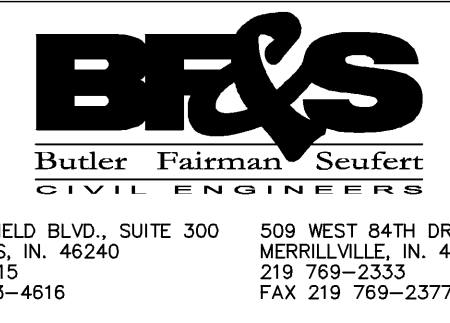
HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 142 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
 R: L3783 (AUTOCAD) ROAD.L3783.dwg  
 MS4  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

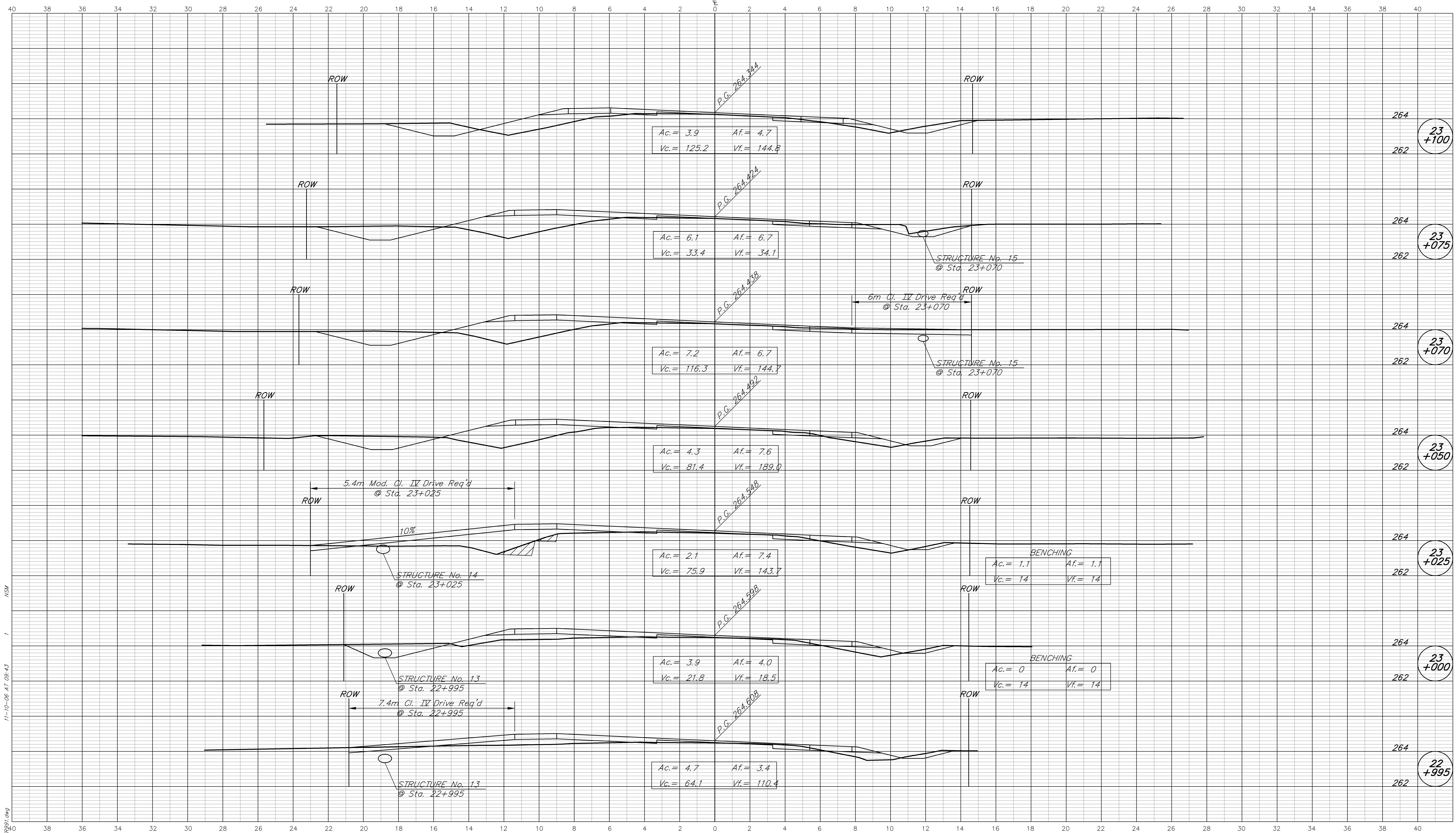
STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 143 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

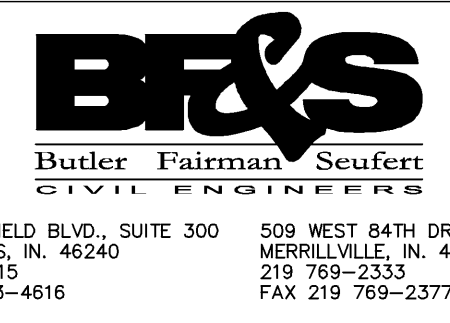
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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**CROSS SECTIONS  
LINE "A"**

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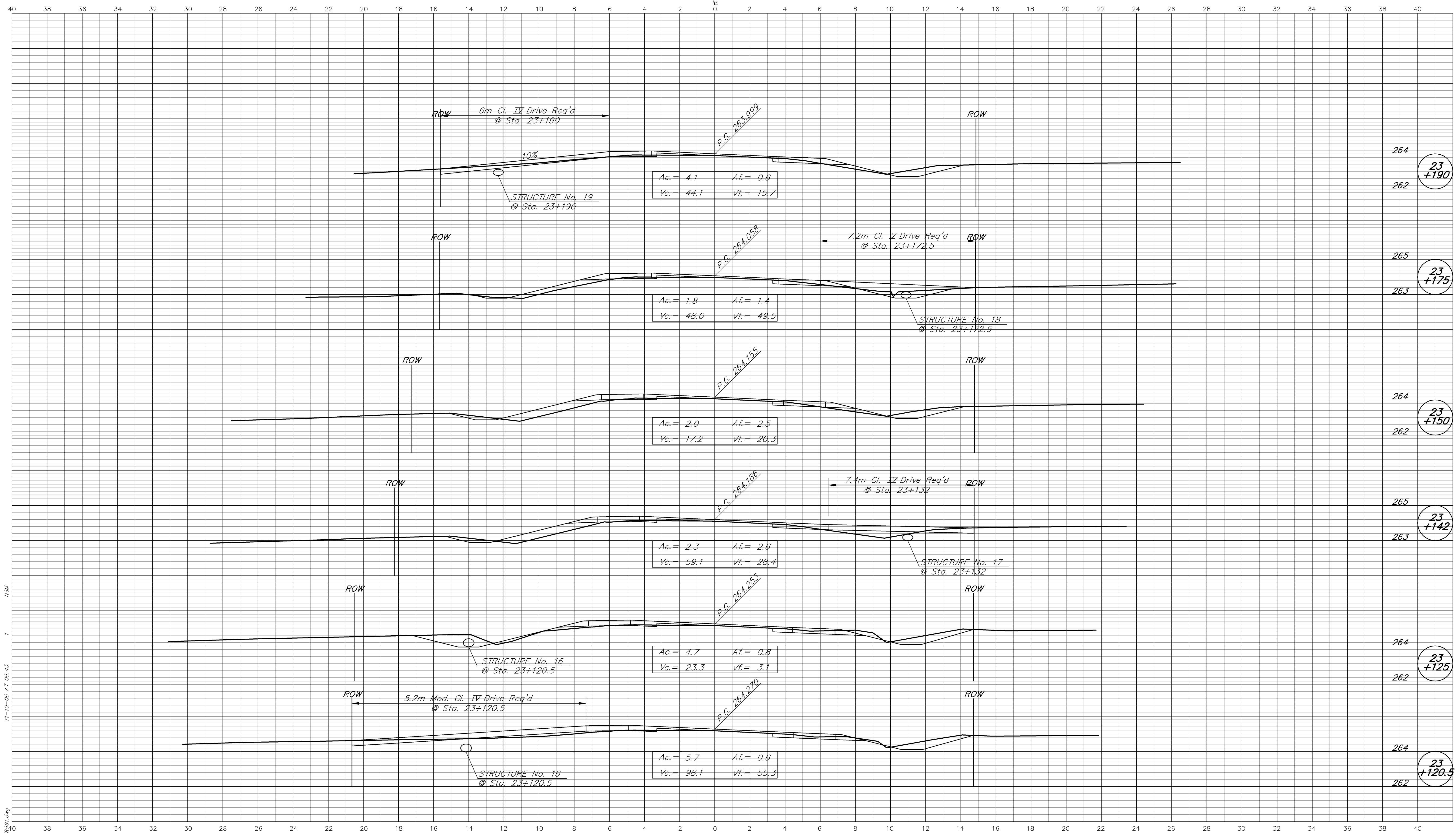
**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**STATE ROAD 37**

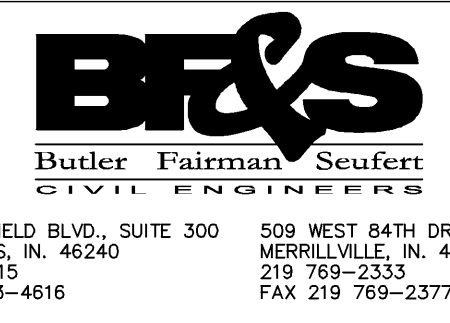
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 144 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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**CROSS SECTIONS LINE "A"**

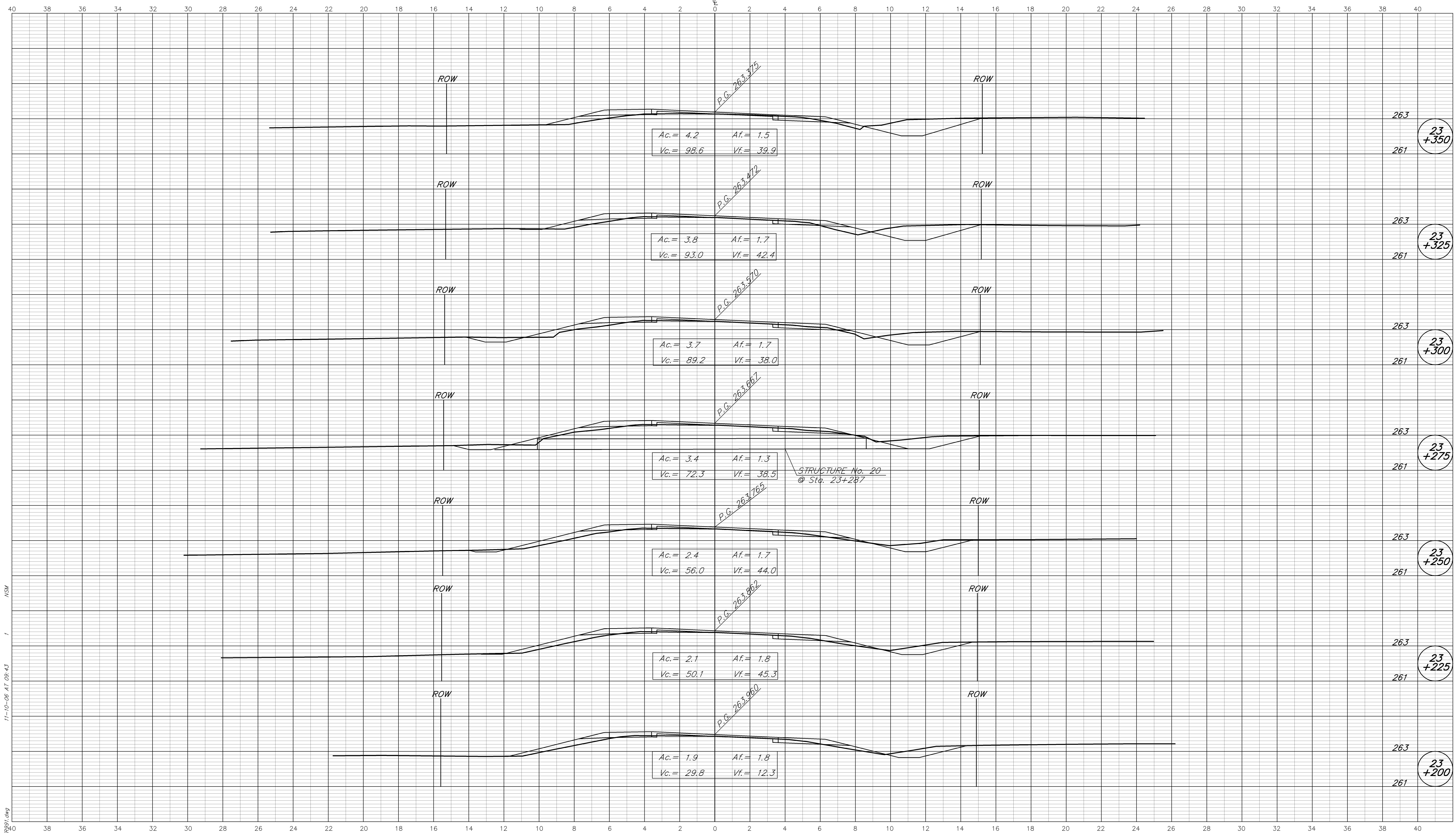
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

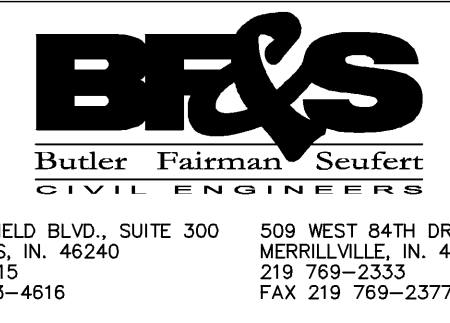
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	145 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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**CROSS SECTIONS  
LINE "A"**

DESIGNED: MSL DRAWN: MSS

CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

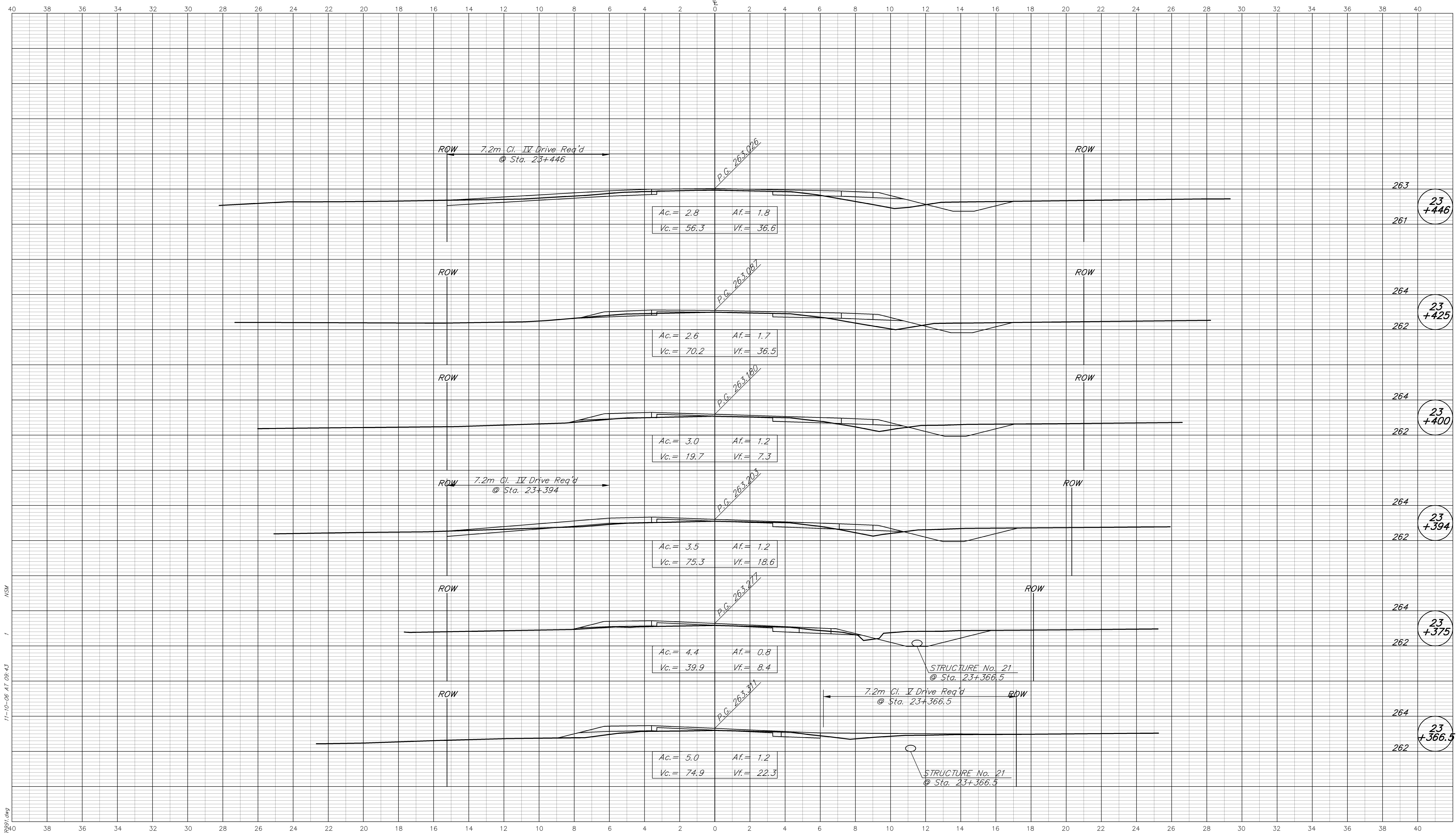
STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 146 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

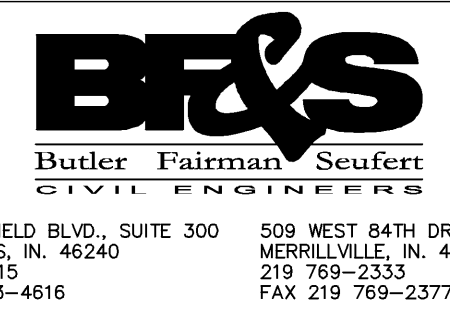
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

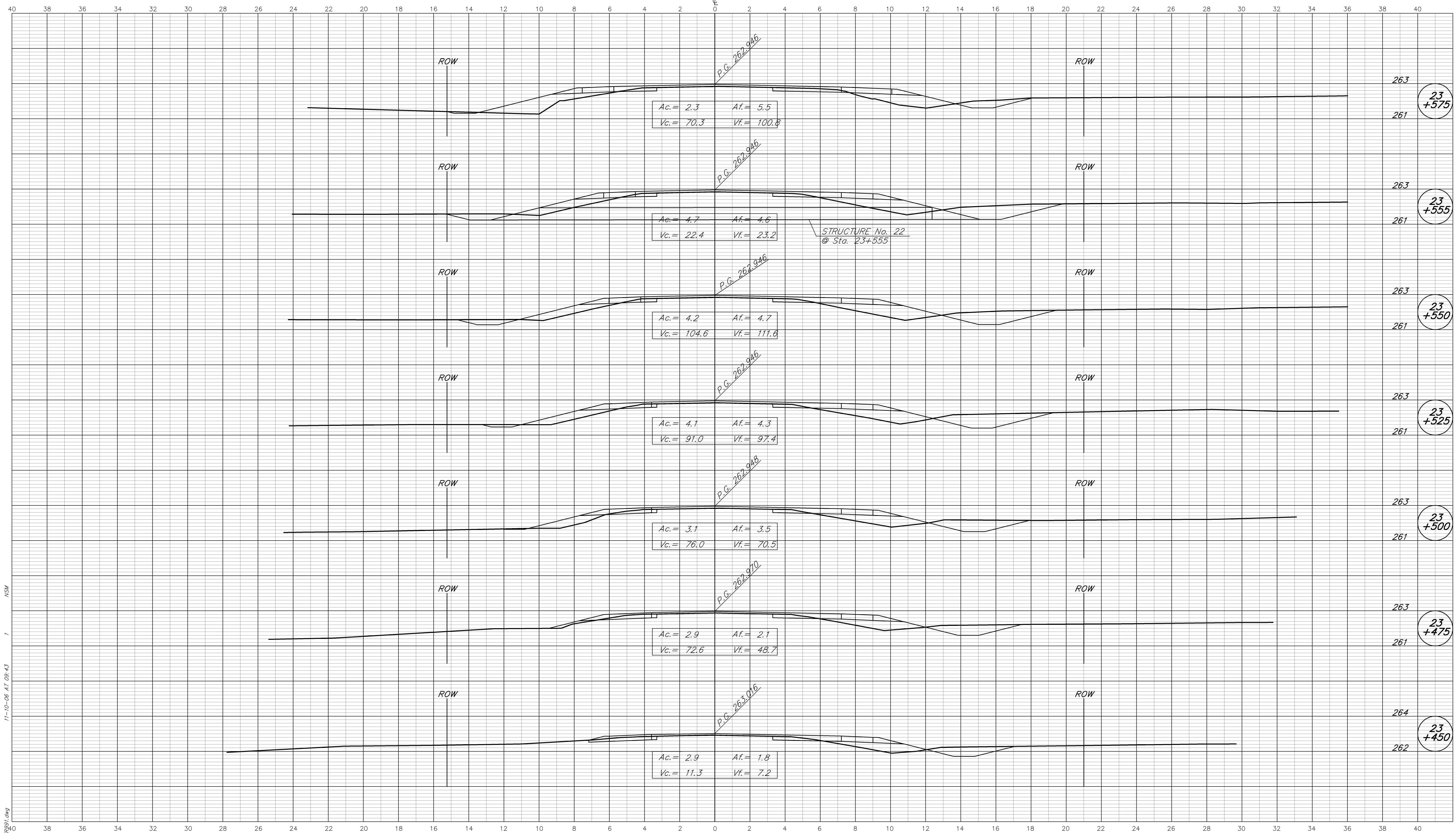
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 147 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

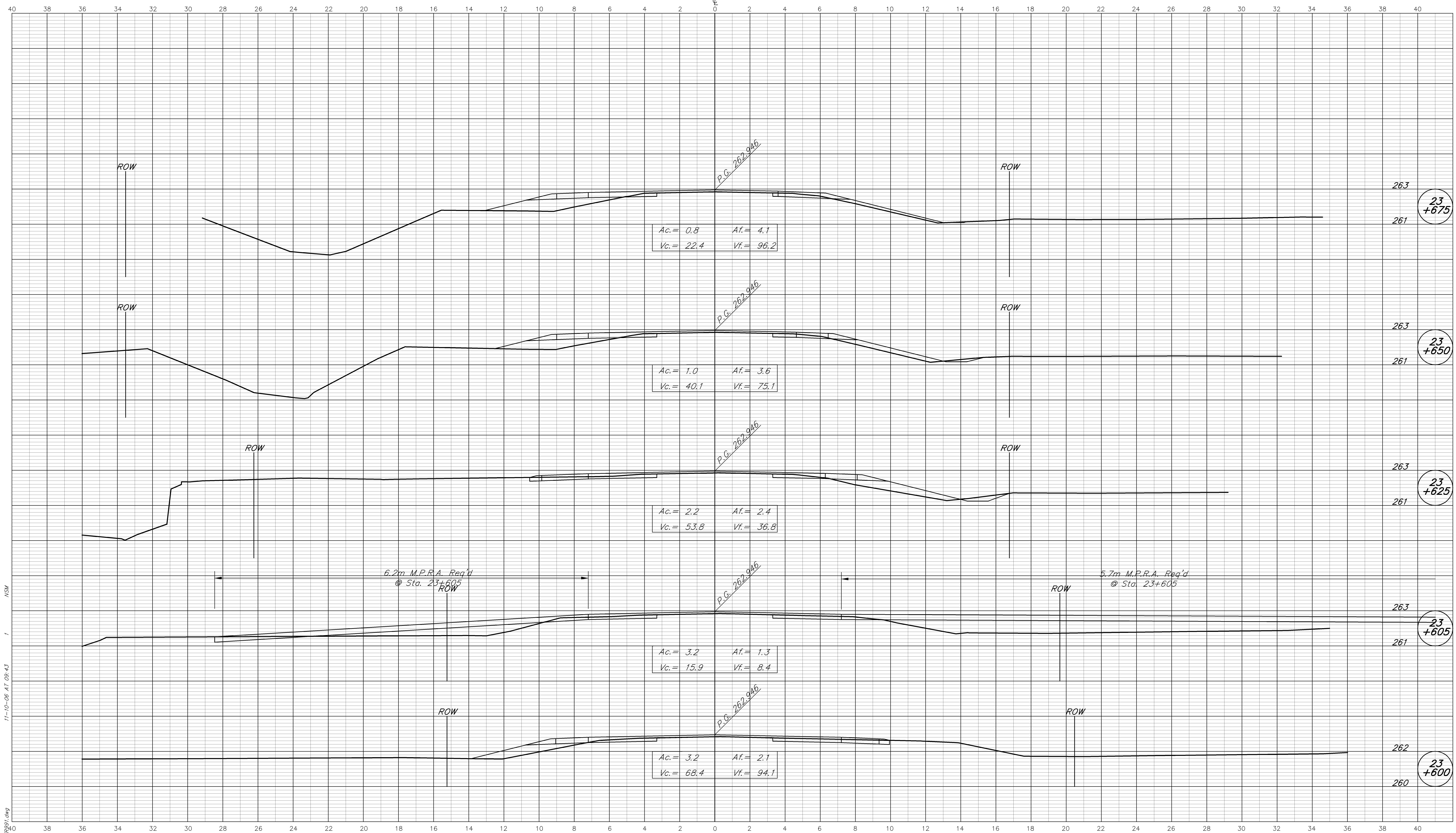
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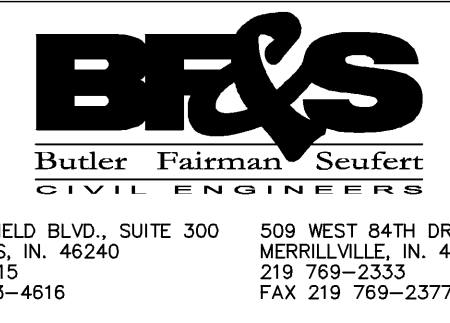


<p><b>Butler Fairman Scufert</b> CIVIL ENGINEERS</p> <p>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616</p> <p>509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377</p>	<p>CROSS SECTIONS LINE "A"</p>		<p>INDIANA DEPARTMENT OF TRANSPORTATION</p>		<p>HORIZONTAL SCALE 1:100</p>	<p>FILE 3783</p>
	<p>DESIGNED: <u>MSL</u></p>	<p>DRAWN: <u>MSS</u></p>	<p>STATE ROAD 37</p>		<p>VERTICAL SCALE 1:100</p>	<p>DESIGNATION 9706580</p>
<p>CHECKED: <u>BZ</u></p>	<p>CHECKED: <u>MSL</u></p>			<p>SURVEY BOOK</p>	<p>SHEET 148 OF 292</p>	
				<p>CONTRACT R-28934</p>	<p>PROJECT STP/097-9(005)</p>	<p>BFS NO. 3783.07</p>

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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**CROSS SECTIONS LINE "A"**

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

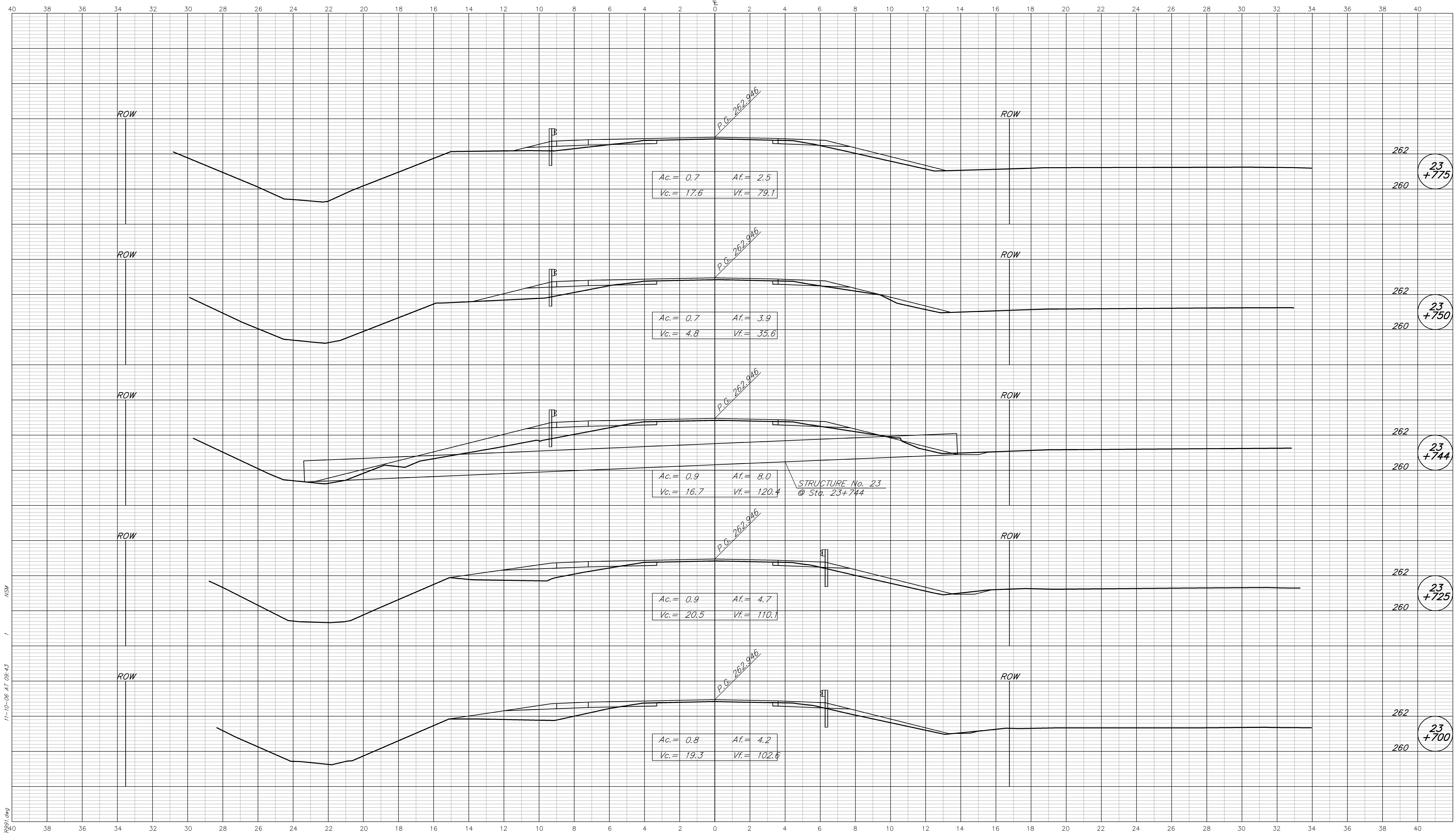
INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	149 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

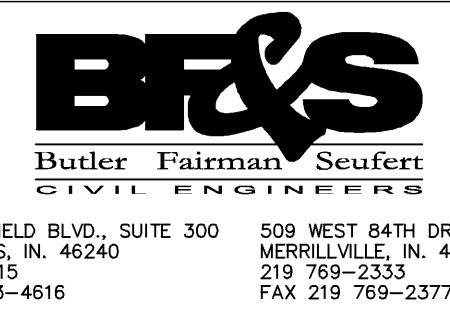
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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CROSS SECTIONS  
LINE "A"

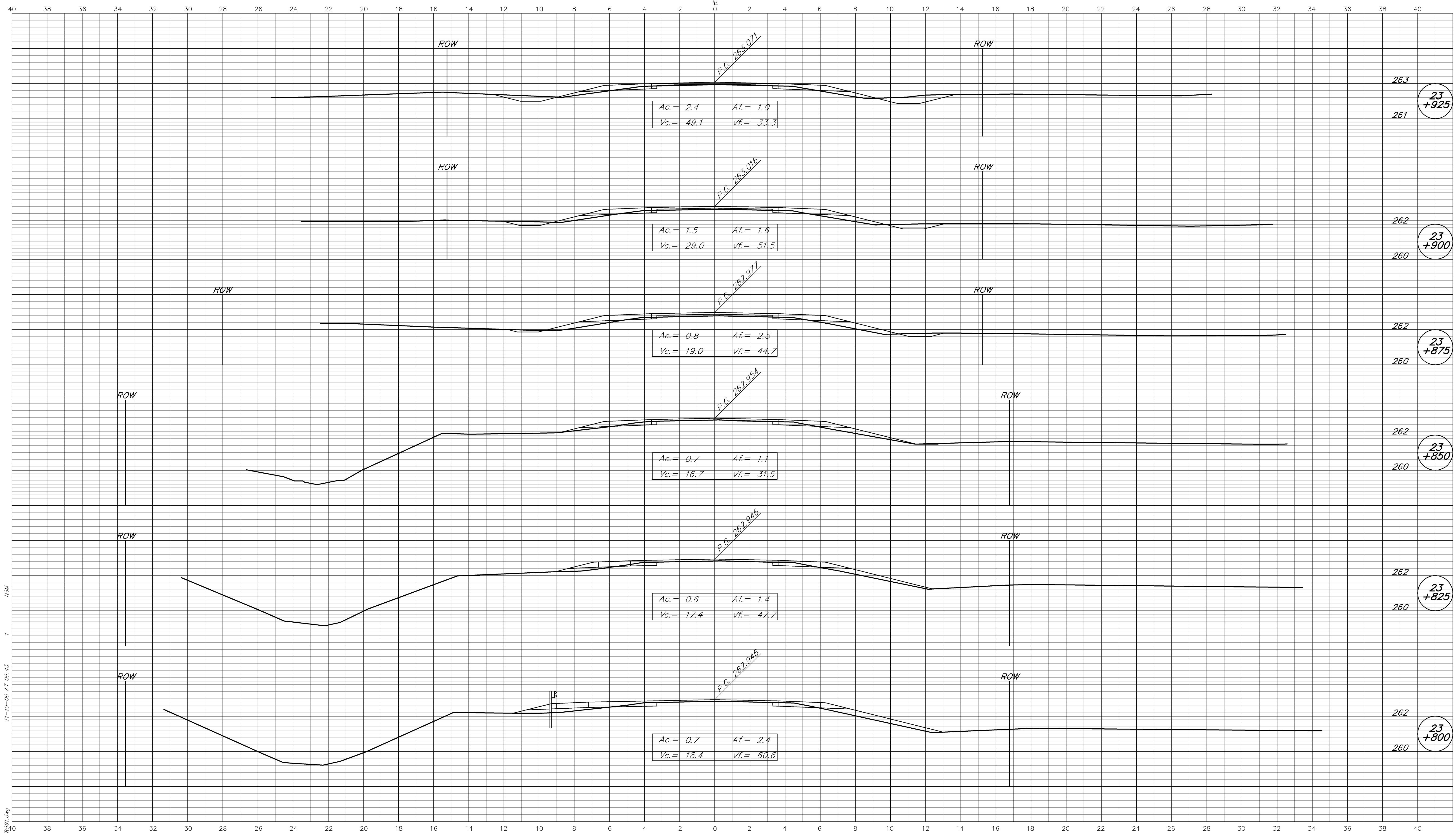
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 CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

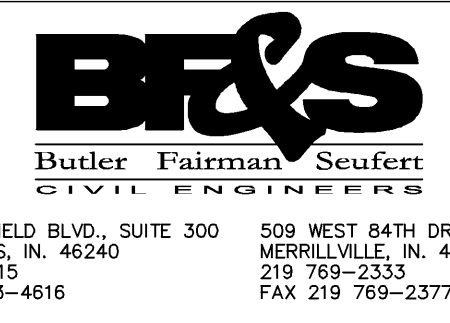
STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783	BFS NO. 3783.07
VERTICAL SCALE 1:100	DESIGNATION 9706580	
SURVEY BOOK	SHEET 150 OF 292	
CONTRACT R-28934	PROJECT STP/097-9(005)	

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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 MSL



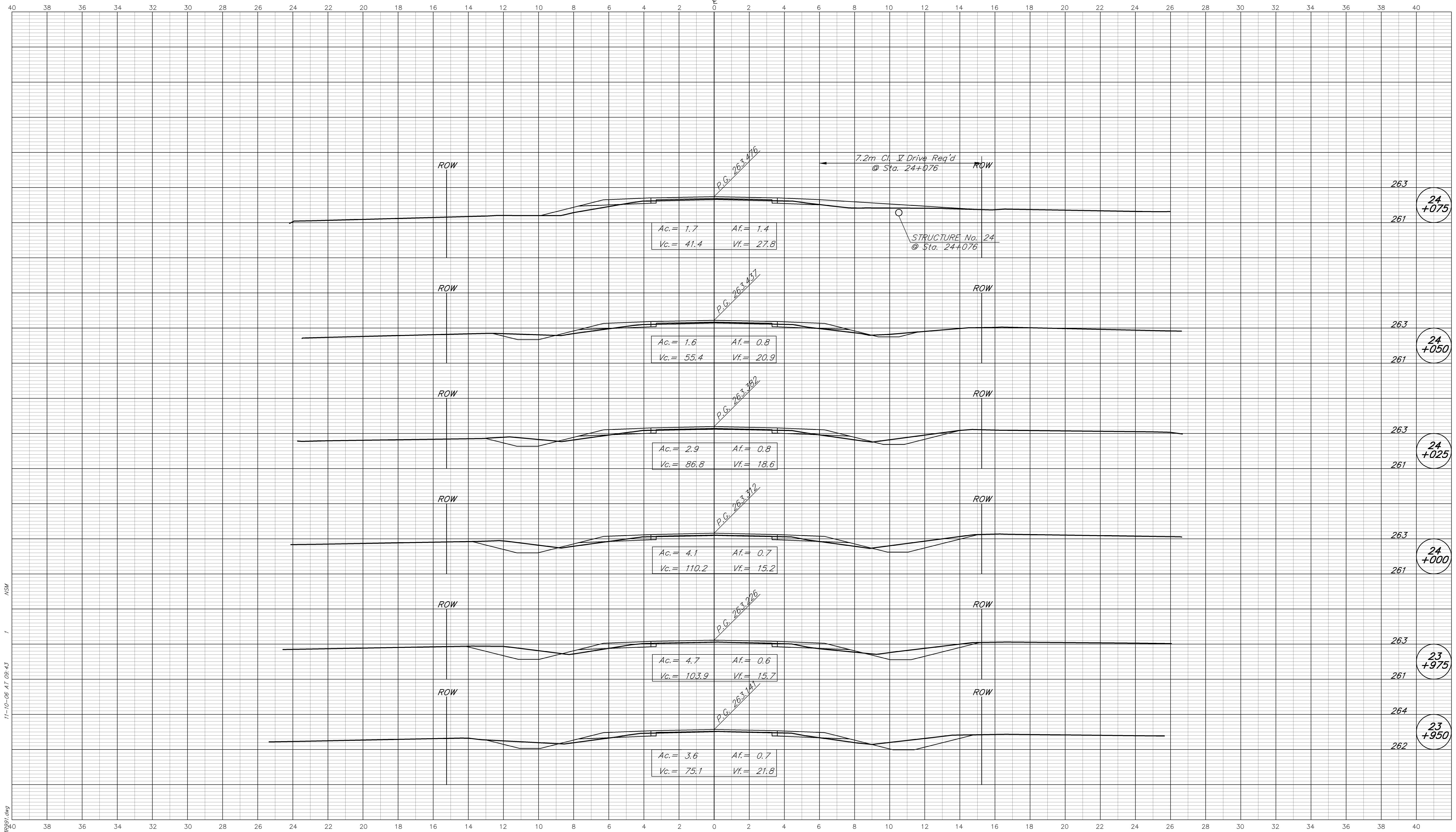
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INDIANA  
 DEPARTMENT OF TRANSPORTATION  
**STATE ROAD 37**

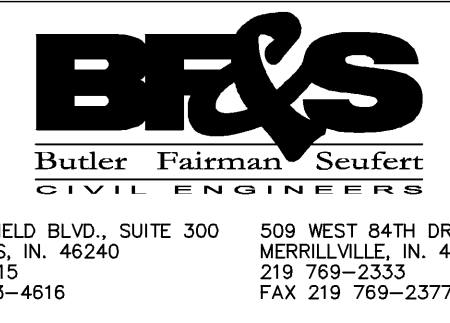
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
CONTRACT R-28934	151 OF 292 PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"  
DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

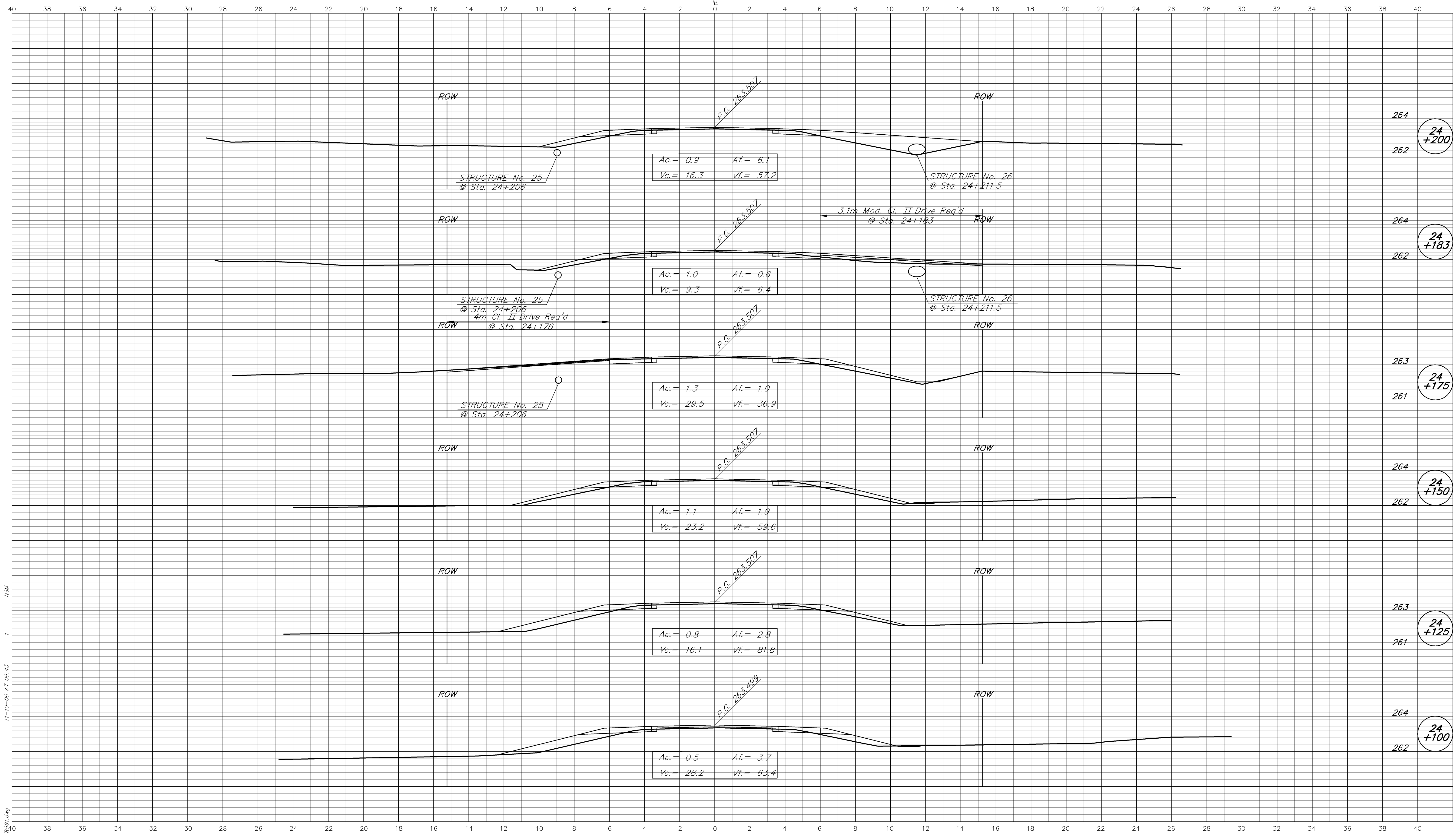
INDIANA  
DEPARTMENT OF TRANSPORTATION  
STATE ROAD 37

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SURVEY BOOK	SHEET
CONTRACT R-28934	152 OF 292 PROJECT STP/097-9(005)

BFS NO. 3783.07



CUT      CROSS SECTIONS      FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
 R:\3783\AUTOCAD\ROAD\3783.dwg  
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 154

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300    509 WEST 84TH DRIVE, SUITE 0  
 INDIANAPOLIS, IN. 46240    MERRILLVILLE, IN. 46410  
 317 713-4615    219 769-2333  
 FAX 317 713-4616    FAX 219 769-2377

<b>CROSS SECTIONS LINE "A"</b>	
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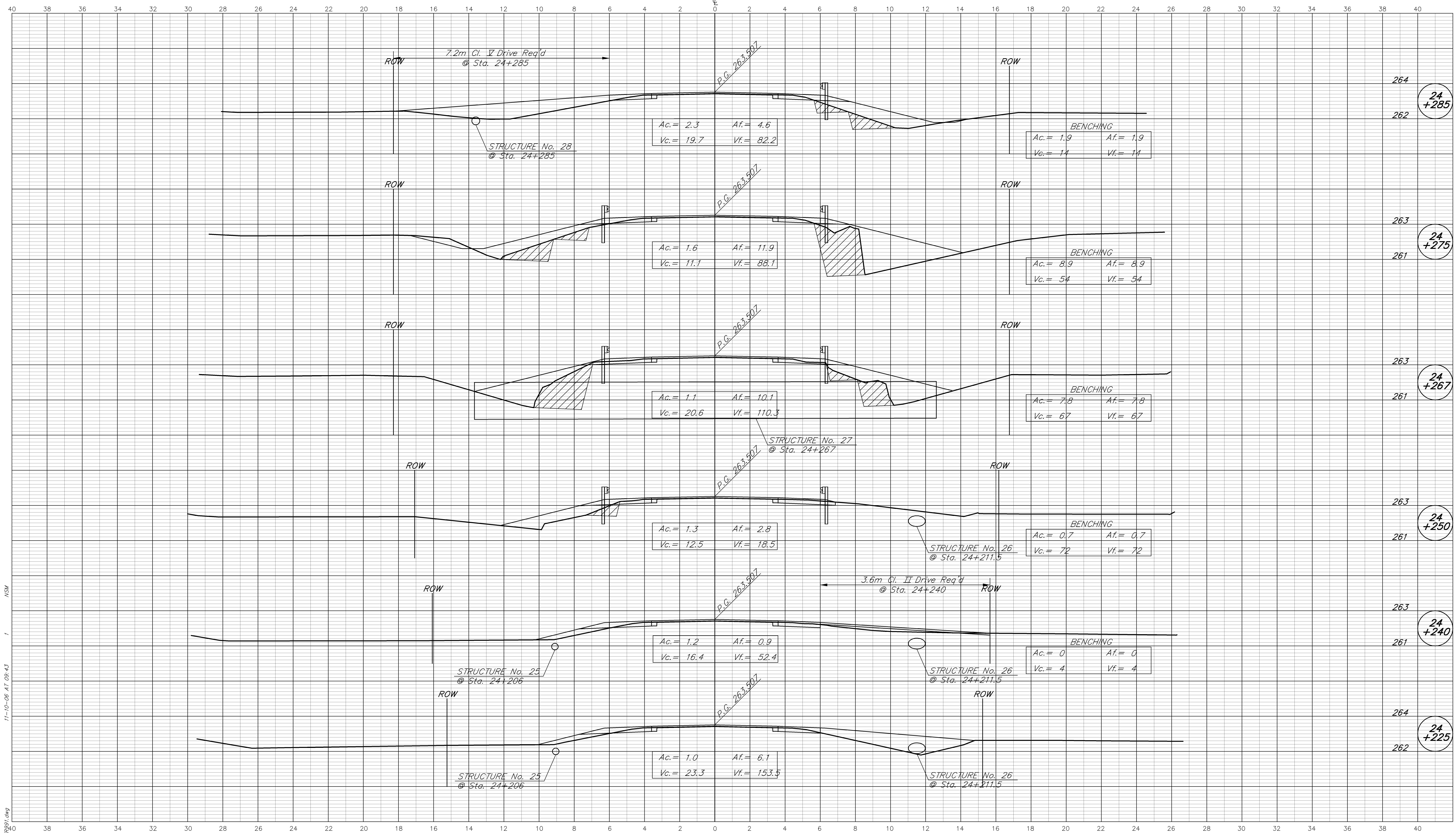
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 153 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

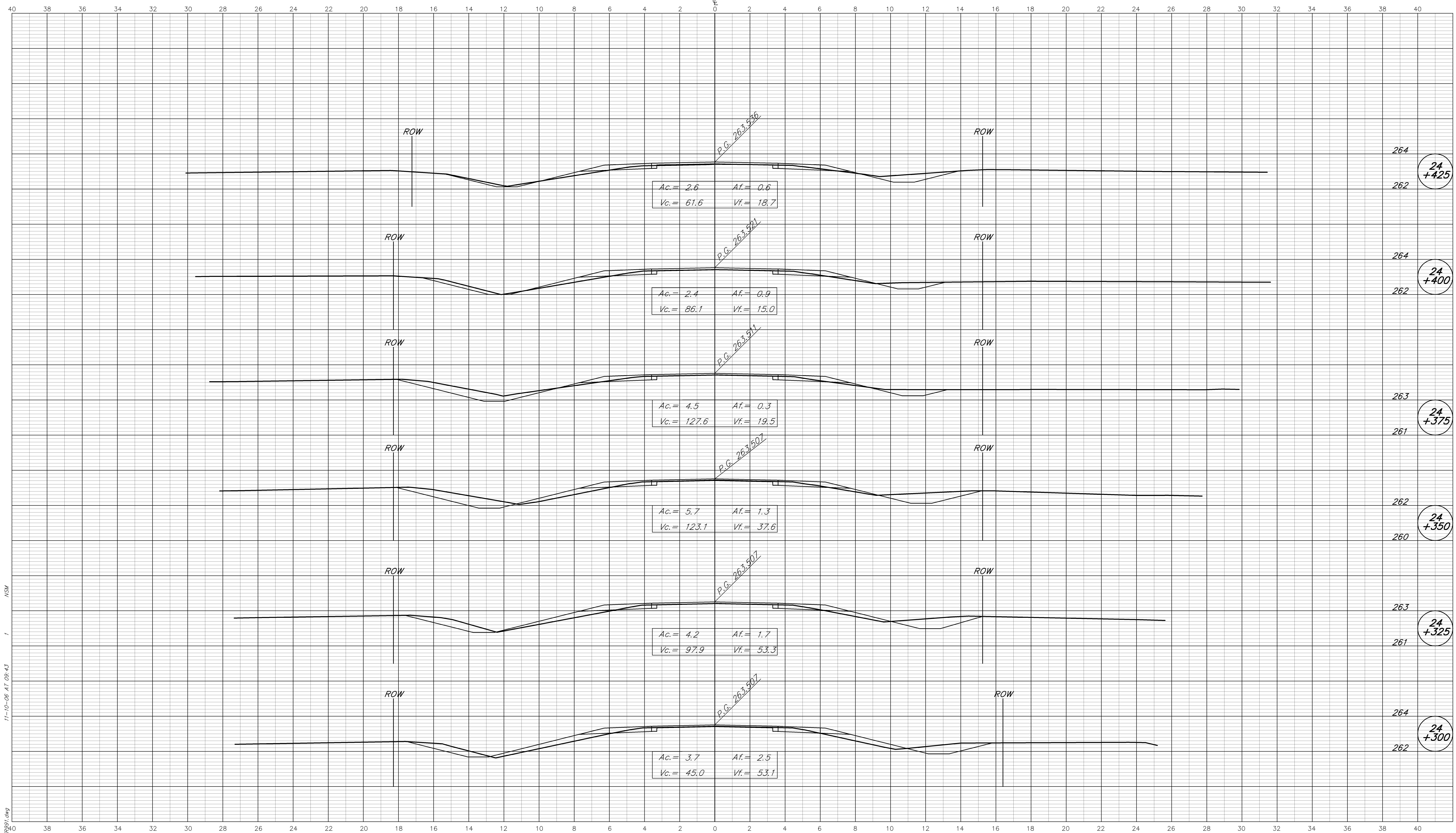
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INDIANA DEPARTMENT OF TRANSPORTATION  
**STATE ROAD 37**

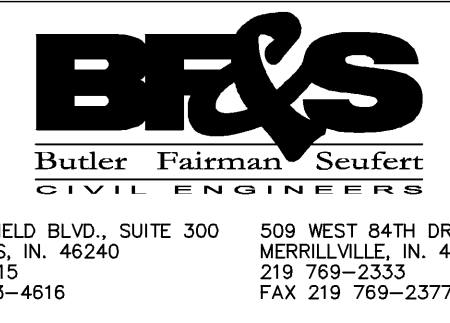
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SURVEY BOOK	SHEET 154 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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 154



**CROSS SECTIONS  
LINE "A"**

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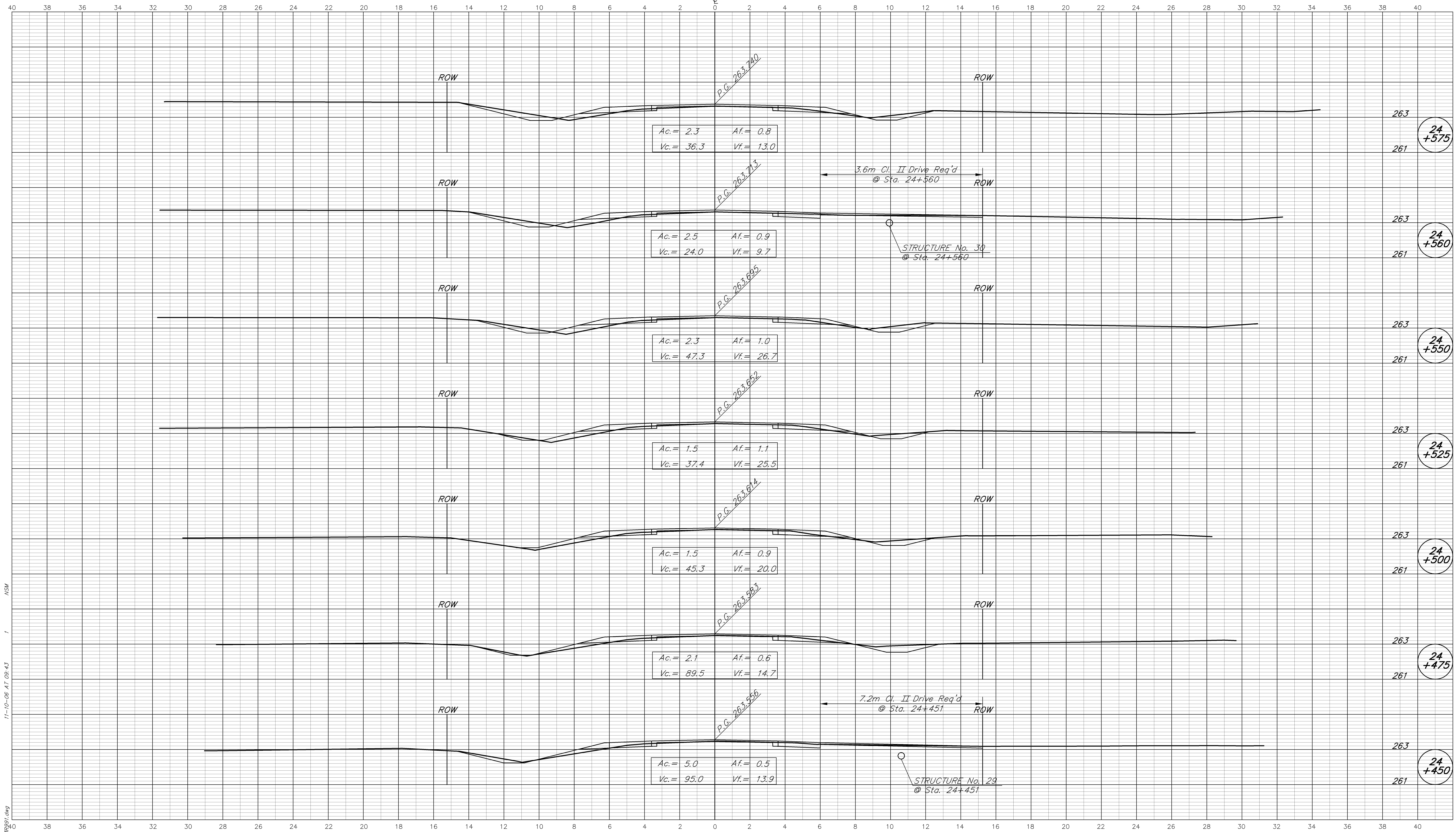
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
 STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 155 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

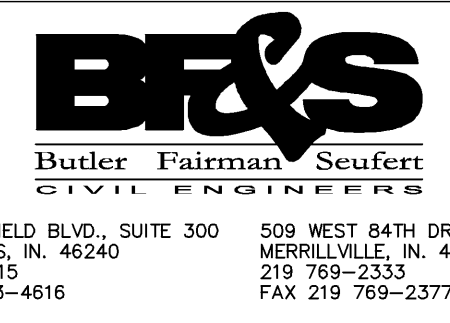
BFS No. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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CROSS SECTIONS  
LINE "A"

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CHECKED: BZ CHECKED: MSL

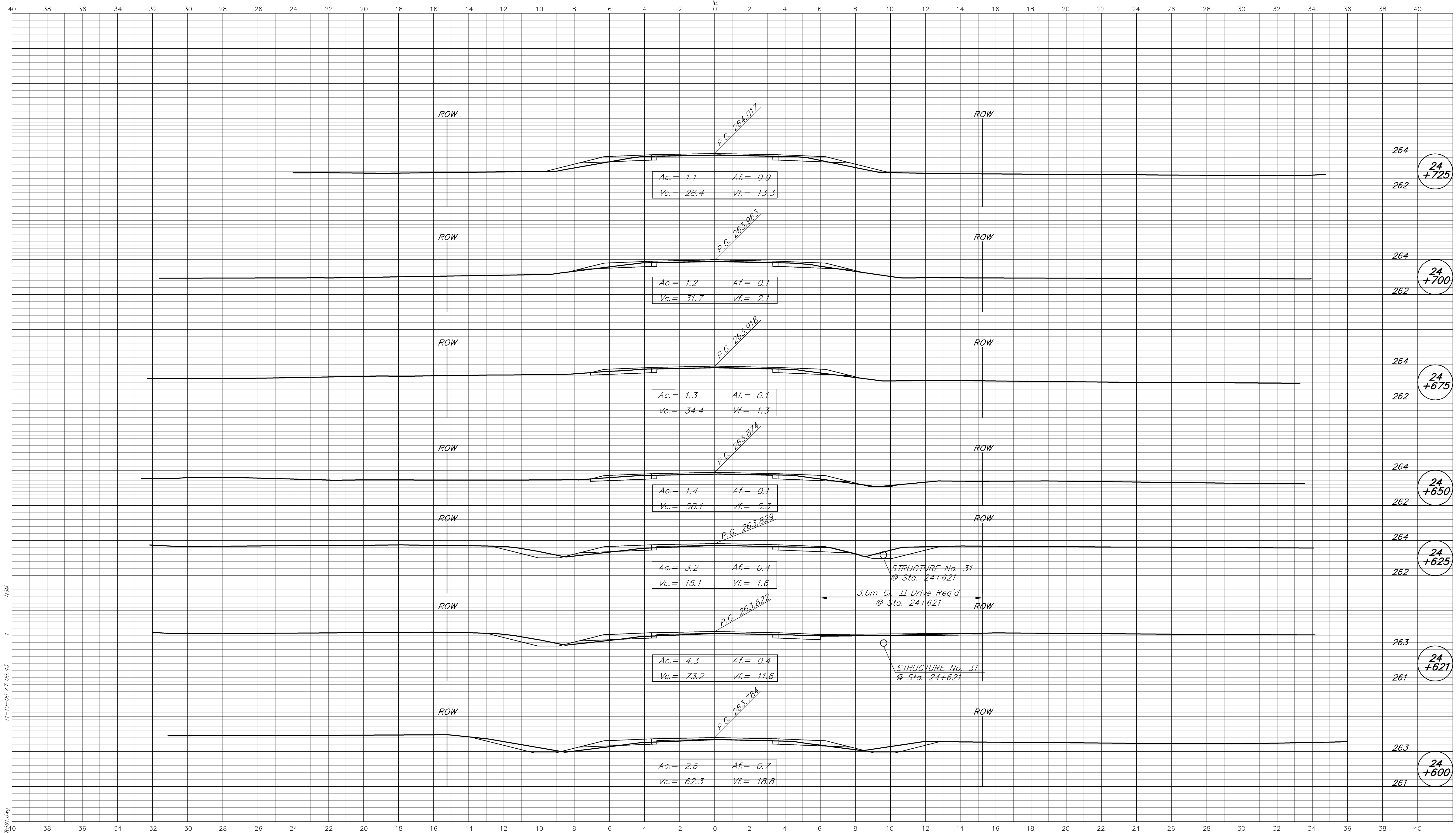
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

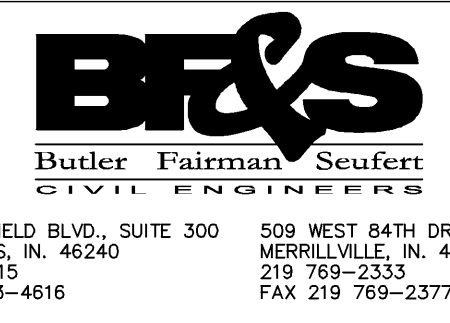
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1:100	9706580
SURVEY BOOK	SHEET
	156 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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**CROSS SECTIONS  
LINE "A"**

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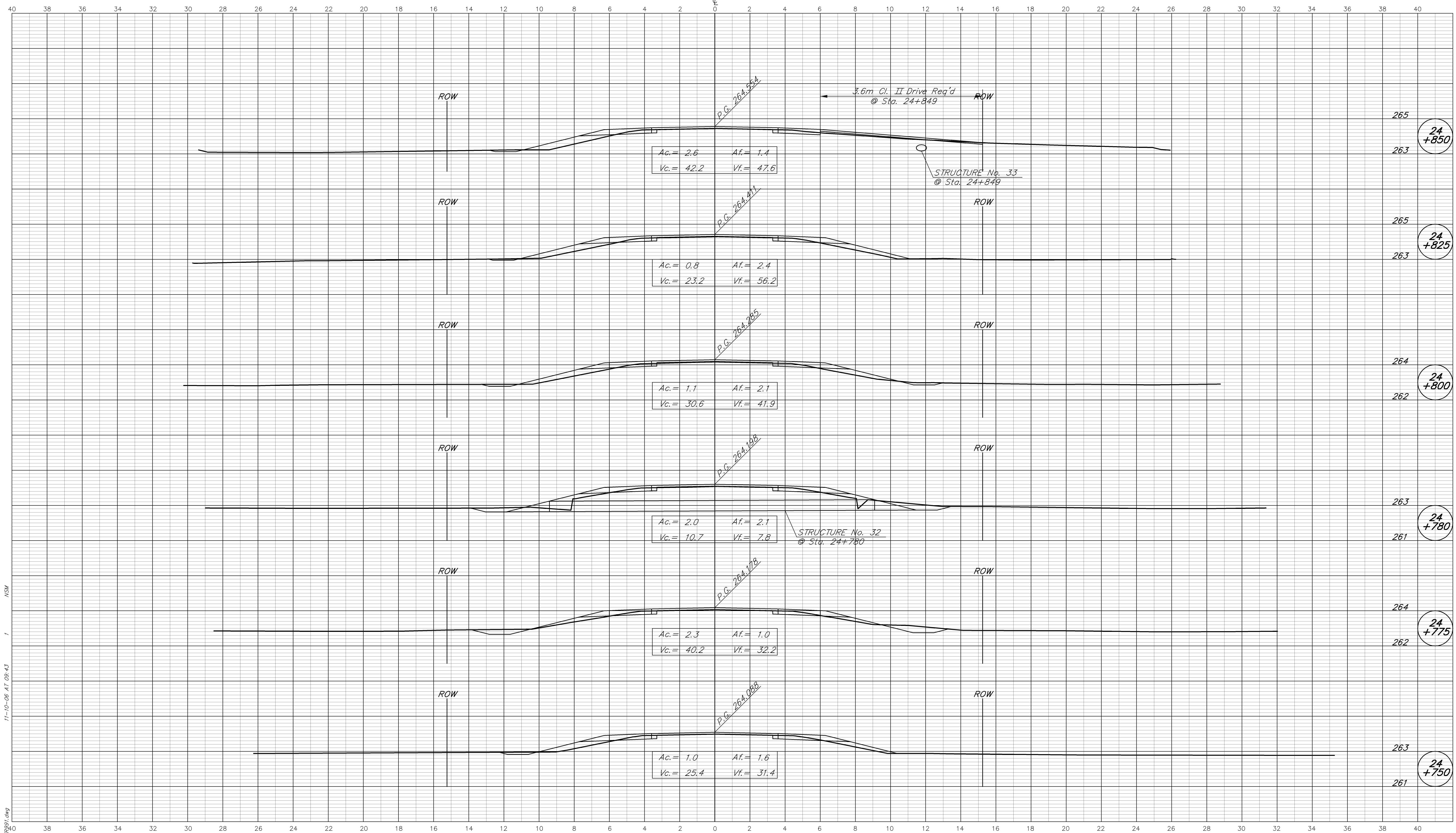
INDIANA  
DEPARTMENT OF TRANSPORTATION

**STATE ROAD 37**

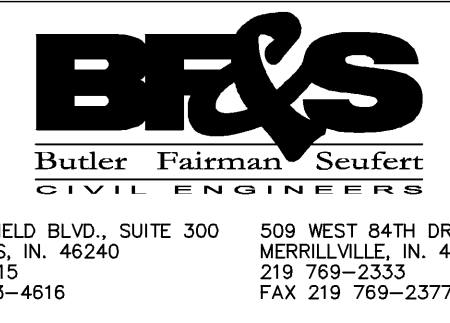
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SURVEY BOOK	SHEET 157 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
154  
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**CROSS SECTIONS LINE "A"**

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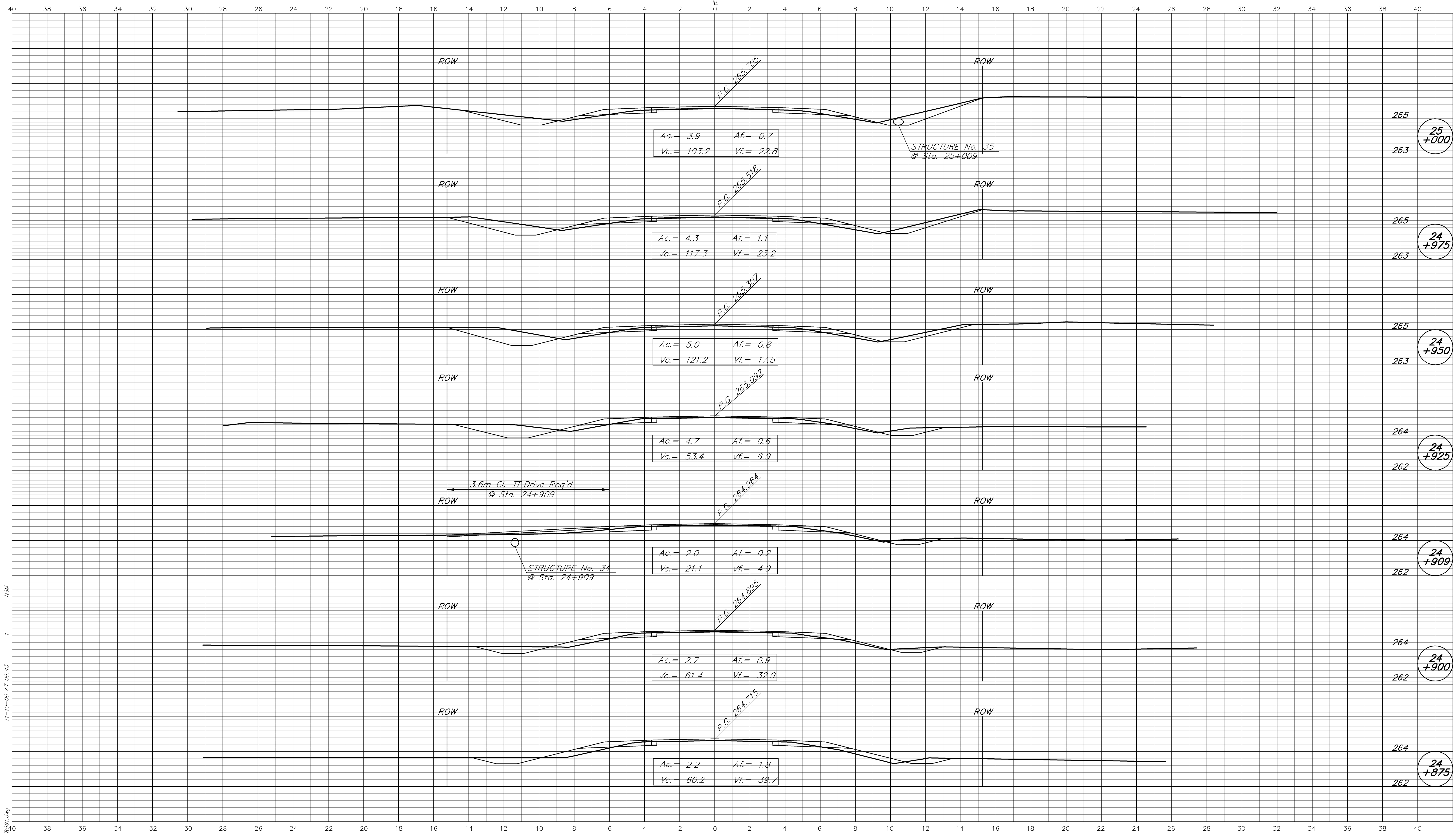
INDIANA DEPARTMENT OF TRANSPORTATION  
**STATE ROAD 37**

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 158 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

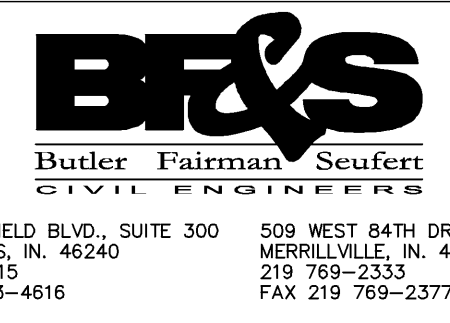
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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**CROSS SECTIONS LINE "A"**

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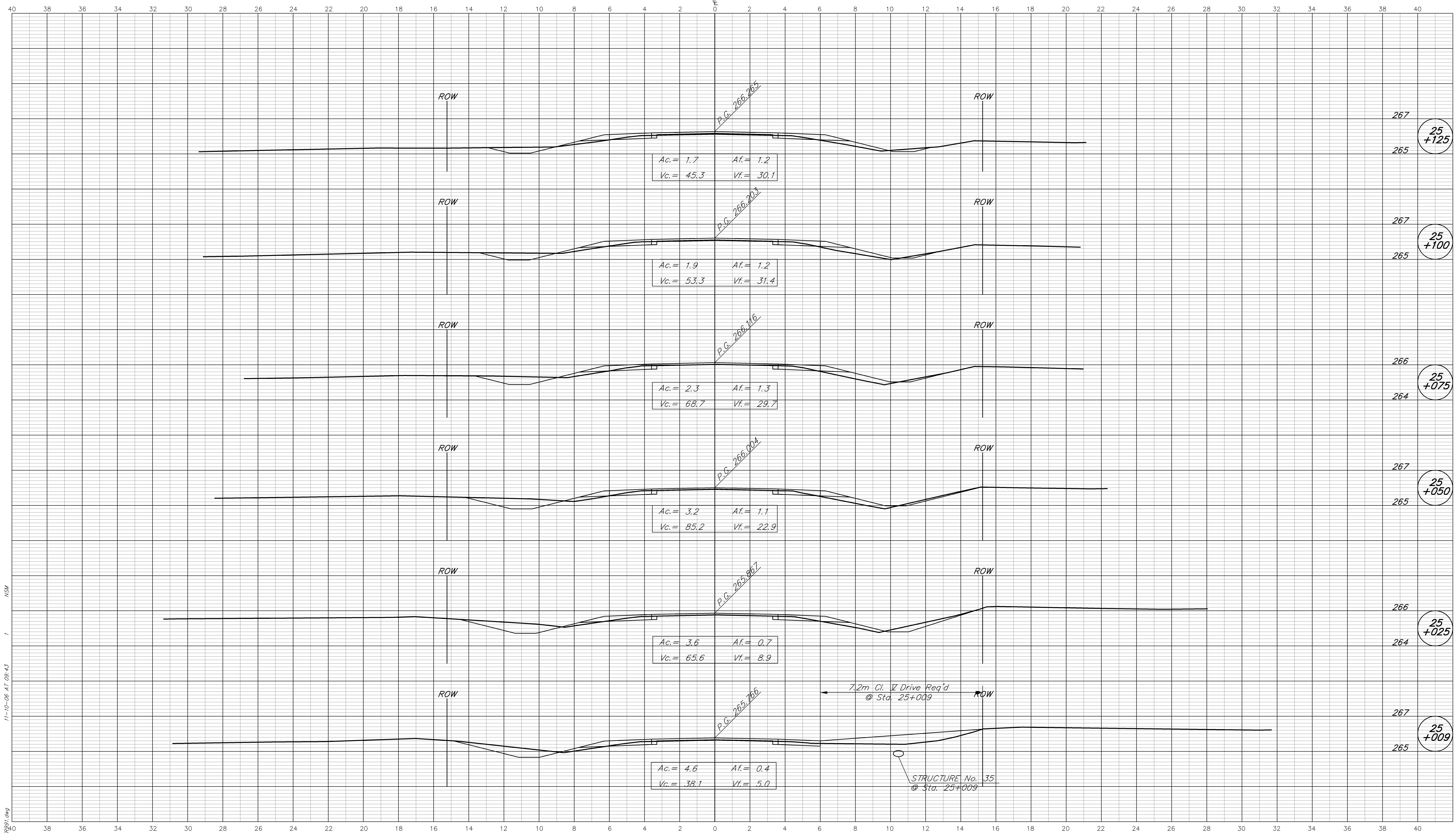
INDIANA DEPARTMENT OF TRANSPORTATION

**STATE ROAD 37**

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 159 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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11-10-06 AT 09:43  
MSA

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Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

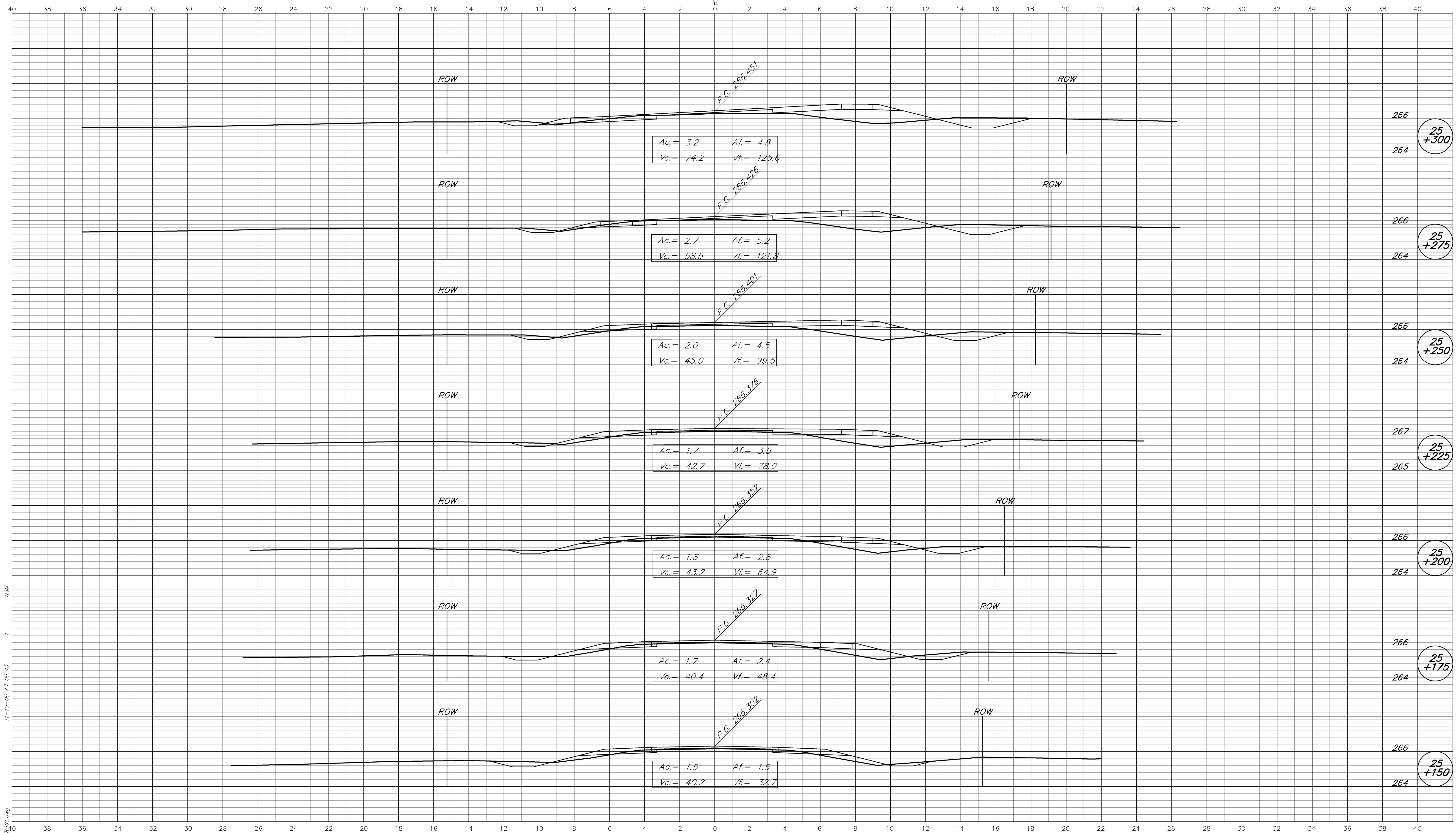
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**INDIANA DEPARTMENT OF TRANSPORTATION**

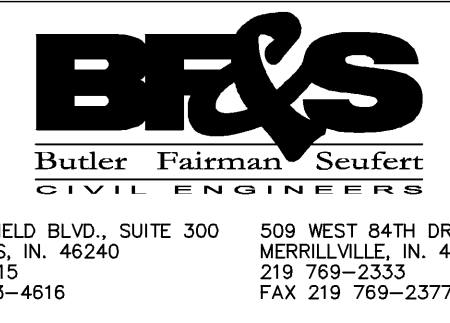
**STATE ROAD 37**

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SURVEY BOOK	SHEET 160 OF 292	
CONTRACT R-28934	PROJECT STP/097-9(005)	

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

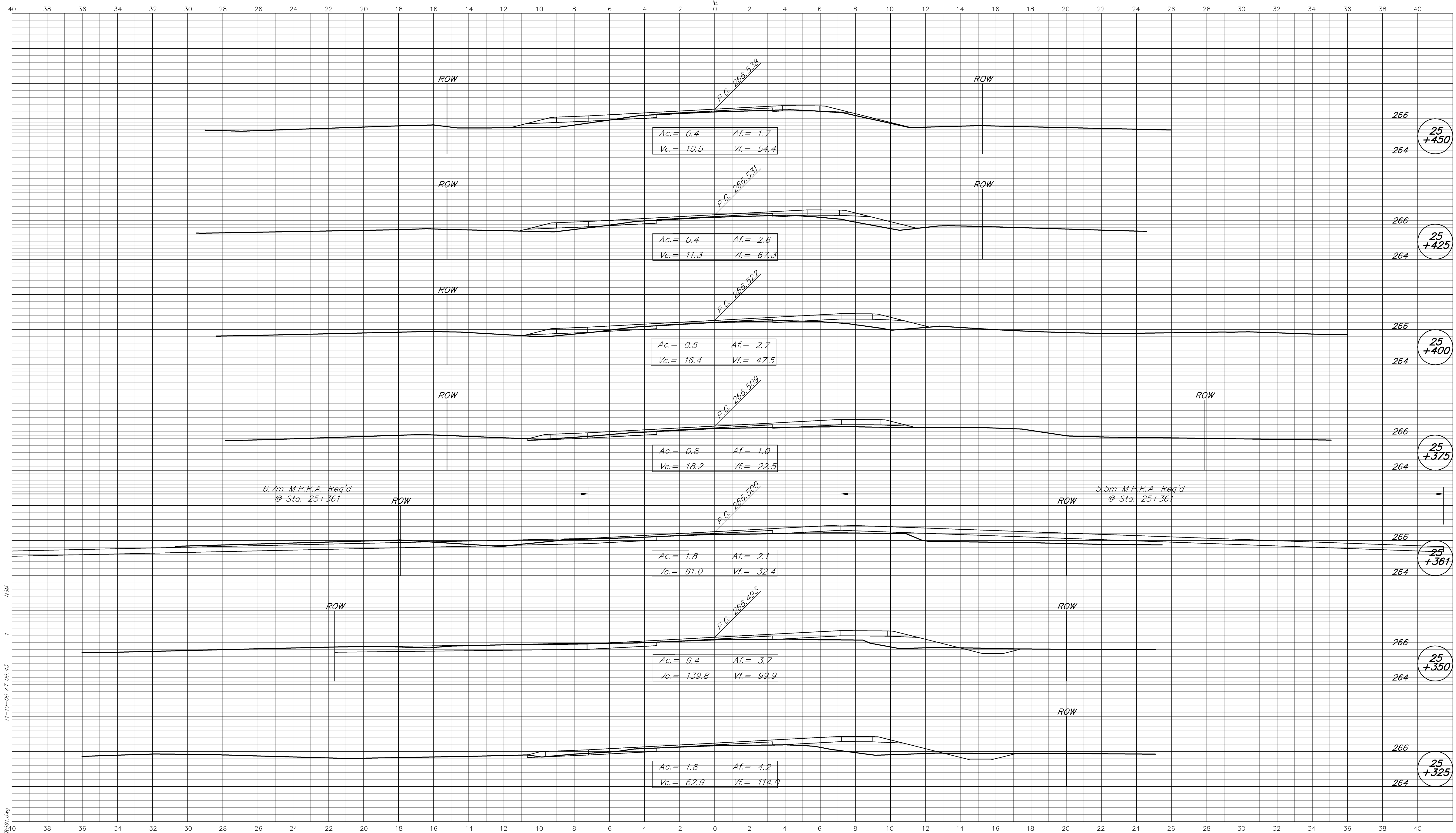
STATE ROAD 37

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SURVEY BOOK	SHEET
	161 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07



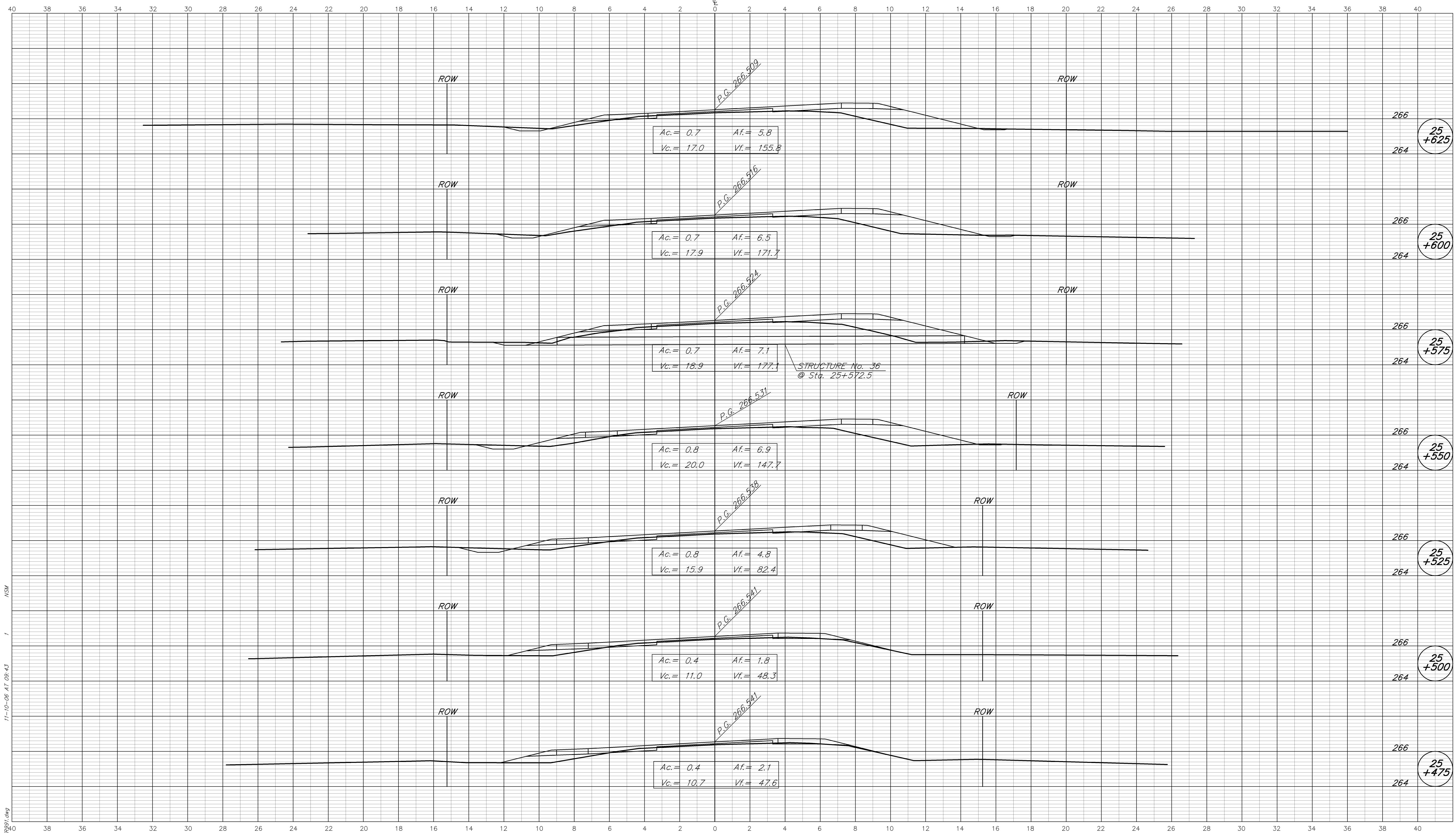
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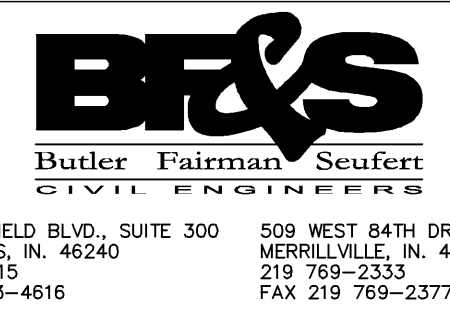
 <b>Butler Fairman Seufert</b> CIVIL ENGINEERS <small>8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616</small>	<b>CROSS SECTIONS</b> <b>LINE "A"</b>	INDIANA DEPARTMENT OF TRANSPORTATION  <b>STATE ROAD 37</b>	HORIZONTAL SCALE 1:100 VERTICAL SCALE 1:100 SURVEY BOOK CONTRACT R-28934	FILE 3783 DESIGNATION 9706580 SHEET 162 OF 292 PROJECT STP/097-9(005)	BFS NO. 3783.07
	DESIGNED: <u>MSL</u> DRAWN: <u>MSS</u> CHECKED: <u>BZ</u> CHECKED: <u>MSL</u>				

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



STRUCTURE No. 36  
@ Sta. 25+572.5

11-10-06 AT 09:43  
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 1/34



CROSS SECTIONS  
LINE "A"

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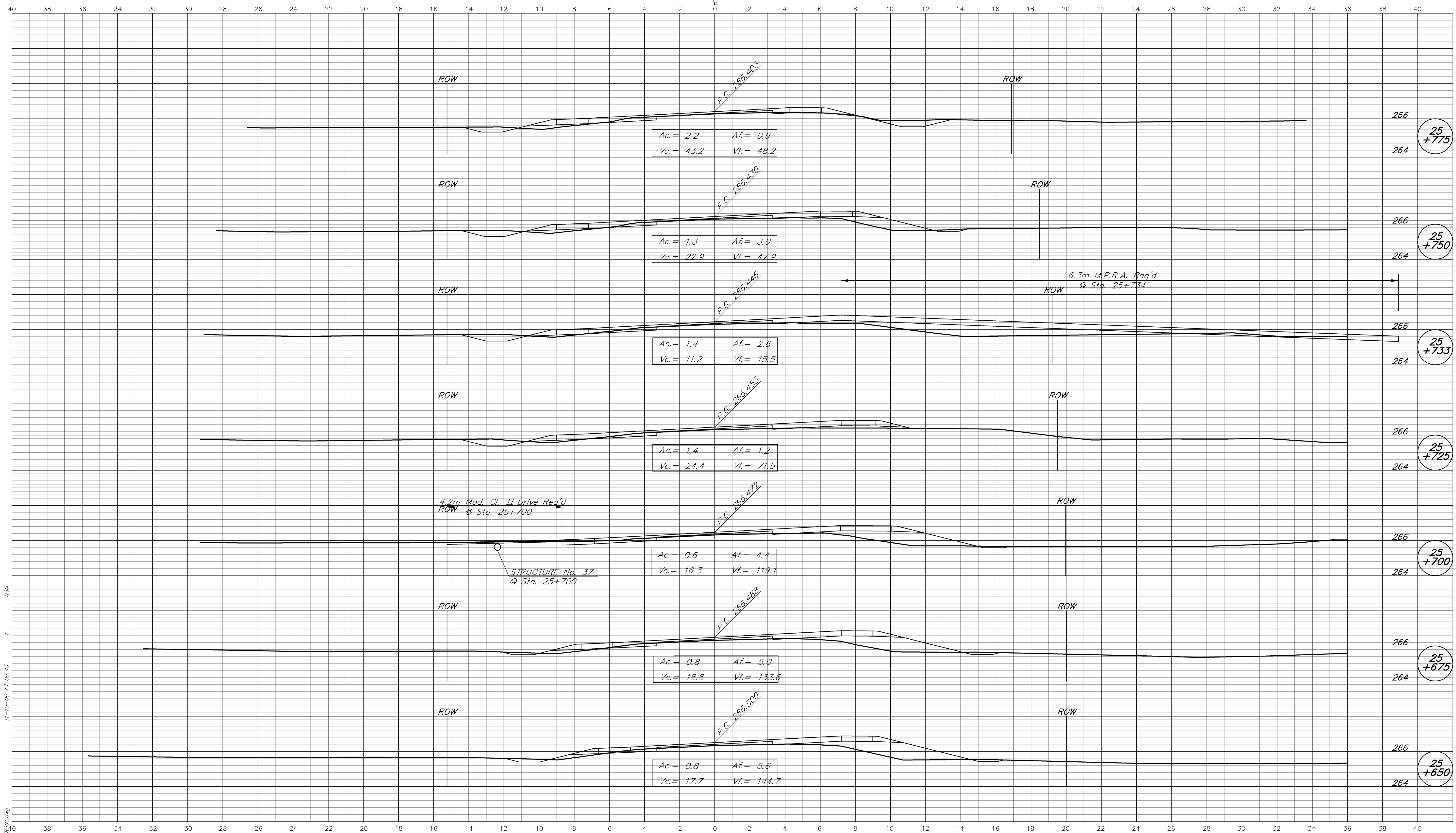
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

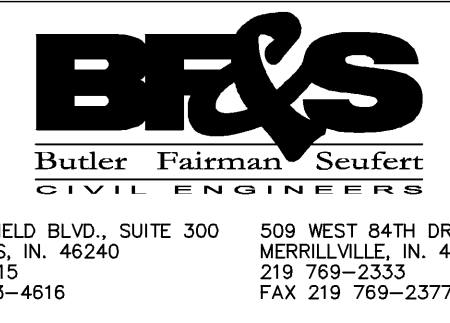
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	163 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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 MSL



**CROSS SECTIONS  
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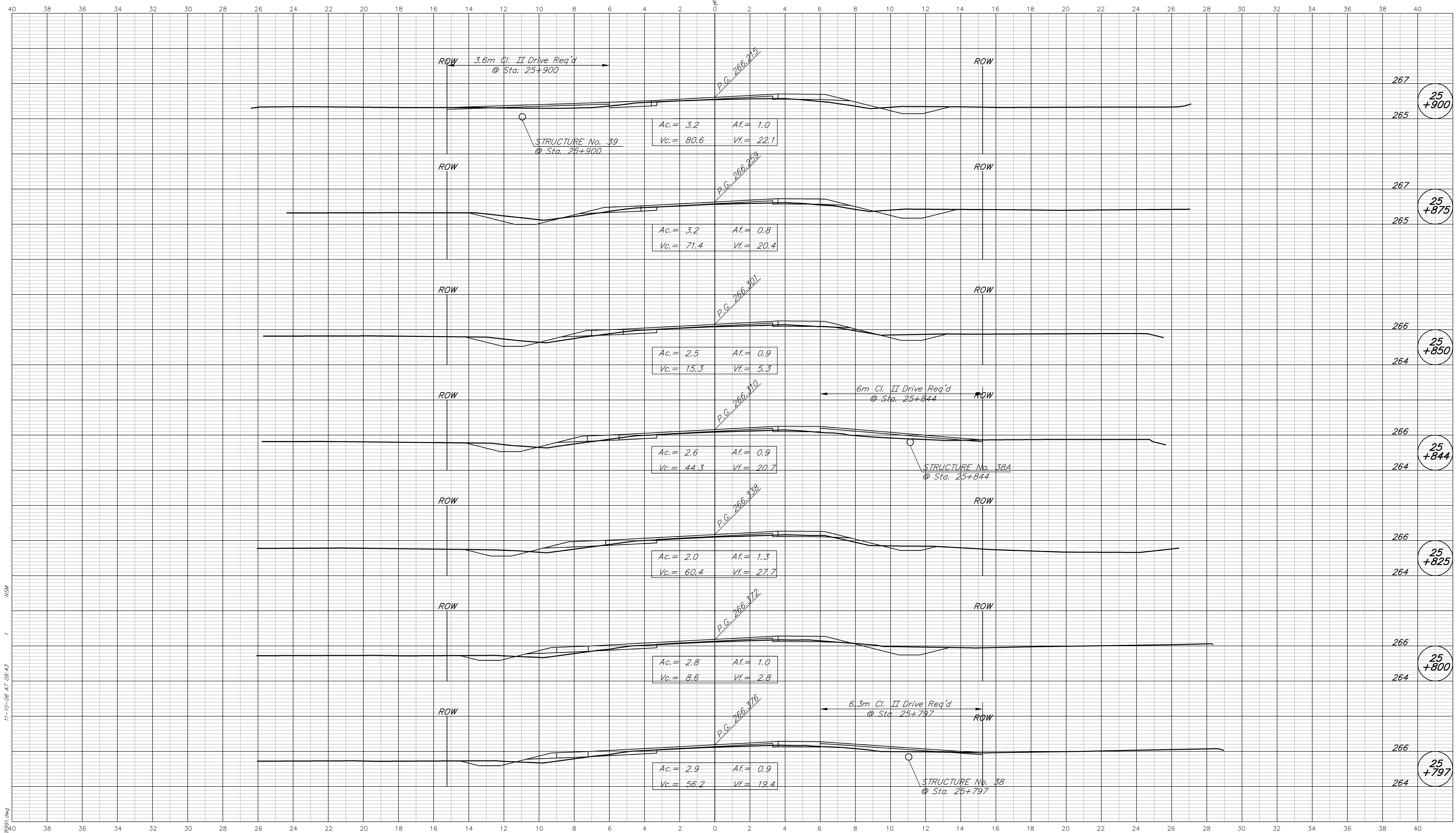
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 164 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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 MS4

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 Butler Fairman Seufert  
 CIVIL ENGINEERS  
 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

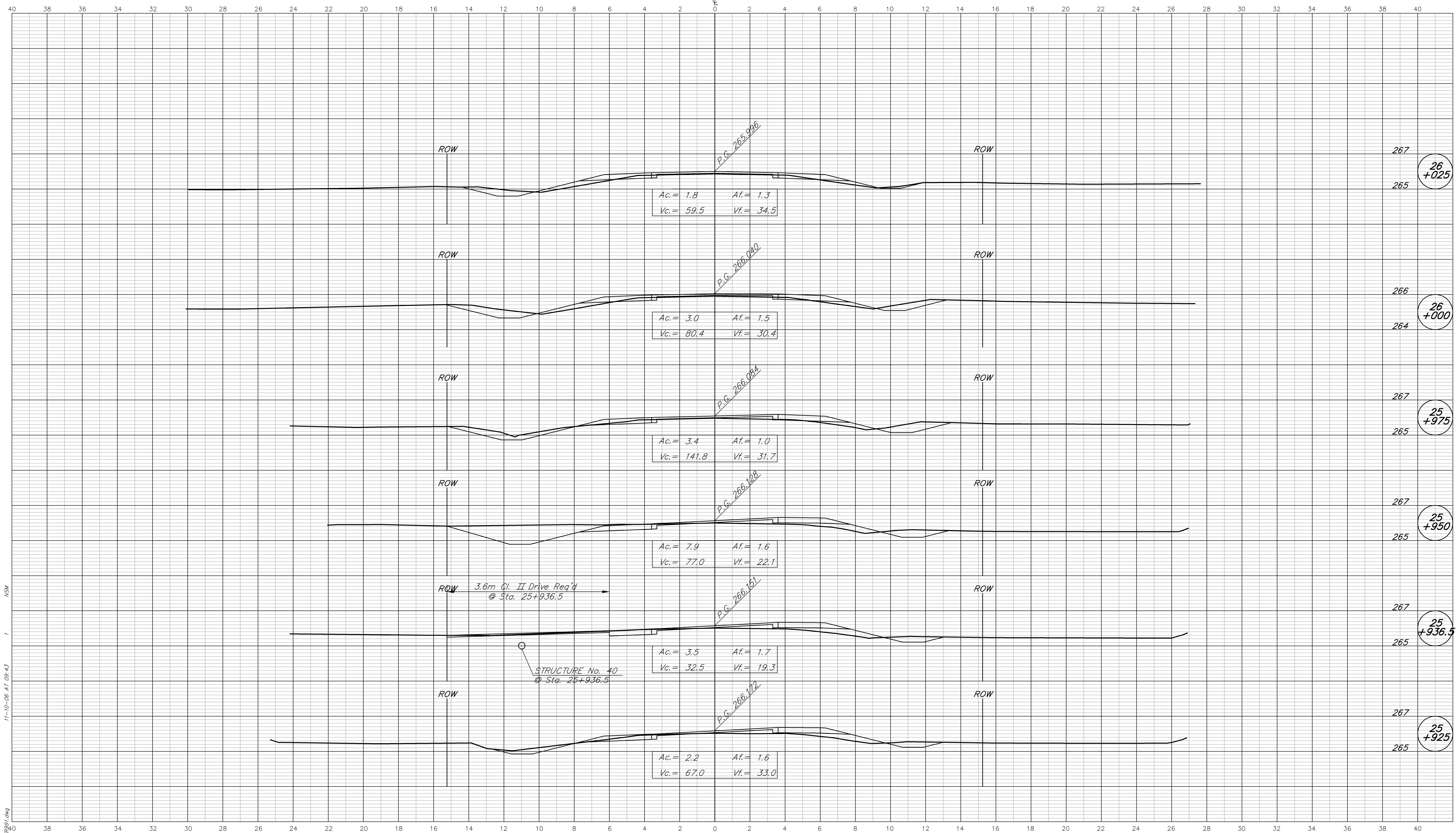
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INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

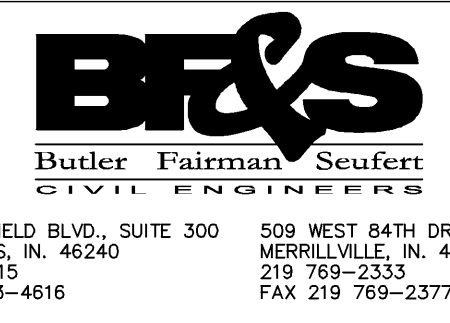
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 165 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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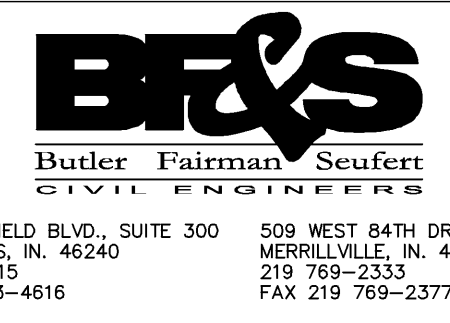
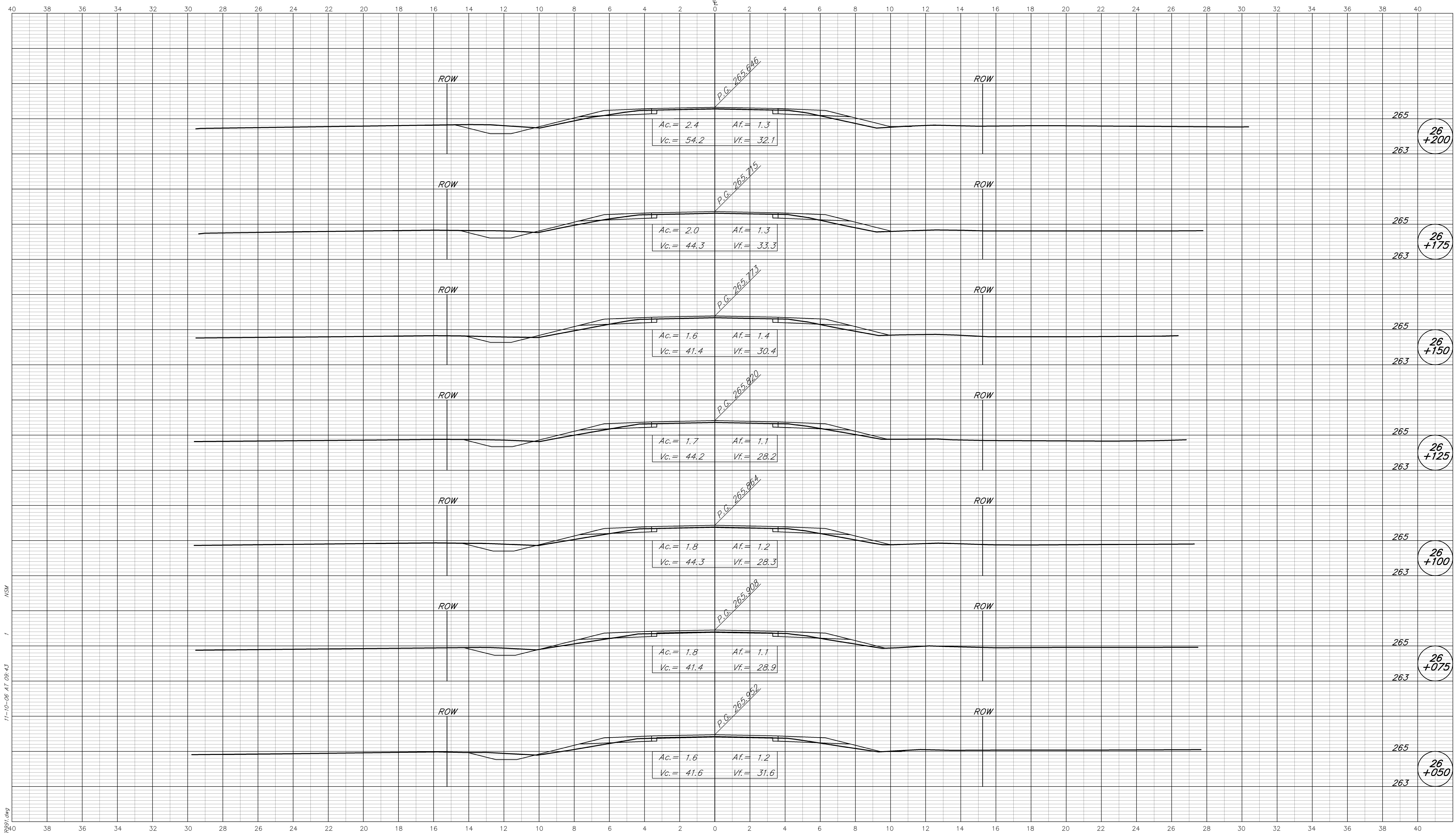
INDIANA  
DEPARTMENT OF TRANSPORTATION

**STATE ROAD 37**

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 166 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



**CROSS SECTIONS  
LINE "A"**

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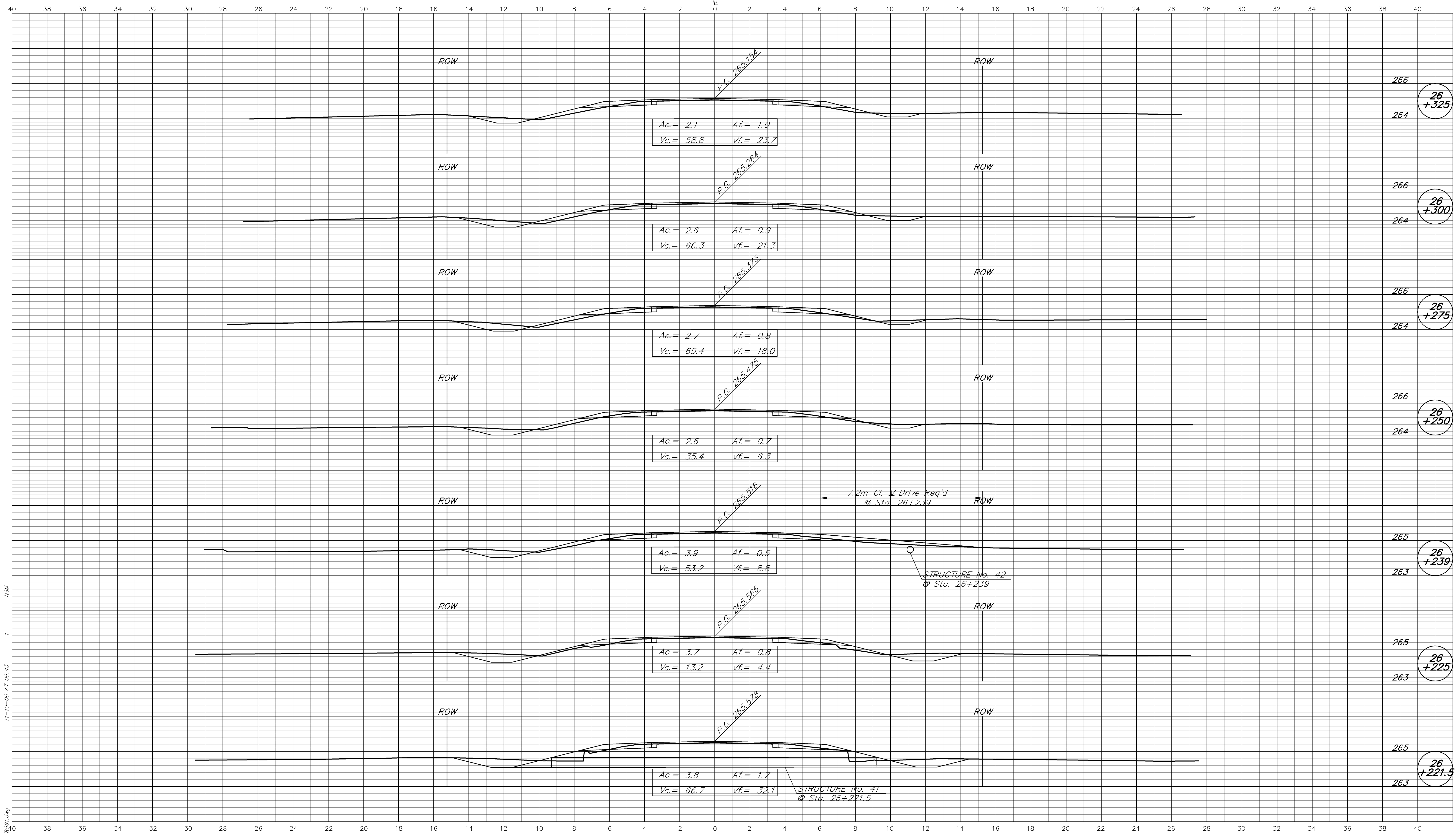
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

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SURVEY BOOK	SHEET 167 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MSL  
11-10-06 AT 09:43  
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CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
509 WEST 84TH DRIVE, SUITE 6 MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 317 713-4616 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

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INDIANA DEPARTMENT OF TRANSPORTATION

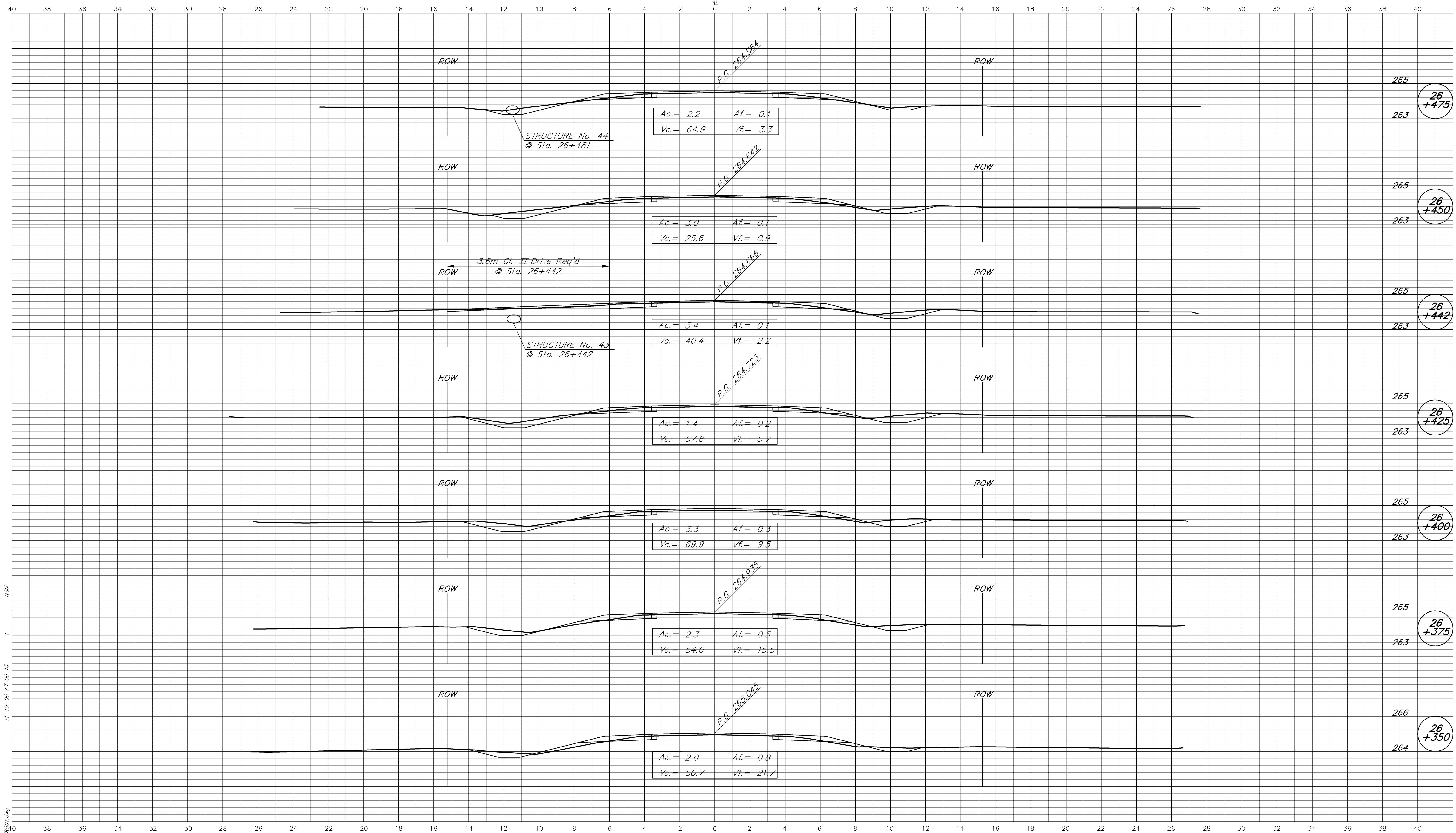
STATE ROAD 37

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SURVEY BOOK	SHEET
CONTRACT R-28934	168 OF 292 PROJECT STP/097-9(005)

BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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 1:100

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Butler Fairman Scufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

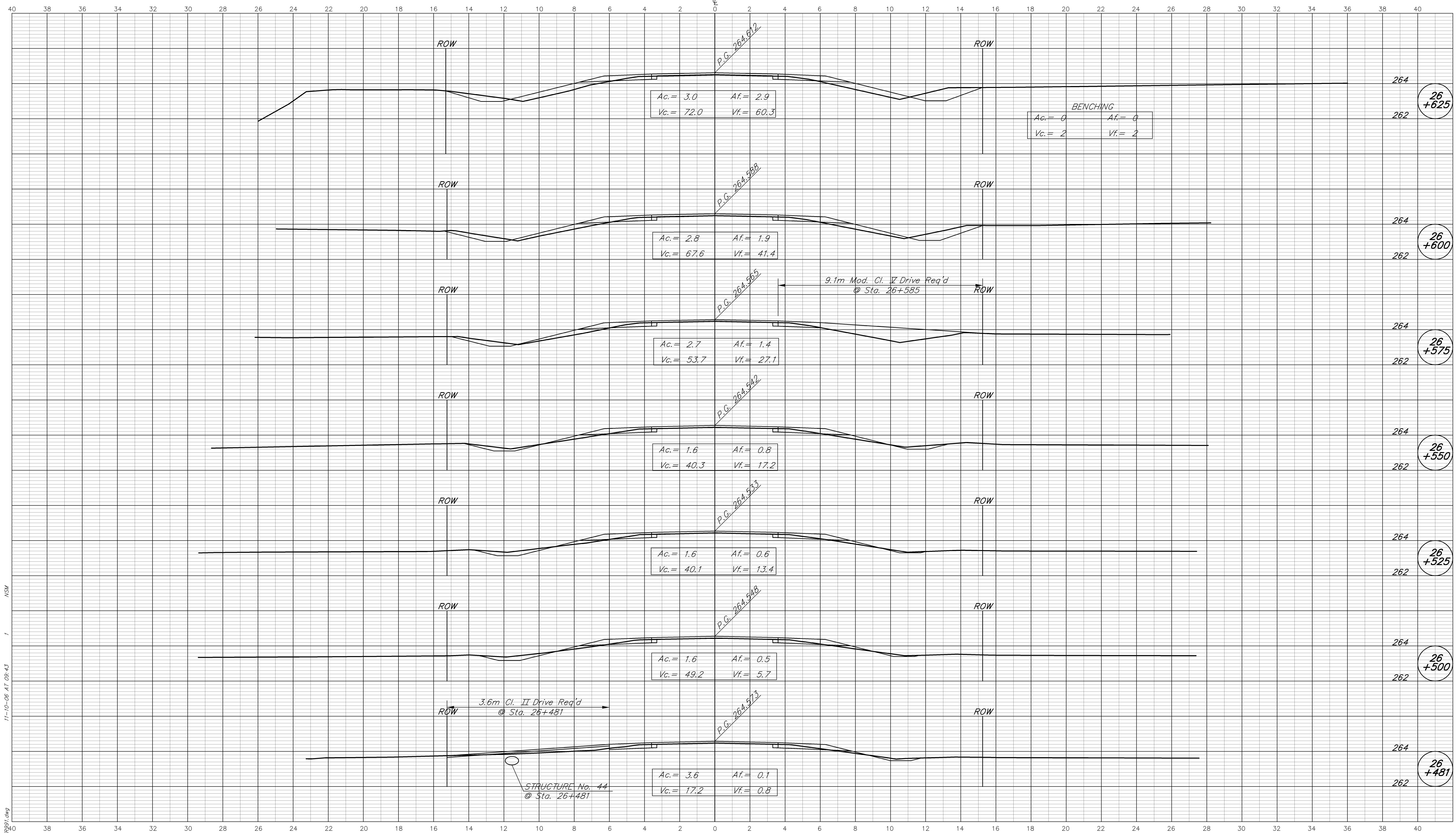
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INDIANA DEPARTMENT OF TRANSPORTATION  
**STATE ROAD 37**

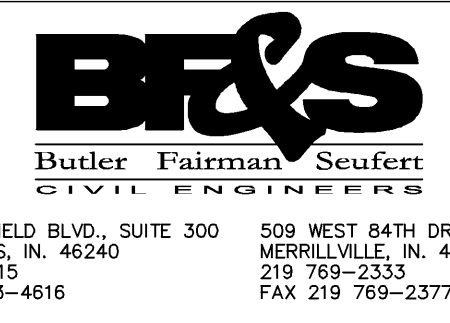
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SURVEY BOOK	SHEET
CONTRACT R-28934	169 OF 292 PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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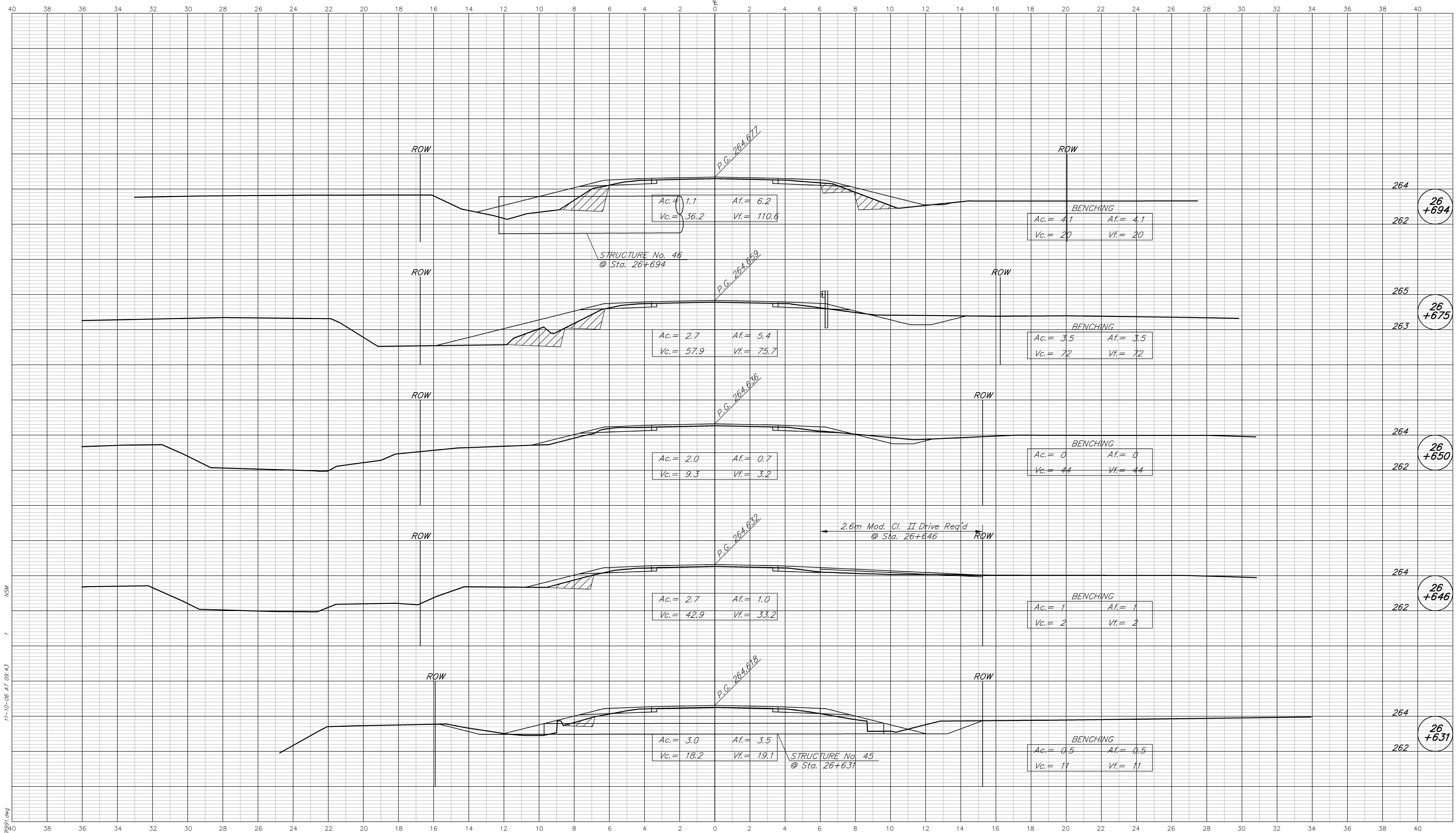
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INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

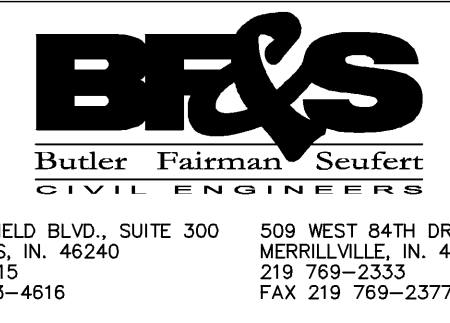
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SURVEY BOOK	SHEET
	170 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



R: L:\7823\AUTOCAD\ROAD\13783\fig2.dwg 11-10-06 AT 09:43



CROSS SECTIONS  
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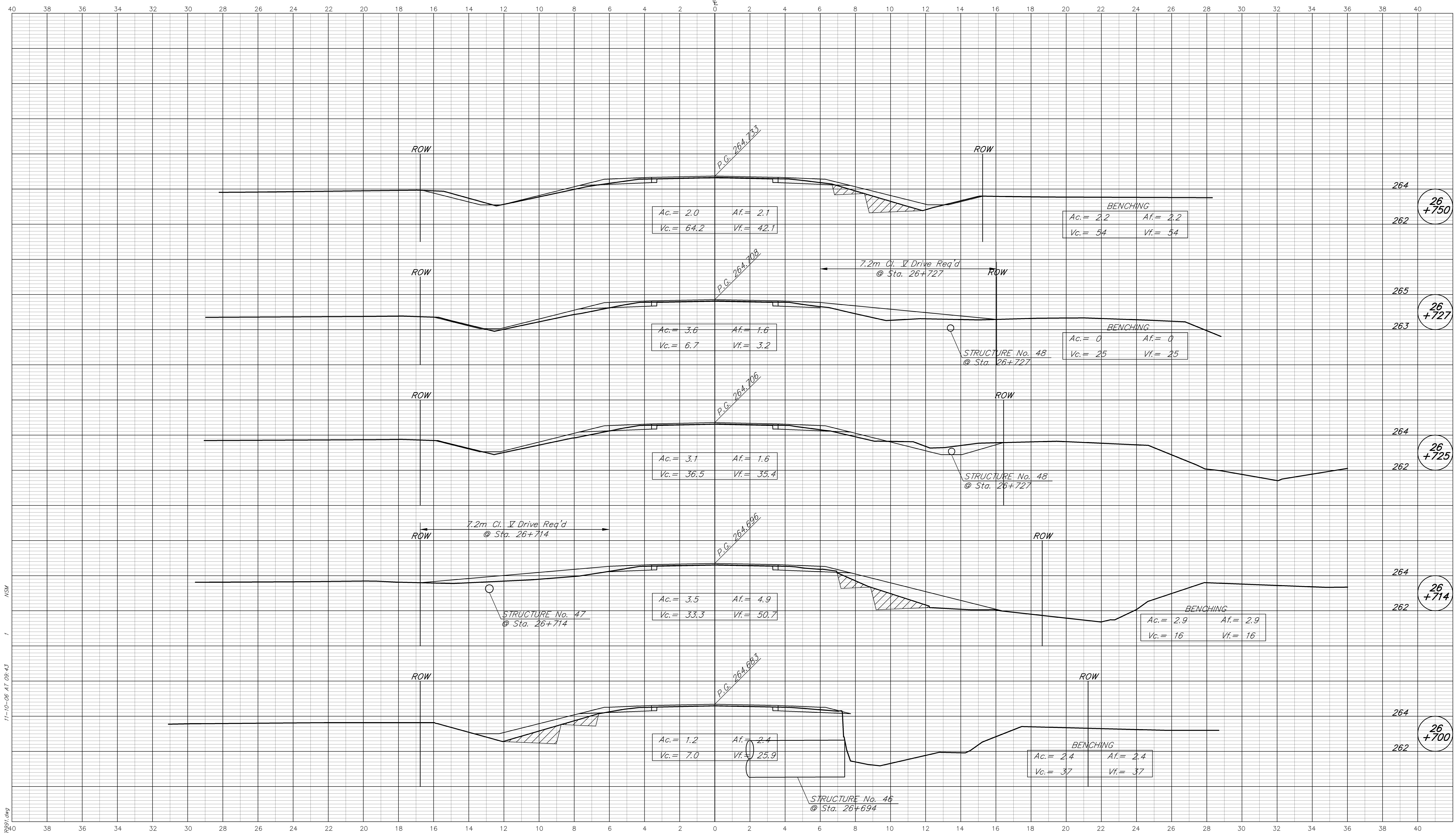
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	171 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



R: L:\3783\AUTOCAD\ROAD\3783.dwg  
11-10-06 AT 09:43  
MSA

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

DESIGNED: MSL		DRAWN: MSS	
CHECKED: BZ		CHECKED: MSL	

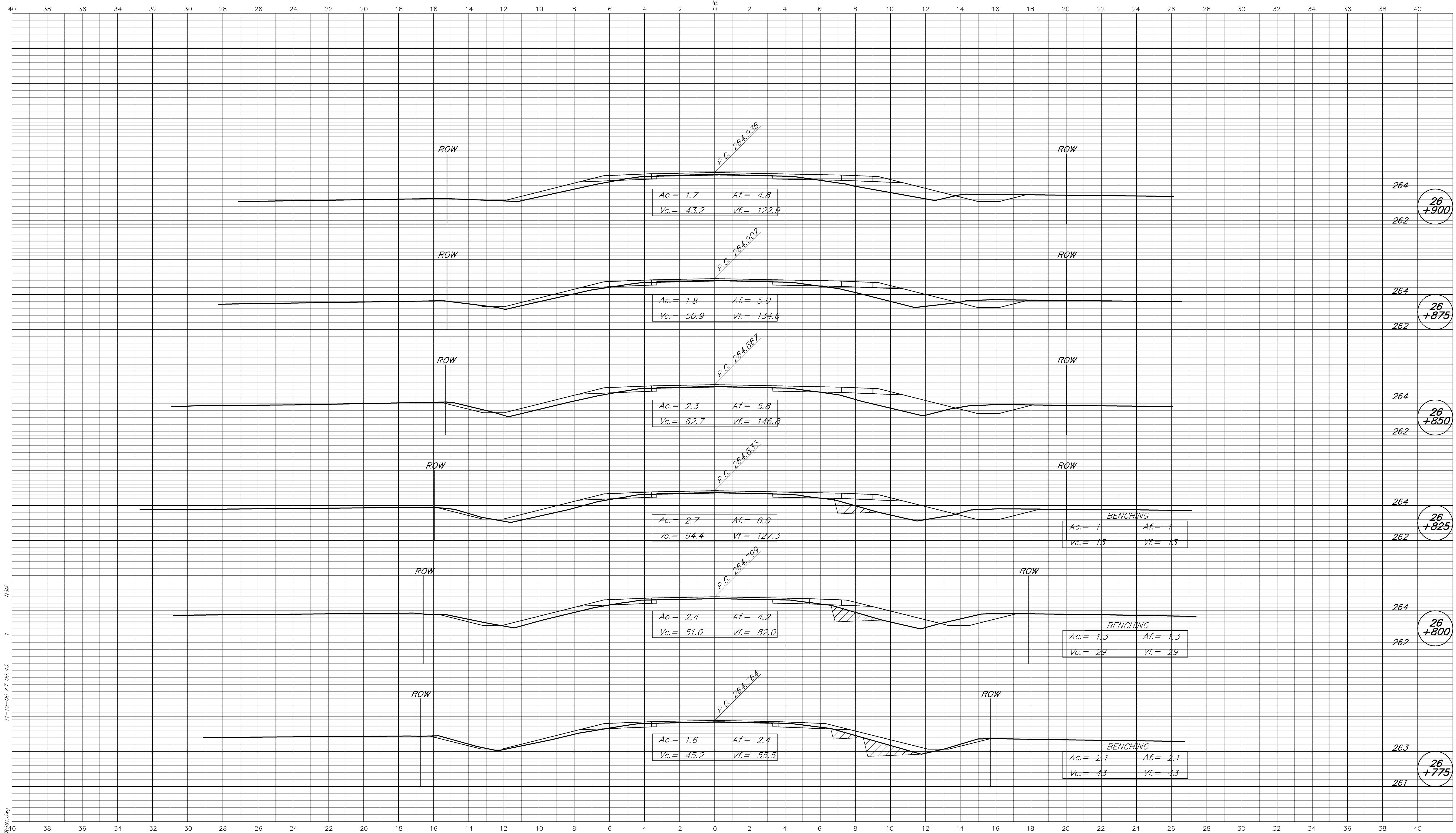
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LINE "A"  
INDIANA DEPARTMENT OF TRANSPORTATION  
STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 172 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

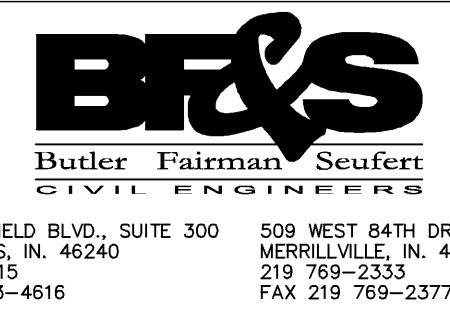
BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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 MS4  
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**CROSS SECTIONS LINE "A"**

DESIGNED: MSL DRAWN: MSS

CHECKED: BZ CHECKED: MSL

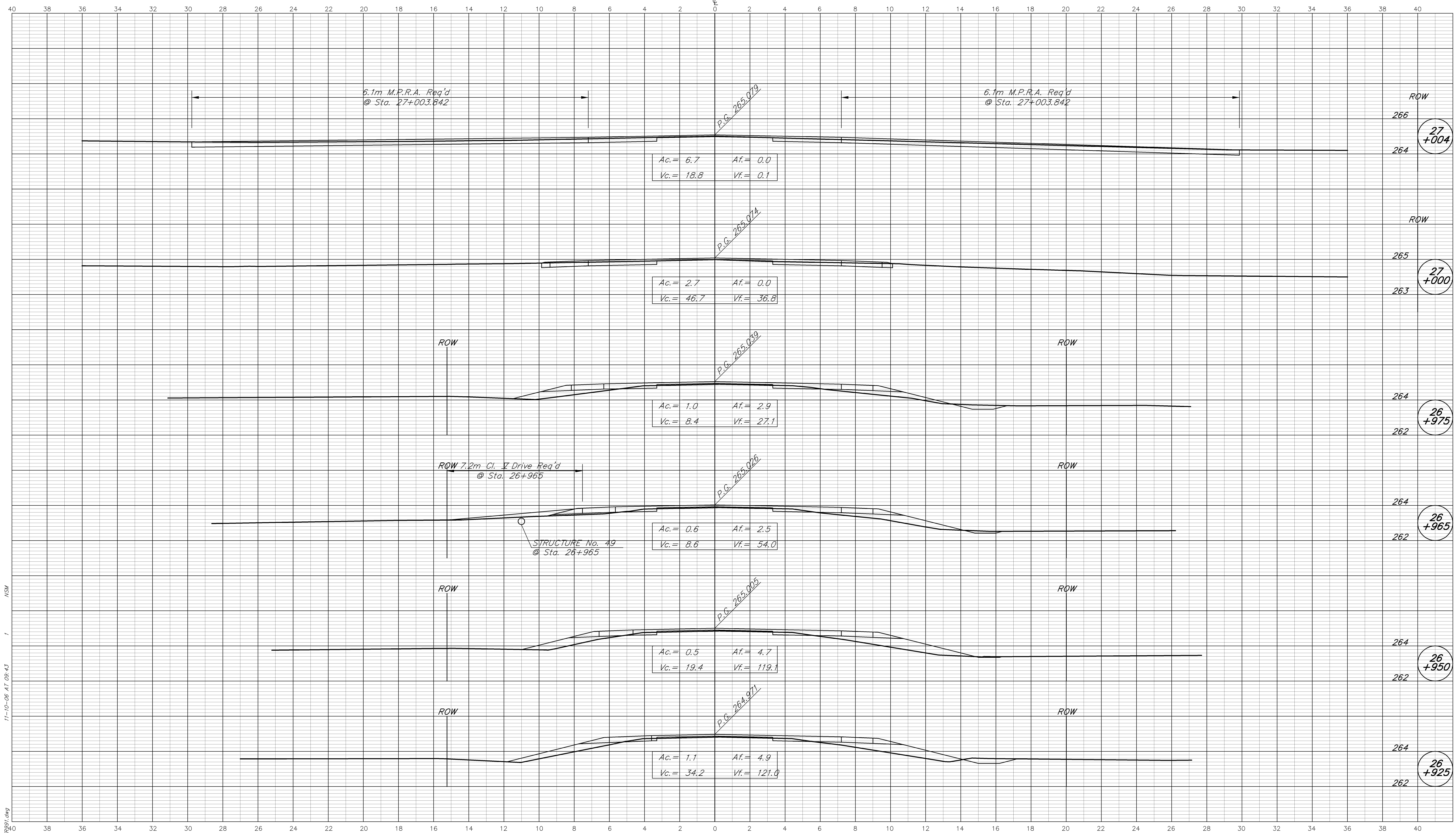
INDIANA DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

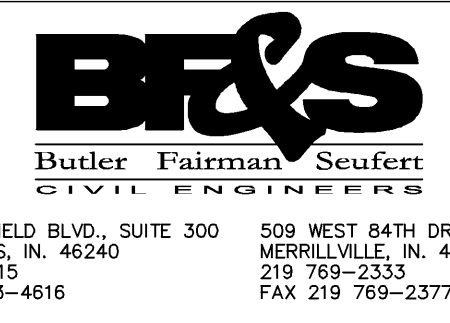
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VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	173 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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**CROSS SECTIONS LINE "A"**

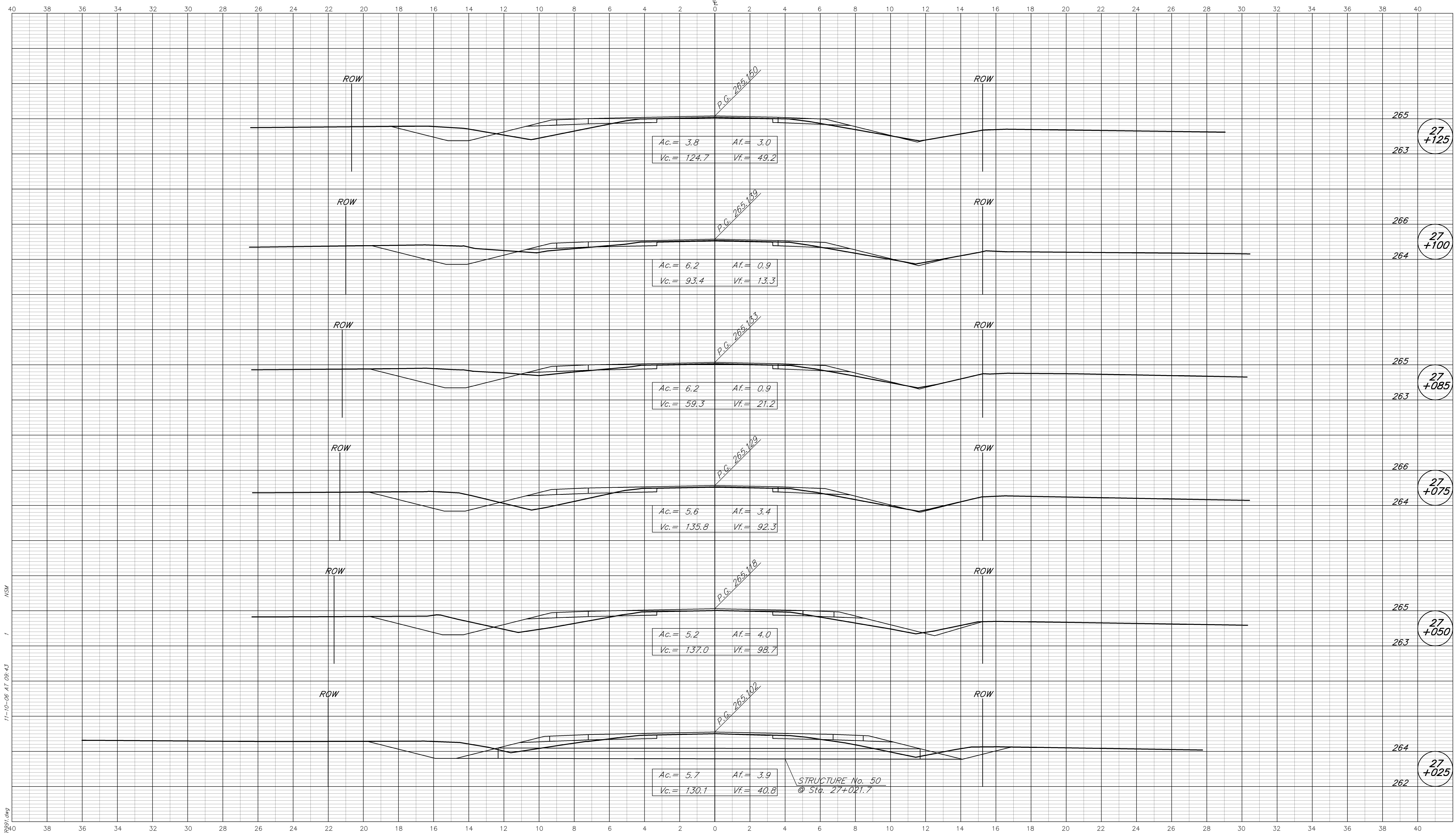
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

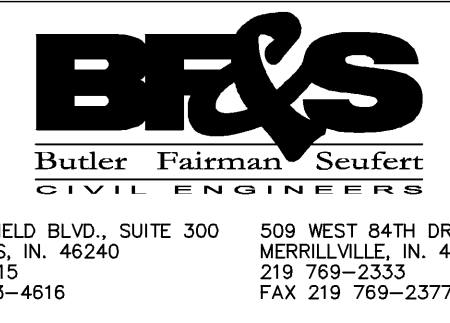
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	174 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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MSA



**CROSS SECTIONS  
LINE "A"**

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CHECKED: BZ CHECKED: MSL

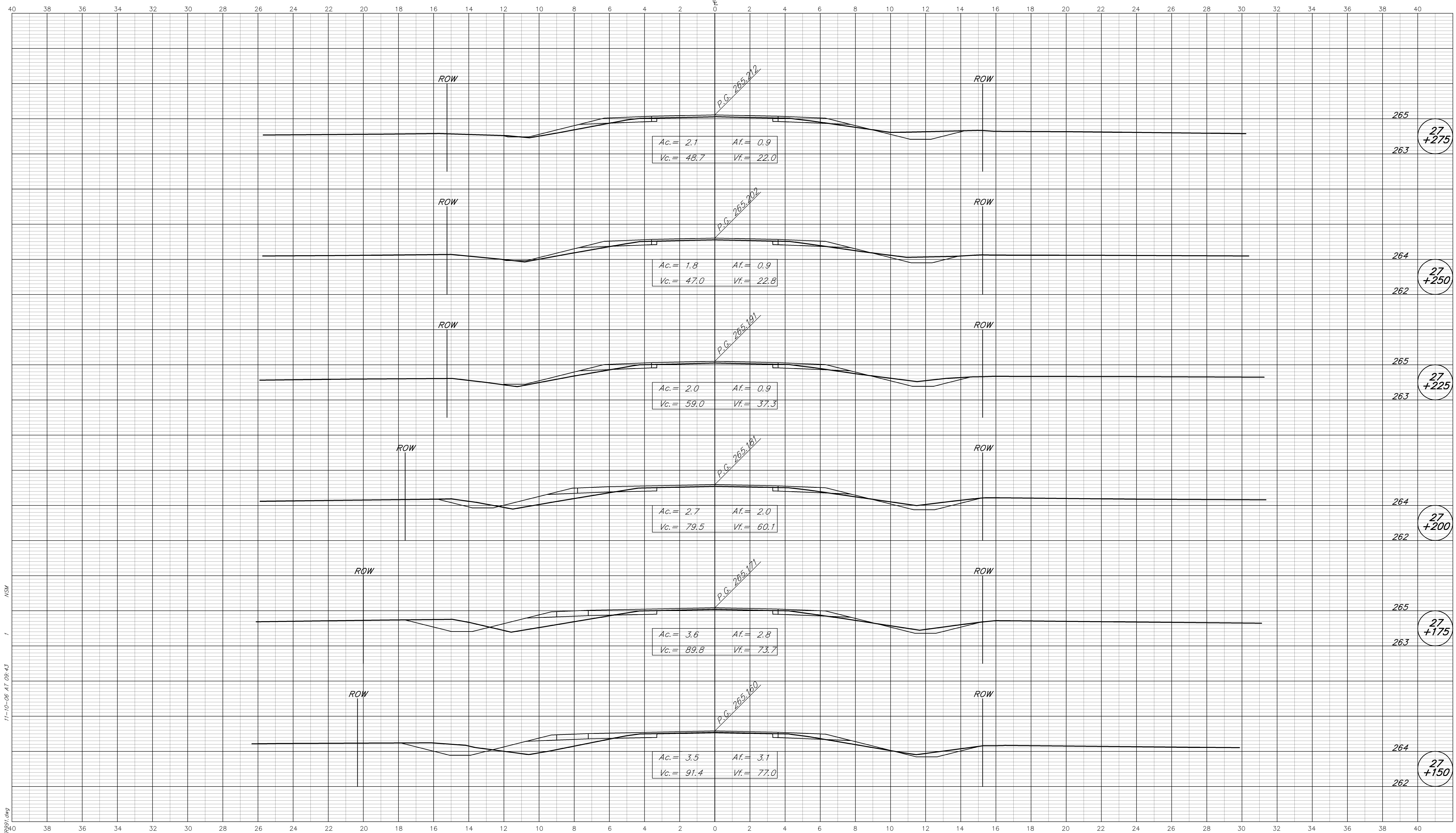
INDIANA  
DEPARTMENT OF TRANSPORTATION

**STATE ROAD 37**

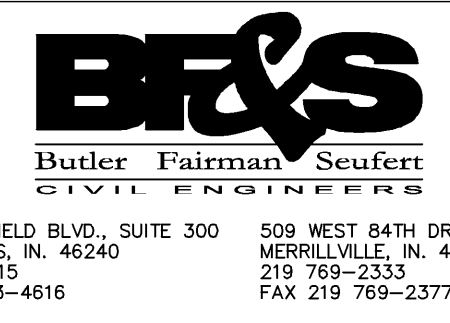
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 175 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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MSA



**CROSS SECTIONS  
LINE "A"**

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

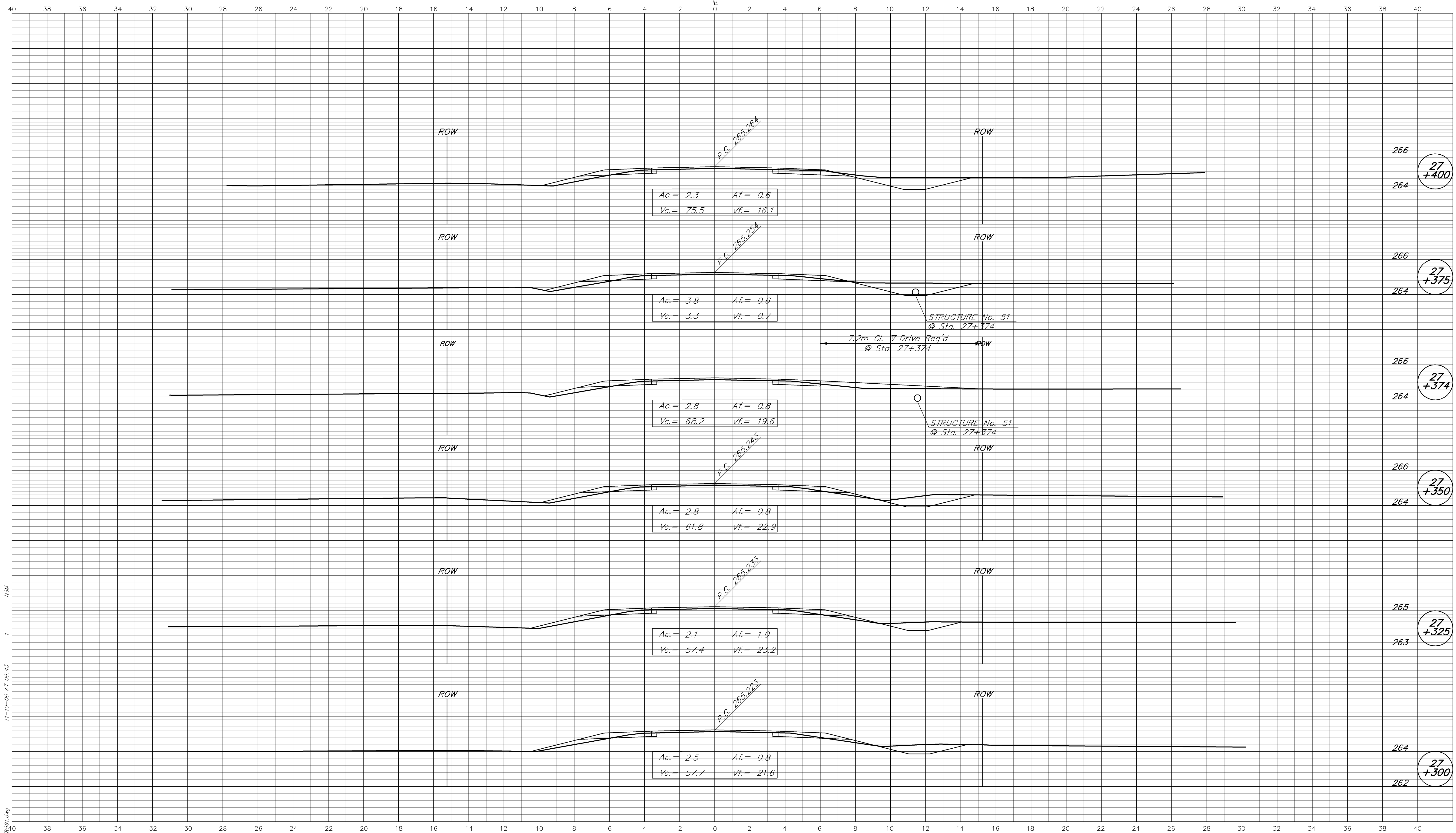
**STATE ROAD 37**

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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 176 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

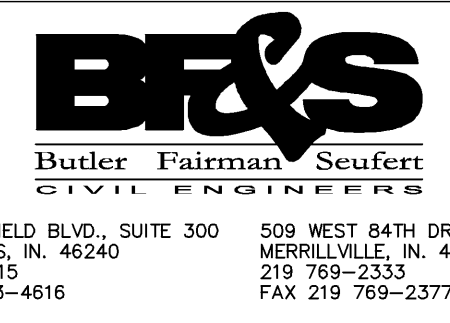
BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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CROSS SECTIONS  
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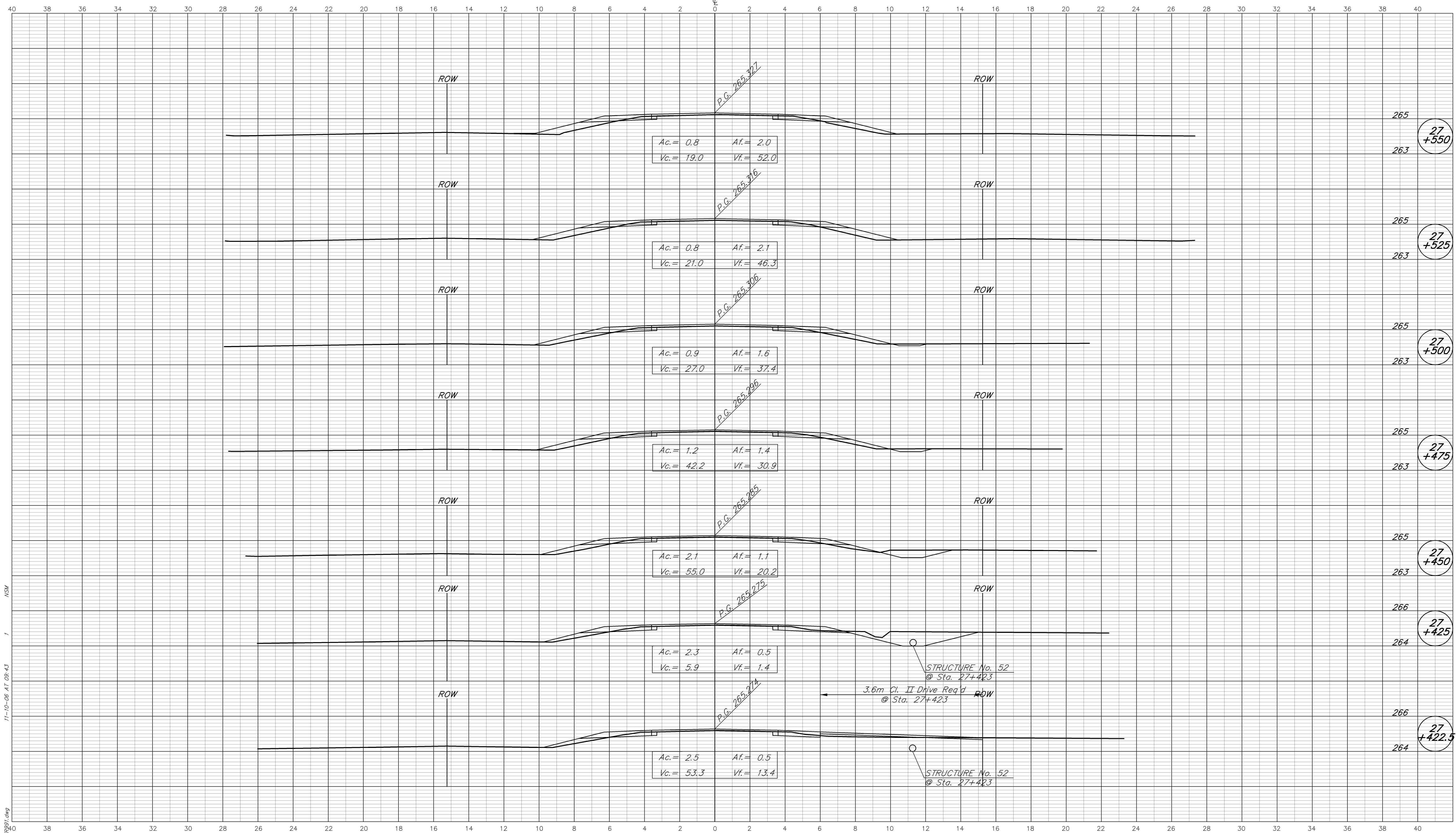
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 177 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
 13783 (AUTOCAD) ROAD.L3783.dwg

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509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

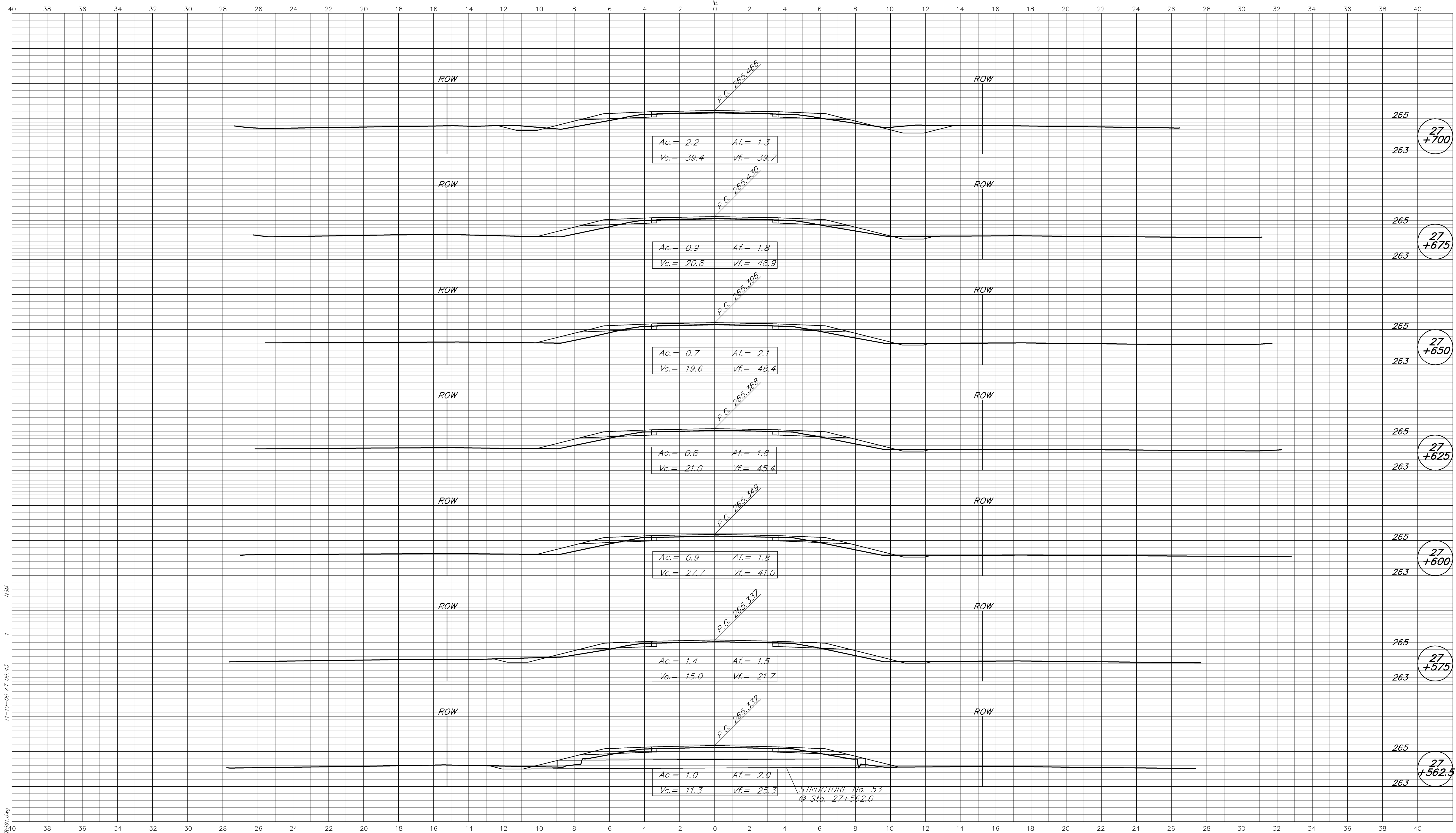
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INDIANA DEPARTMENT OF TRANSPORTATION  
**STATE ROAD 37**

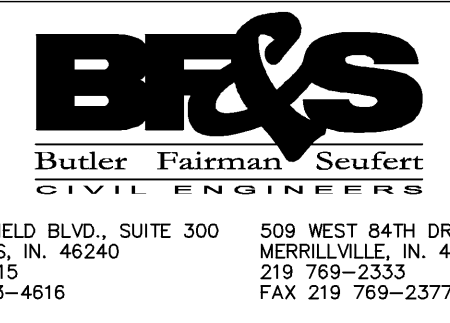
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SURVEY BOOK	SHEET 178 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
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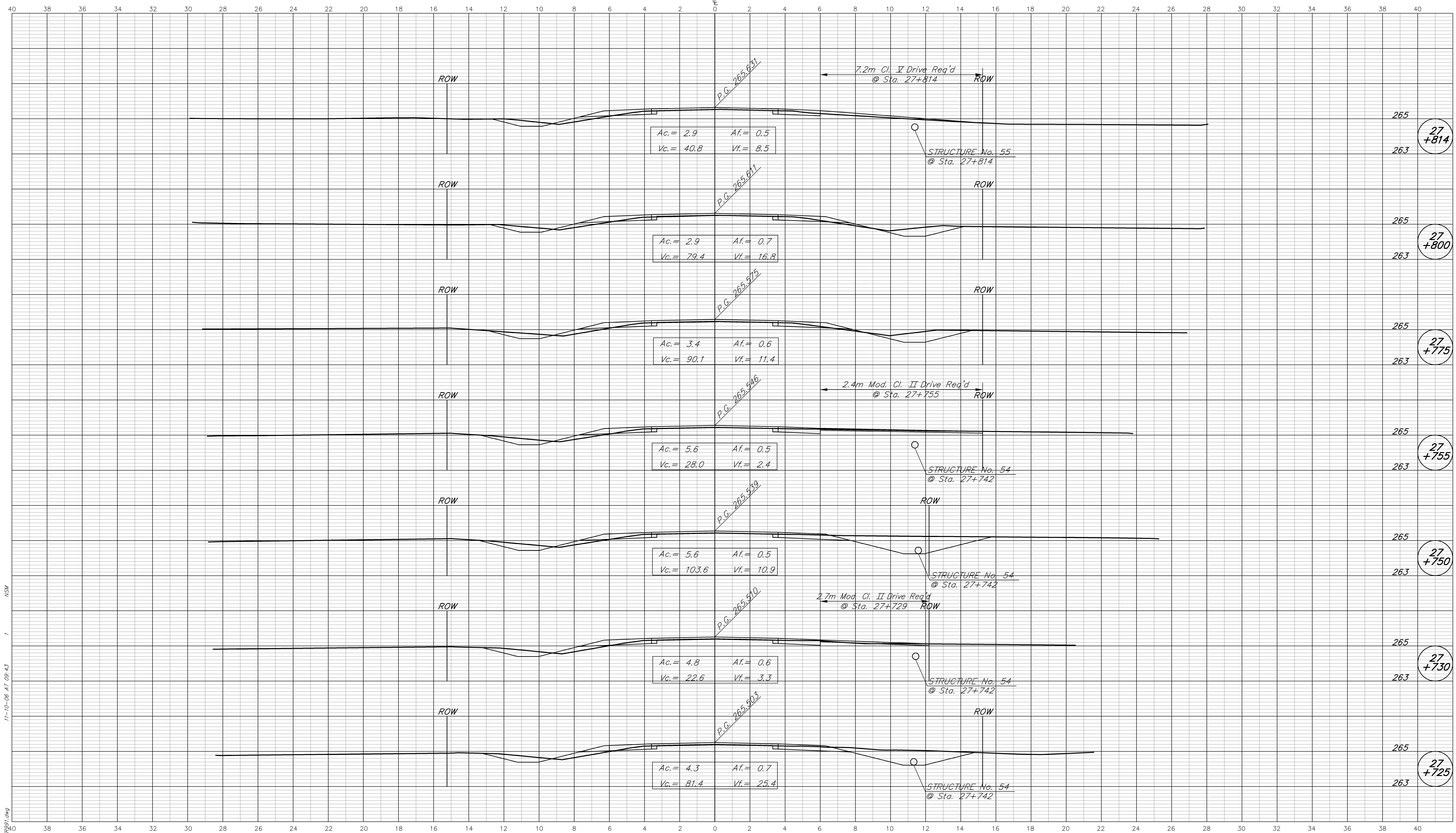
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

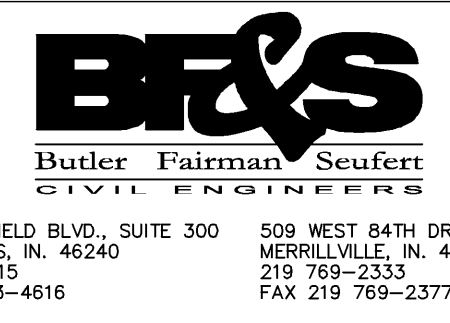
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 179 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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**CROSS SECTIONS**  
**LINE "A"**  
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 CHECKED: BZ CHECKED: MSL

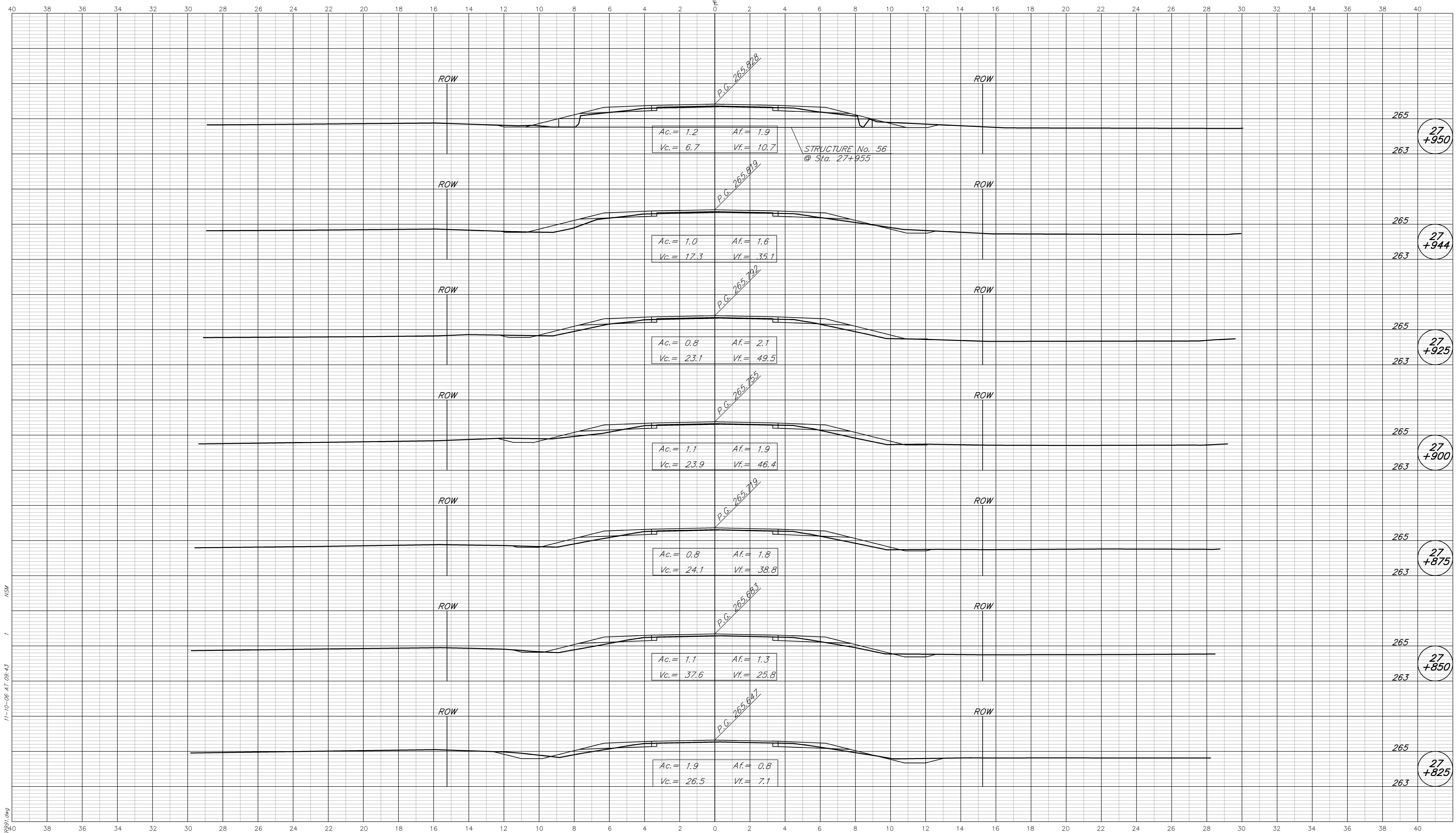
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:100	3783
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	180 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

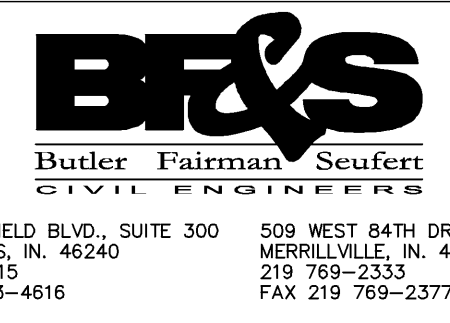
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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**CROSS SECTIONS  
LINE "A"**

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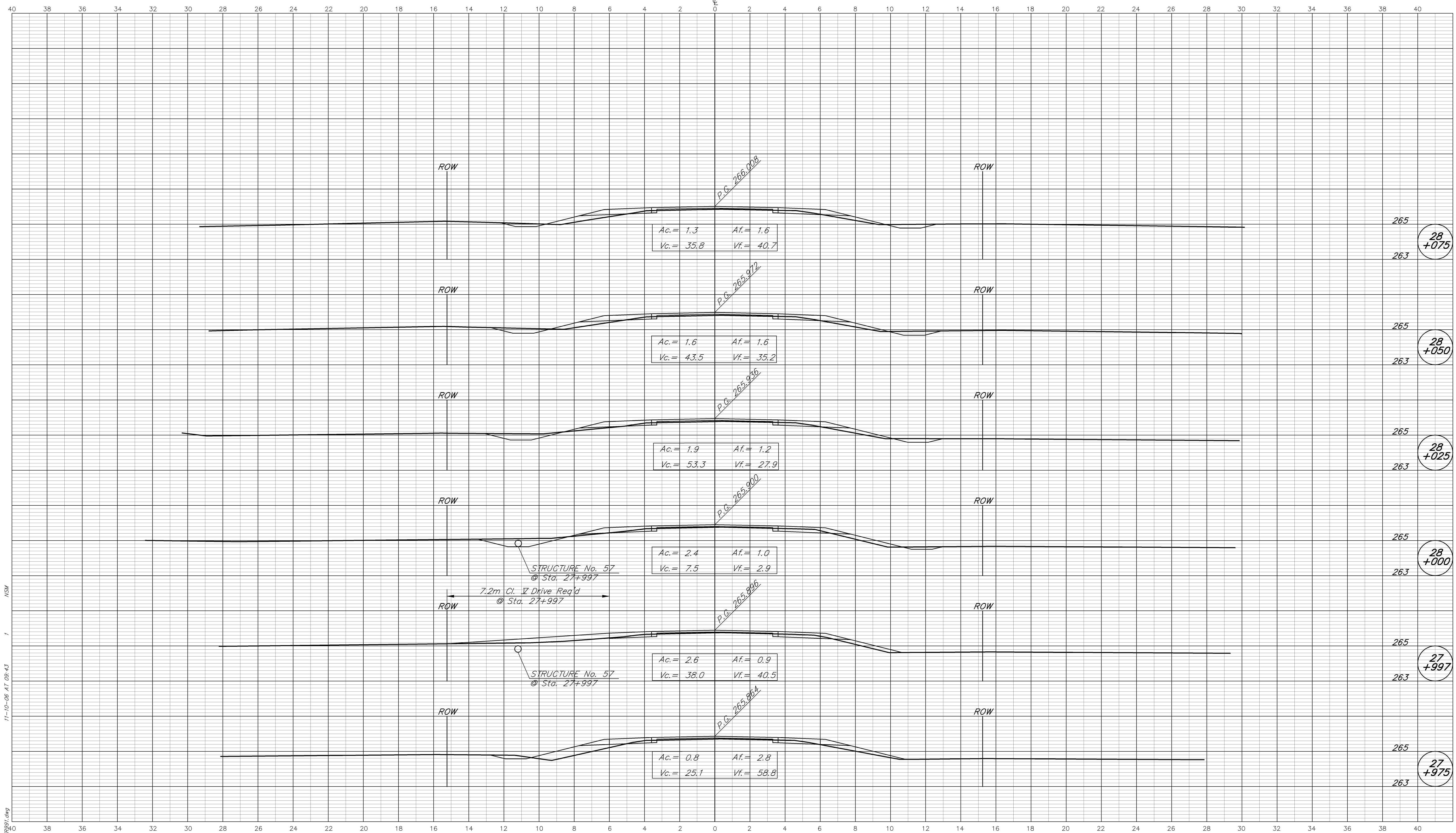
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STATE ROAD 37

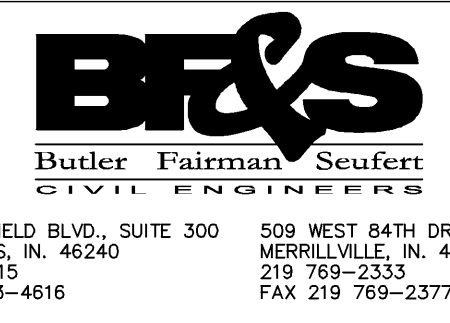
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CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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**CROSS SECTIONS LINE "A"**

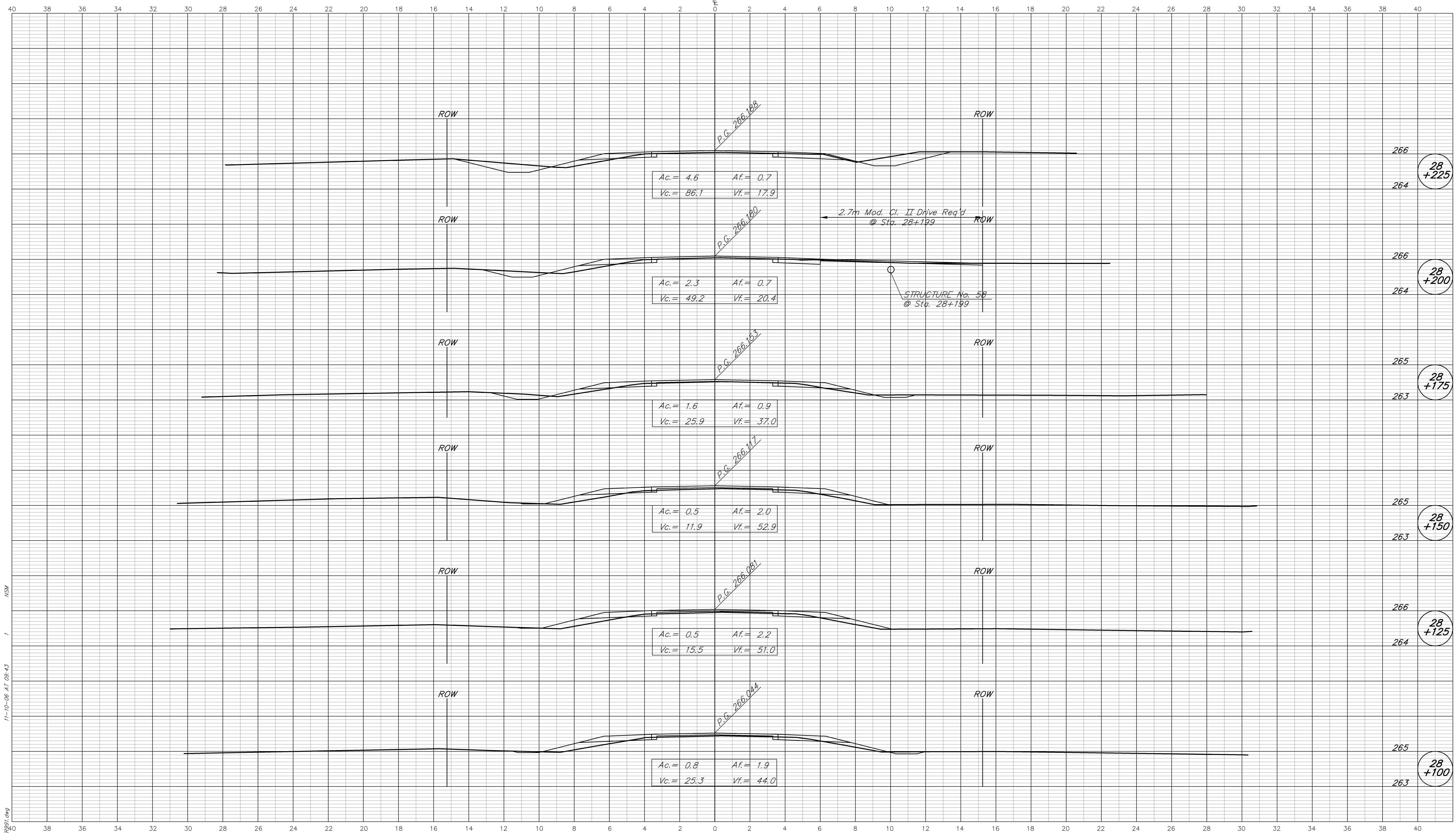
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INDIANA DEPARTMENT OF TRANSPORTATION  
STATE ROAD 37

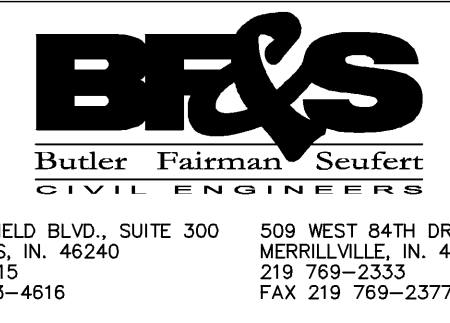
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 182 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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11-10-06 AT 09:43  
MSA



**CROSS SECTIONS  
LINE "A"**

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CHECKED: BZ CHECKED: MSL

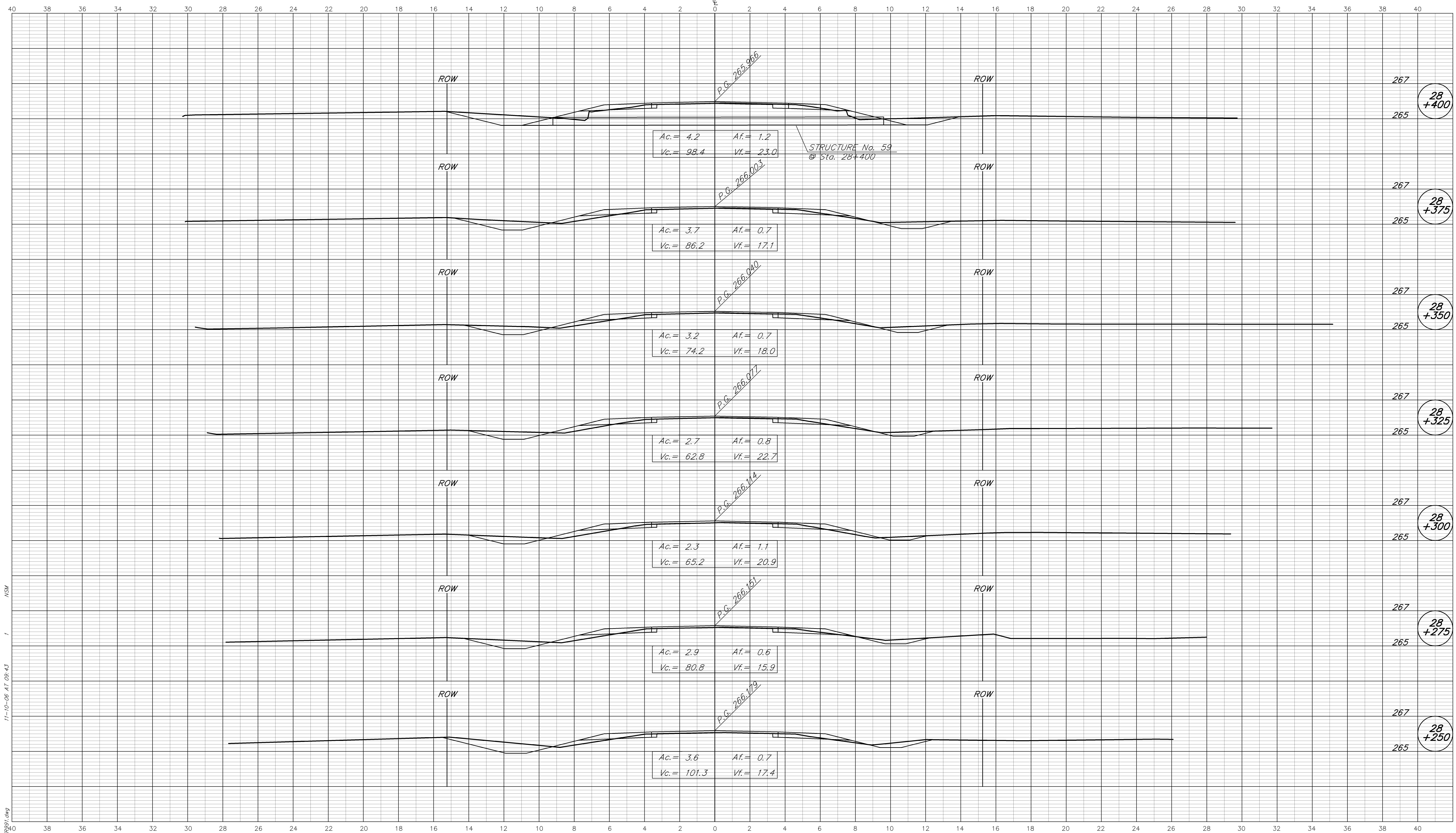
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

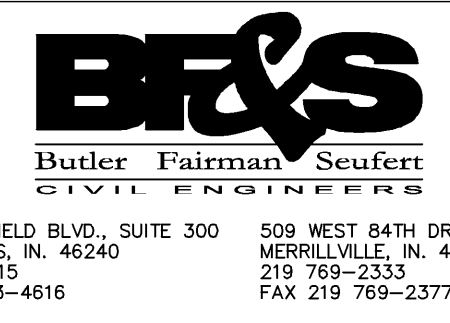
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SURVEY BOOK	SHEET
CONTRACT R-28934	183 OF 292 PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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INDIANA  
DEPARTMENT OF TRANSPORTATION

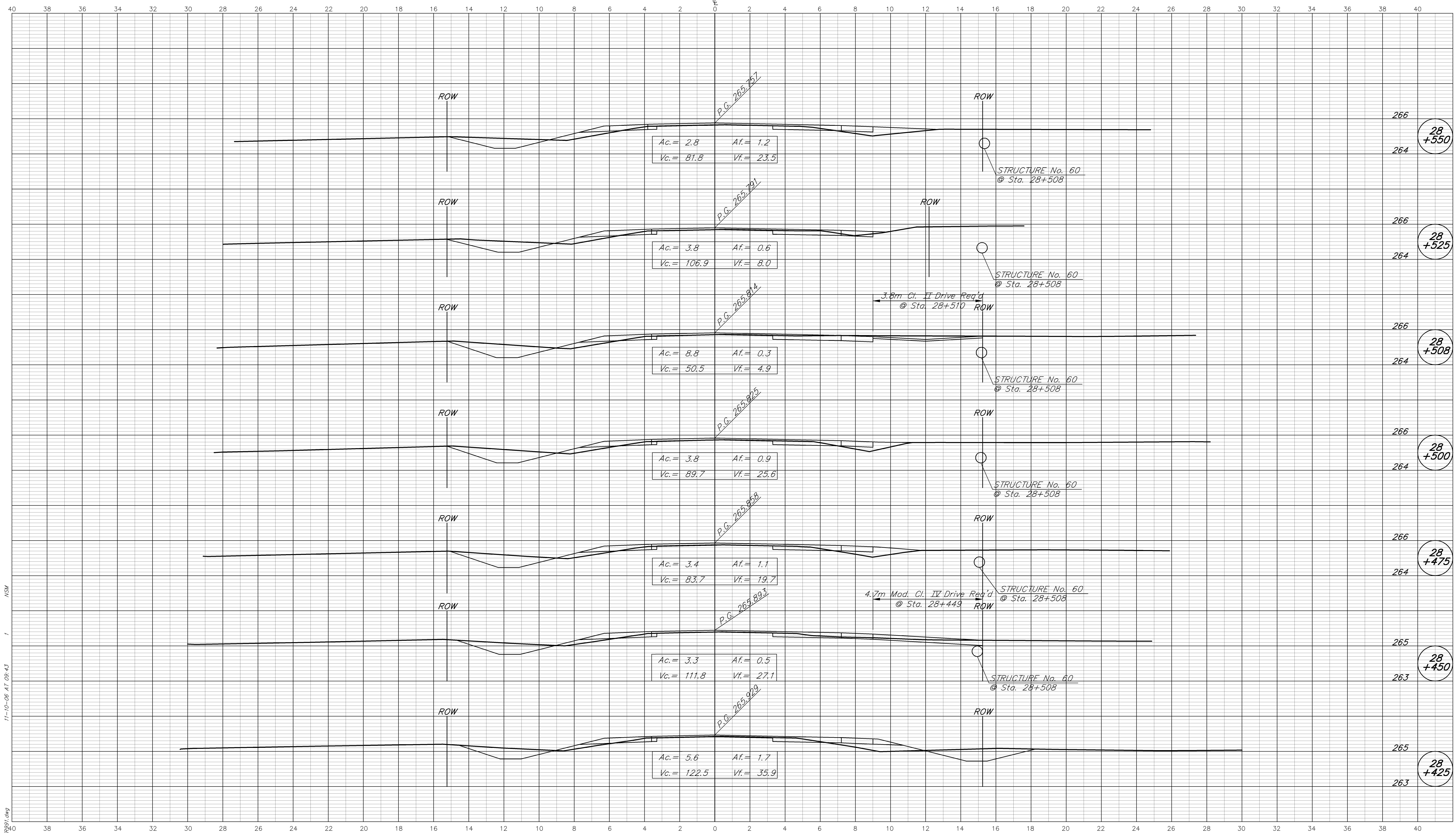
**STATE ROAD 37**

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VERTICAL SCALE 1:100	DESIGNATION 9706580
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CONTRACT R-28934	PROJECT STP/097-9(005)

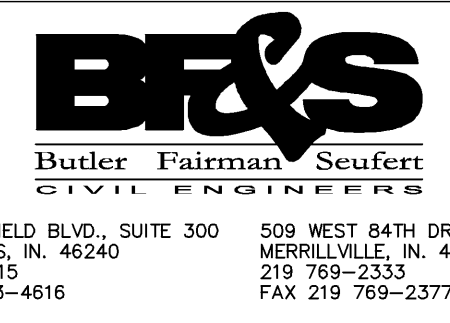
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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CROSS SECTIONS  
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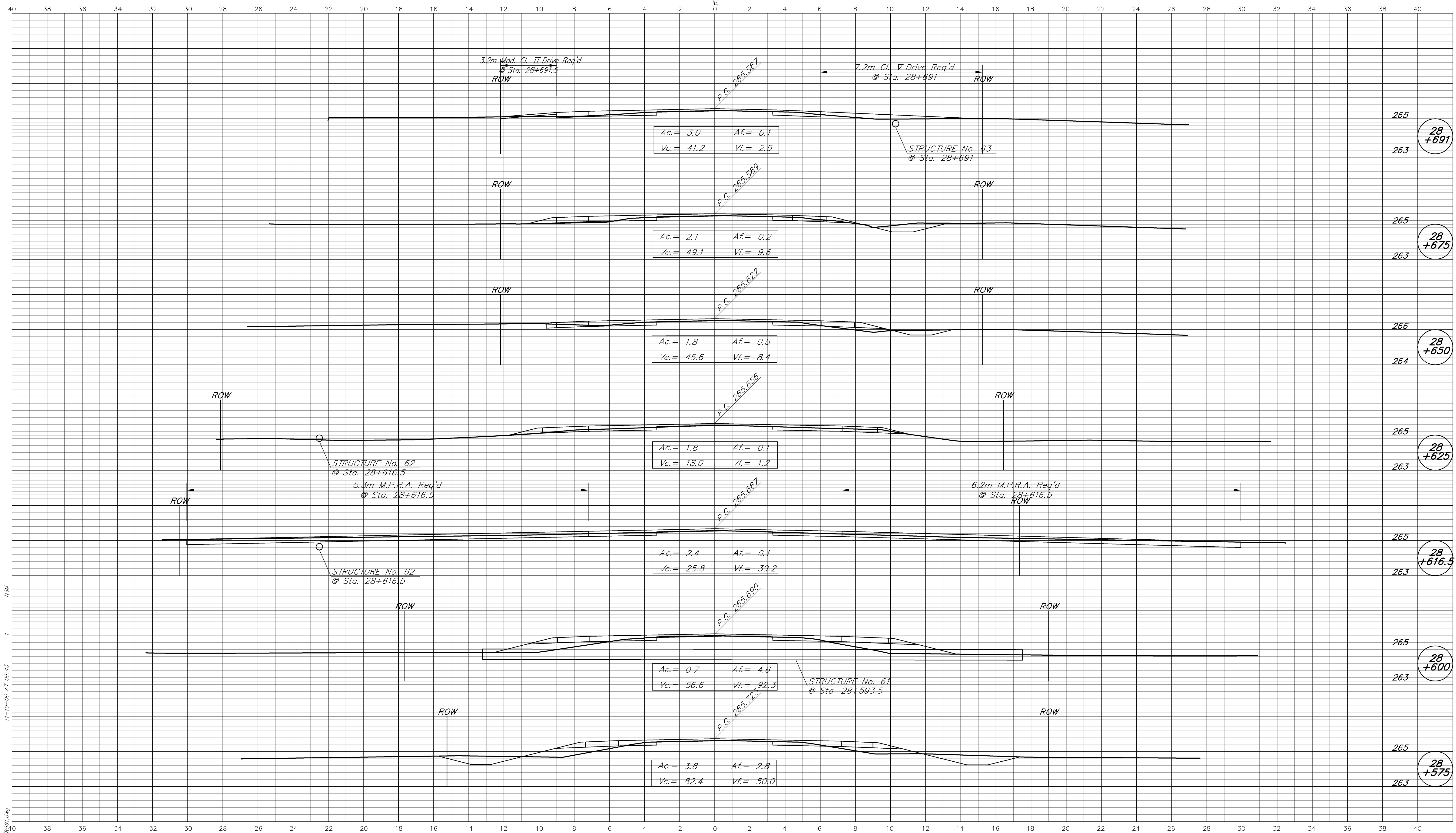
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 185 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



R: L:\3783\AUTOCAD\ROAD\3783.dwg  
11-10-06 AT 09:43  
MSA

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CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

**CROSS SECTIONS  
LINE "A"**

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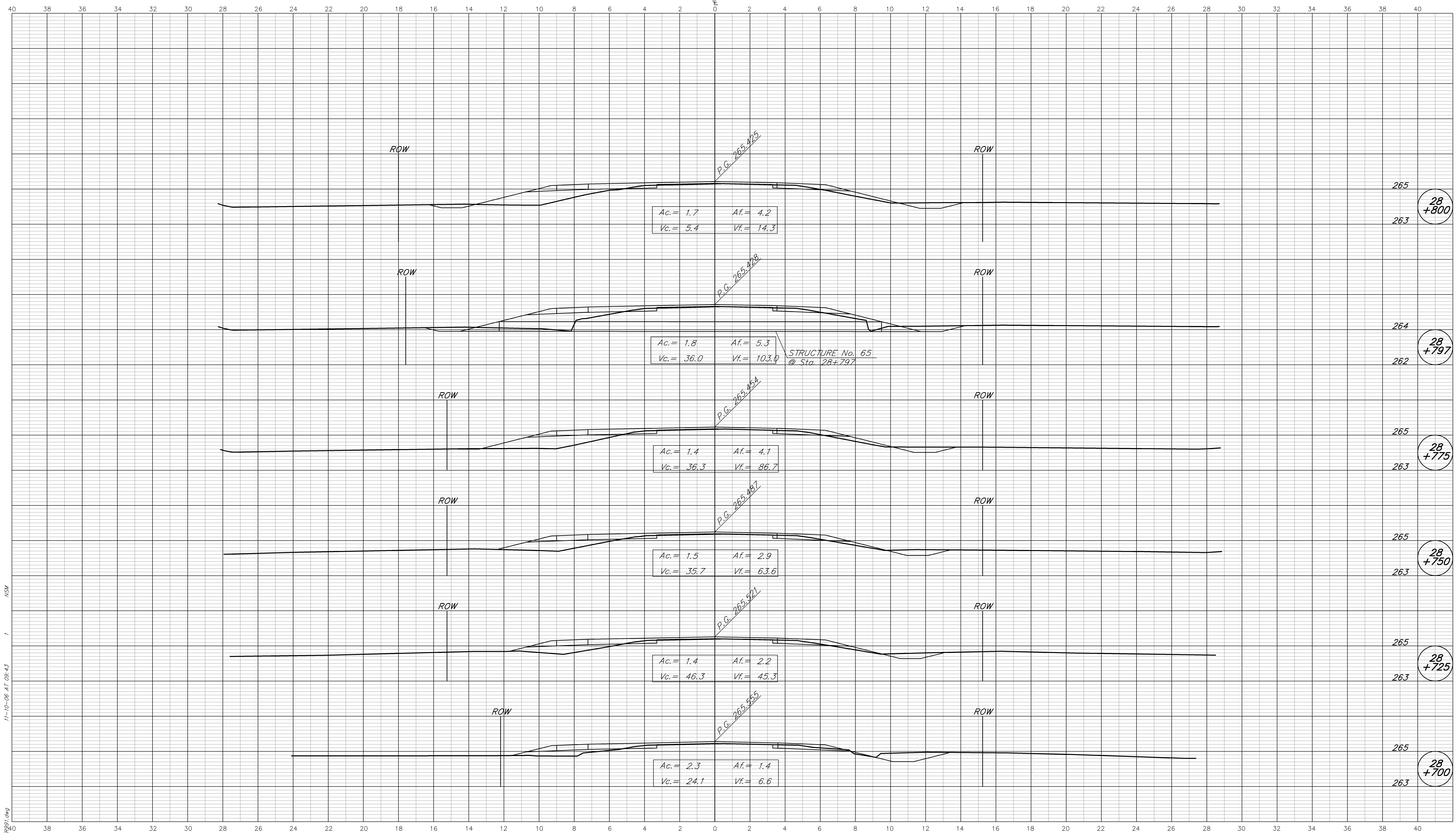
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**STATE ROAD 37**

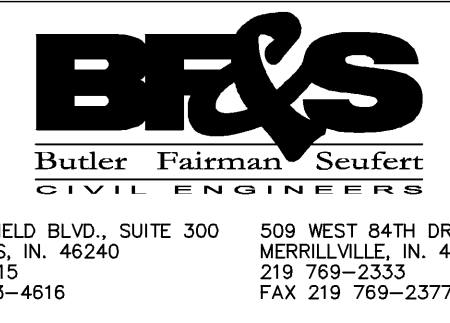
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SURVEY BOOK	SHEET 186 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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**CROSS SECTIONS LINE "A"**

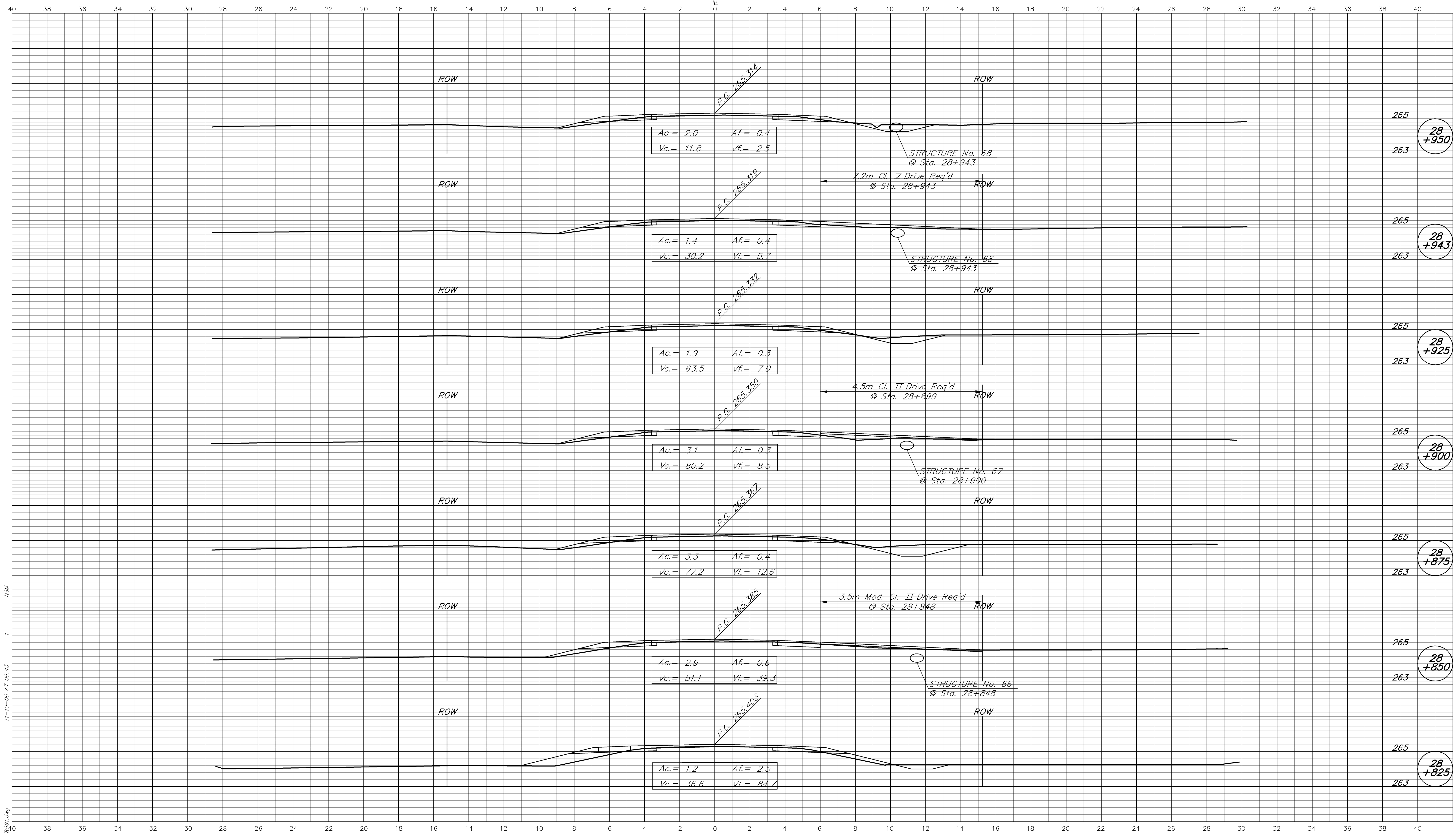
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 187 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 09:43  
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CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

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CHECKED: BZ	CHECKED: MSL

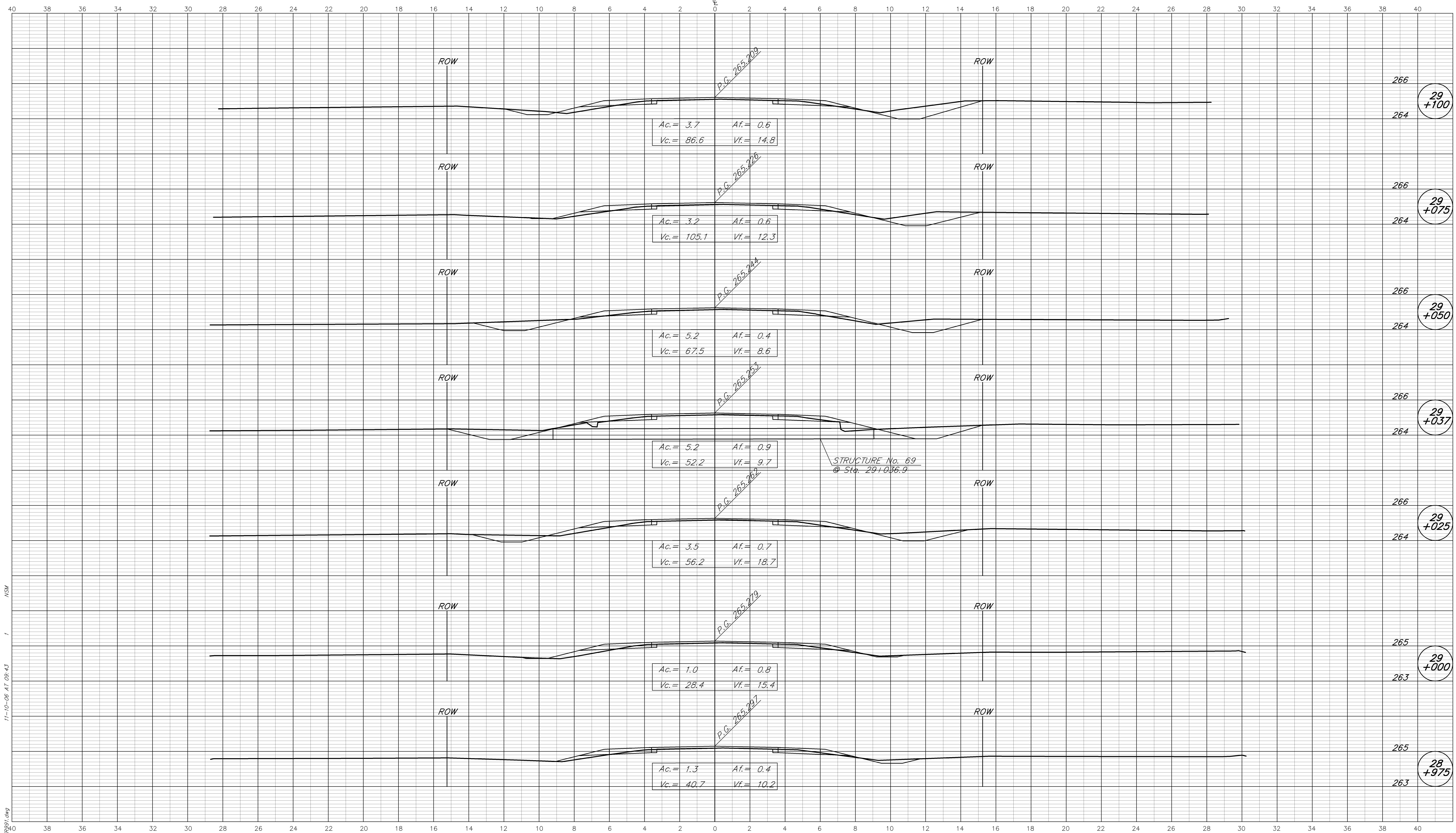
INDIANA DEPARTMENT OF TRANSPORTATION  
**STATE ROAD 37**

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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 188 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

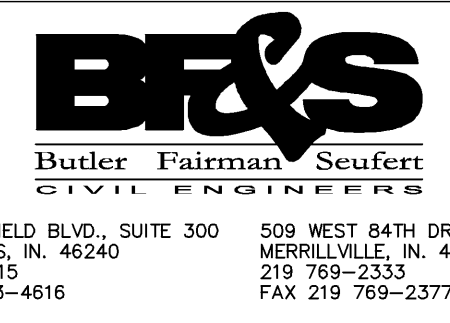
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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 MSL



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317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

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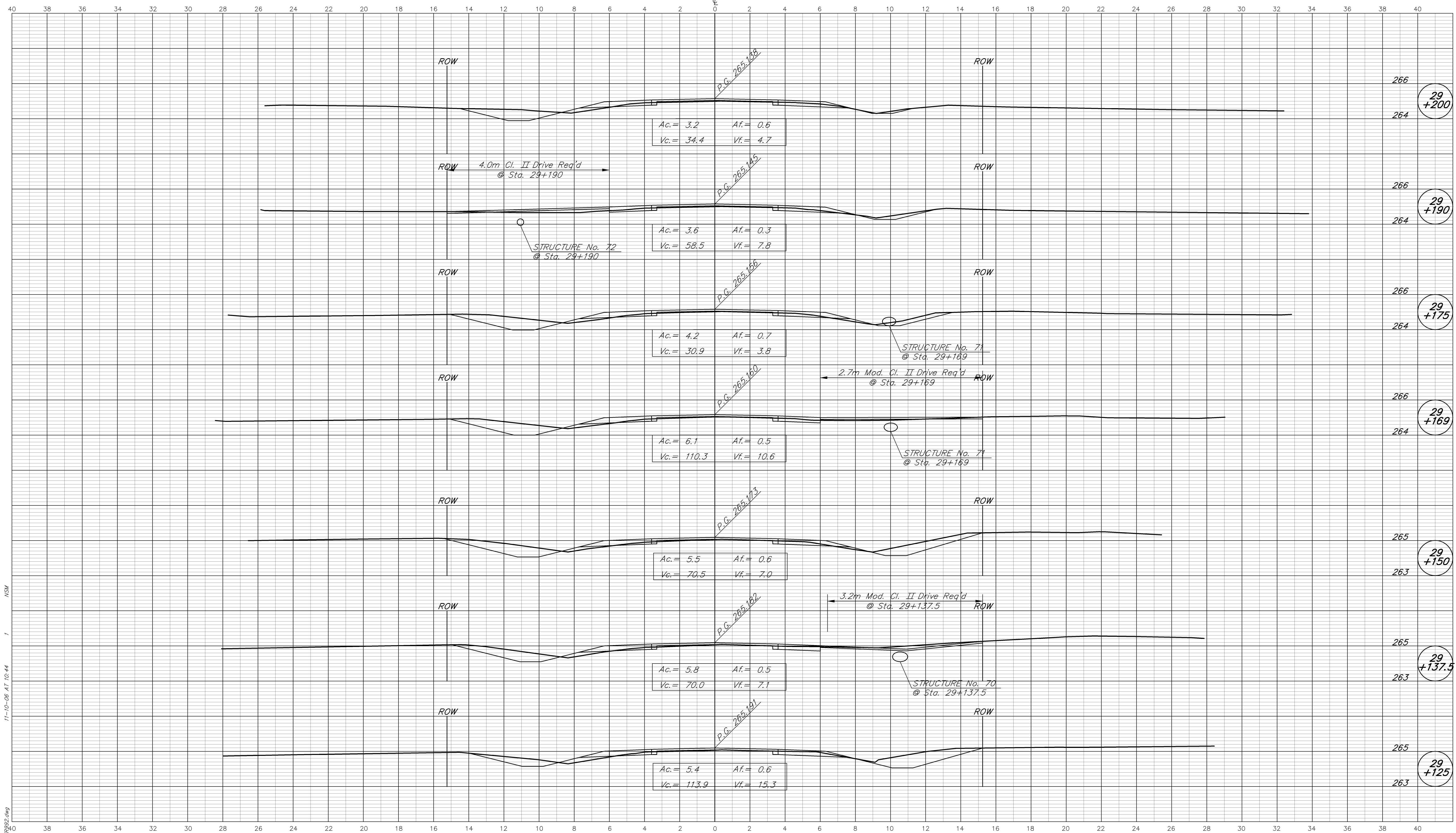
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STATE ROAD 37

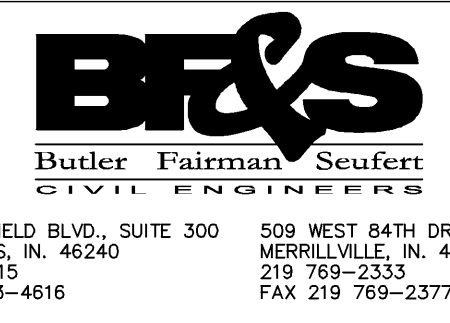
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SURVEY BOOK	SHEET 189 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:44  
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CROSS SECTIONS  
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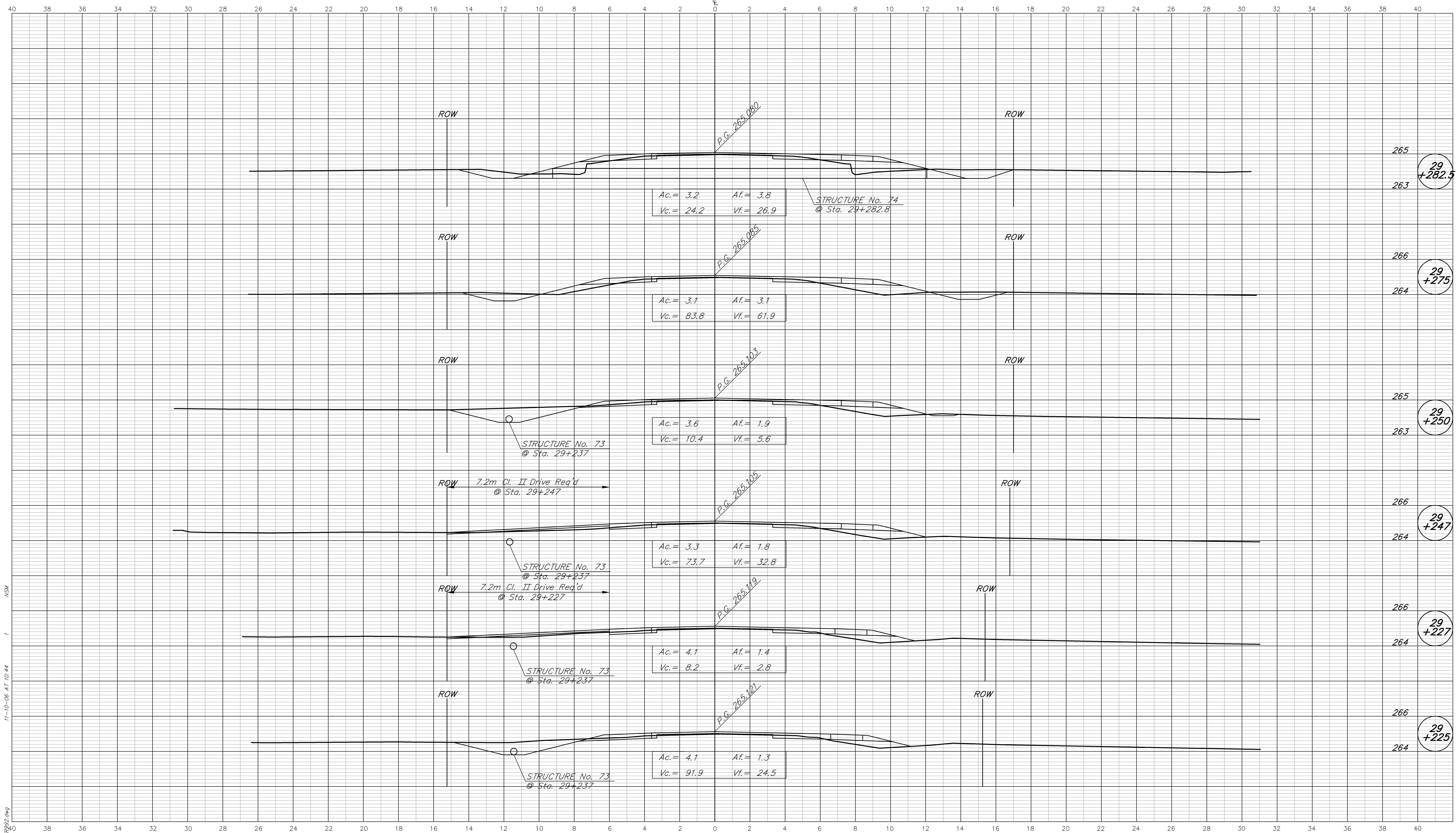
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STATE ROAD 37

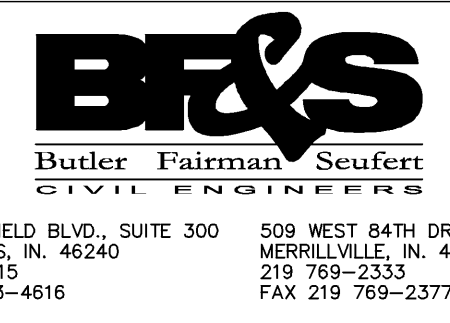
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SURVEY BOOK	SHEET 190 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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**CROSS SECTIONS LINE "A"**

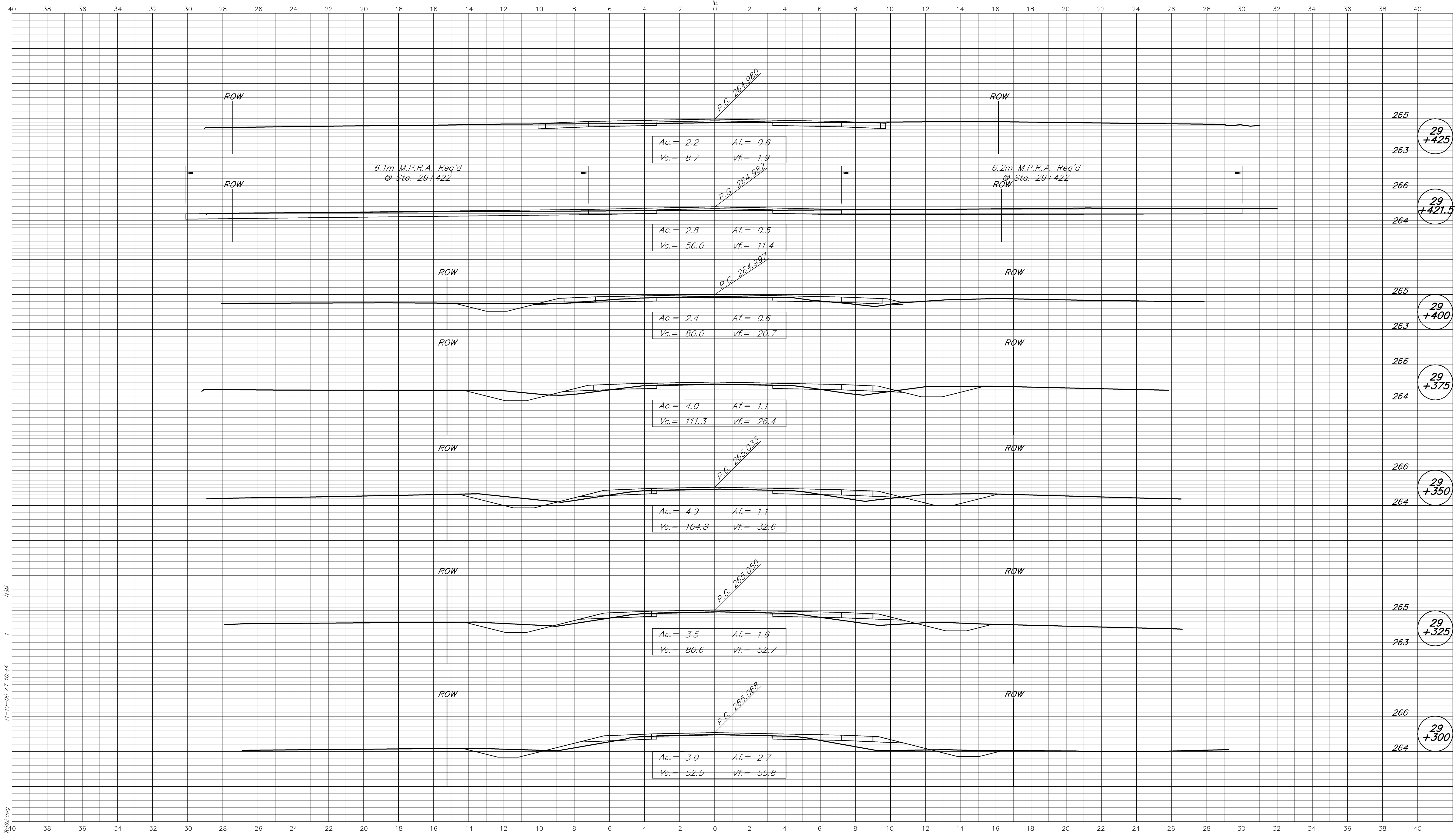
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

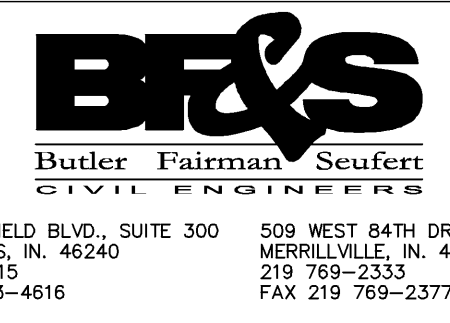
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SURVEY BOOK	SHEET 191 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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INDIANA  
DEPARTMENT OF TRANSPORTATION

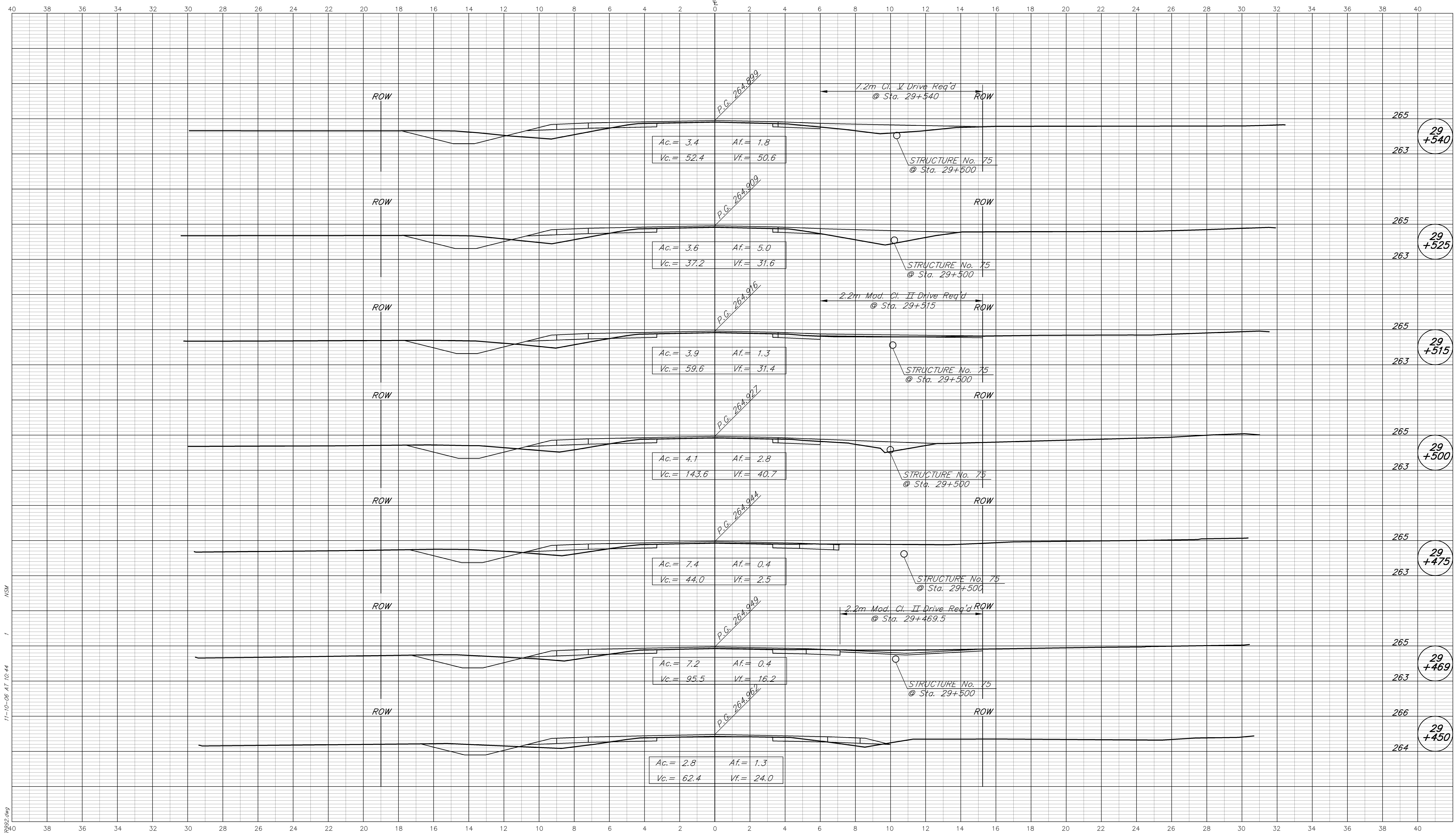
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CONTRACT R-28934	PROJECT STP/097-9(005)

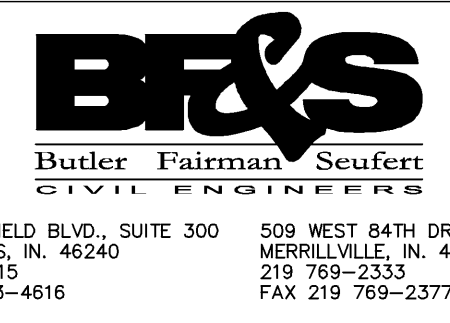
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:44  
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**CROSS SECTIONS  
LINE "A"**

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CHECKED: BZ CHECKED: MSL

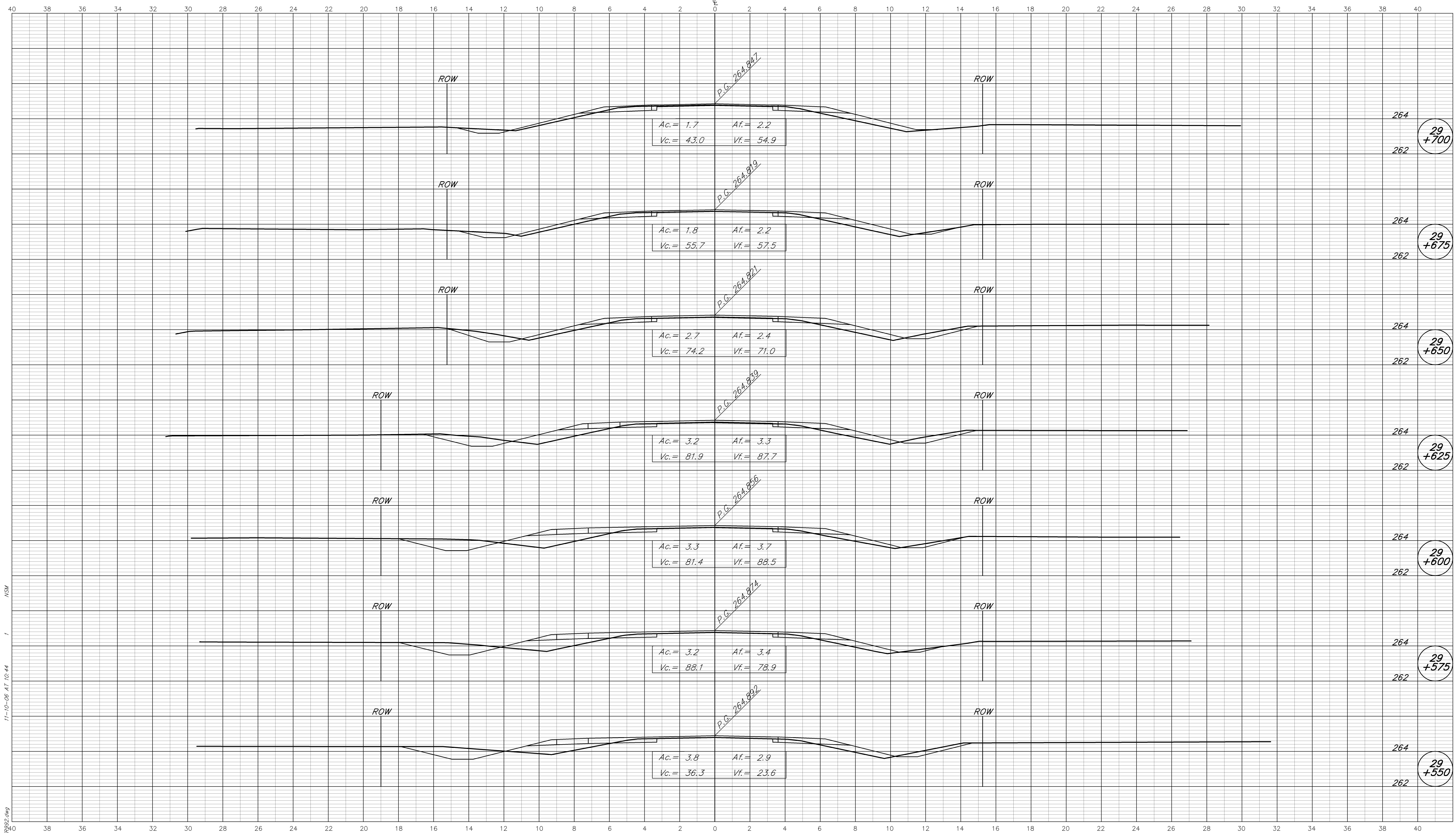
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

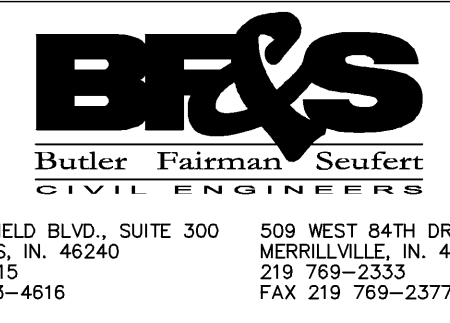
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SURVEY BOOK	SHEET 193 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
 R:\3783\AUTOCAD\ROAD\3783\922.dwg  
 1  
 154



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615  
 509 WEST 84TH DRIVE, SUITE 6 MERRILLVILLE, IN. 46410  
 219 769-2333  
 FAX 317 713-4616 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

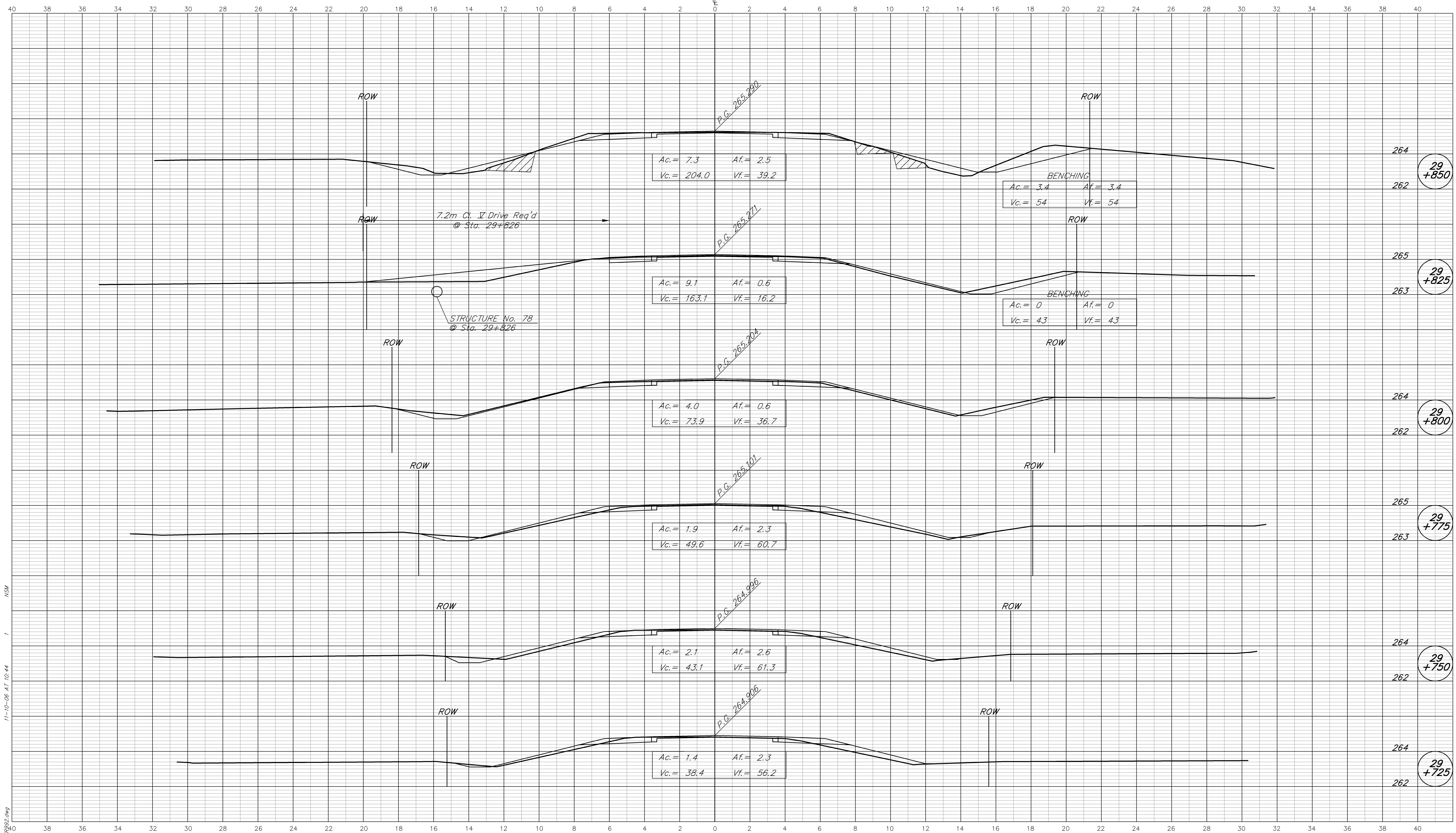
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

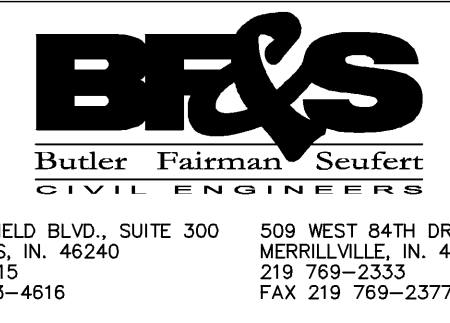
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	194 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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**CROSS SECTIONS LINE "A"**

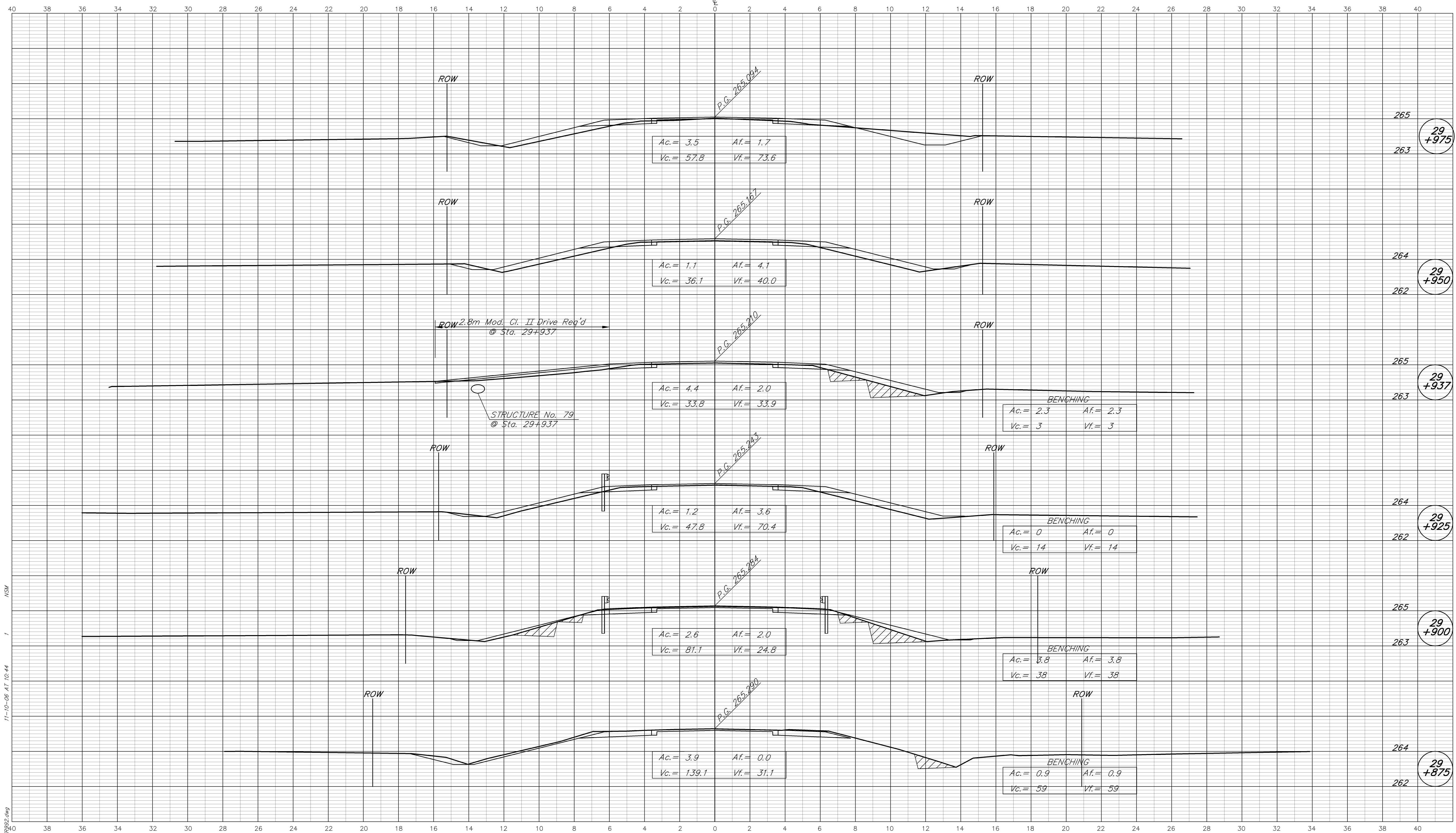
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

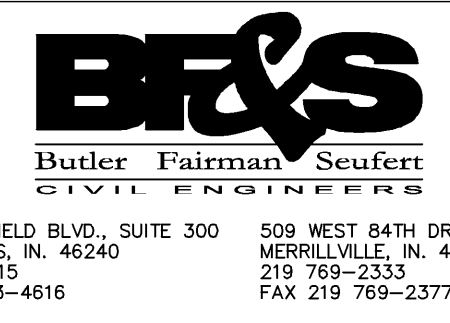
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SURVEY BOOK	SHEET
	195 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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11-10-06 AT 10:44  
MSA



CROSS SECTIONS  
LINE "A"  
DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

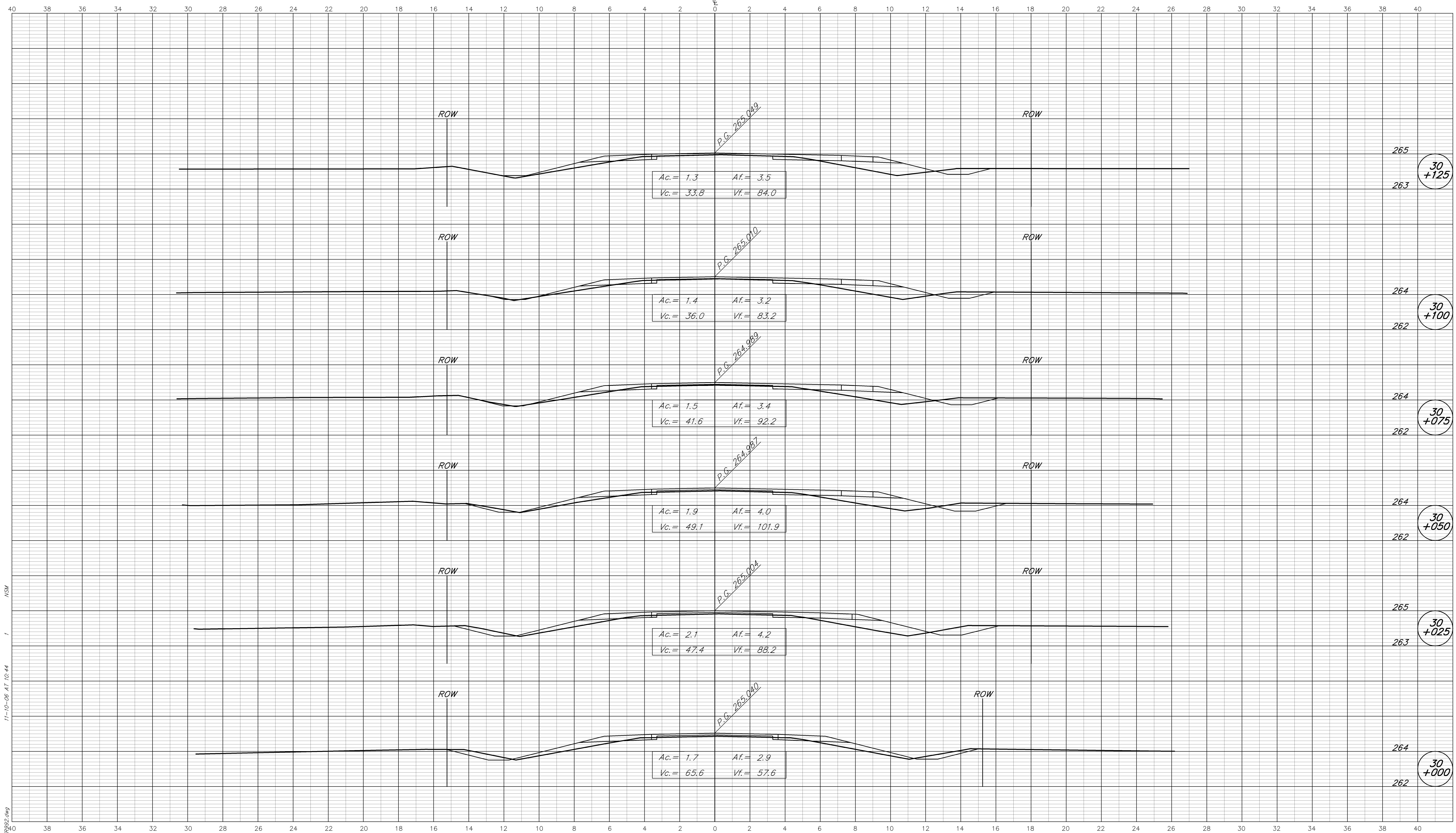
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DEPARTMENT OF TRANSPORTATION  
STATE ROAD 37

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SURVEY BOOK	SHEET 196 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

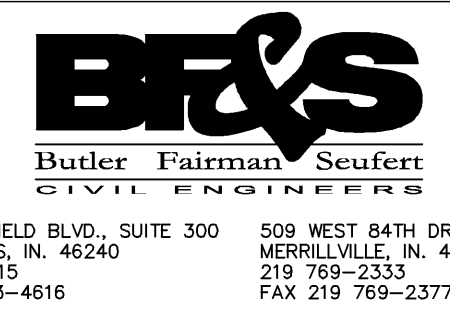
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Scale 1:100 (METRIC)



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**CROSS SECTIONS  
LINE "A"**

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

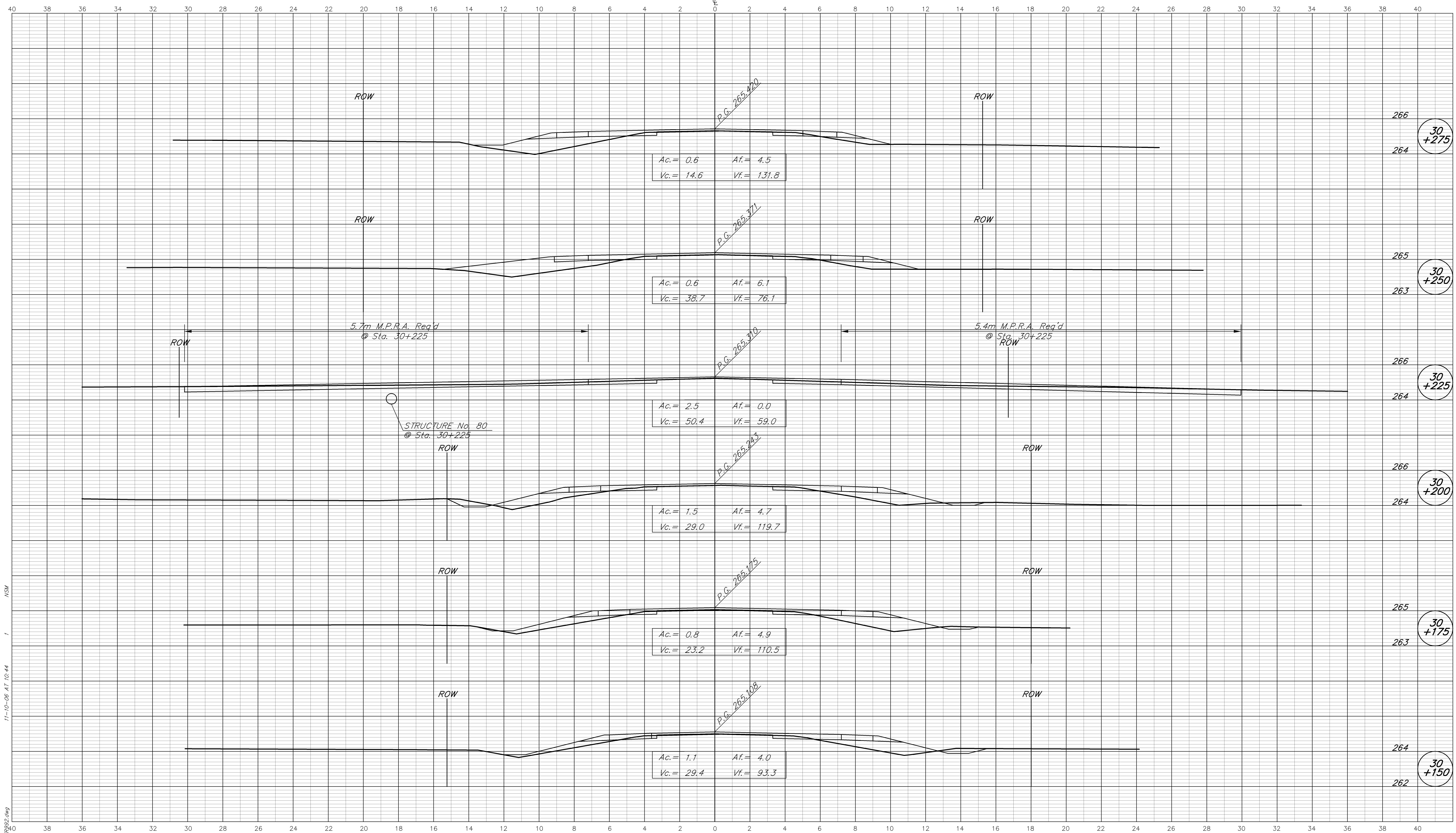
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DEPARTMENT OF TRANSPORTATION**

**STATE ROAD 37**

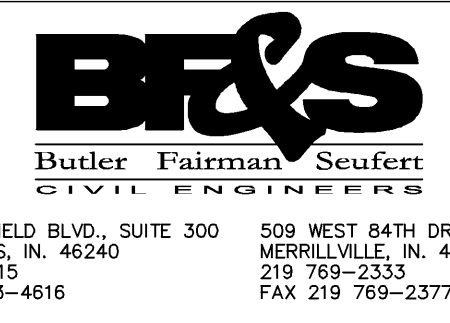
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SURVEY BOOK	SHEET 197 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

**CROSS SECTIONS  
LINE "A"**

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

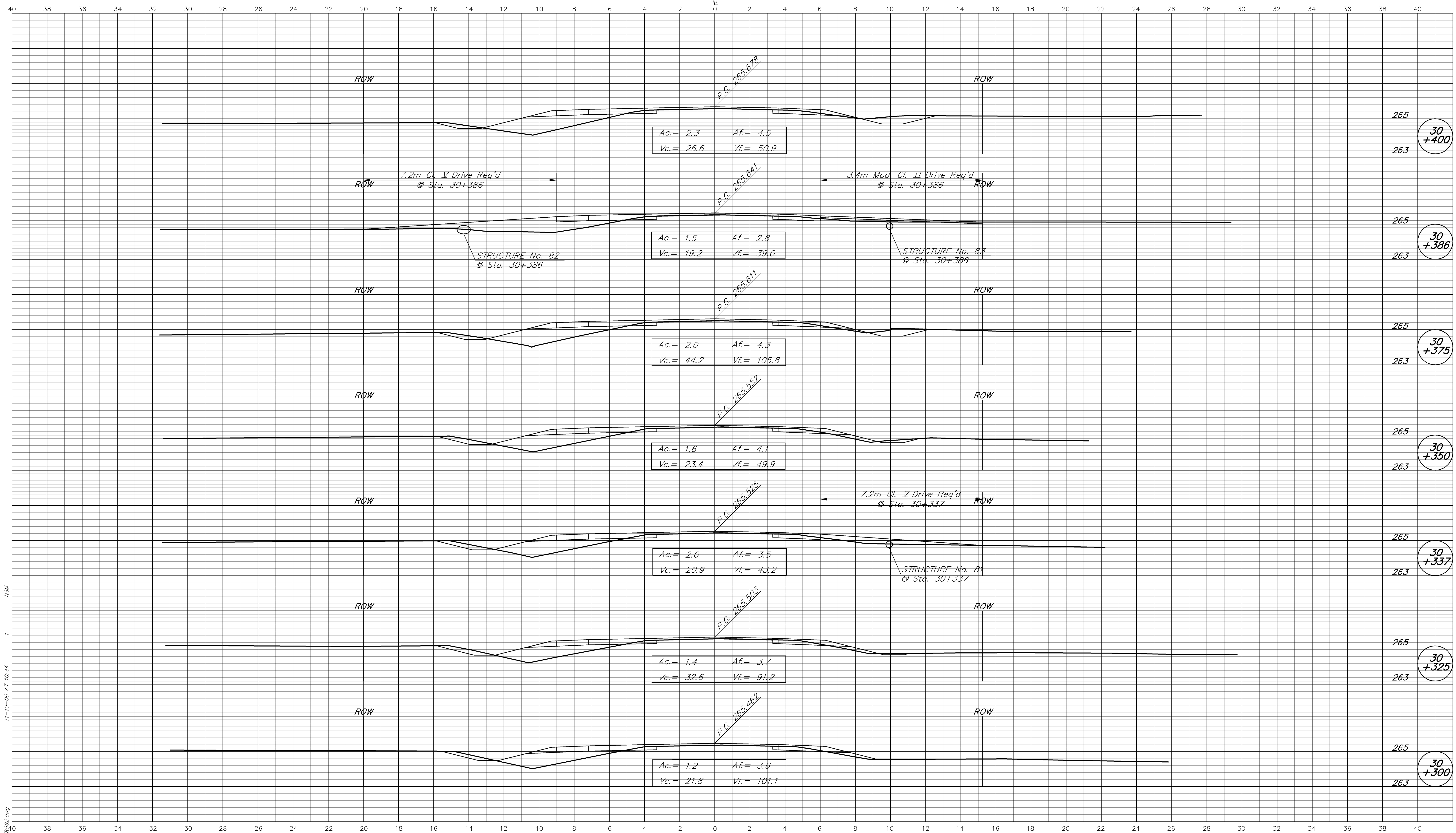
INDIANA  
DEPARTMENT OF TRANSPORTATION

**STATE ROAD 37**

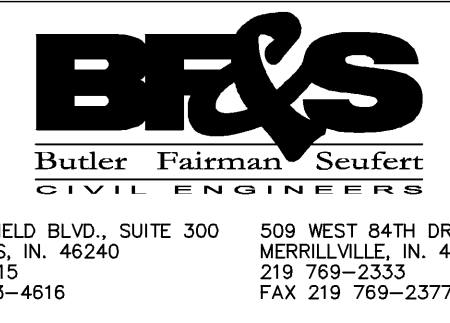
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 198 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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**CROSS SECTIONS  
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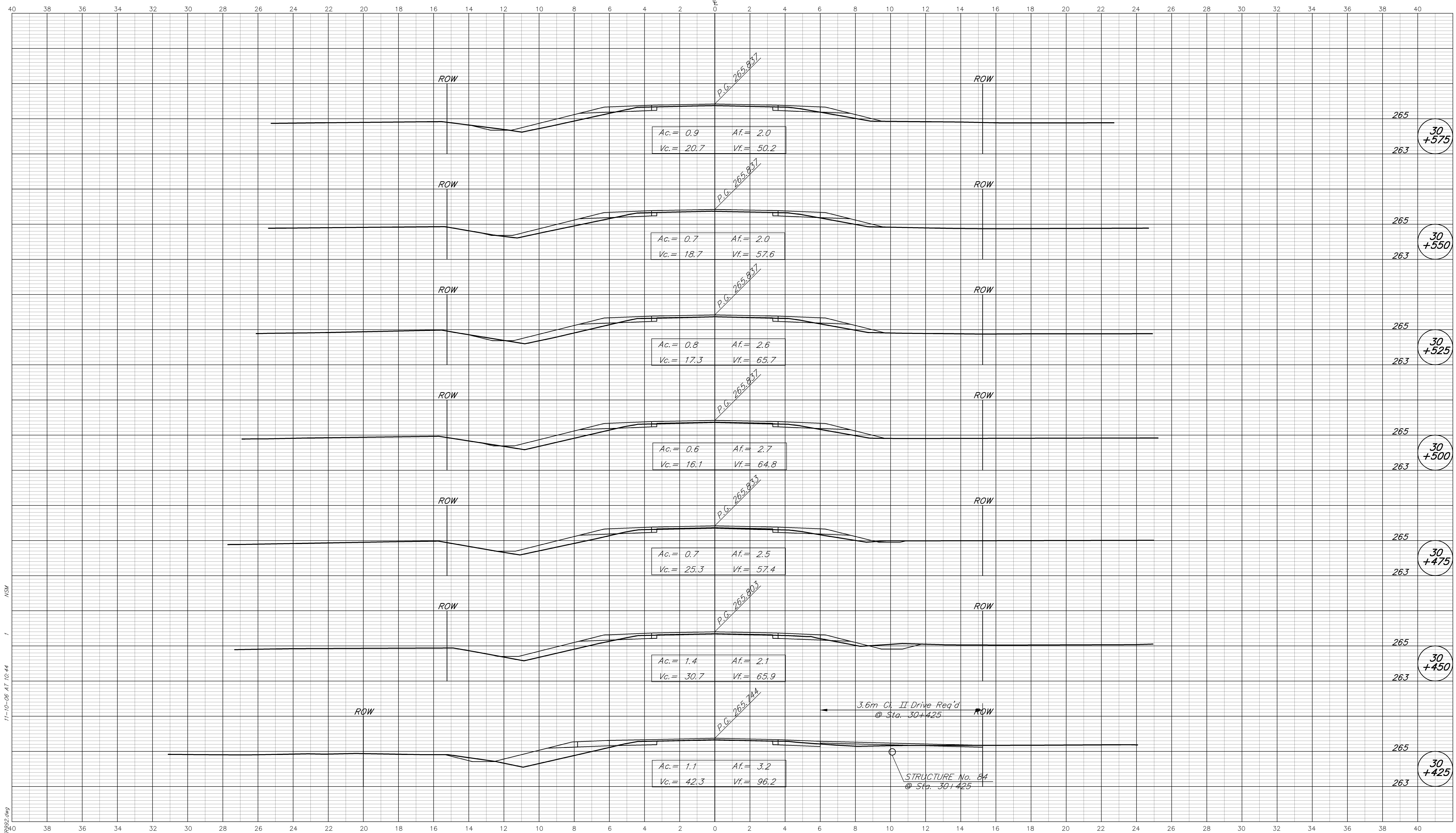
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INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
 STATE ROAD 37

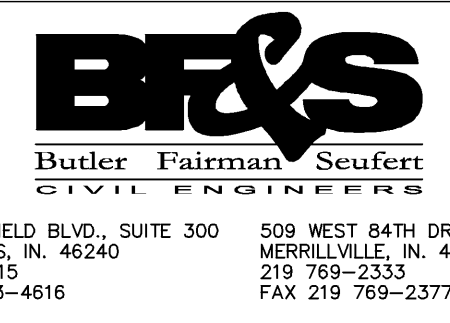
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 199 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

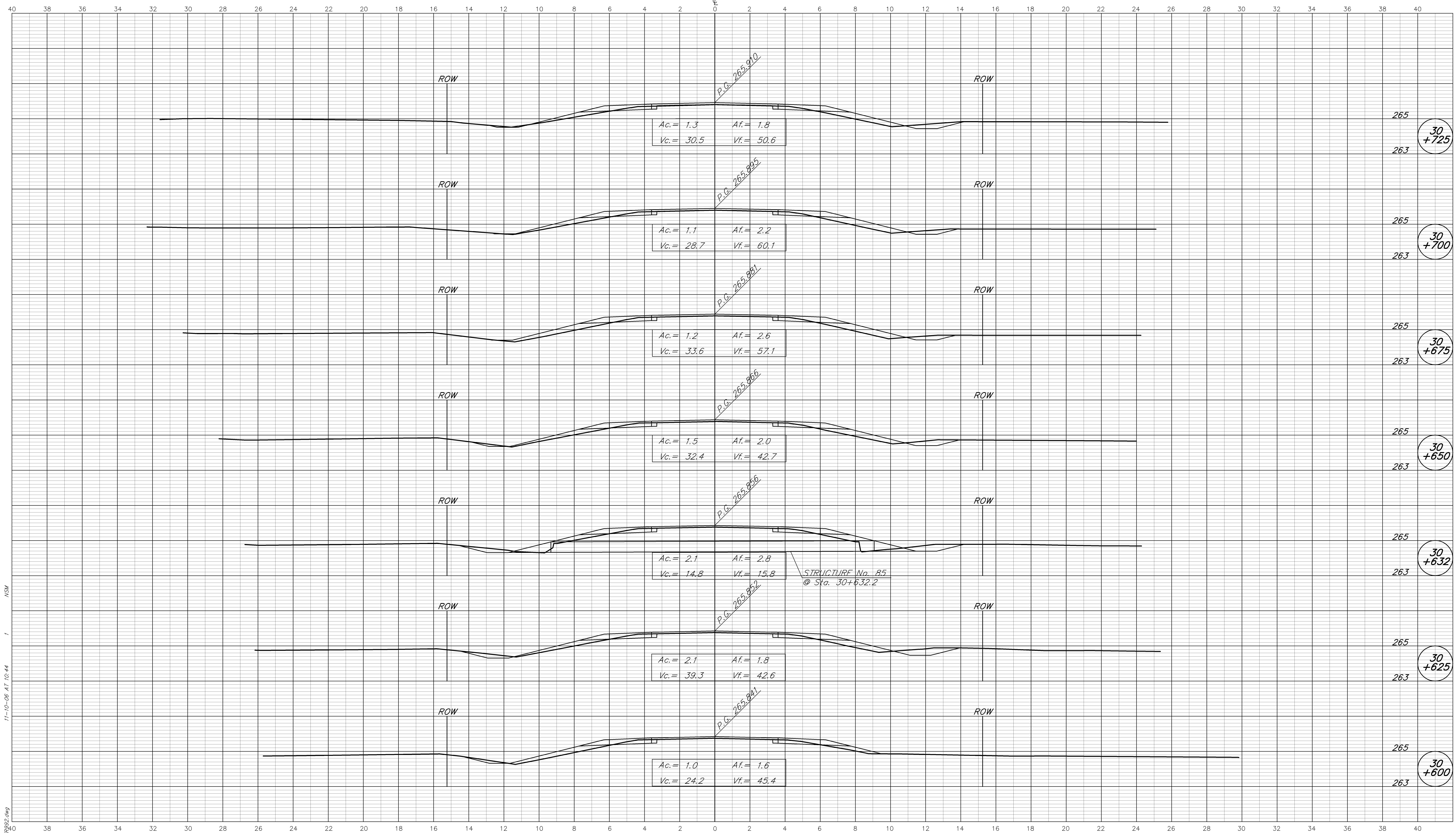
STATE ROAD 37

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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 200 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

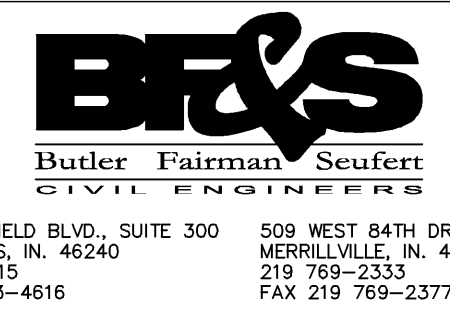
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 MSJ



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
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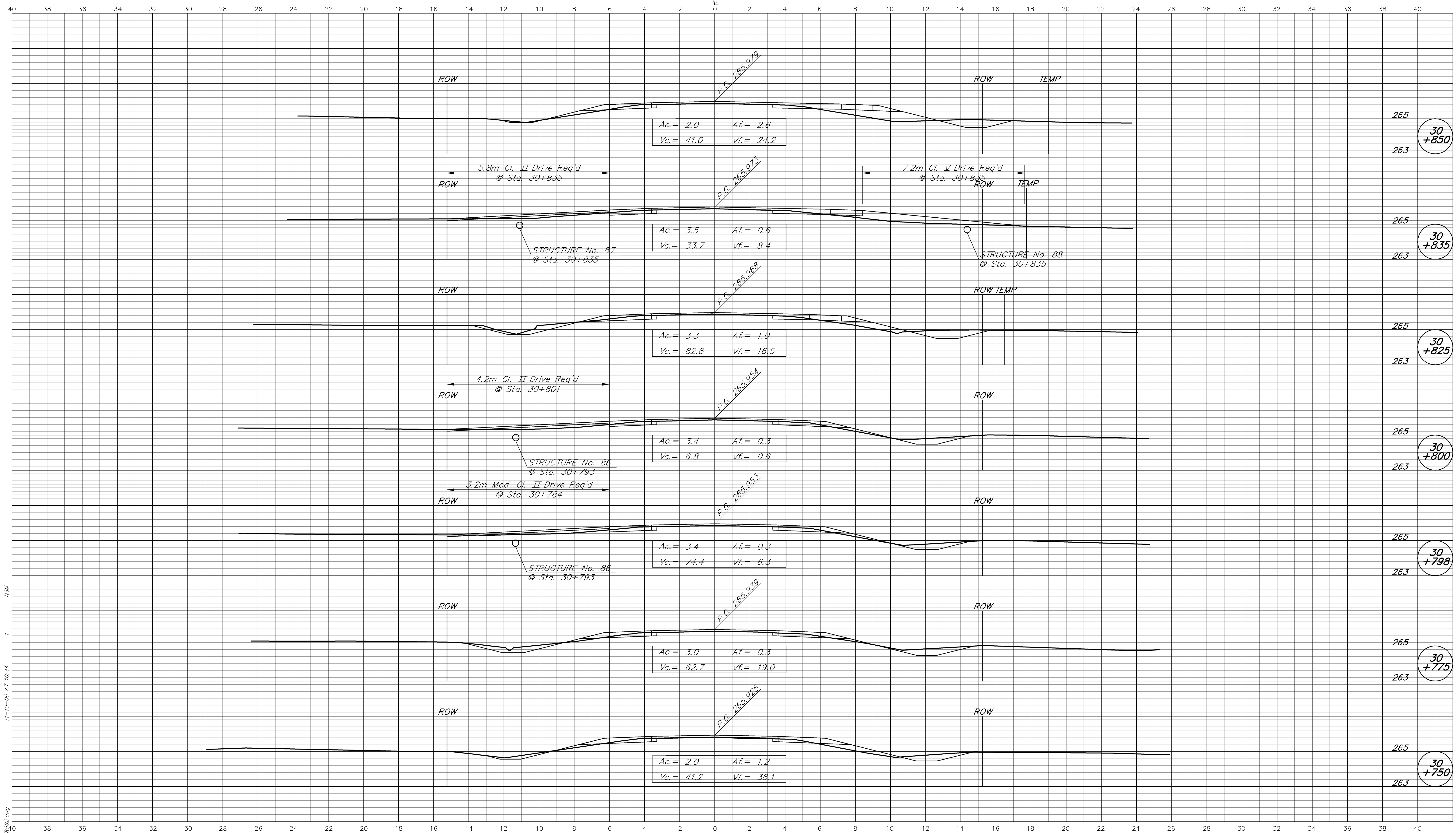
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

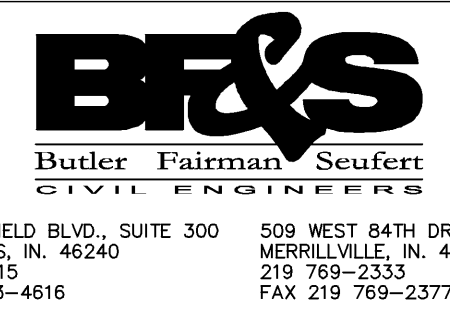
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SURVEY BOOK	SHEET 201 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT                      CROSS SECTIONS                      FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:44  
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**CROSS SECTIONS  
LINE "A"**

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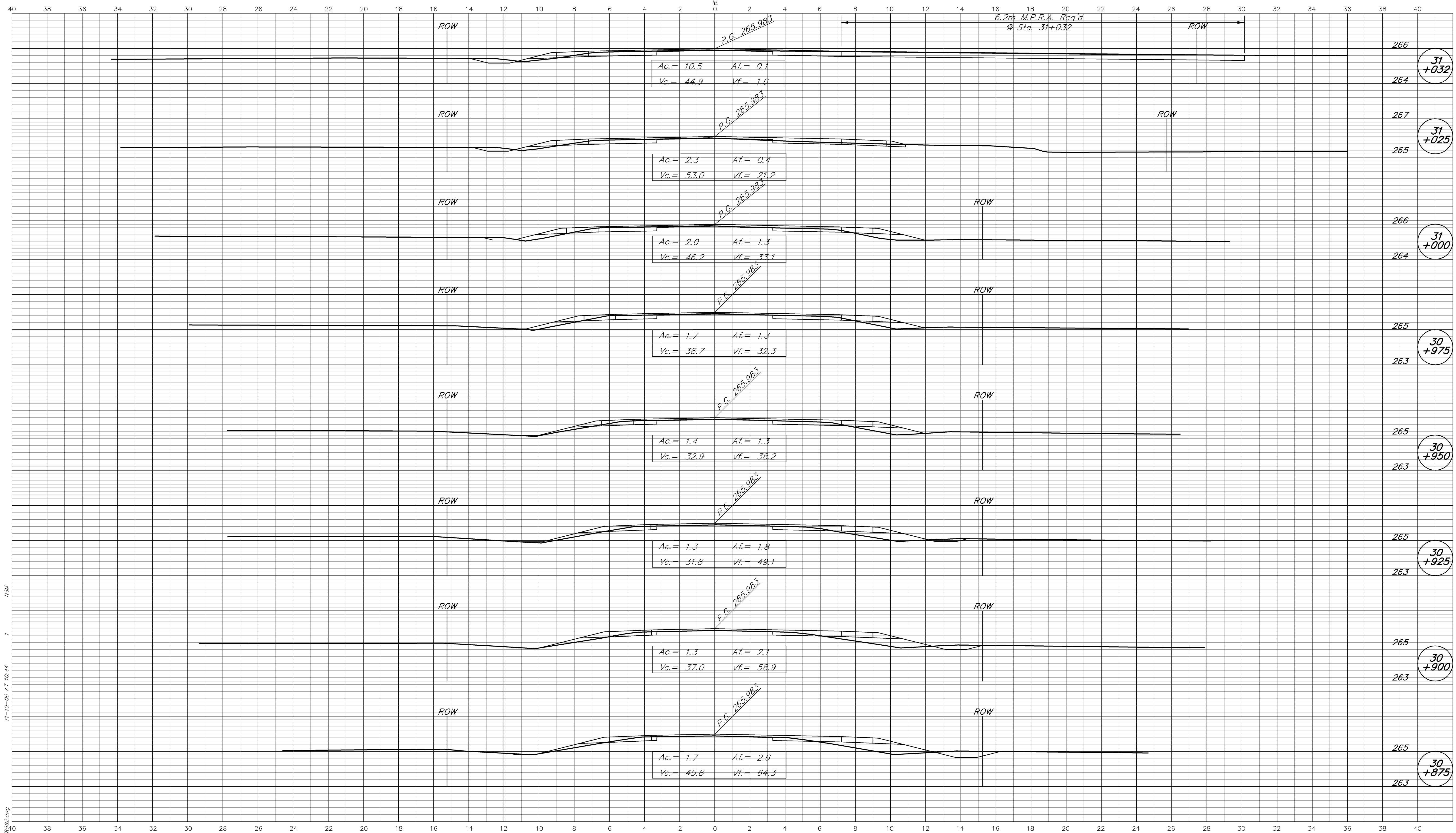
INDIANA  
DEPARTMENT OF TRANSPORTATION

**STATE ROAD 37**

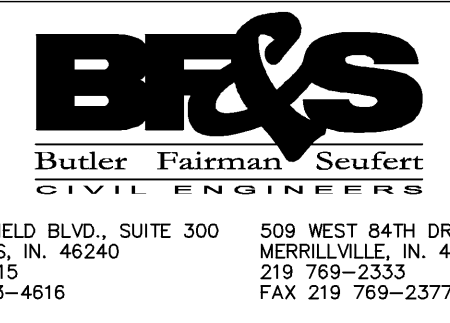
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SURVEY BOOK	SHEET 202 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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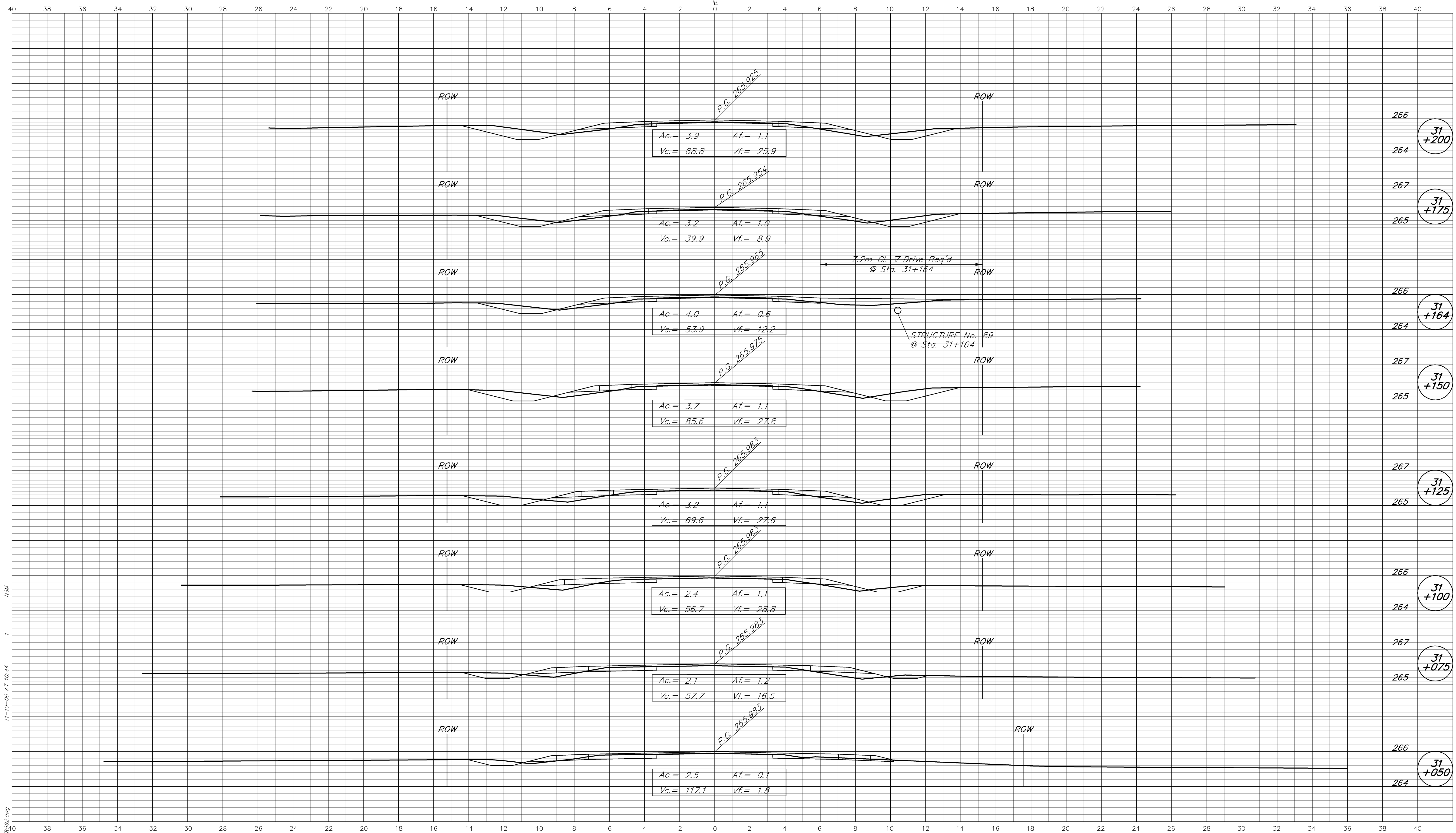


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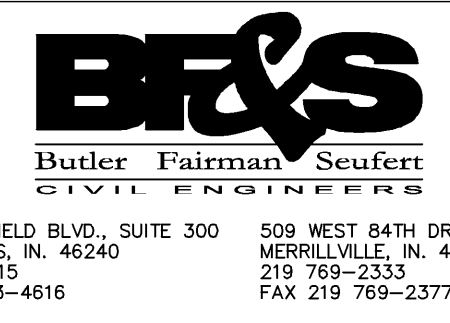
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

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VERTICAL SCALE	DESIGNATION	SHEET
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SURVEY BOOK	PROJECT	292
R-28934	STP/097-9(005)	

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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**CROSS SECTIONS LINE "A"**

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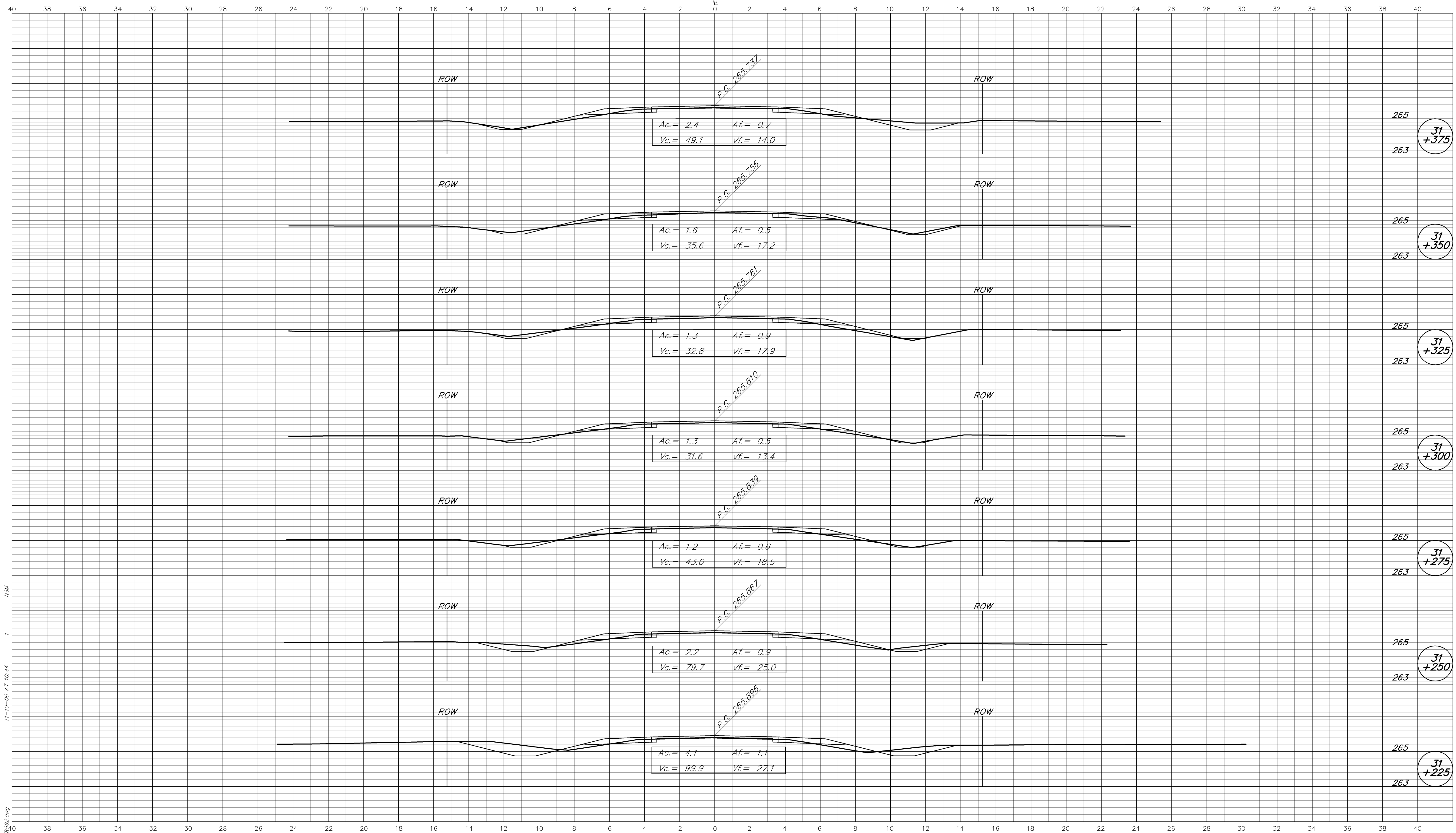
INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 204 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
 R:\3783\AUTOCAD\ROAD\3783\922.dwg  
 MSJ

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

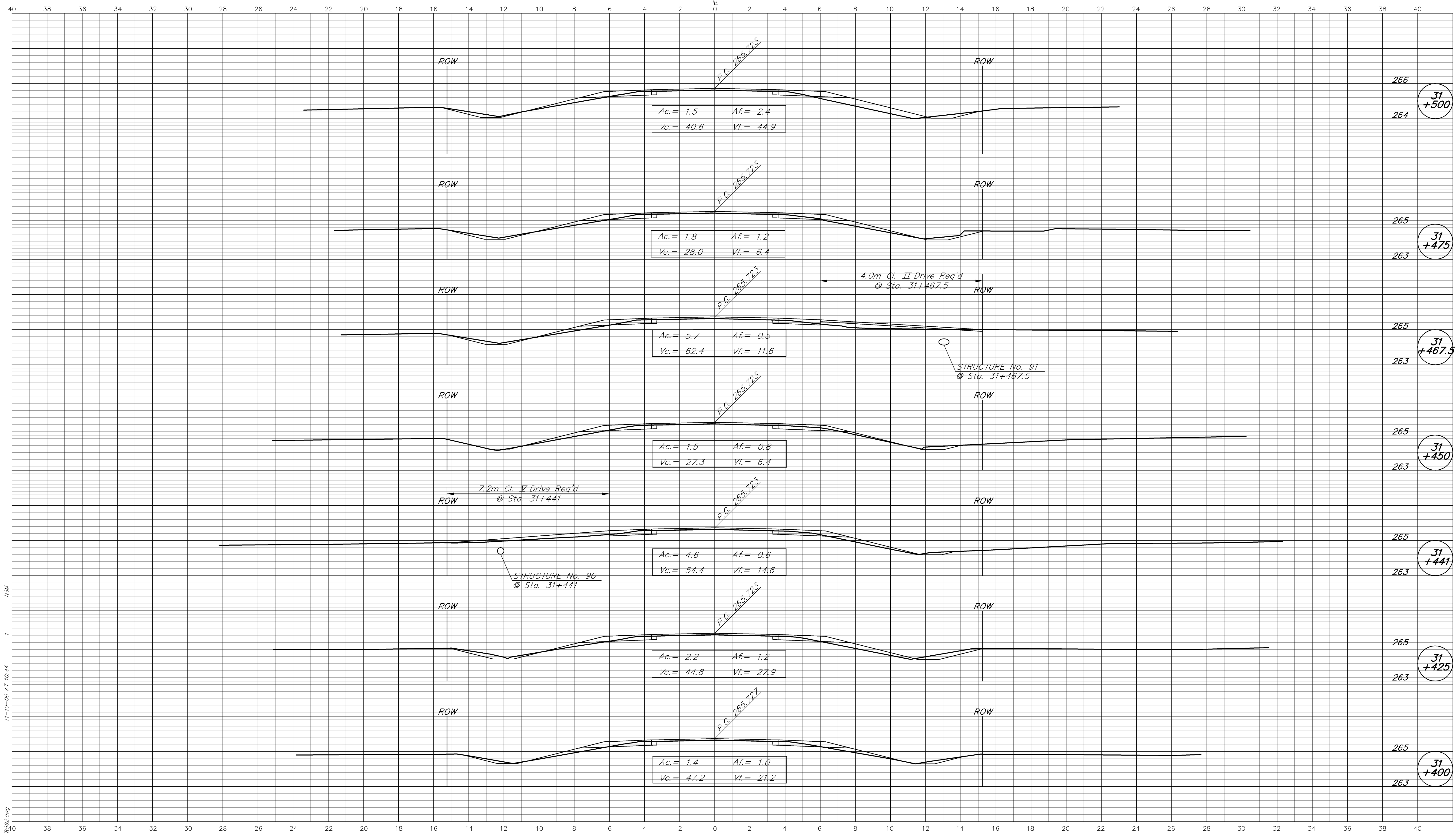
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INDIANA DEPARTMENT OF TRANSPORTATION  
STATE ROAD 37

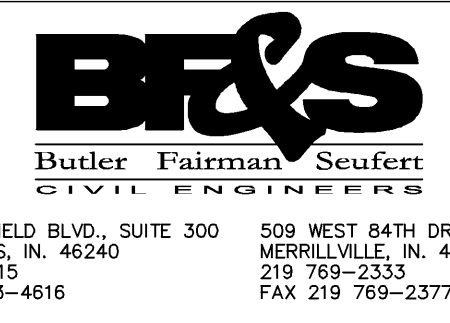
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SURVEY BOOK	SHEET 205 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 MSJ



**CROSS SECTIONS LINE "A"**

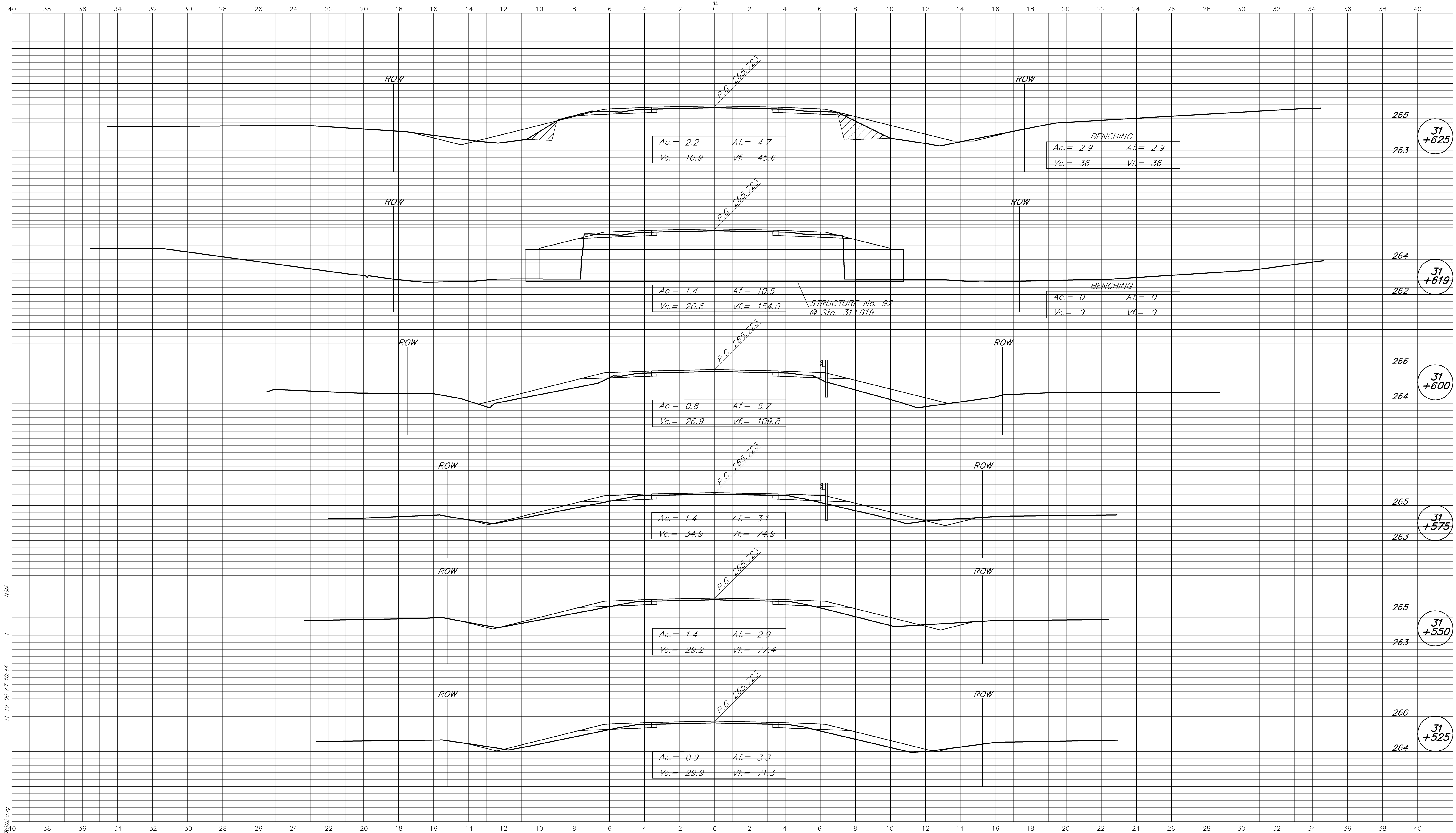
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

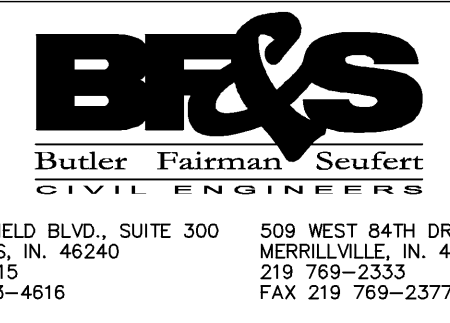
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SURVEY BOOK	SHEET
	206 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 MSW



**CROSS SECTIONS  
LINE "A"**

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 CHECKED: BZ CHECKED: MSL

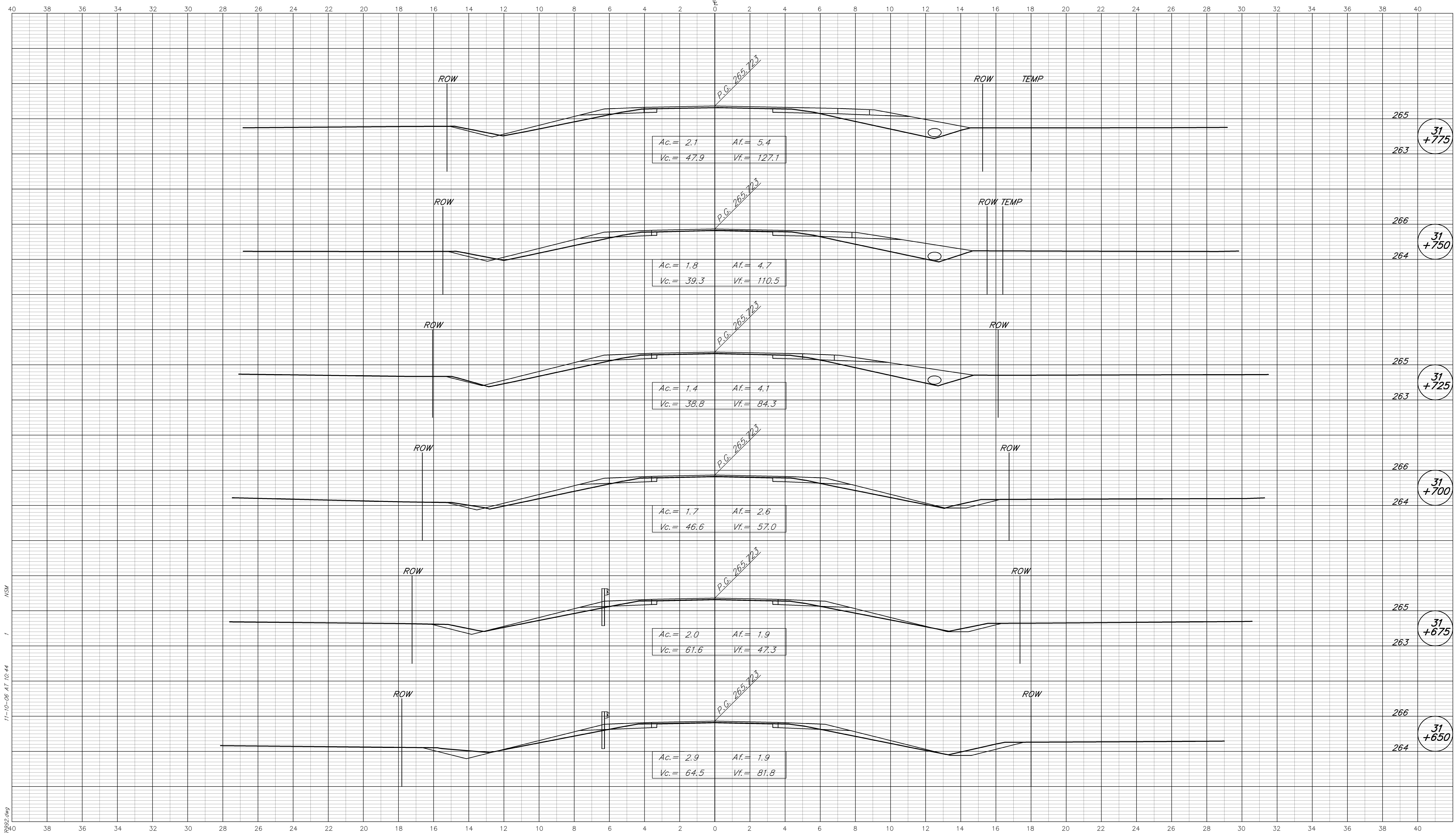
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

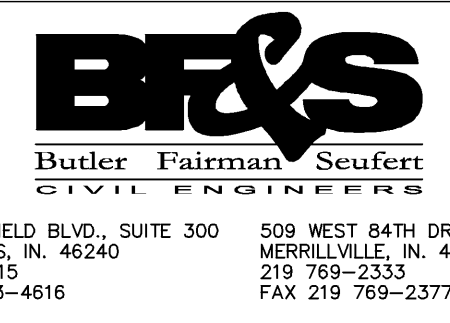
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SURVEY BOOK	SHEET
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
 R:\3783\AUTOCAD\ROAD\3783\922.dwg  
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**CROSS SECTIONS  
LINE "A"**

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INDIANA  
DEPARTMENT OF TRANSPORTATION

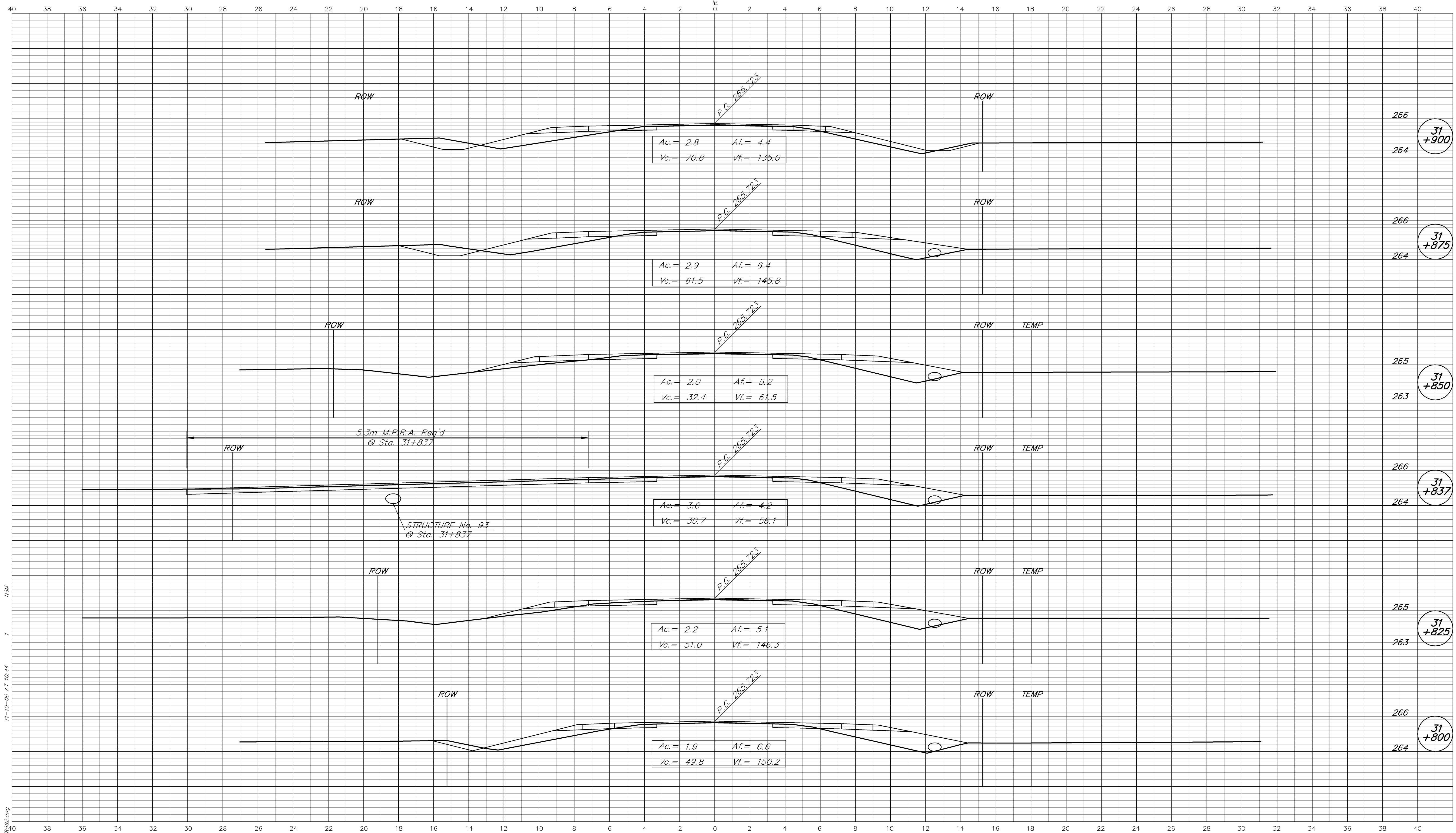
**STATE ROAD 37**

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SURVEY BOOK	SHEET 208 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

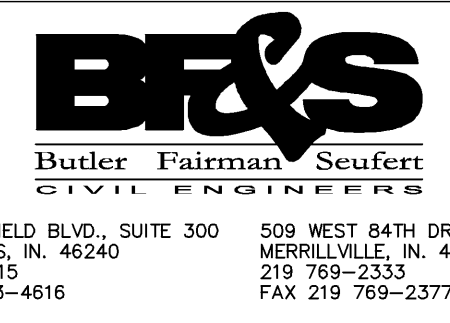
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CUT CROSS SECTIONS FILL  
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11-10-06 AT 10:44  
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**CROSS SECTIONS  
LINE "A"**

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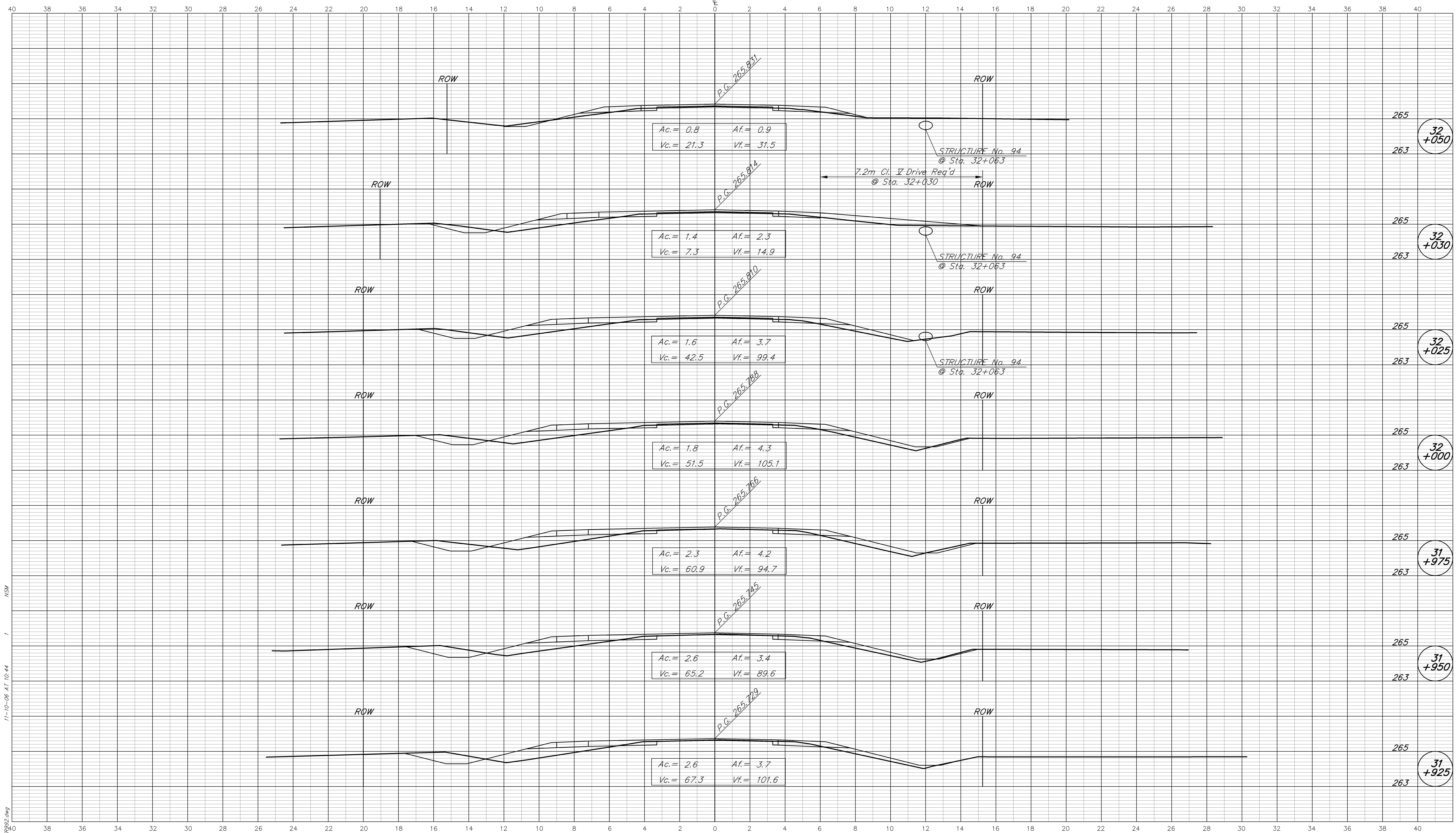
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DEPARTMENT OF TRANSPORTATION**

**STATE ROAD 37**

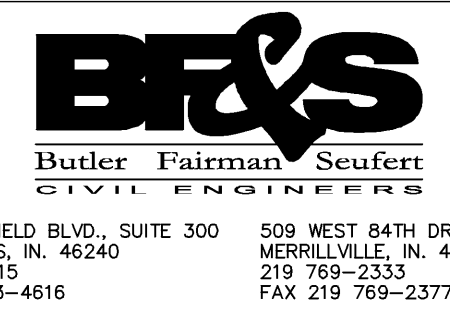
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SURVEY BOOK	SHEET 209 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 1:100



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

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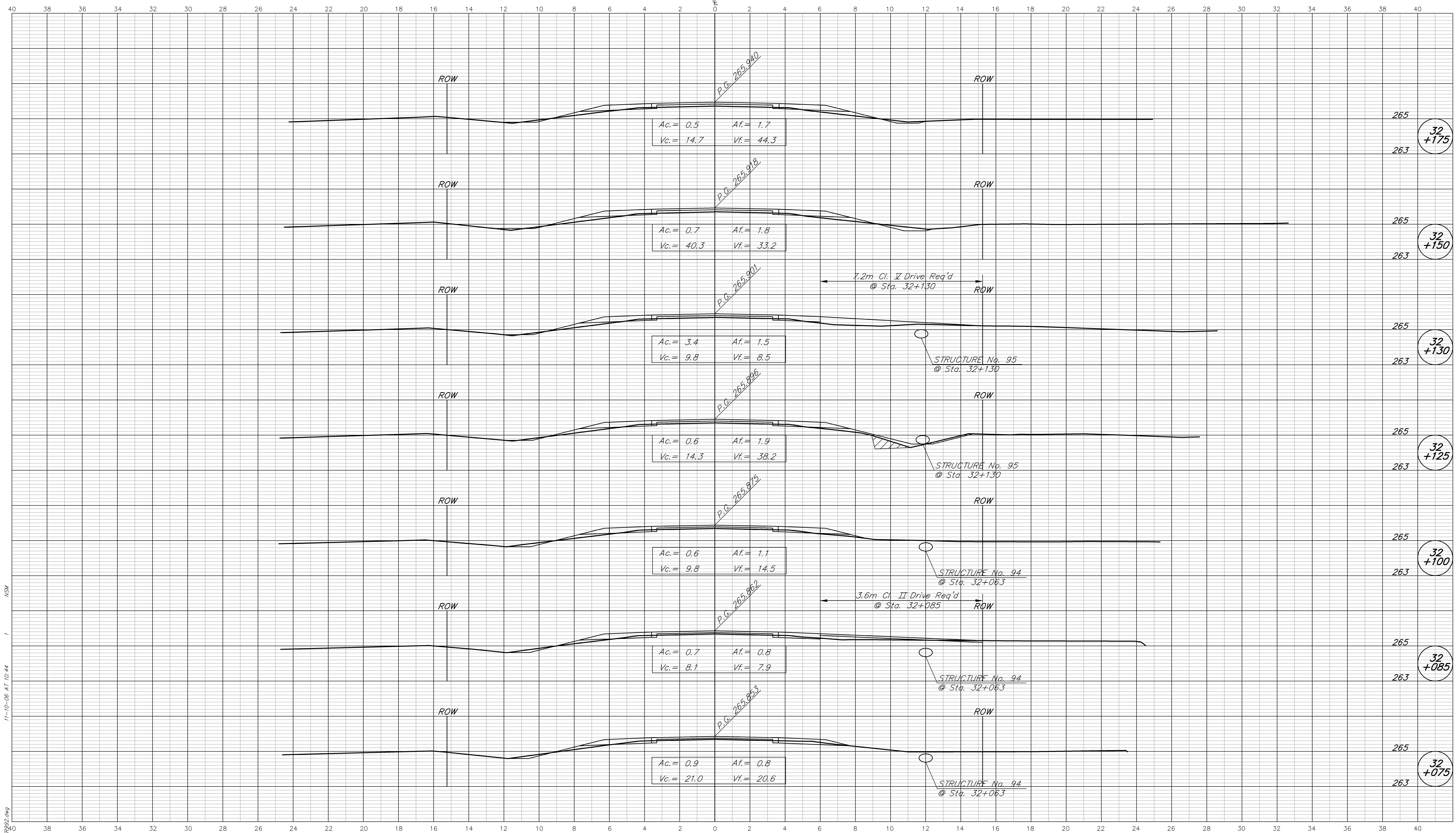
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

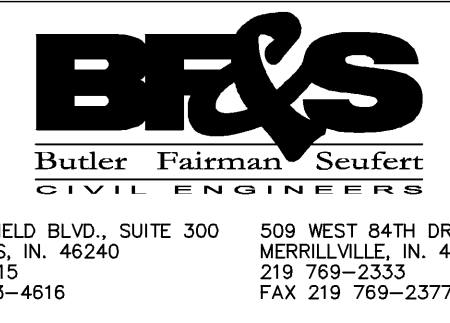
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SURVEY BOOK	SHEET 210 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:44  
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**CROSS SECTIONS  
LINE "A"**

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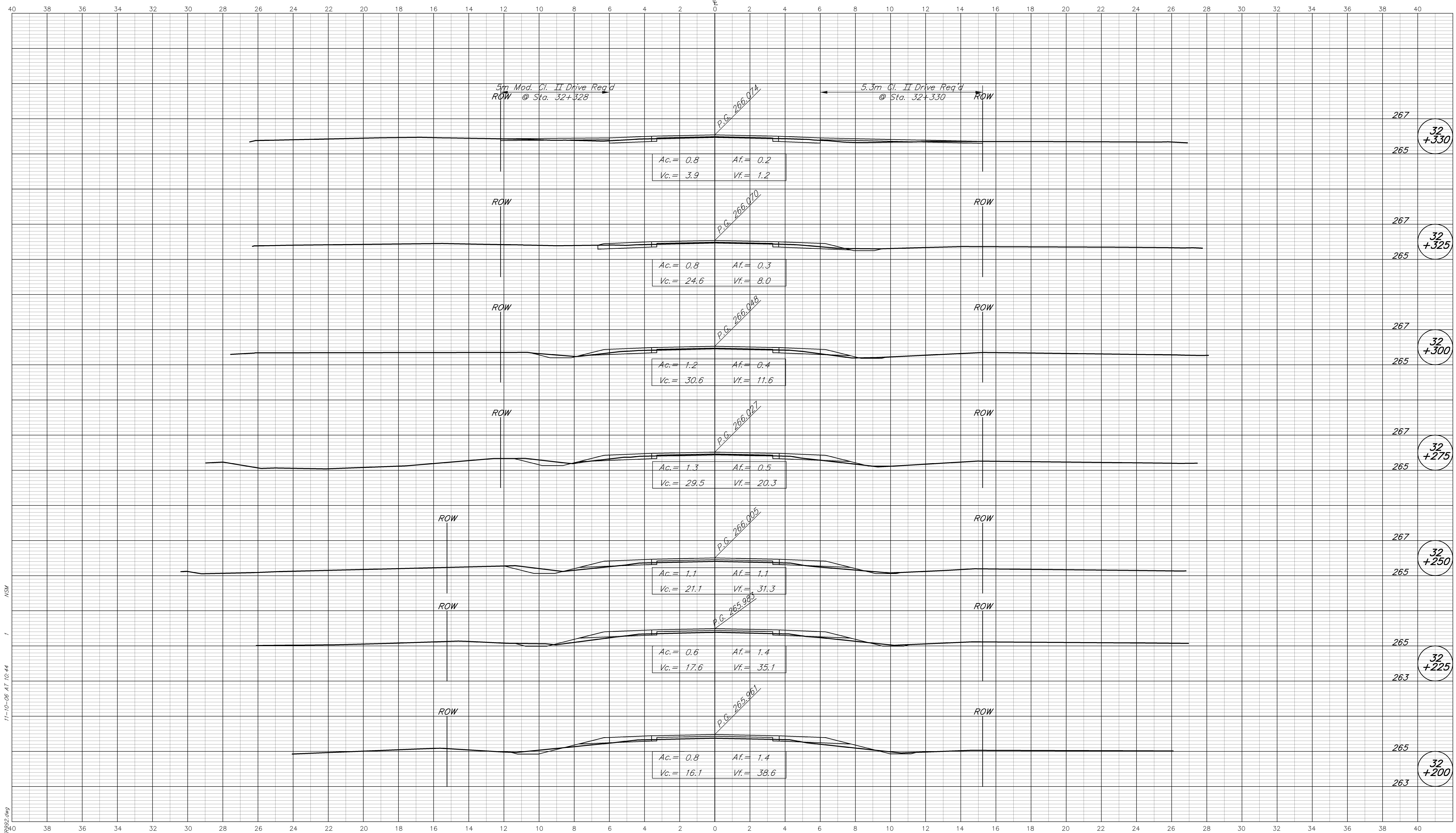
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STATE ROAD 37

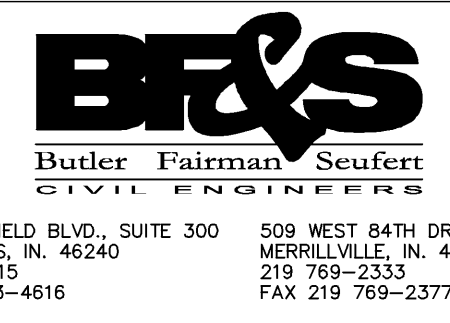
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SURVEY BOOK	SHEET 211 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
 R:\3783\AUTOCAD\ROAD\3783\922.dwg  
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**CROSS SECTIONS LINE "A"**

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

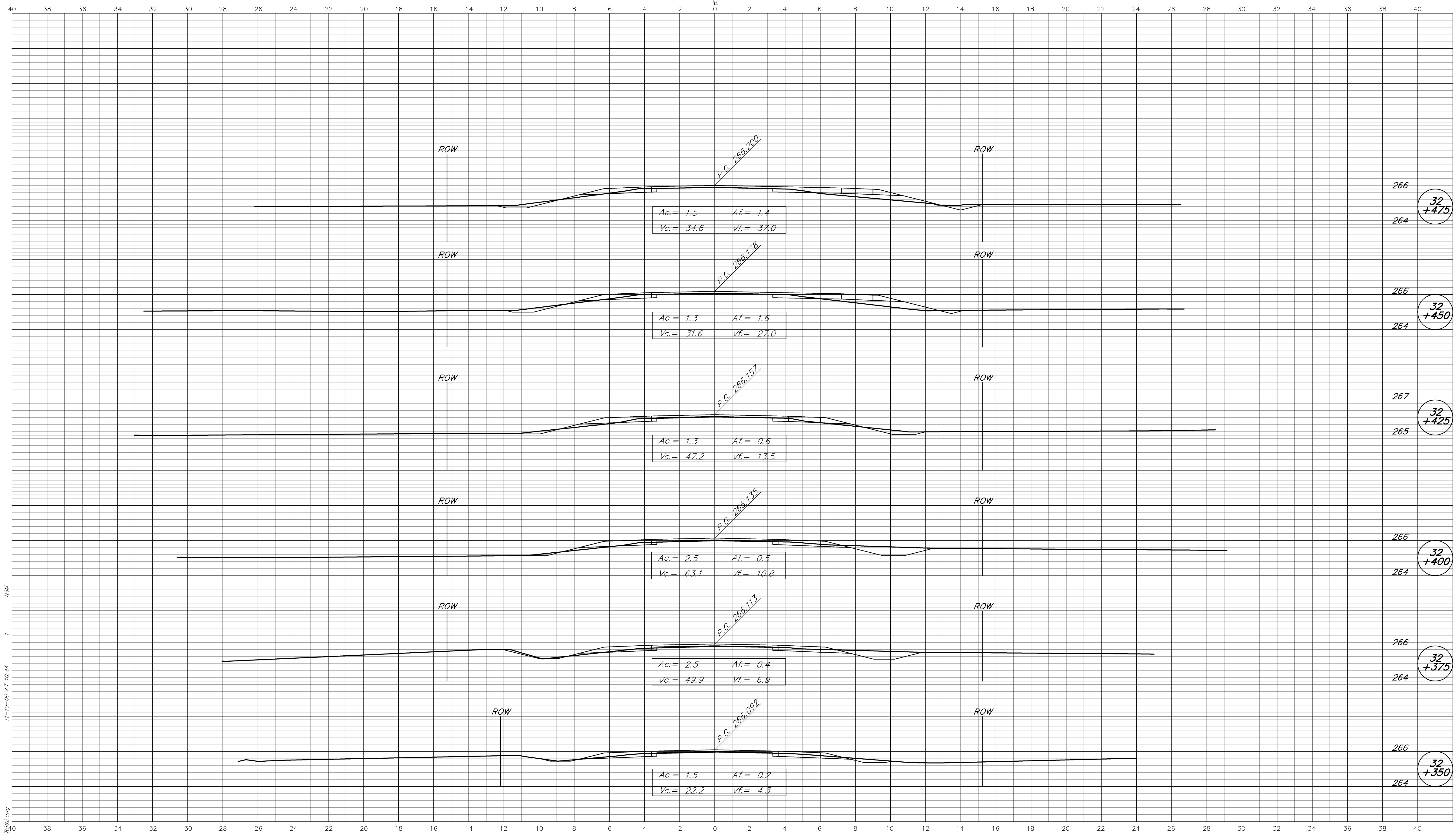
INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	212 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

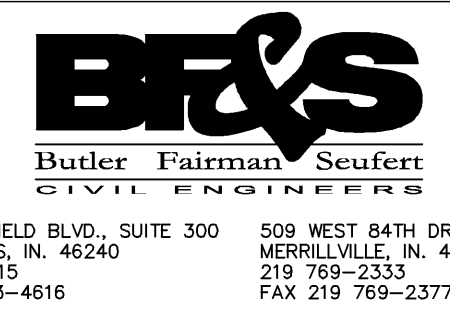
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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11-10-06 AT 10:44  
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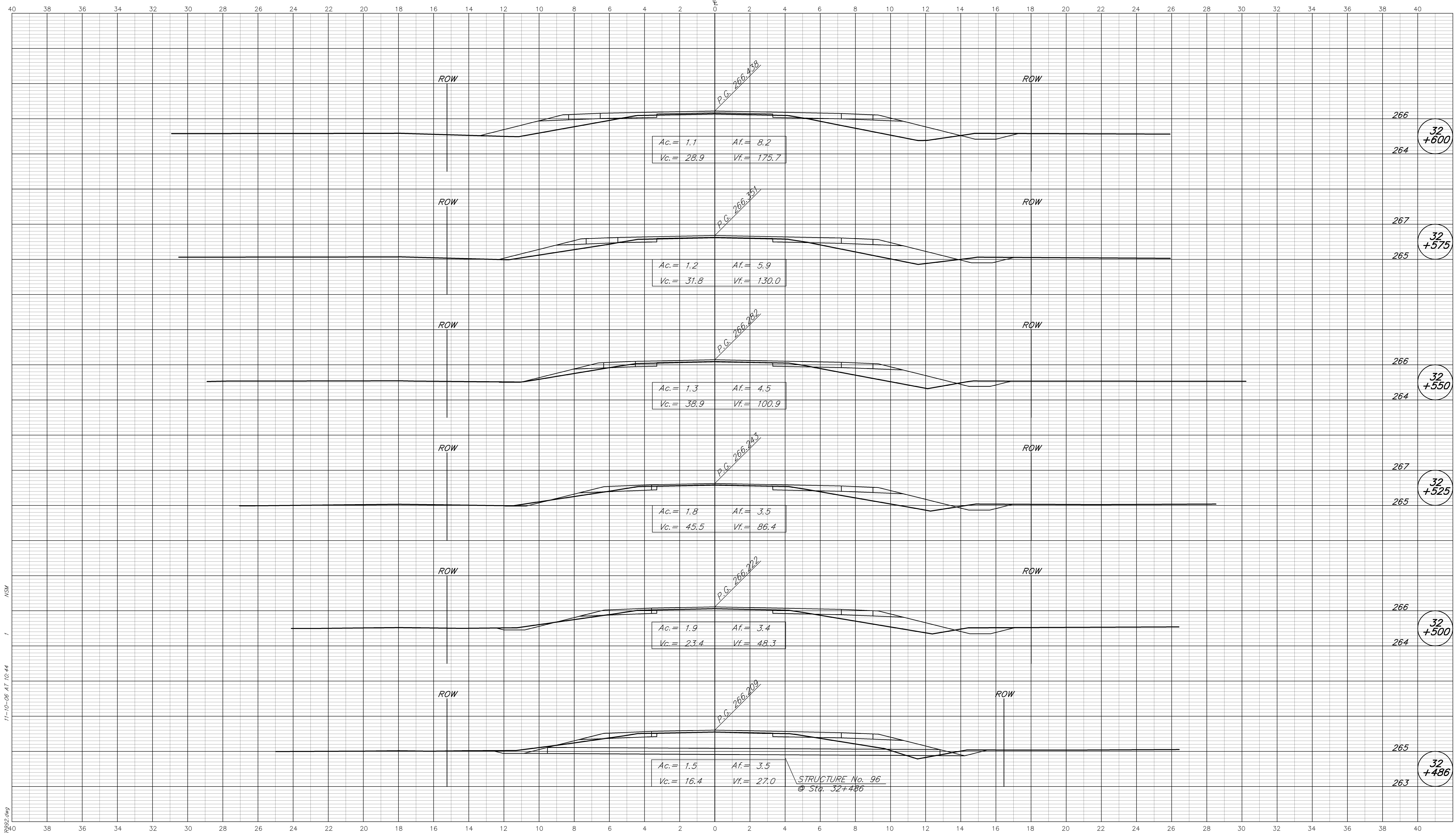
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LINE "A"  
DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION  
STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
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SURVEY BOOK	SHEET
CONTRACT R-28934	213 OF 292 PROJECT STP/097-9(005)

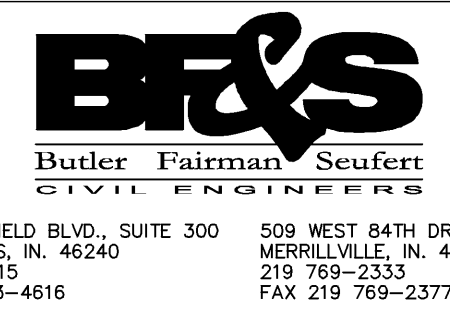
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44

R:\3783\AUTOCAD\ROAD\3783\922.dwg



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

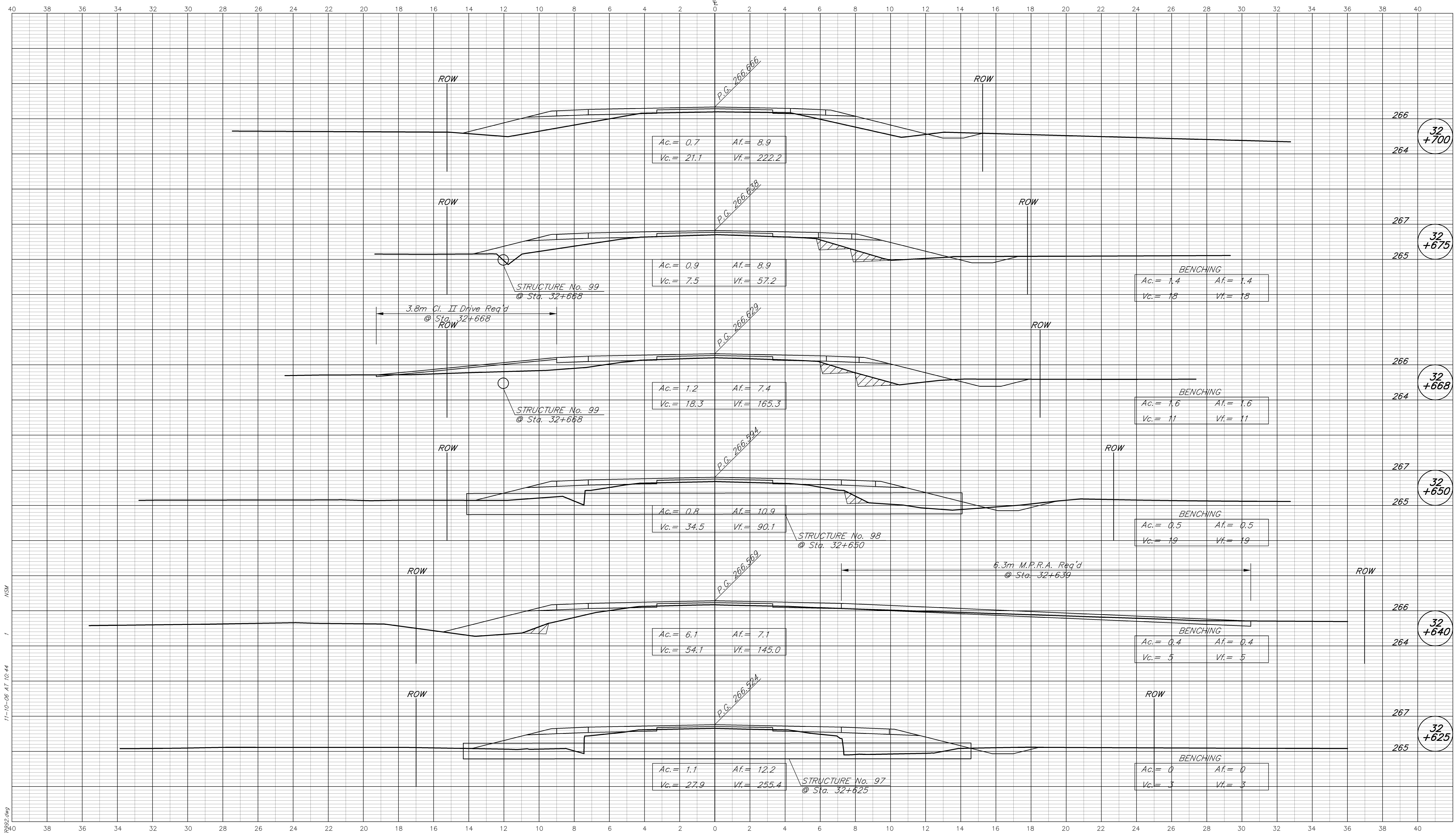
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

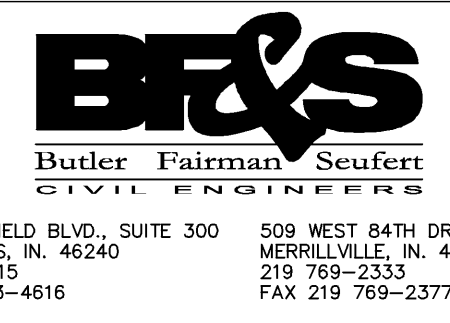
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	214 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 MS4



**CROSS SECTIONS LINE "A"**

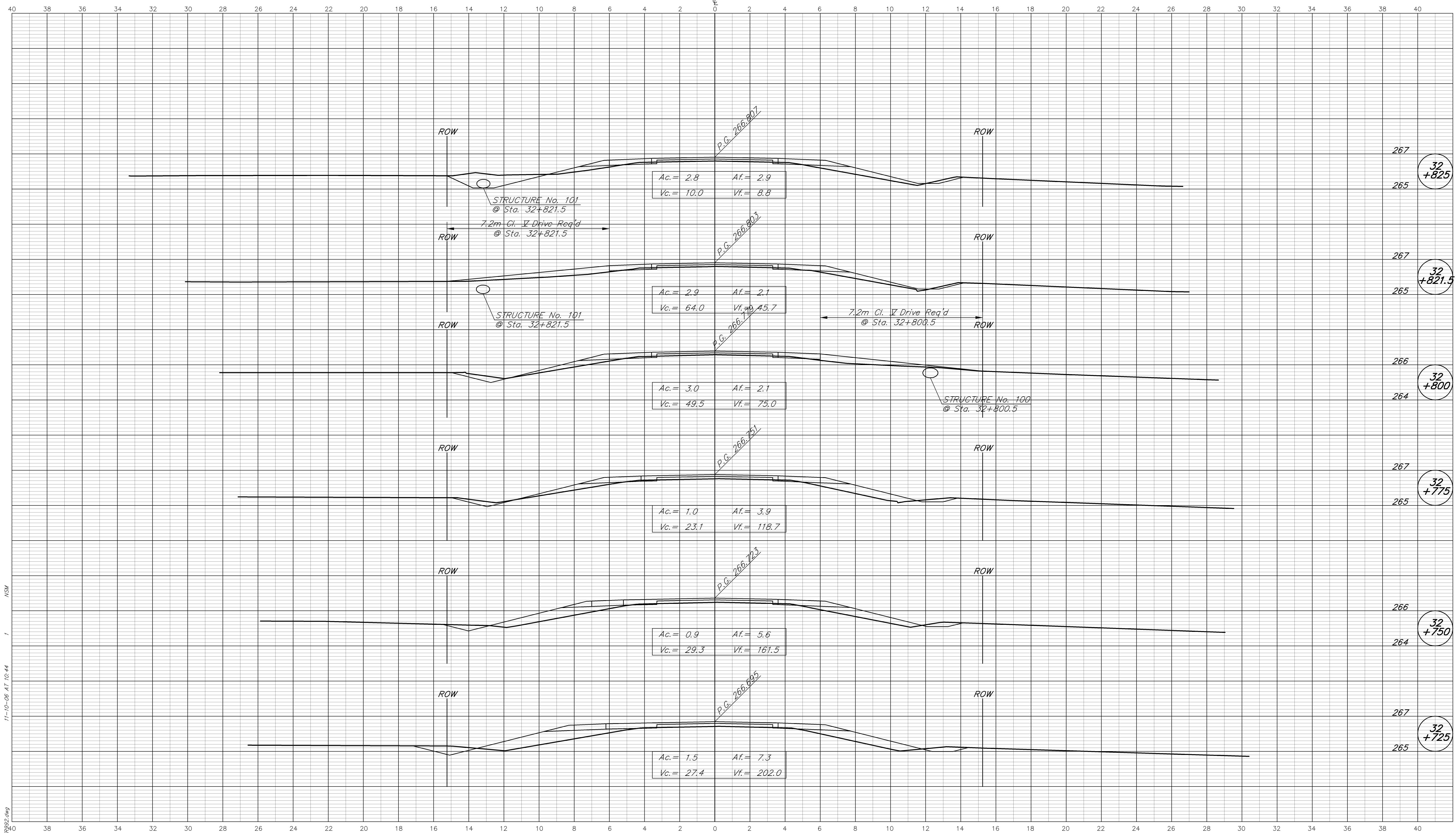
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 215 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

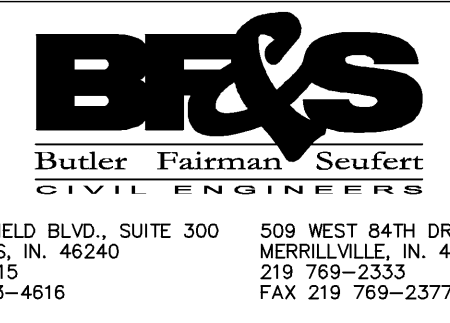
BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44

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**CROSS SECTIONS  
LINE "A"**

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

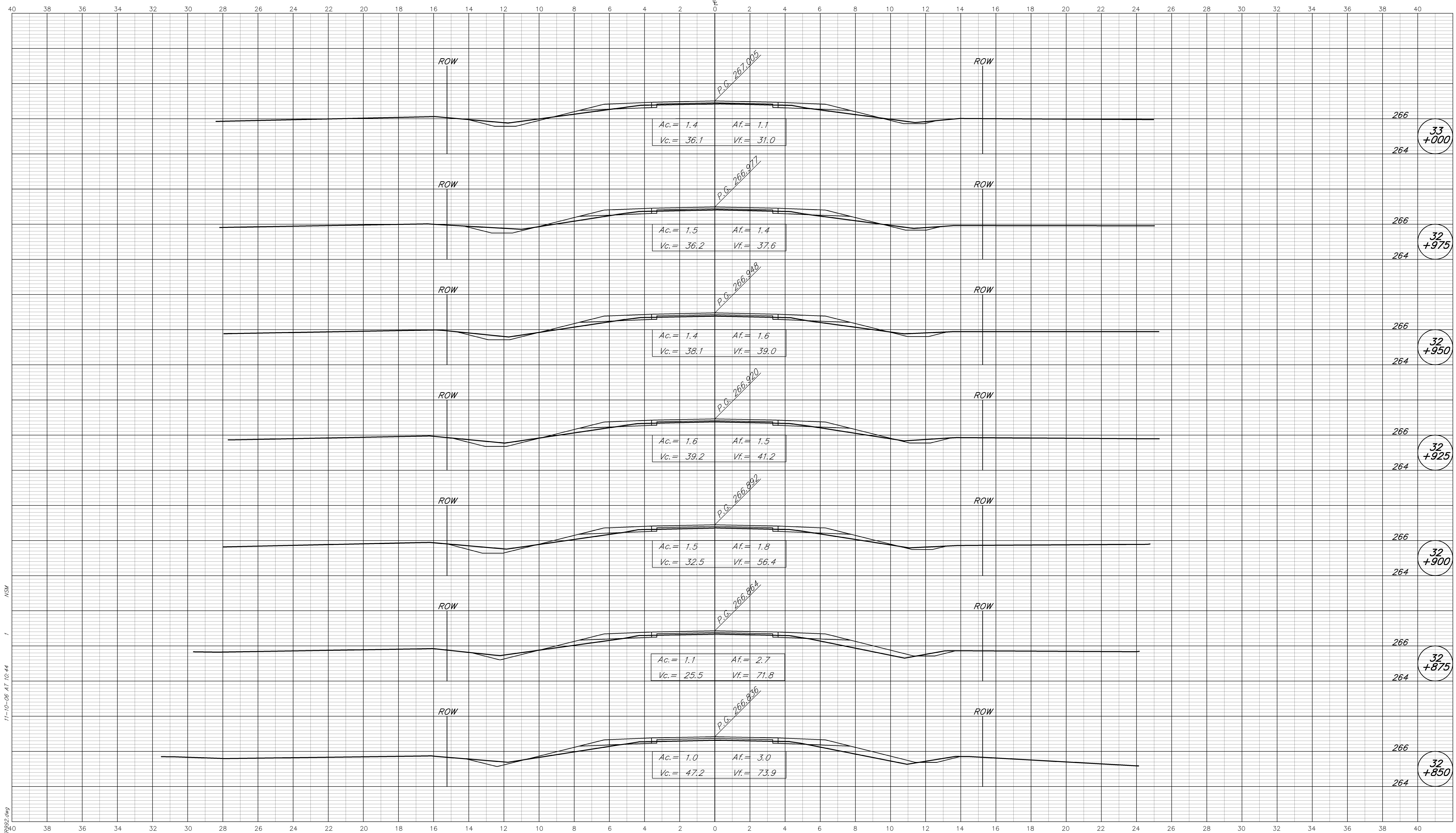
STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 216 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

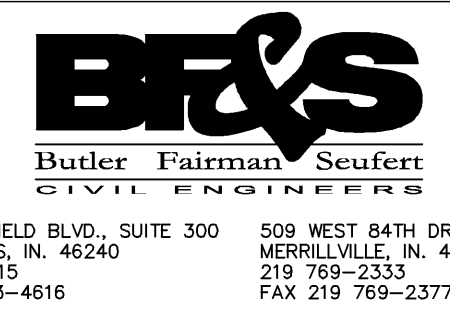
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CUT CROSS SECTIONS FILL  
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11-10-06 AT 10:44  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

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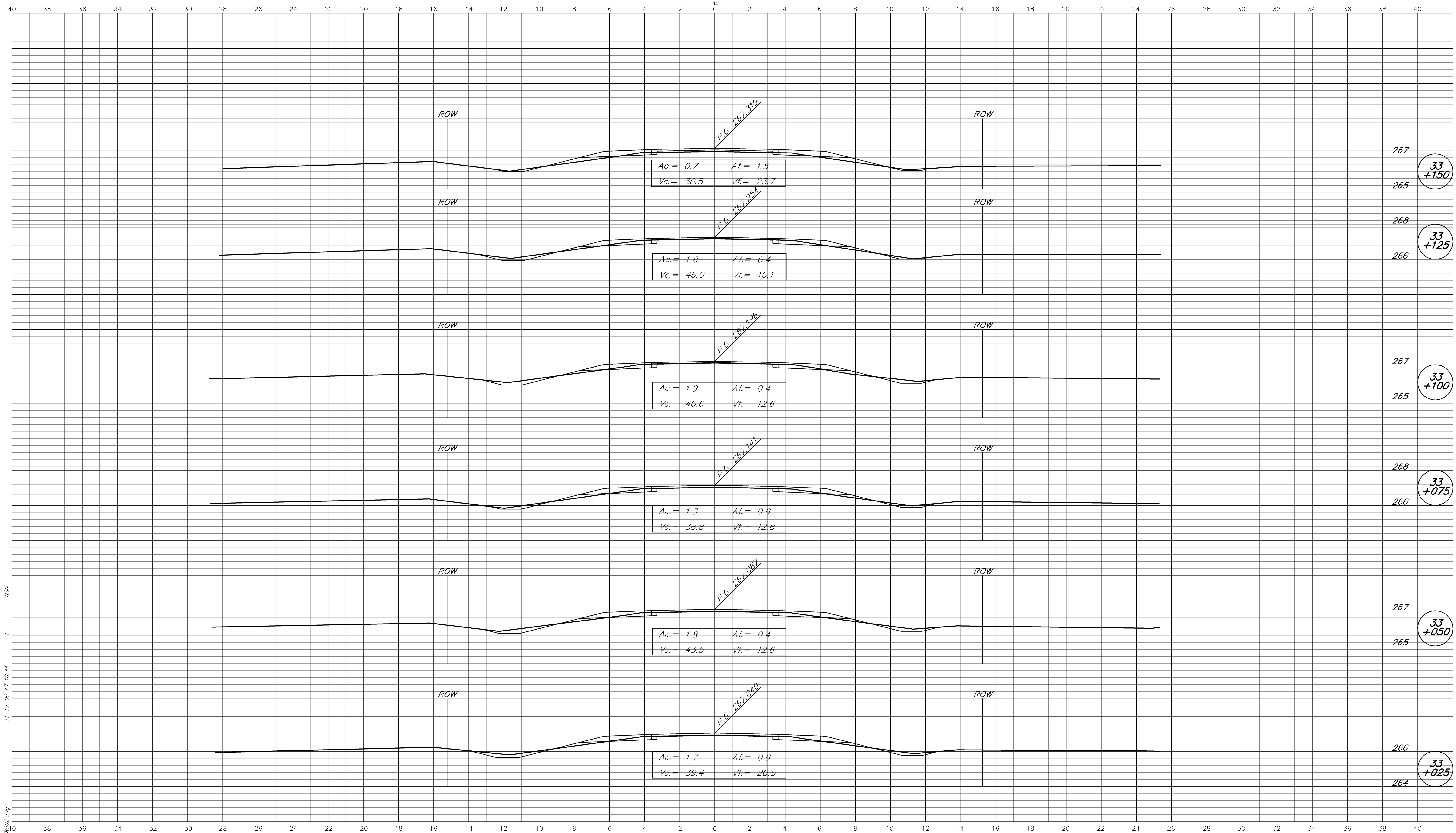
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STATE ROAD 37

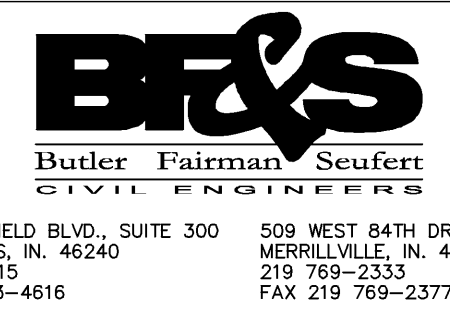
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CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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**CROSS SECTIONS LINE "A"**

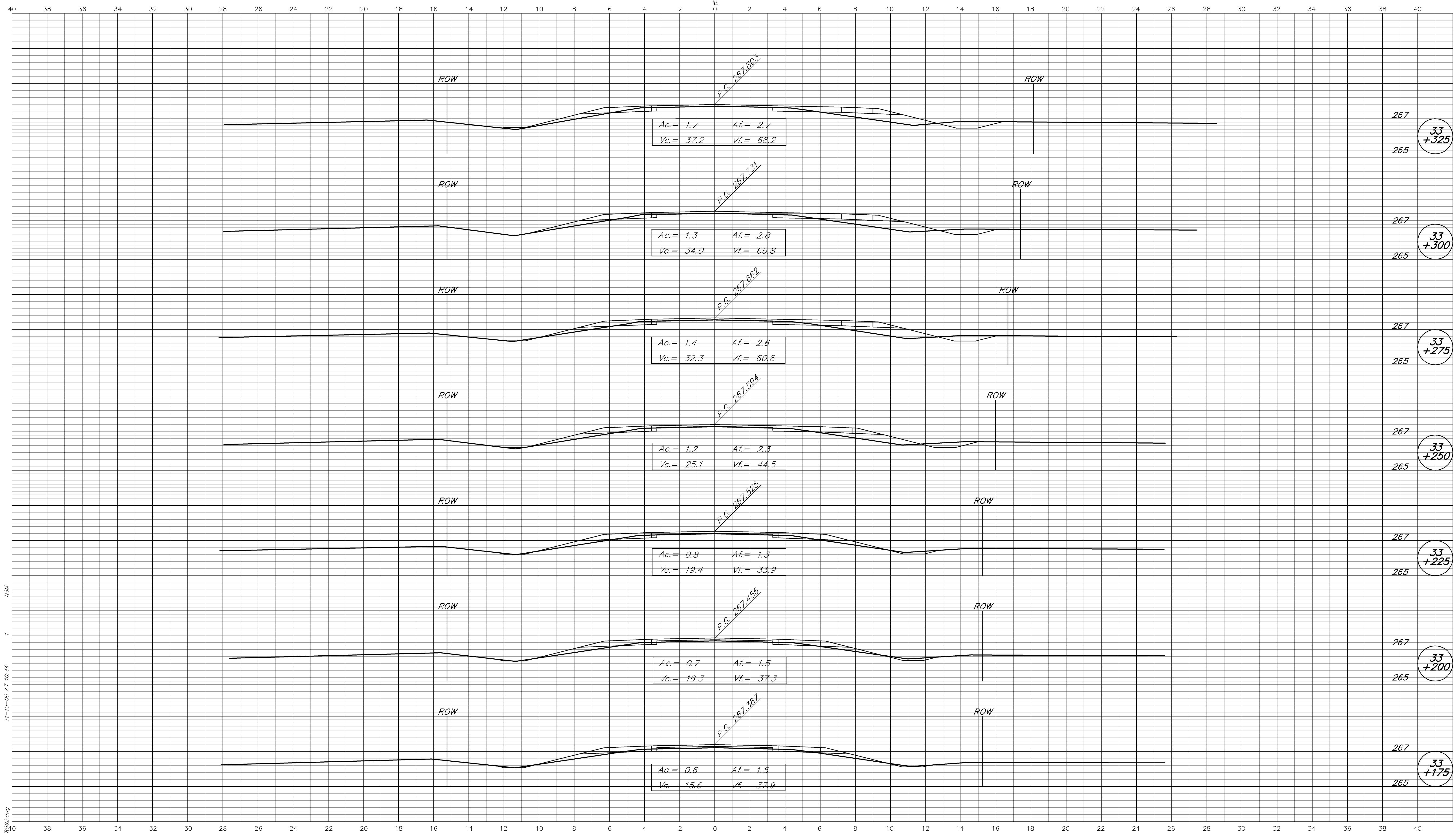
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

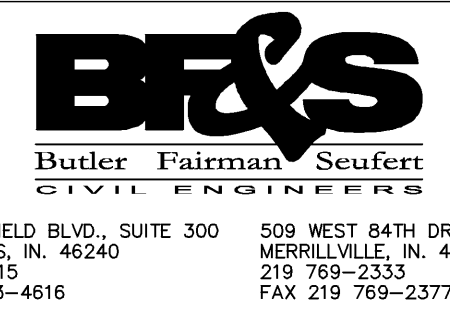
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	218 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

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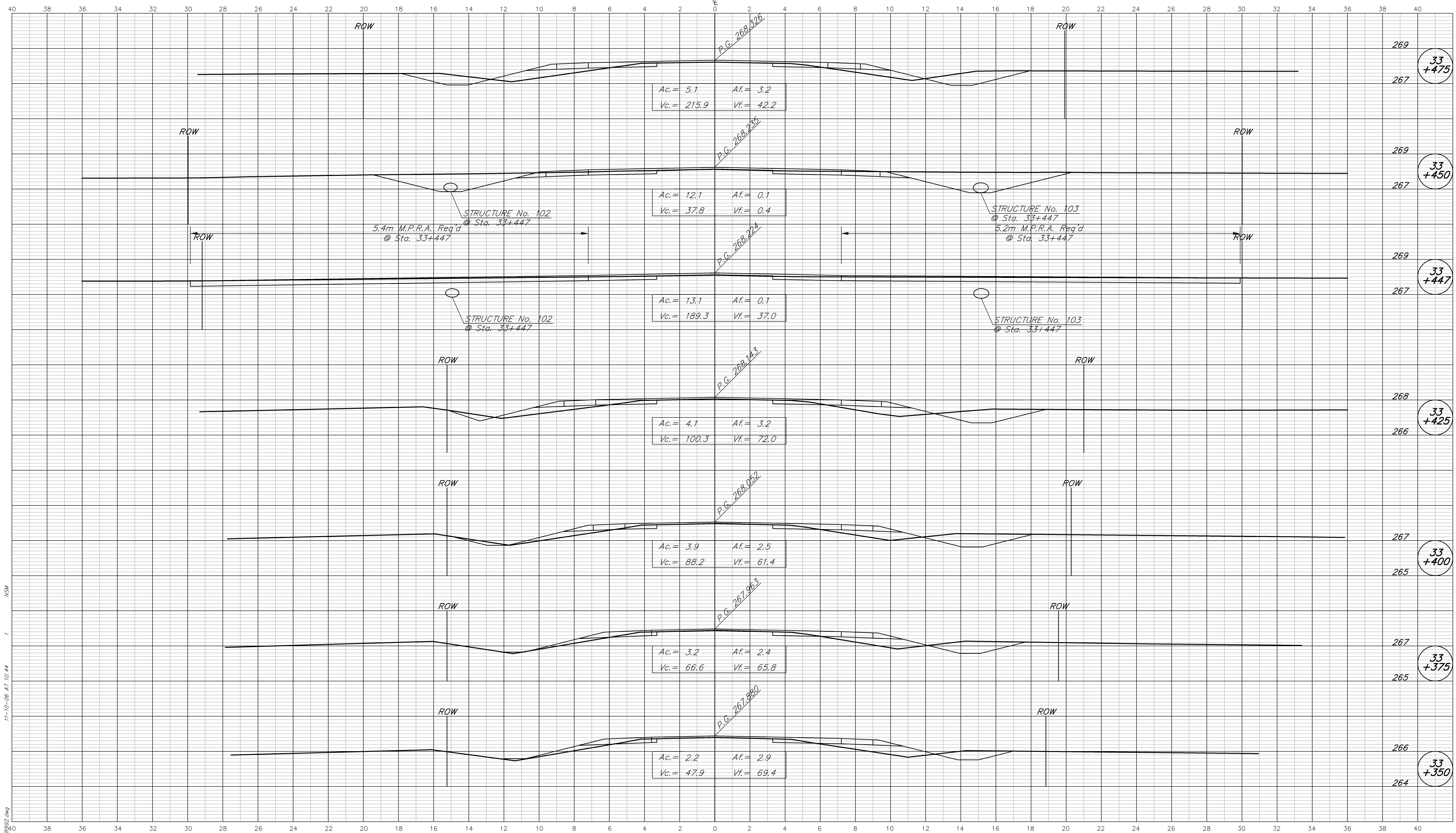
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 219 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



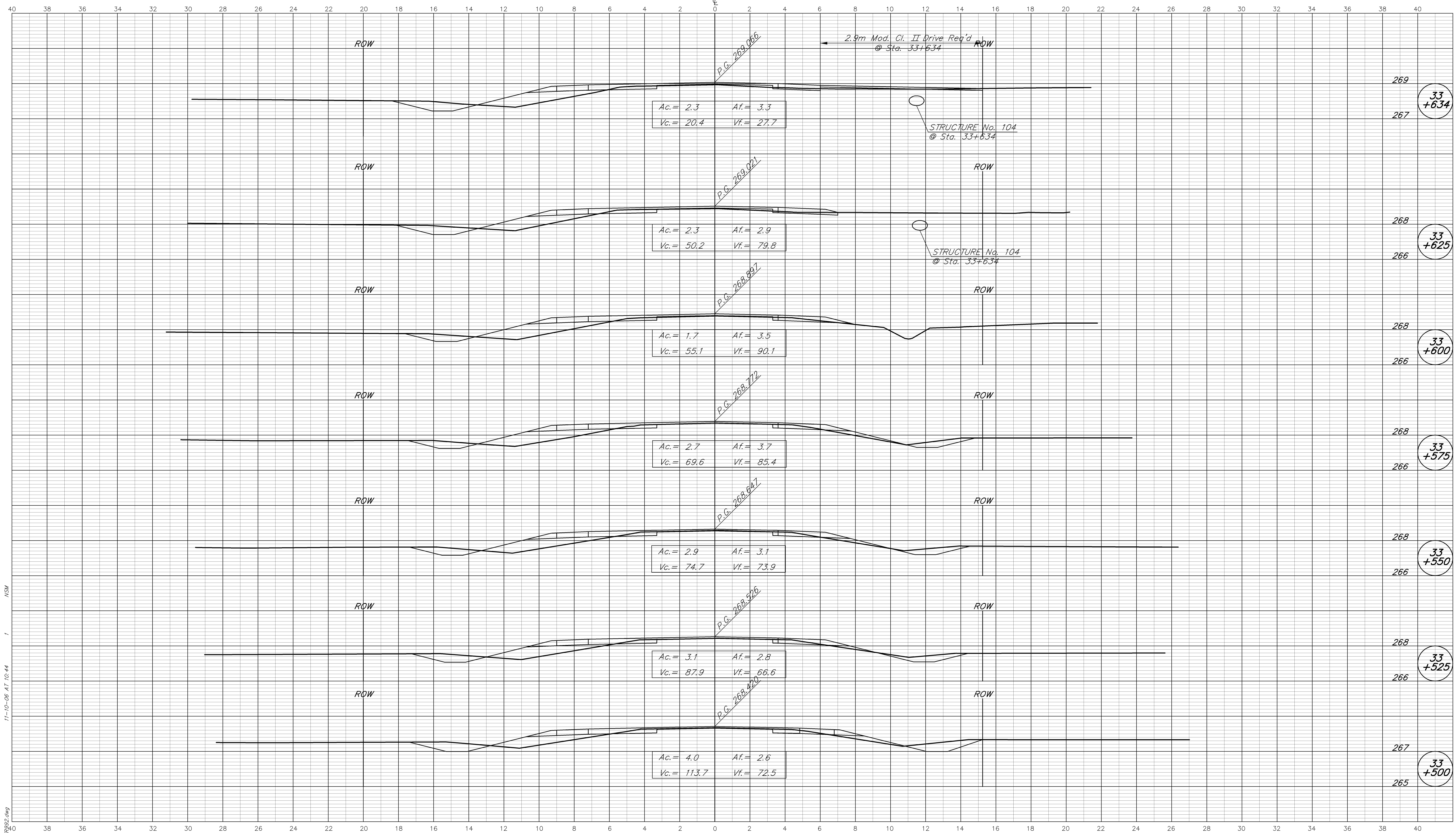
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 Butler Fairman Seufert CIVIL ENGINEERS 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616	CROSS SECTIONS LINE "A" DESIGNED: MSL DRAWN: MSS CHECKED: BZ CHECKED: MSL	INDIANA DEPARTMENT OF TRANSPORTATION STATE ROAD 37	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>HORIZONTAL SCALE</td> <td>FILE</td> </tr> <tr> <td>1:100</td> <td>3783</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>DESIGNATION</td> </tr> <tr> <td>1:100</td> <td>9706580</td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEET</td> </tr> <tr> <td></td> <td>220 OF 292</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>R-28934</td> <td>STP/097-9(005)</td> </tr> </table>	HORIZONTAL SCALE	FILE	1:100	3783	VERTICAL SCALE	DESIGNATION	1:100	9706580	SURVEY BOOK	SHEET		220 OF 292	CONTRACT	PROJECT	R-28934	STP/097-9(005)
HORIZONTAL SCALE	FILE																		
1:100	3783																		
VERTICAL SCALE	DESIGNATION																		
1:100	9706580																		
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	220 OF 292																		
CONTRACT	PROJECT																		
R-28934	STP/097-9(005)																		

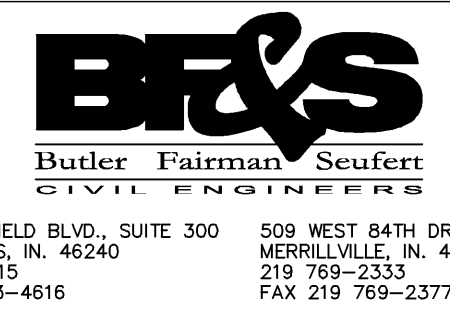
BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 1/34



**CROSS SECTIONS  
LINE "A"**

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

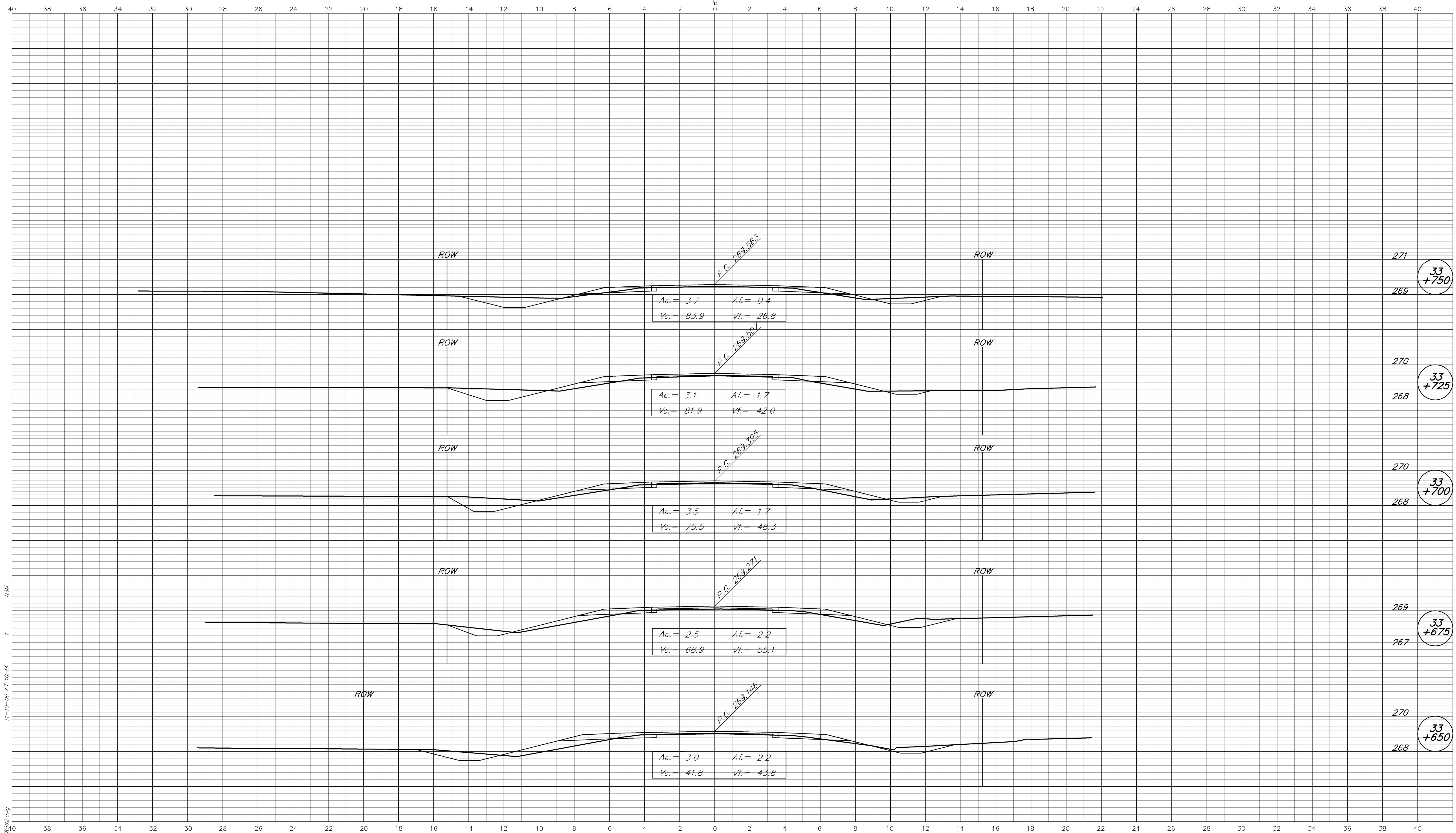
INDIANA  
DEPARTMENT OF TRANSPORTATION

**STATE ROAD 37**

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 221 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

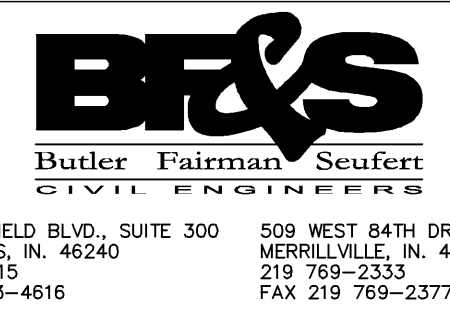
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44

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**CROSS SECTIONS  
LINE "A"**

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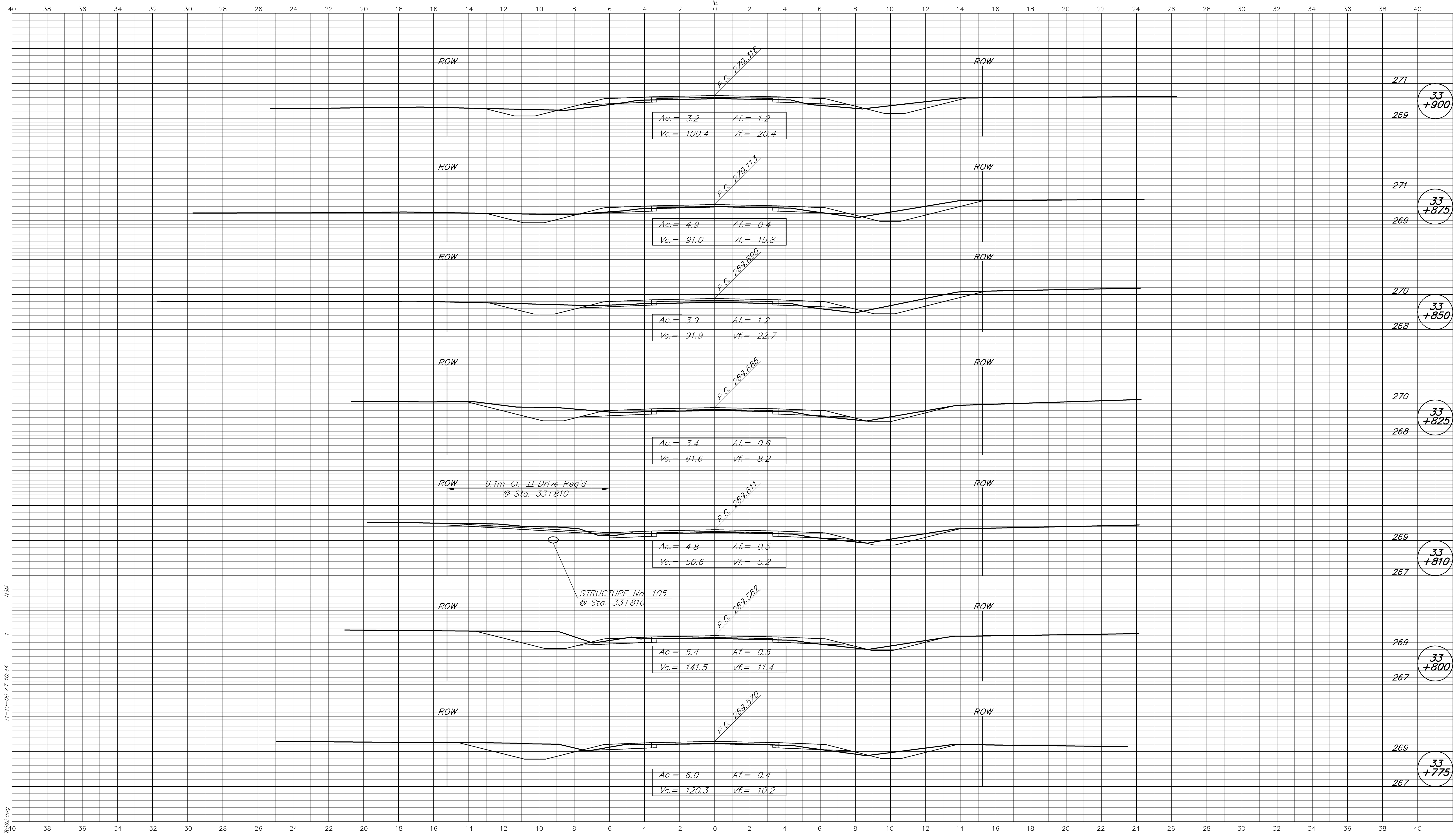
INDIANA  
DEPARTMENT OF TRANSPORTATION

**STATE ROAD 37**

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	222 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

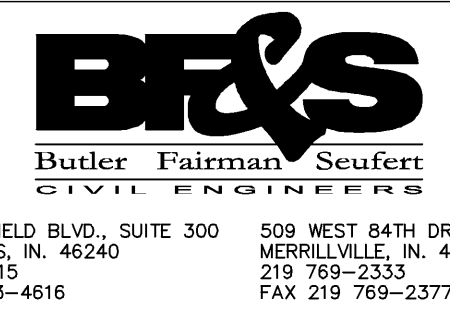
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Scale 1:100 (METRIC)



6.1m Cl. II Drive Req'd @ Sta. 33+810

STRUCTURE No. 105 @ Sta. 33+810

11-10-06 AT 10:44



CROSS SECTIONS  
LINE "A"

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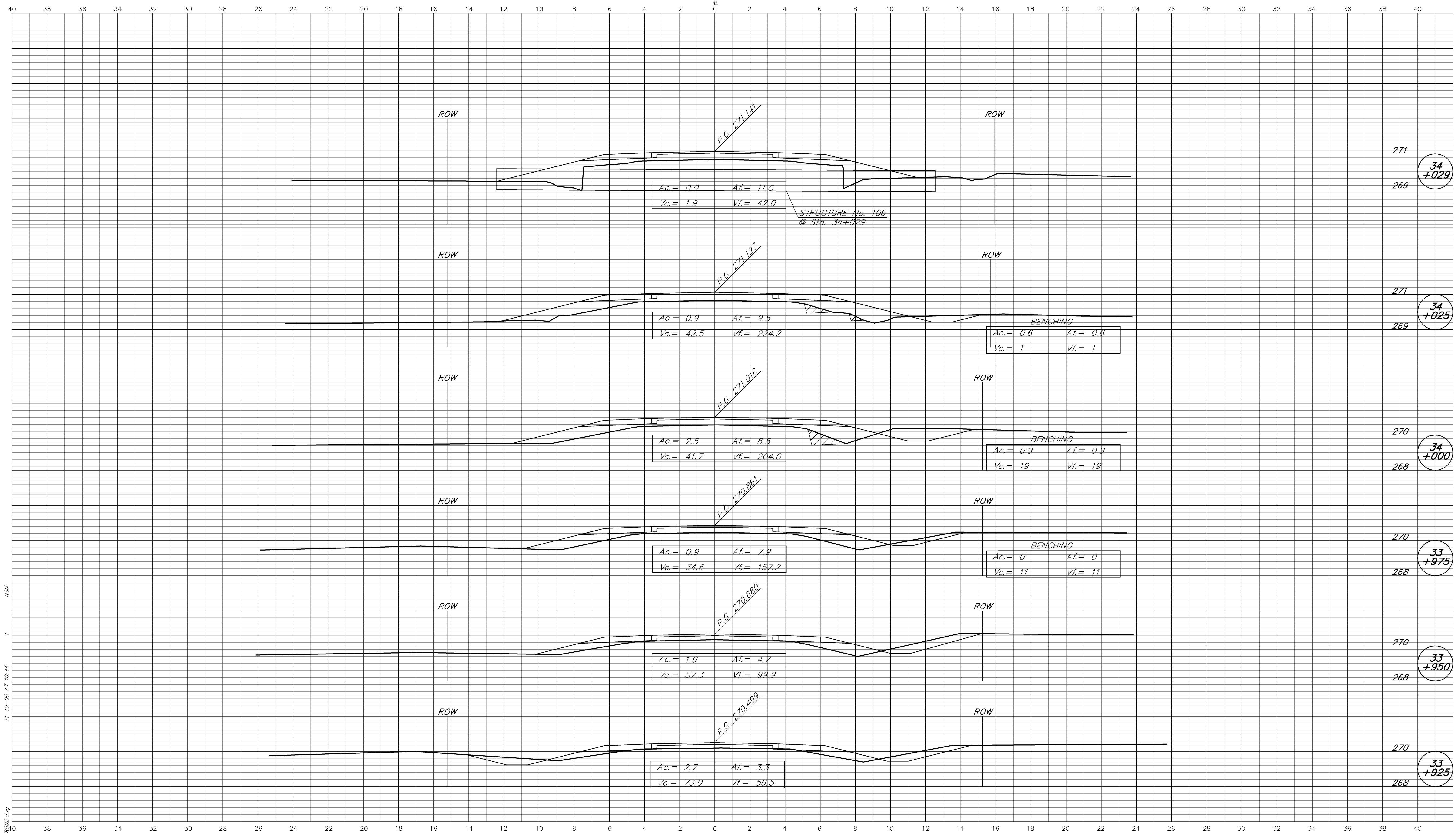
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

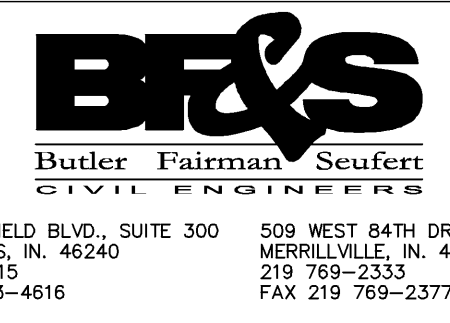
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	223 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 MSK



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
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INDIANA  
DEPARTMENT OF TRANSPORTATION

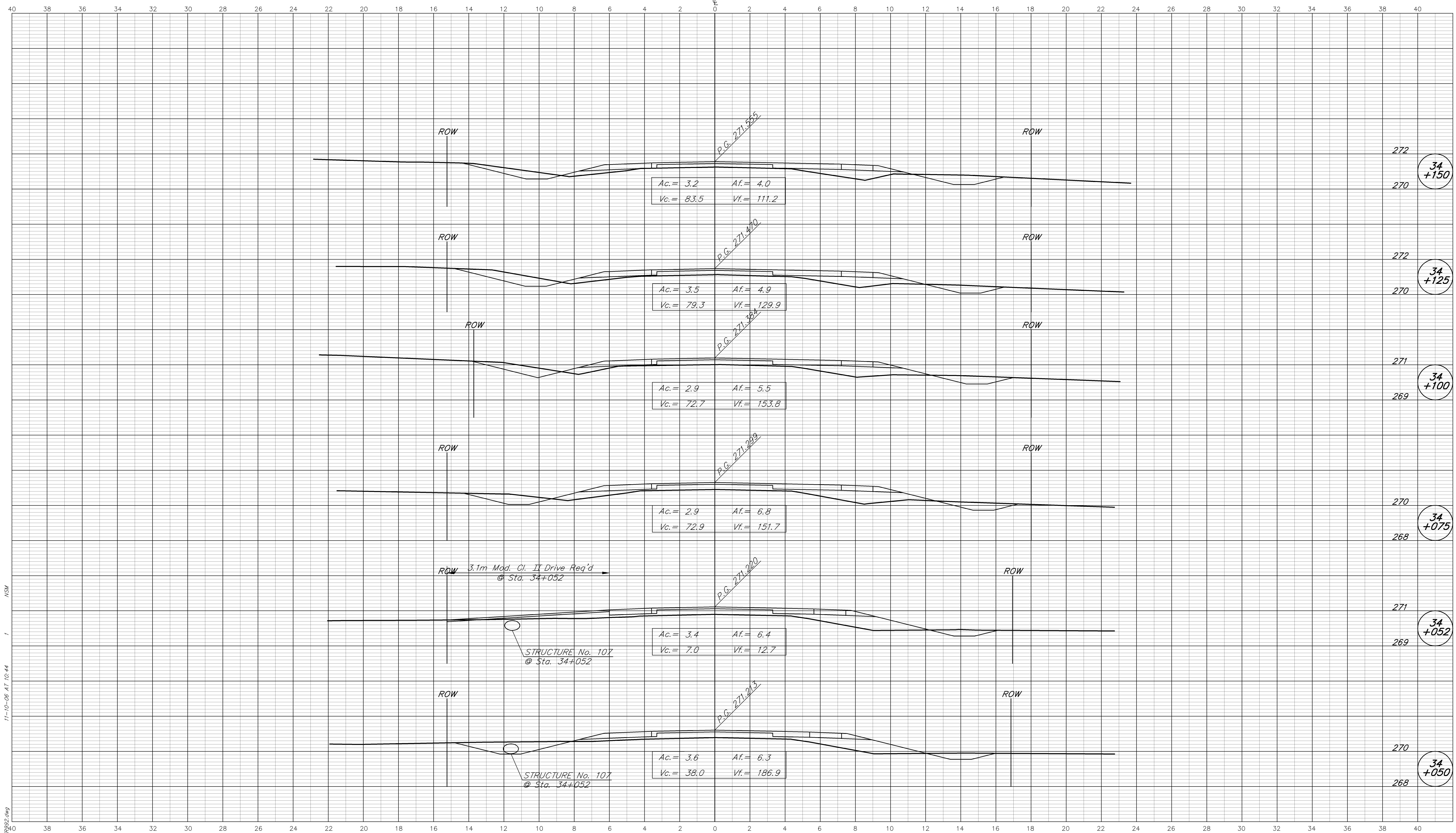
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HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	224 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

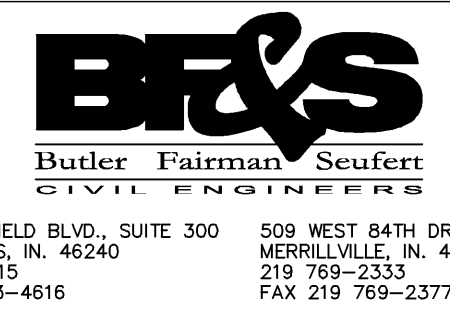
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CUT CROSS SECTIONS FILL  
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11-10-06 AT 10:44  
MSA



CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
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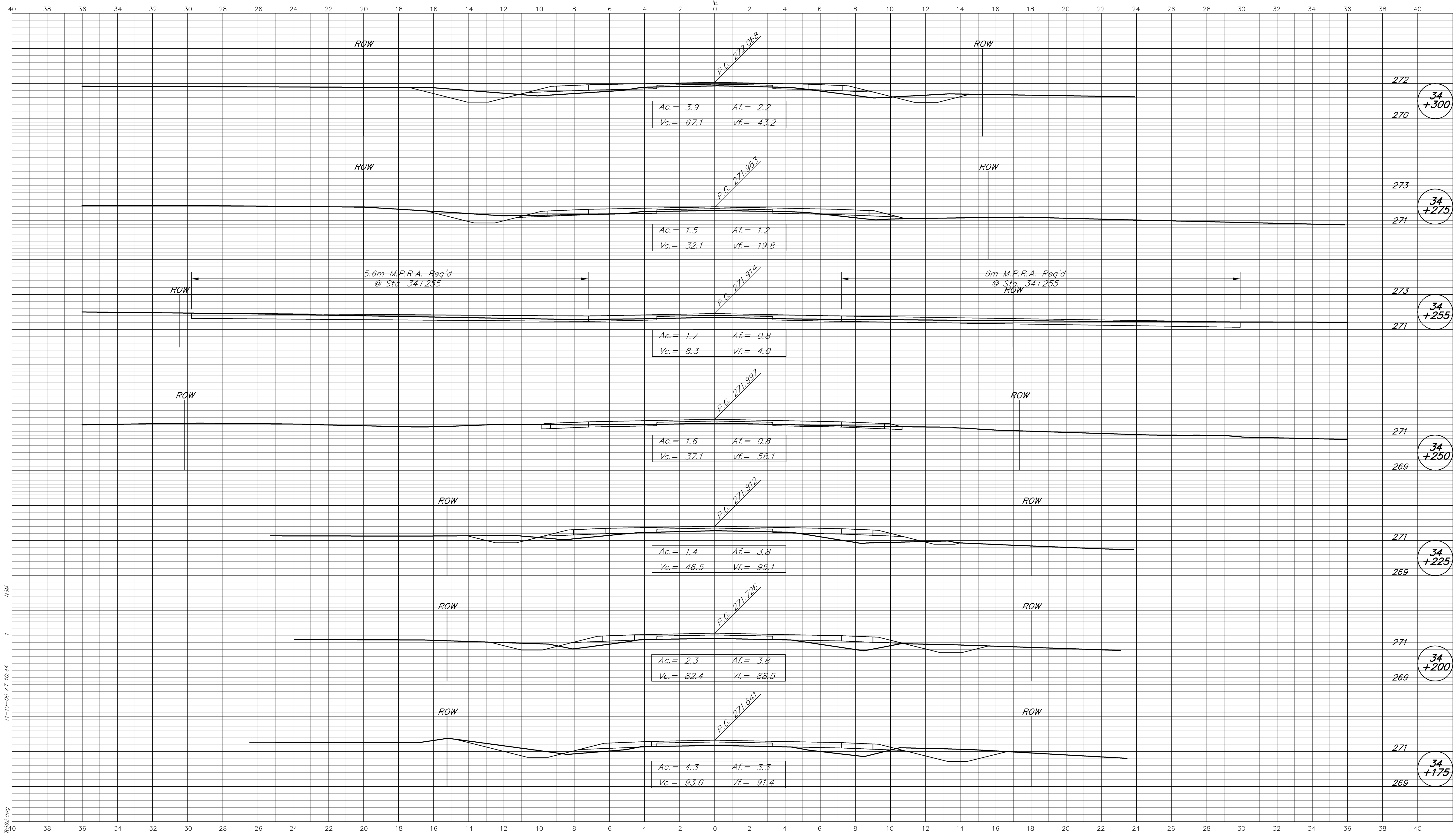
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

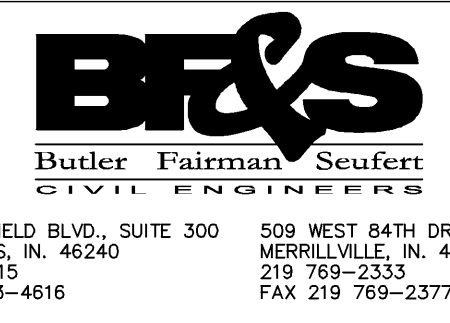
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 225 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333  
 317 713-4615  
 FAX 317 713-4616 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

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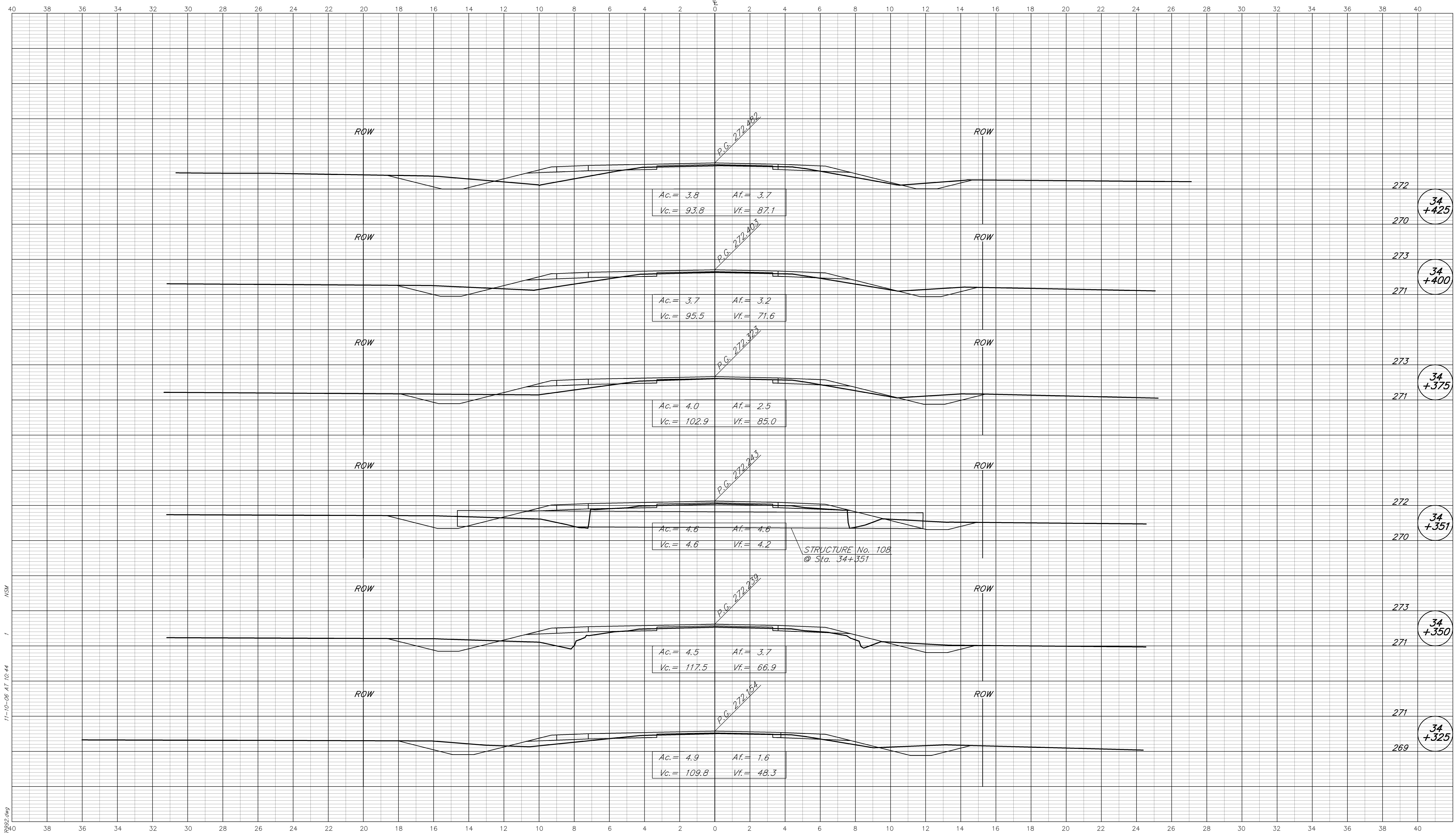
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

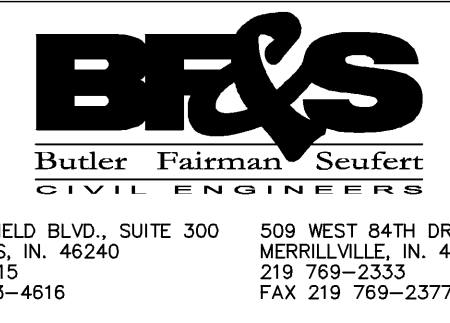
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	226 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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**CROSS SECTIONS  
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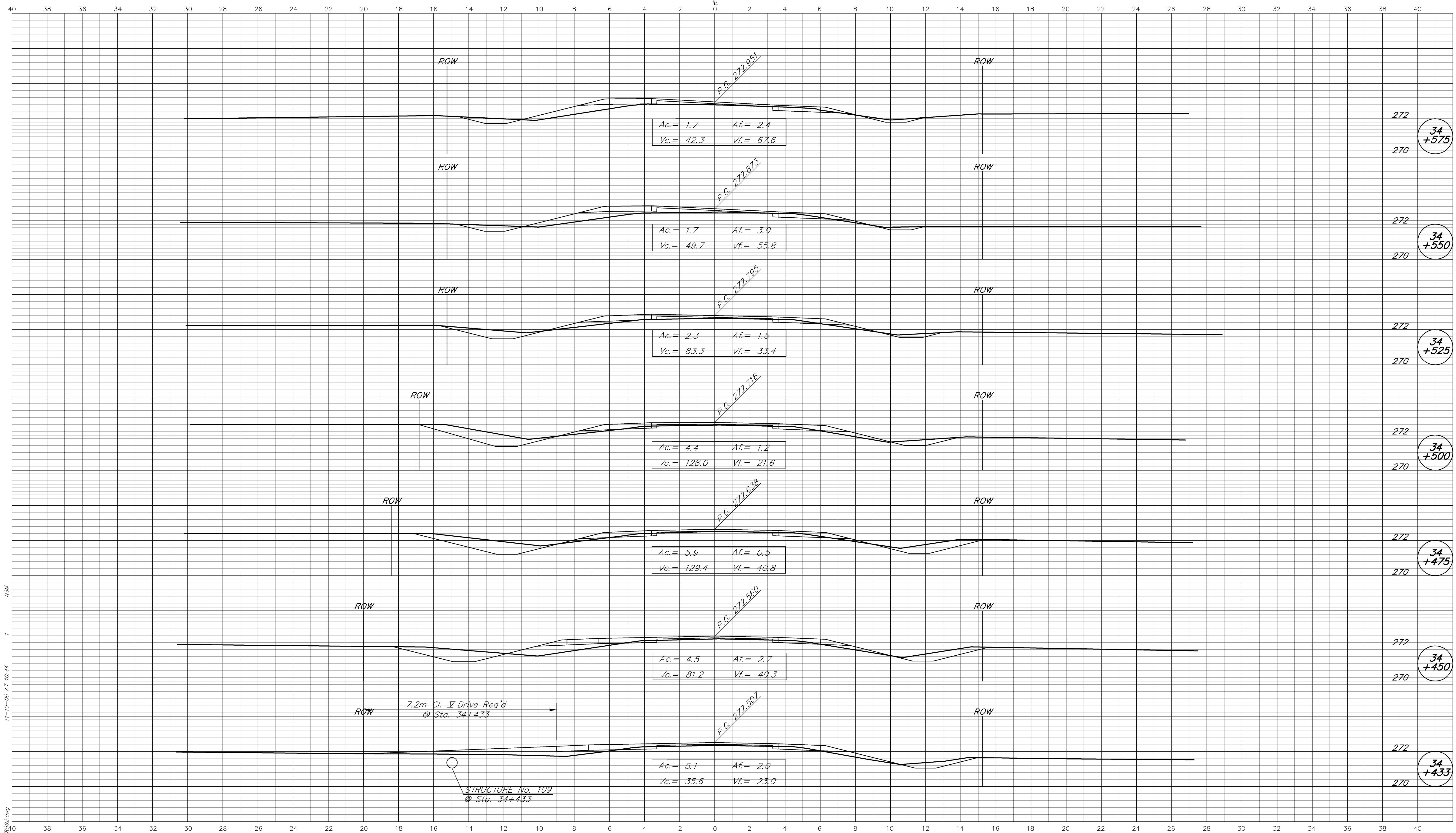
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STATE ROAD 37

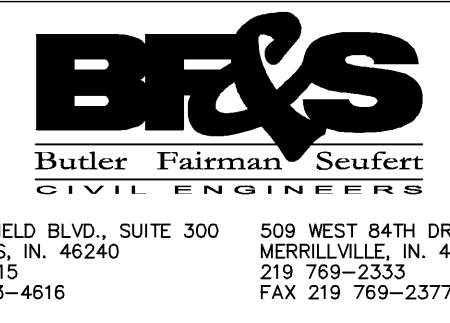
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SURVEY BOOK	SHEET
CONTRACT R-28934	227 OF 292 PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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**CROSS SECTIONS  
LINE "A"**

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

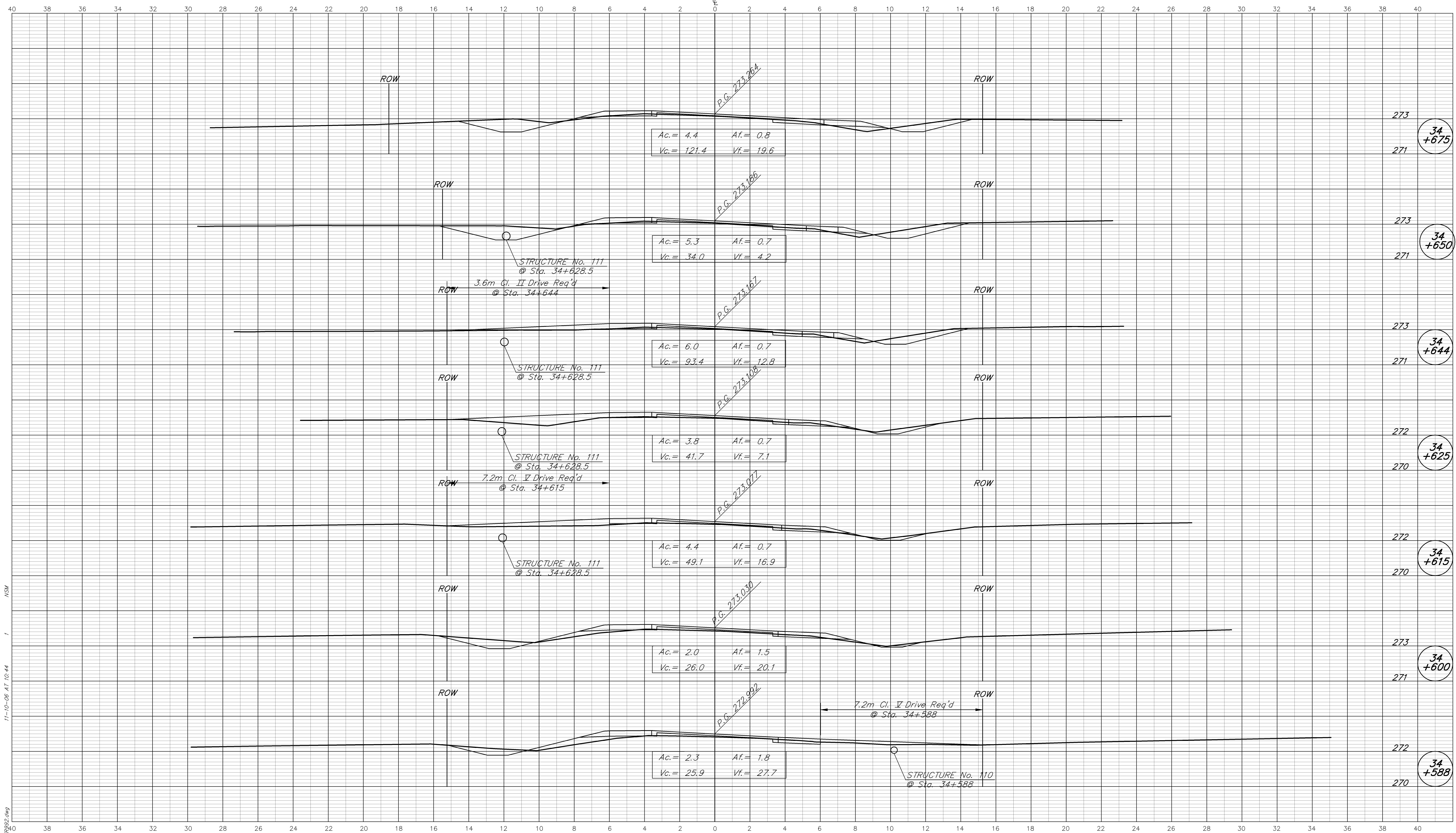
STATE ROAD 37

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SURVEY BOOK	SHEET 228 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 MS4

**BFS**  
Butler Fairman Scufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

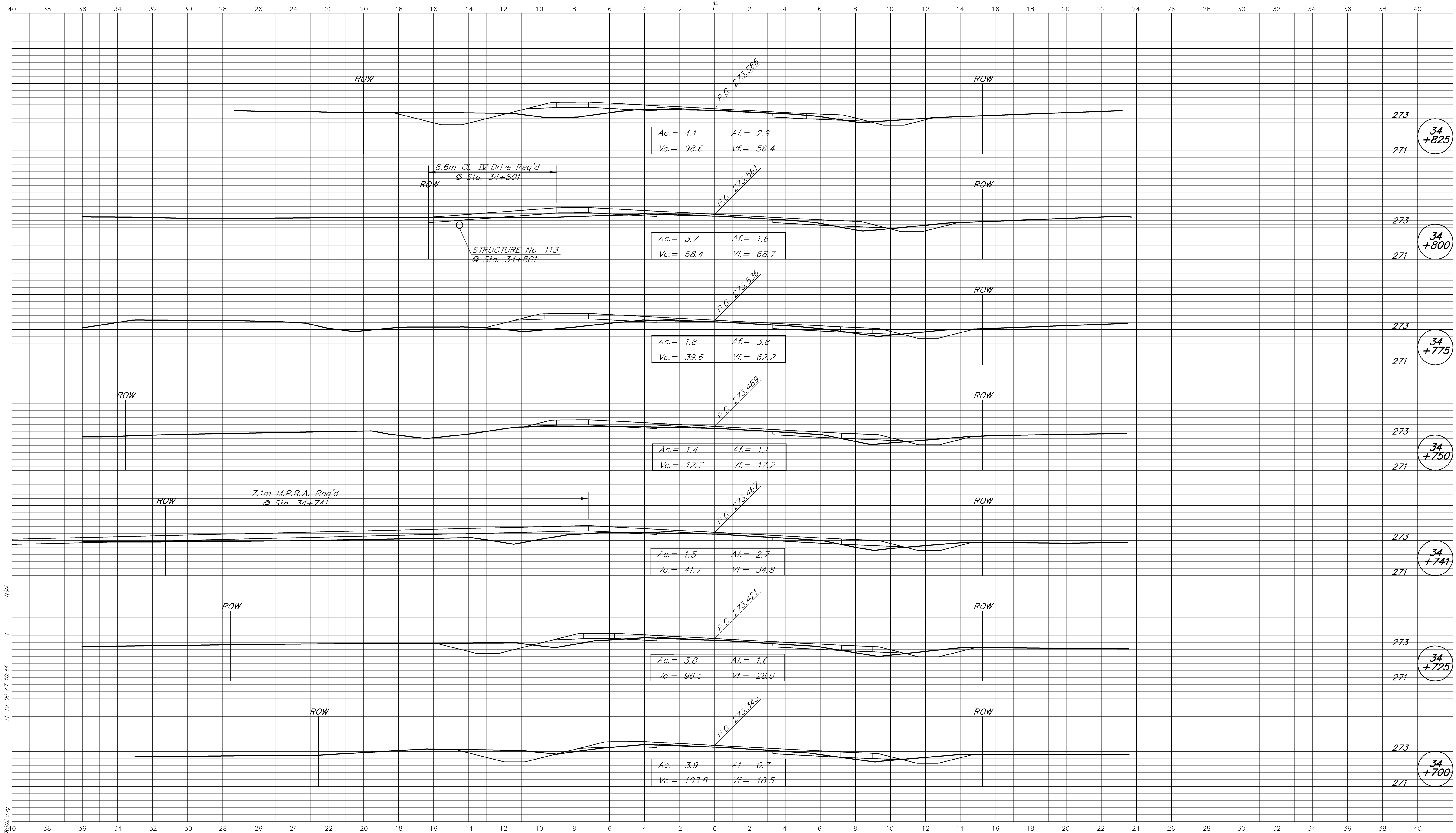
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INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
STATE ROAD 37

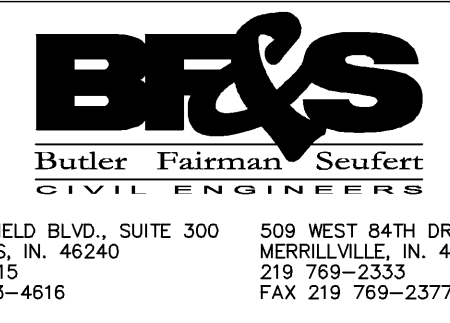
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SURVEY BOOK	SHEET 229 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS  
LINE "A"**

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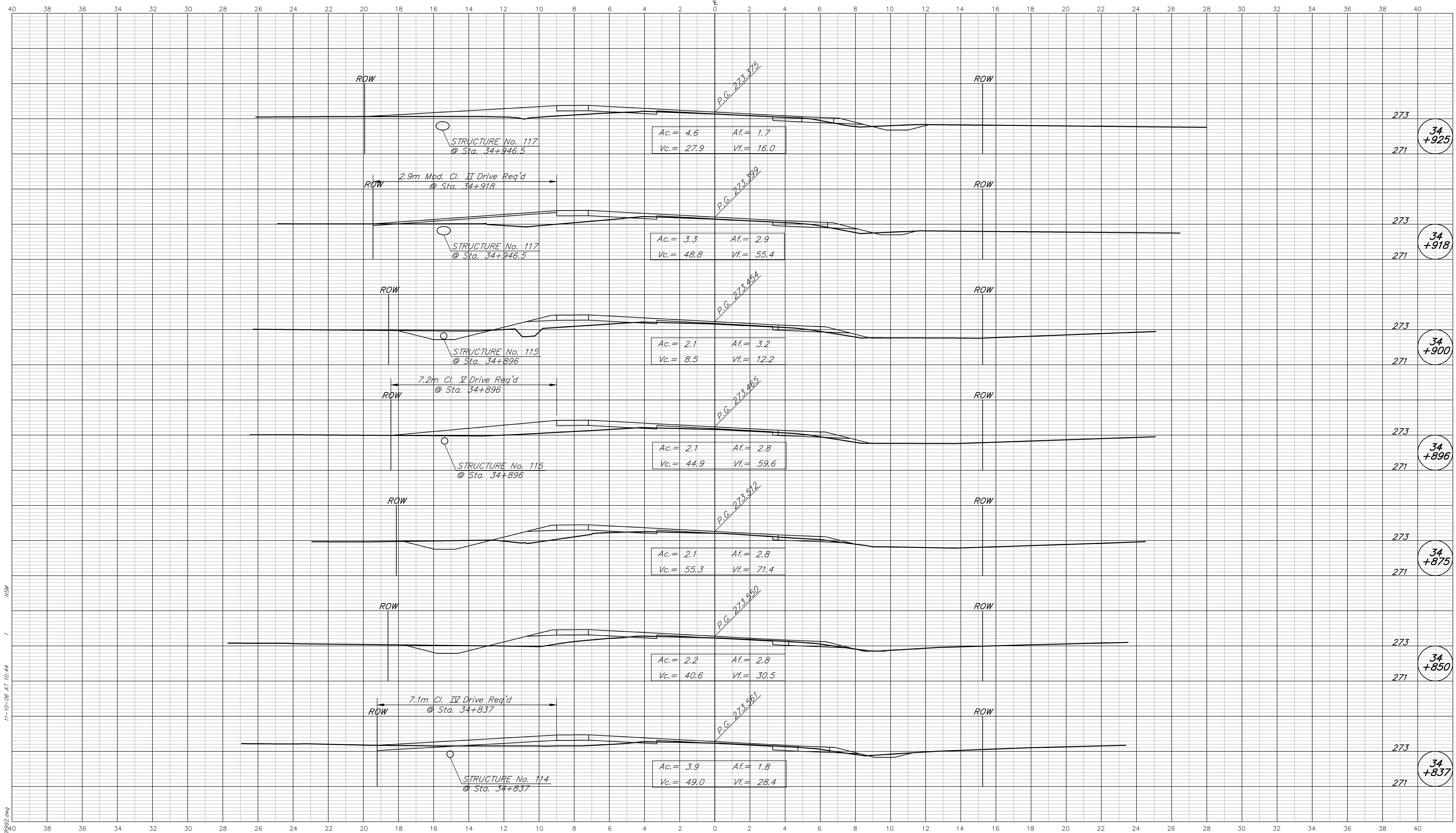
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STATE ROAD 37

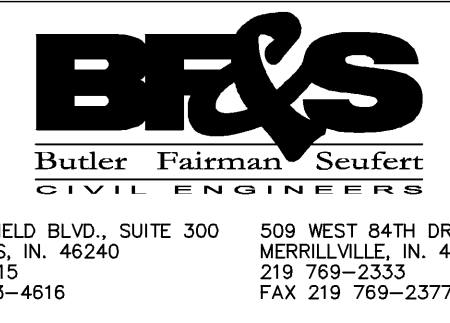
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SURVEY BOOK	SHEET 230 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

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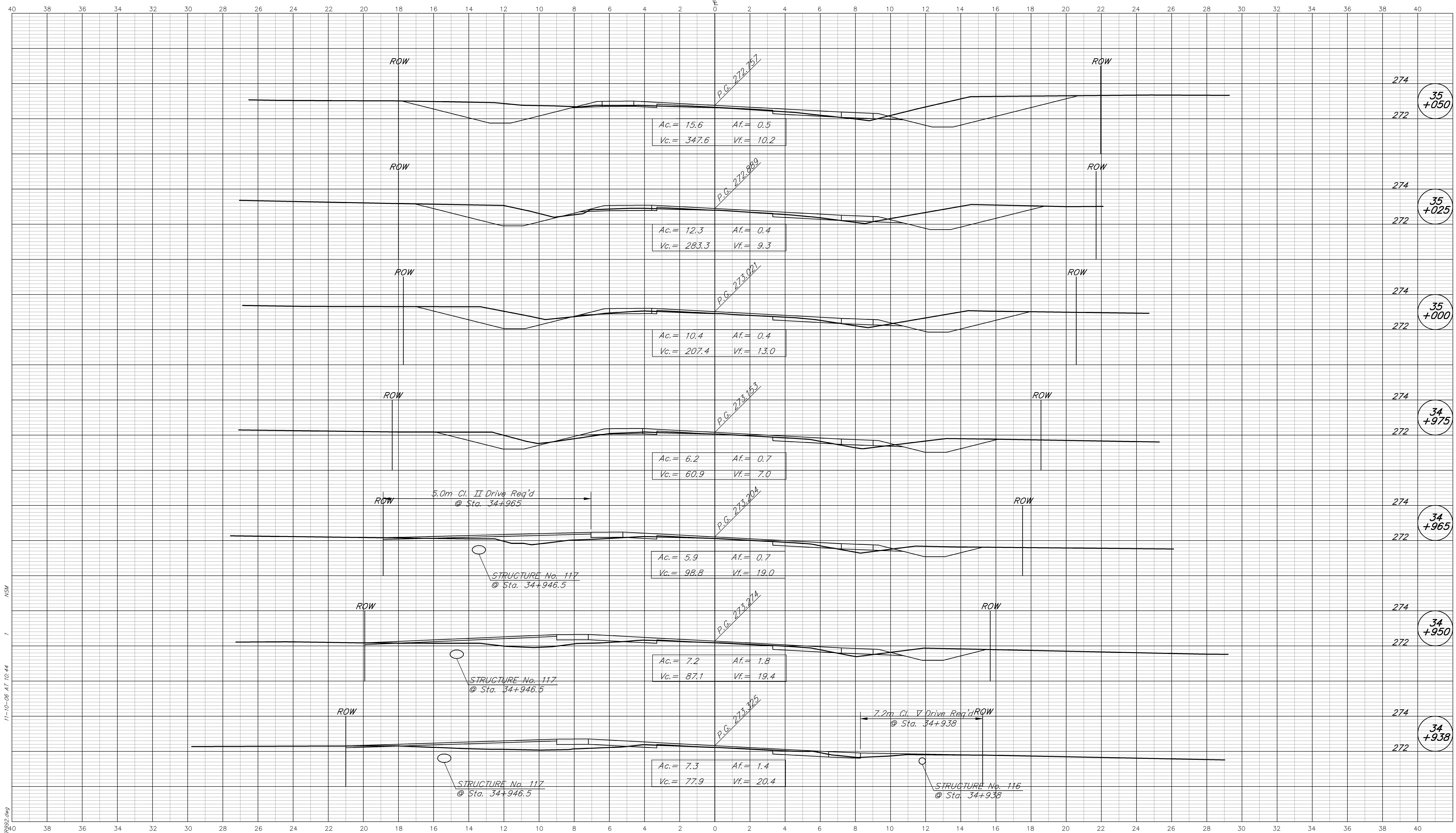
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INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

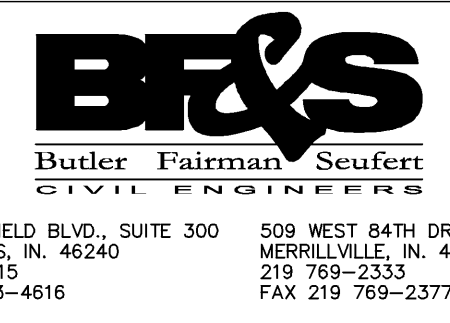
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SURVEY BOOK	SHEET
	231 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 MS4



CROSS SECTIONS LINE "A"	
DESIGNED: <u>MSL</u>	DRAWN: <u>MSS</u>
CHECKED: <u>BZ</u>	CHECKED: <u>MSL</u>

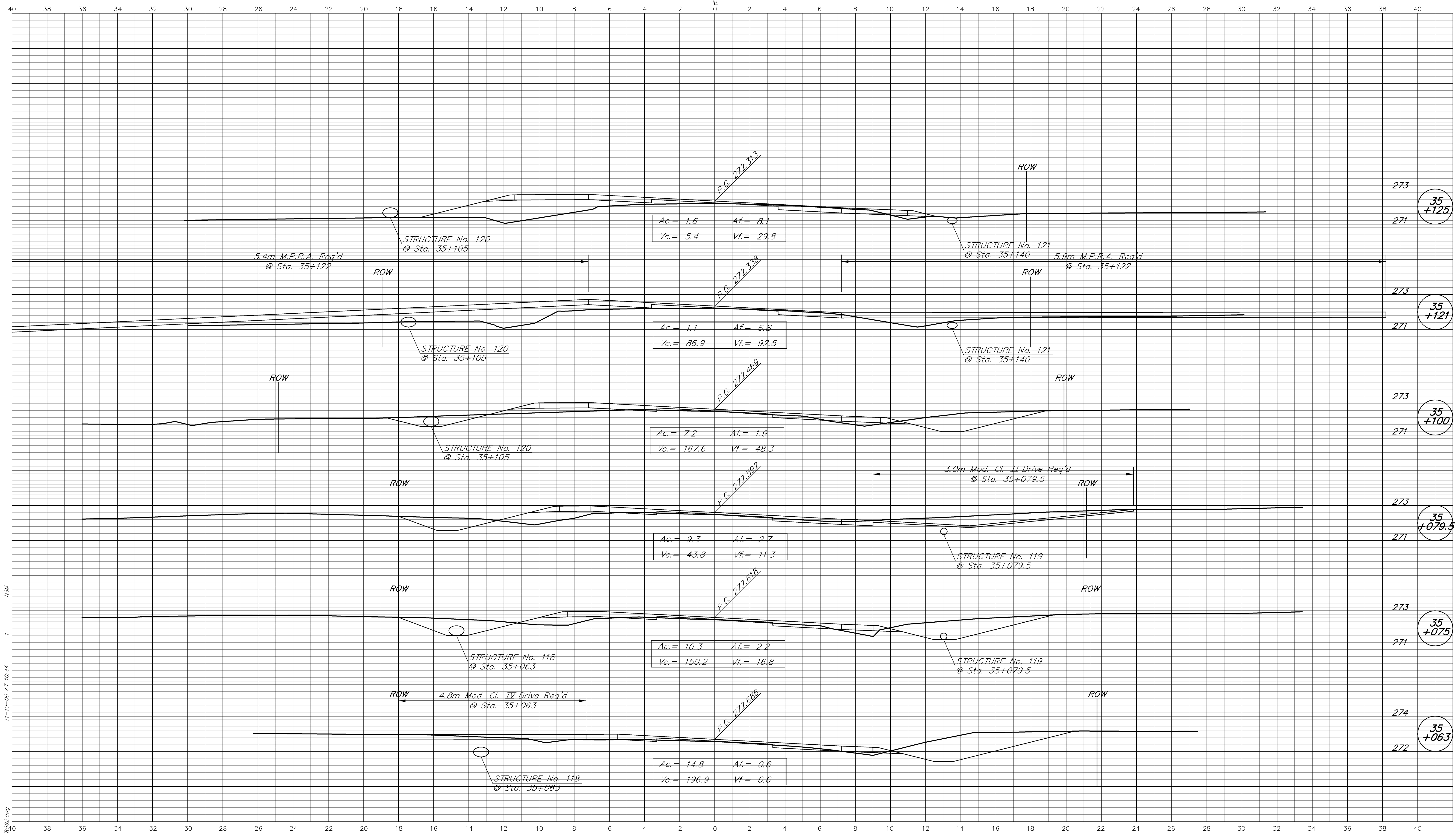
INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
STATE ROAD 37

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SURVEY BOOK	SHEET 232 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

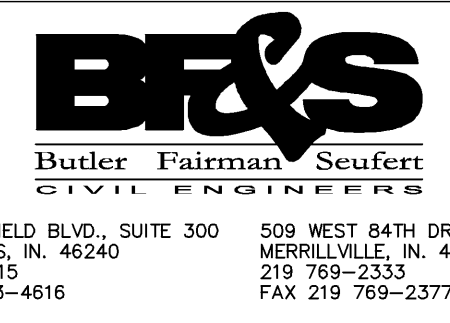
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:44  
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CROSS SECTIONS  
LINE "A"

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CHECKED: BZ CHECKED: MSL

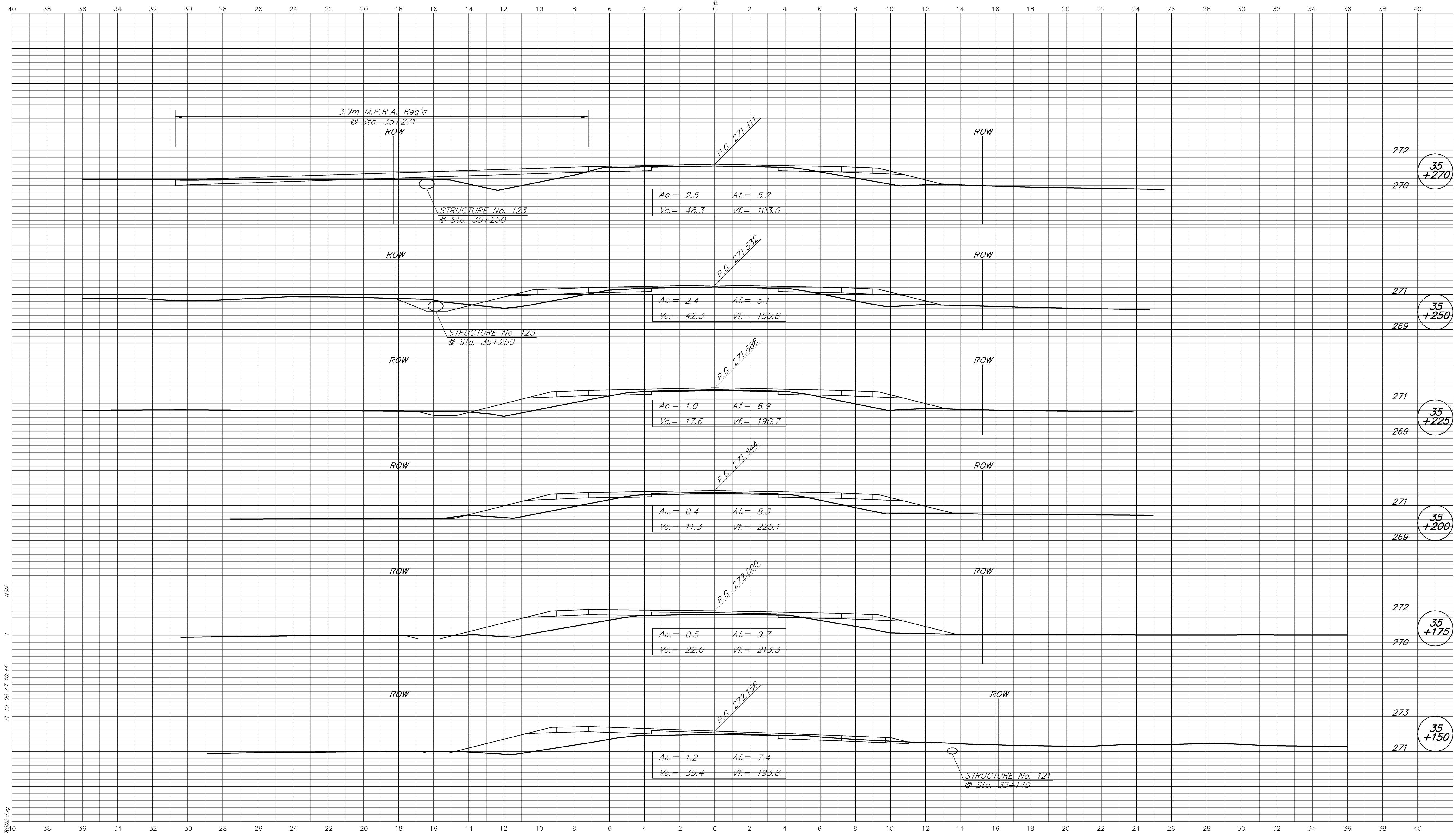
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

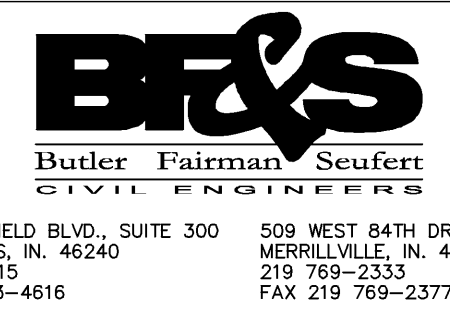
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 233 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 154



**CROSS SECTIONS LINE "A"**

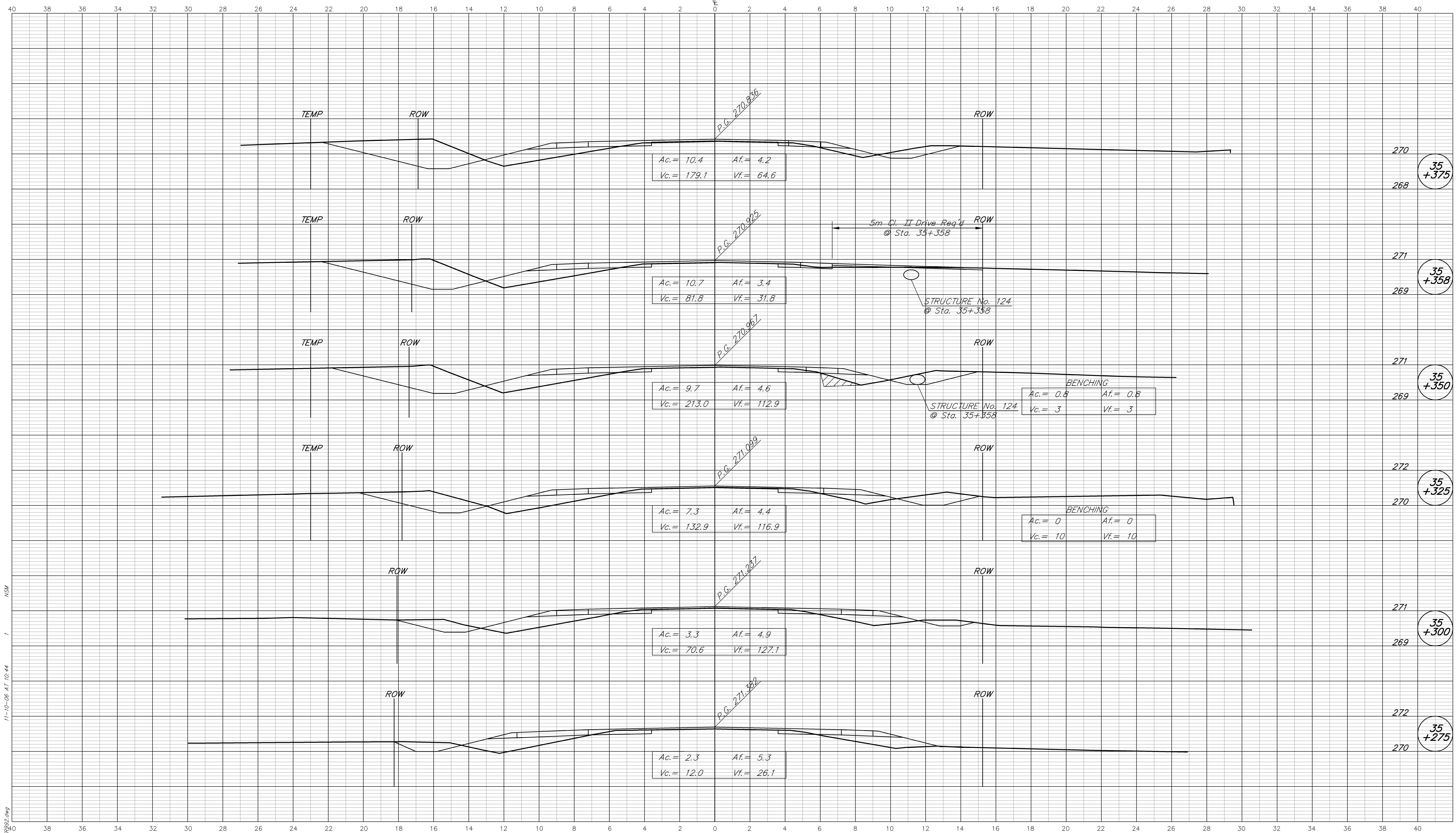
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

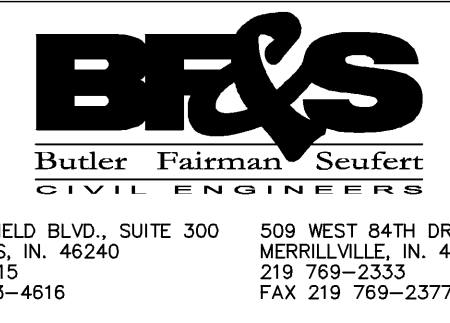
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	234 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
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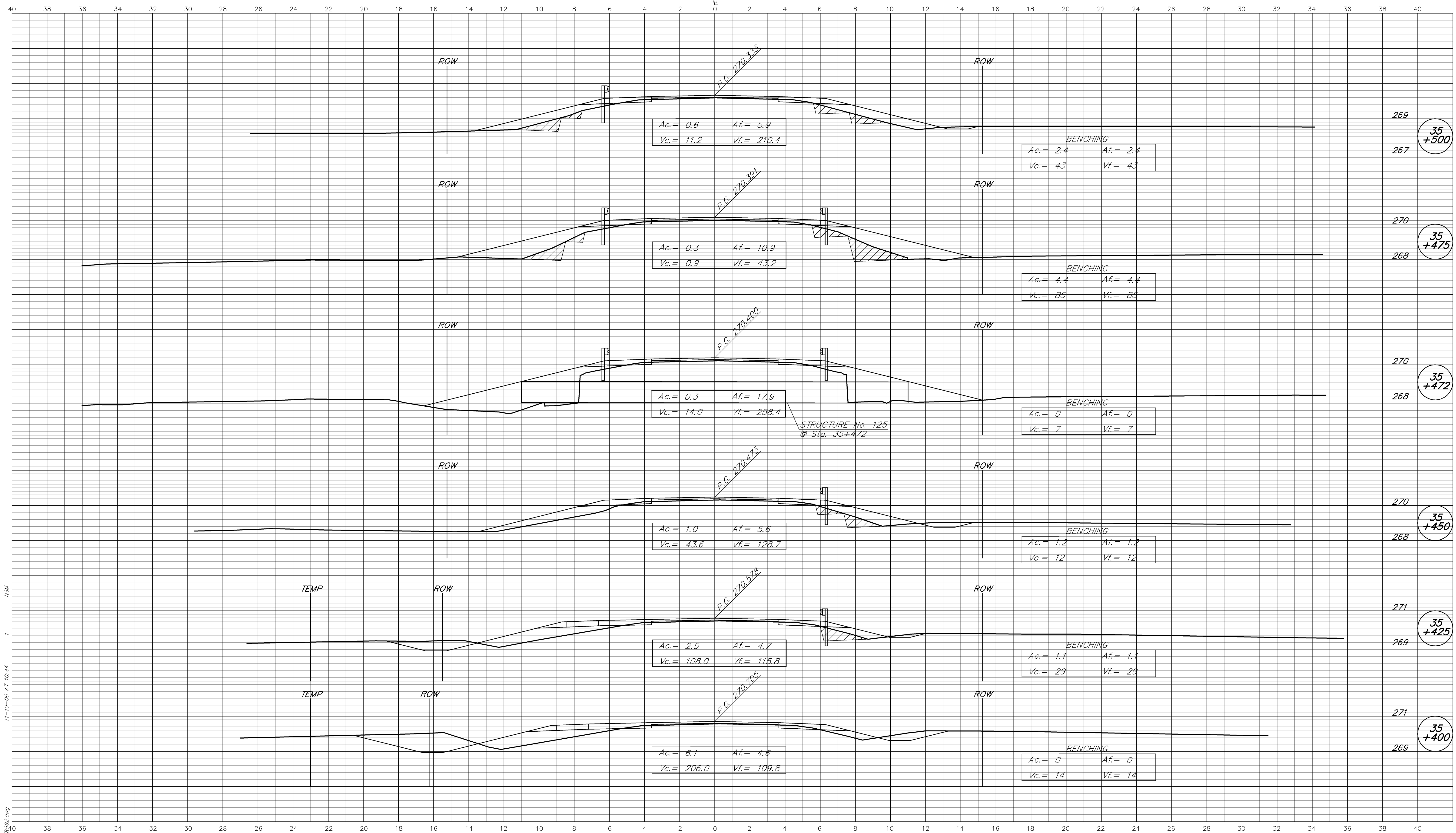
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 235 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 1:100

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

**INDIANA DEPARTMENT OF TRANSPORTATION**

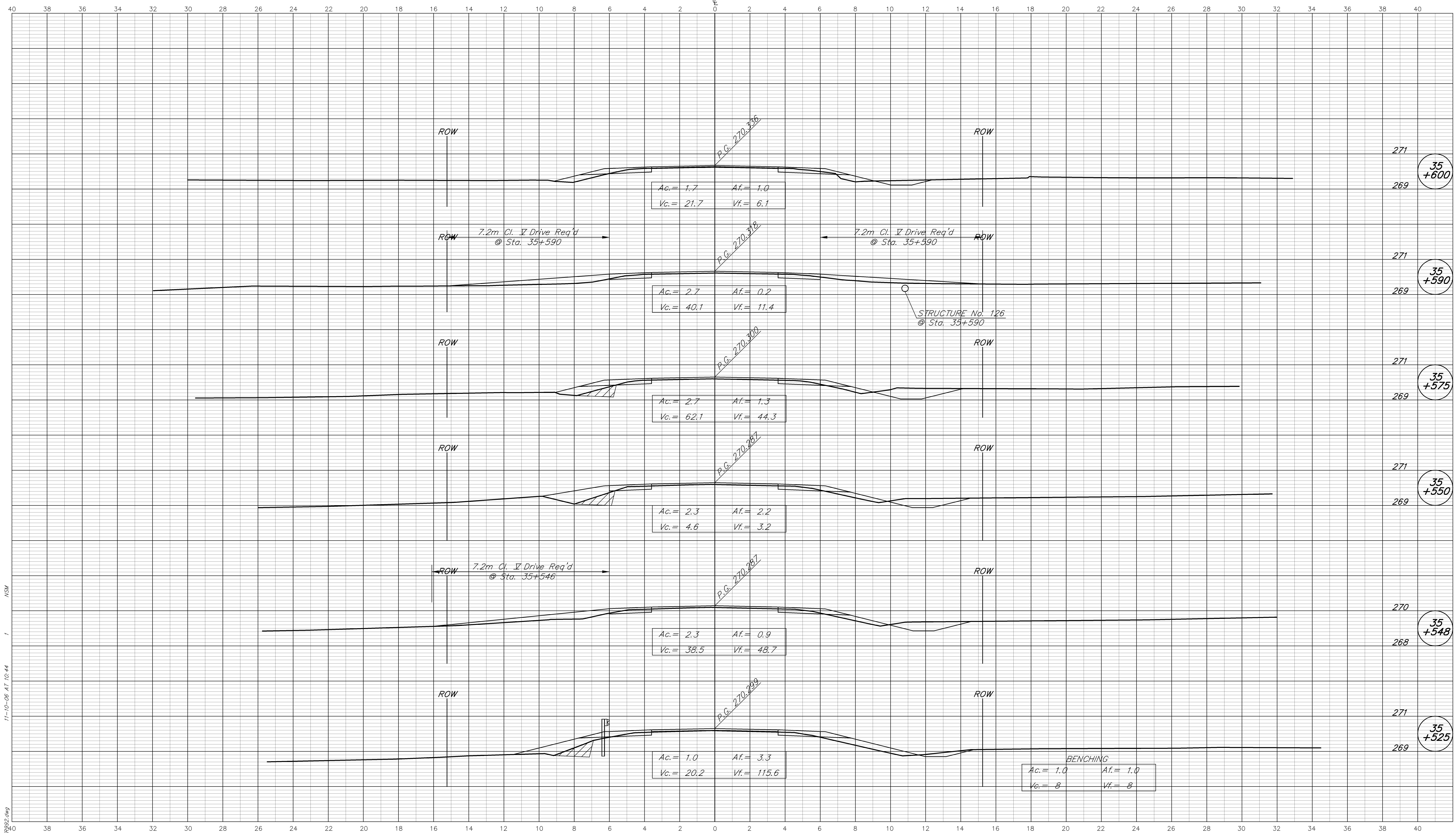
**STATE ROAD 37**

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CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07



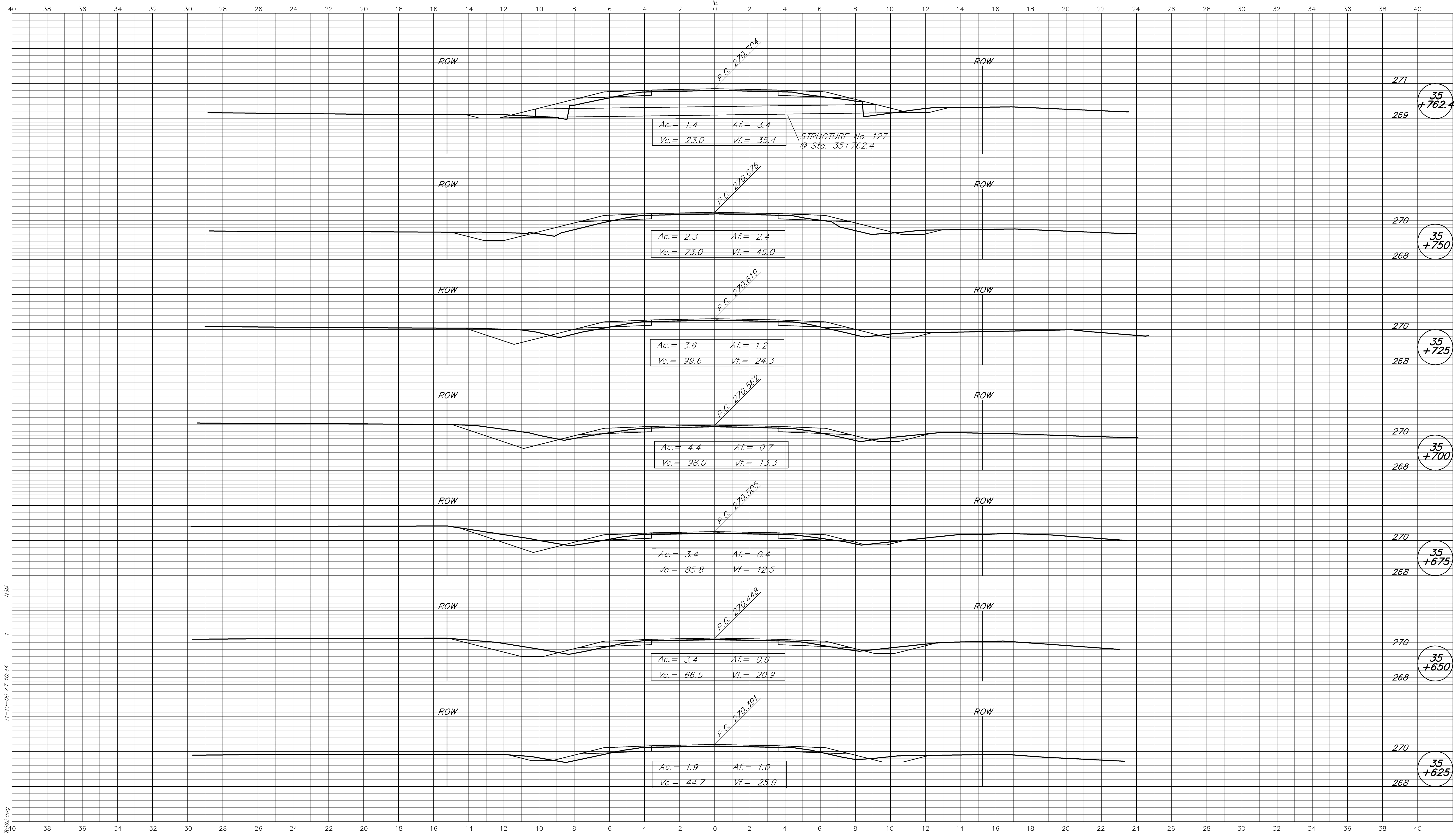
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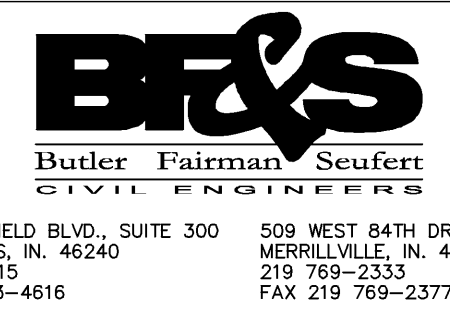
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 <b>Butler Fairman Seufert</b> CIVIL ENGINEERS 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377	<b>CROSS SECTIONS</b> <b>LINE "A"</b> DESIGNED: <u>MSL</u> DRAWN: <u>MSS</u> CHECKED: <u>BZ</u> CHECKED: <u>MSL</u>	INDIANA DEPARTMENT OF TRANSPORTATION  STATE ROAD 37	HORIZONTAL SCALE 1:100 VERTICAL SCALE 1:100 SURVEY BOOK CONTRACT R-28934	FILE 3783 DESIGNATION 9706580 SHEET 237 OF 292 PROJECT STP/097-9(005)	BFS NO. 3783.07
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



R: L3783 (AUTOCAD) ROAD.L3783.dwg



CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
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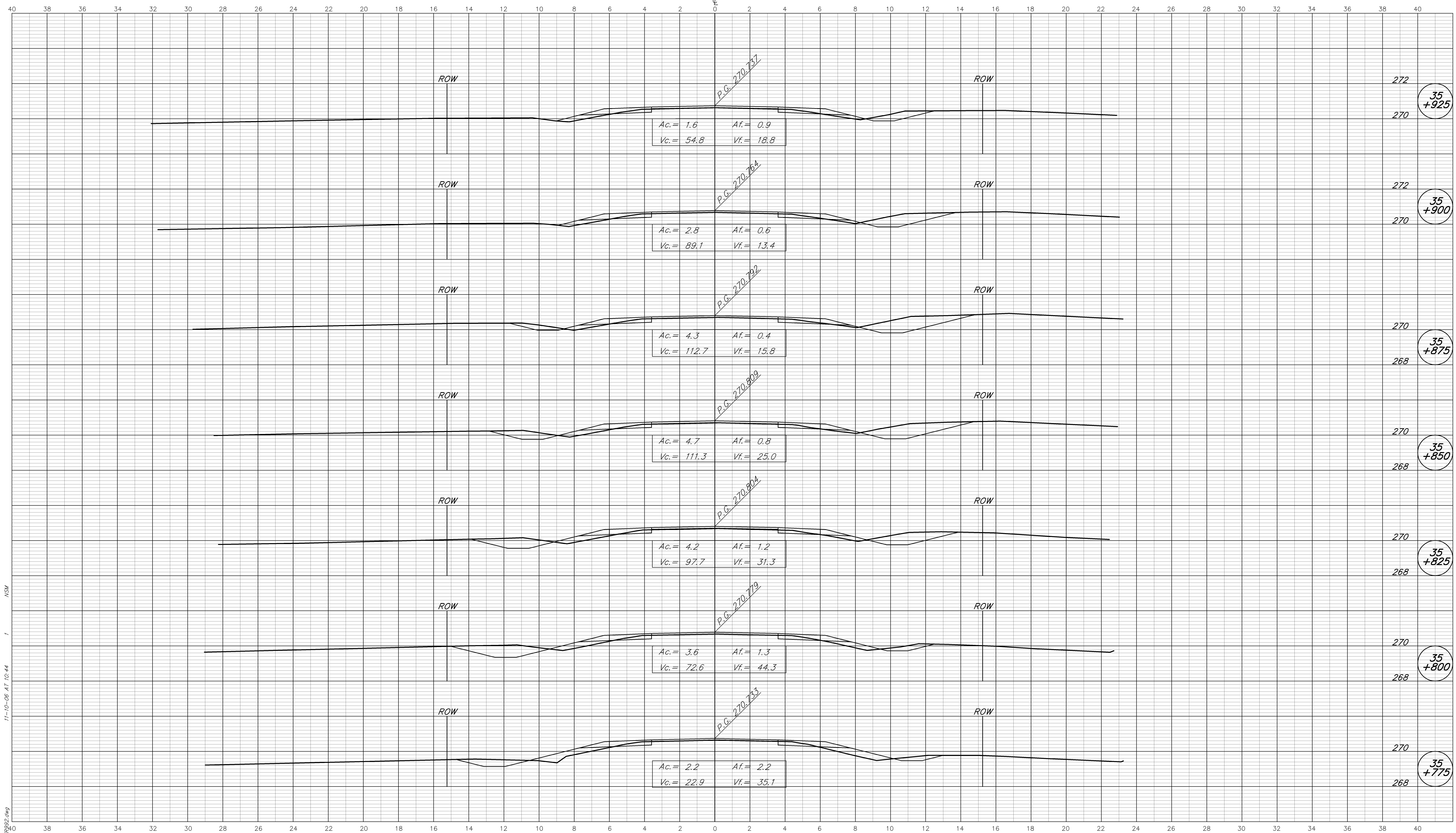
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

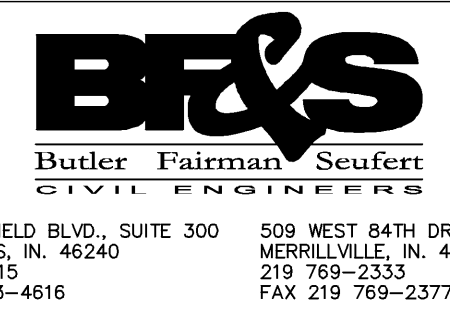
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 238 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:44  
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 MSW



**CROSS SECTIONS  
LINE "A"**

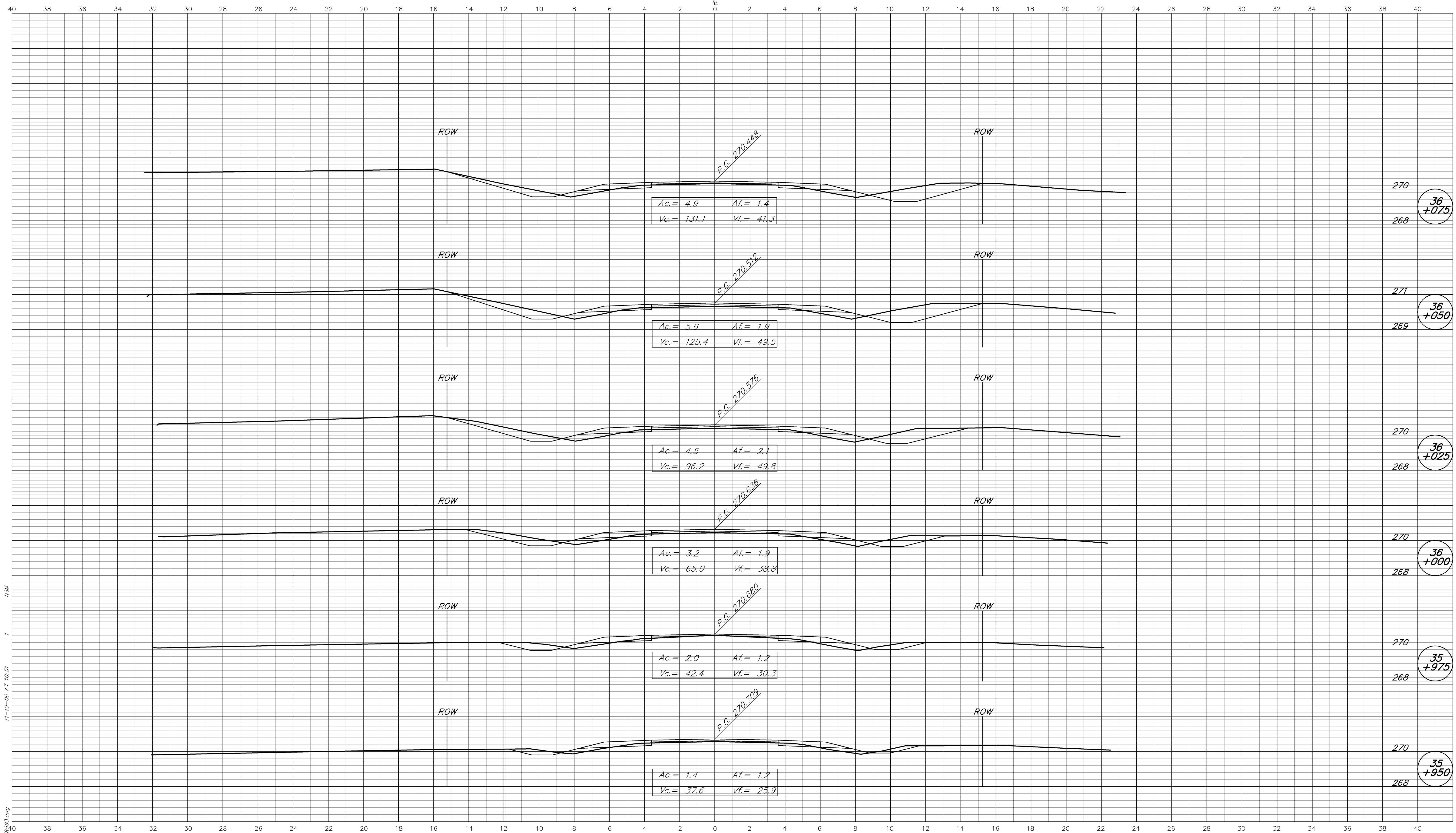
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INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

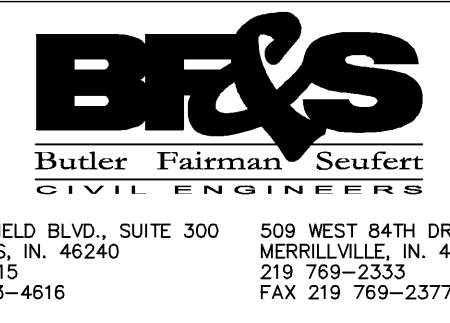
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 239 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
 R: L3783 (AUTOCAD) ROAD L3783.dwg



**CROSS SECTIONS  
LINE "A"**

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INDIANA  
DEPARTMENT OF TRANSPORTATION

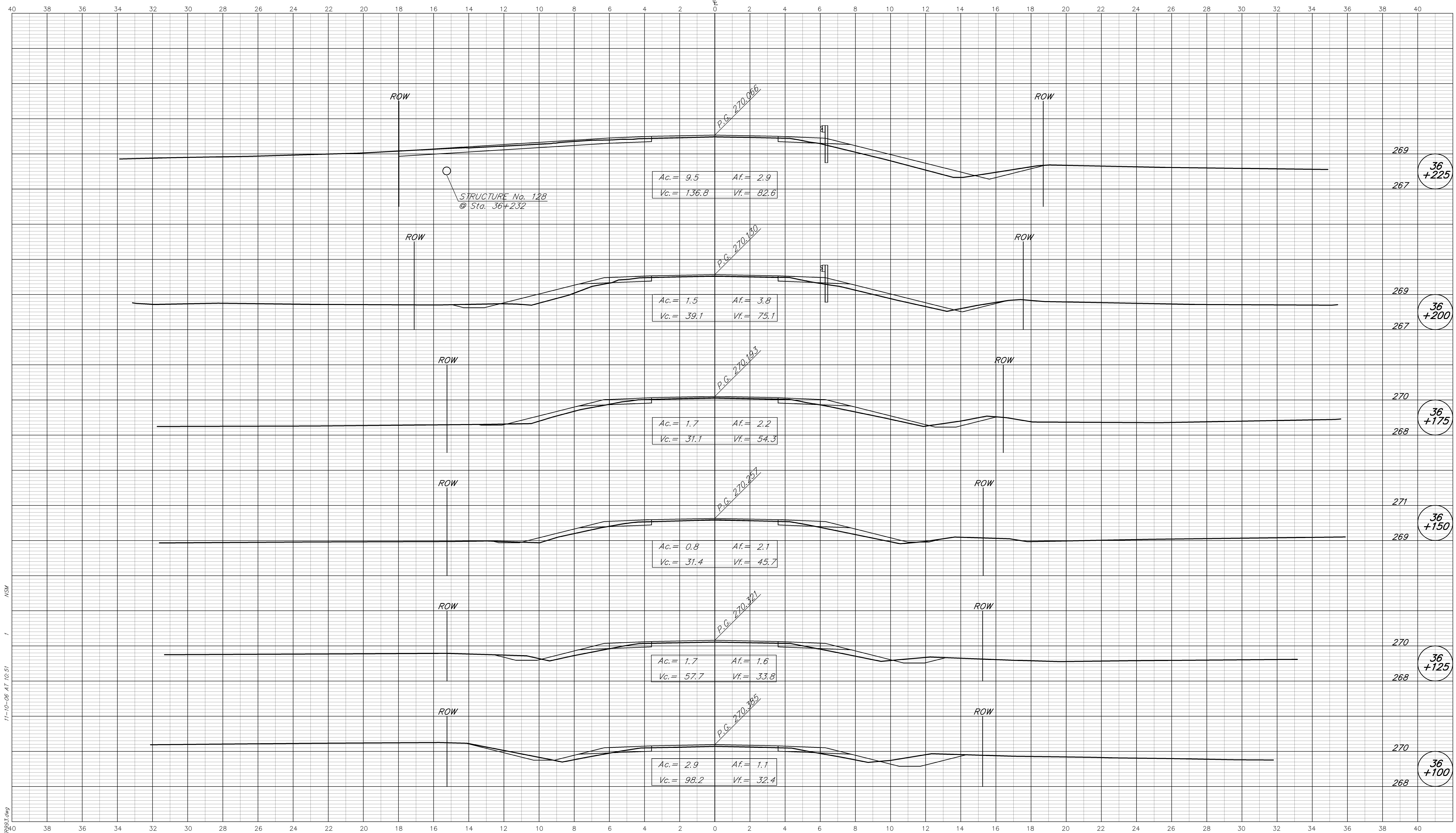
STATE ROAD 37

HORIZONTAL SCALE	FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	240 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

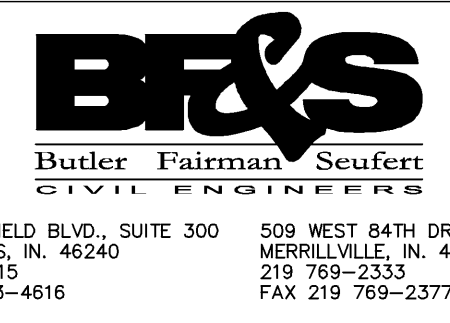
BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
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11-10-06 AT 10:51  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
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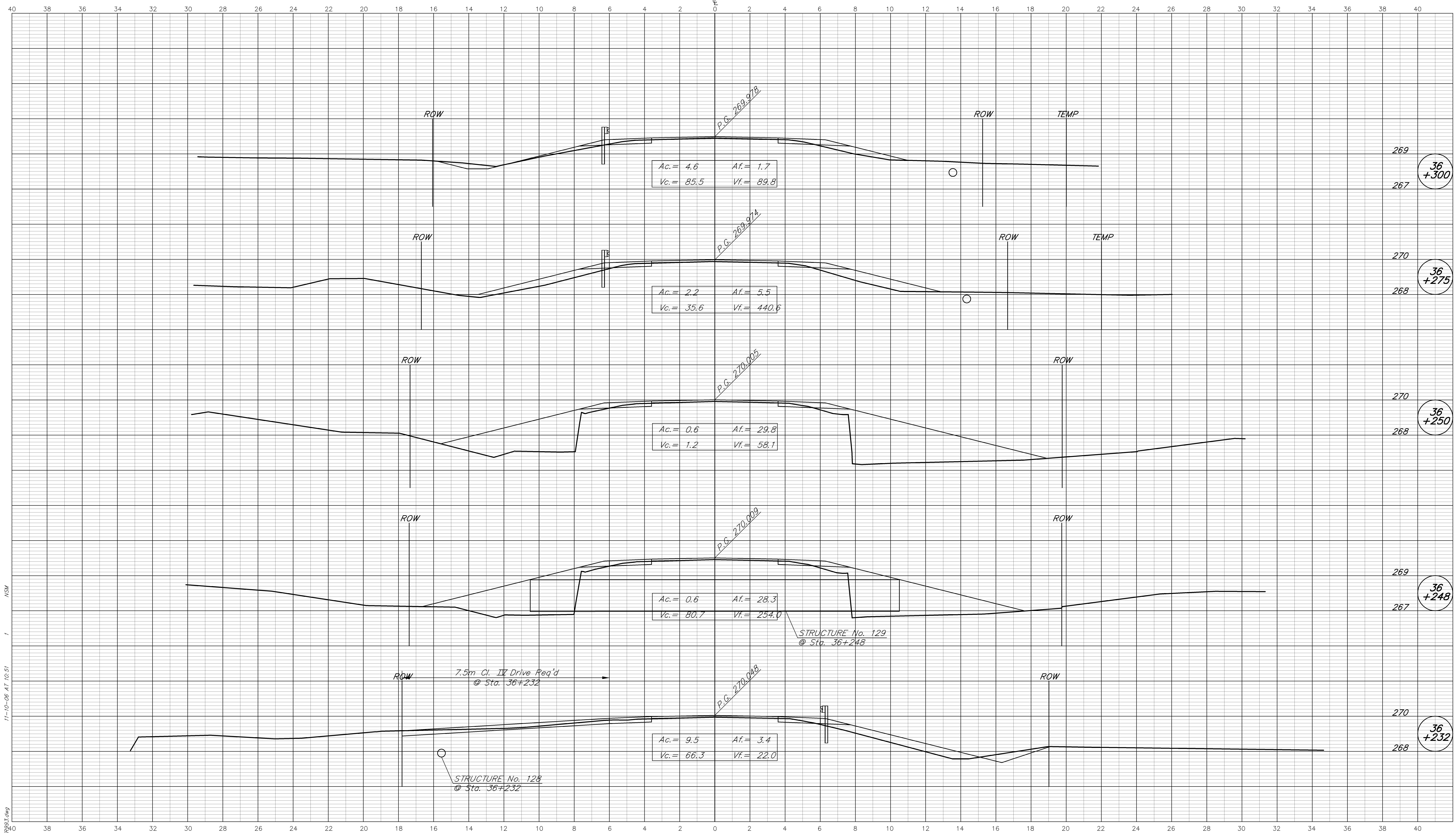
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

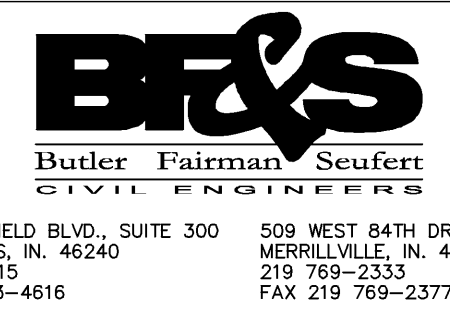
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 241 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
 R:\3783\AUTOCAD\ROAD\3783\923.dwg  
 MSW



**CROSS SECTIONS  
LINE "A"**

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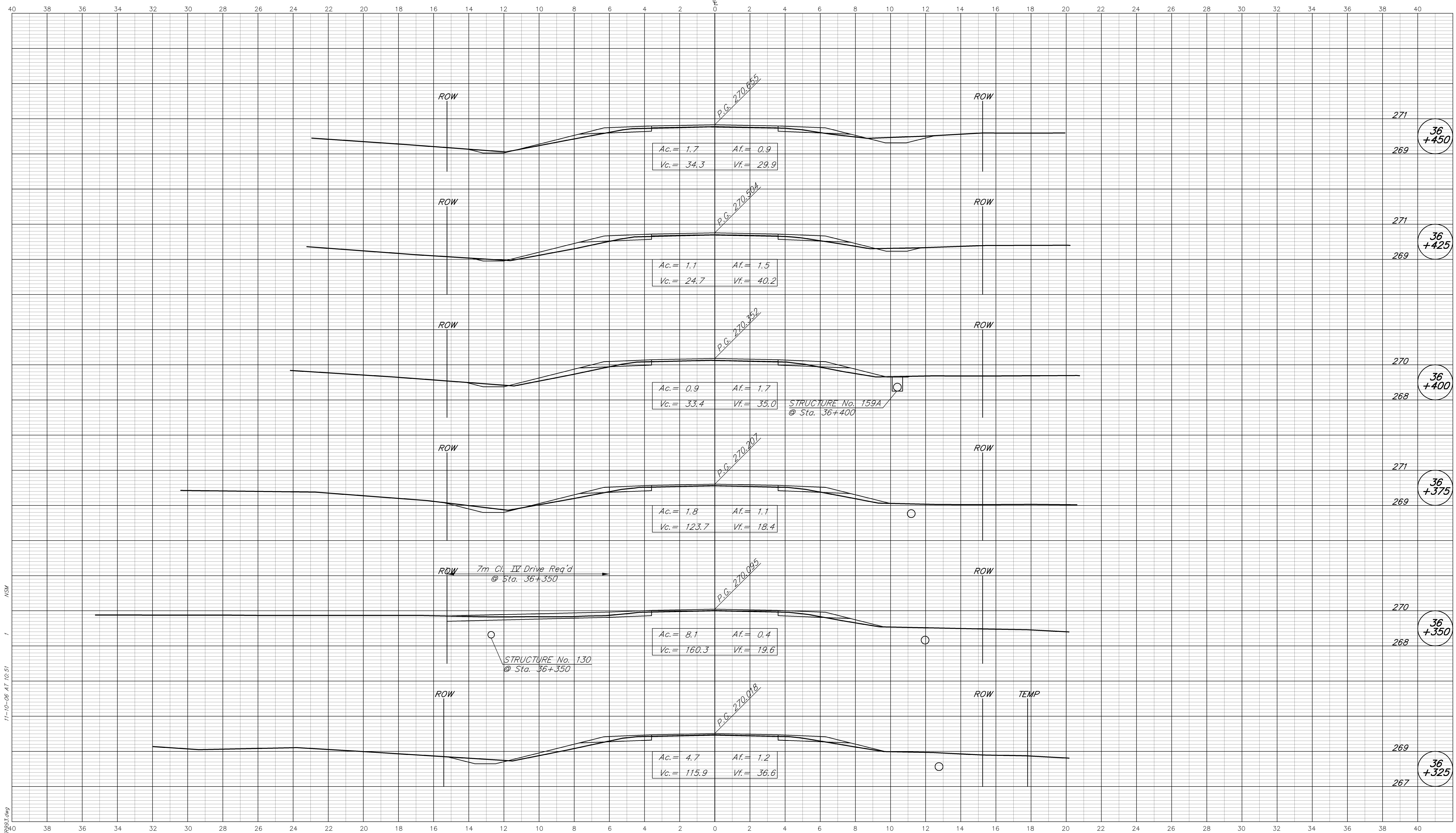
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
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SURVEY BOOK	SHEET
CONTRACT R-28934	242 OF 292 PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT      CROSS SECTIONS      FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
 R: L3783 (AUTOCAD) ROAD L3783.dwg

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Butler Fairman Seufert  
CIVIL ENGINEERS

8450 WESTFIELD BLVD., SUITE 300    509 WEST 84TH DRIVE, SUITE G  
 INDIANAPOLIS, IN. 46240    MERRILLVILLE, IN. 46410  
 317 713-4615    219 769-2333  
 FAX 317 713-4616    FAX 219 769-2377

DESIGNED: <u>MSL</u>		DRAWN: <u>MSS</u>	
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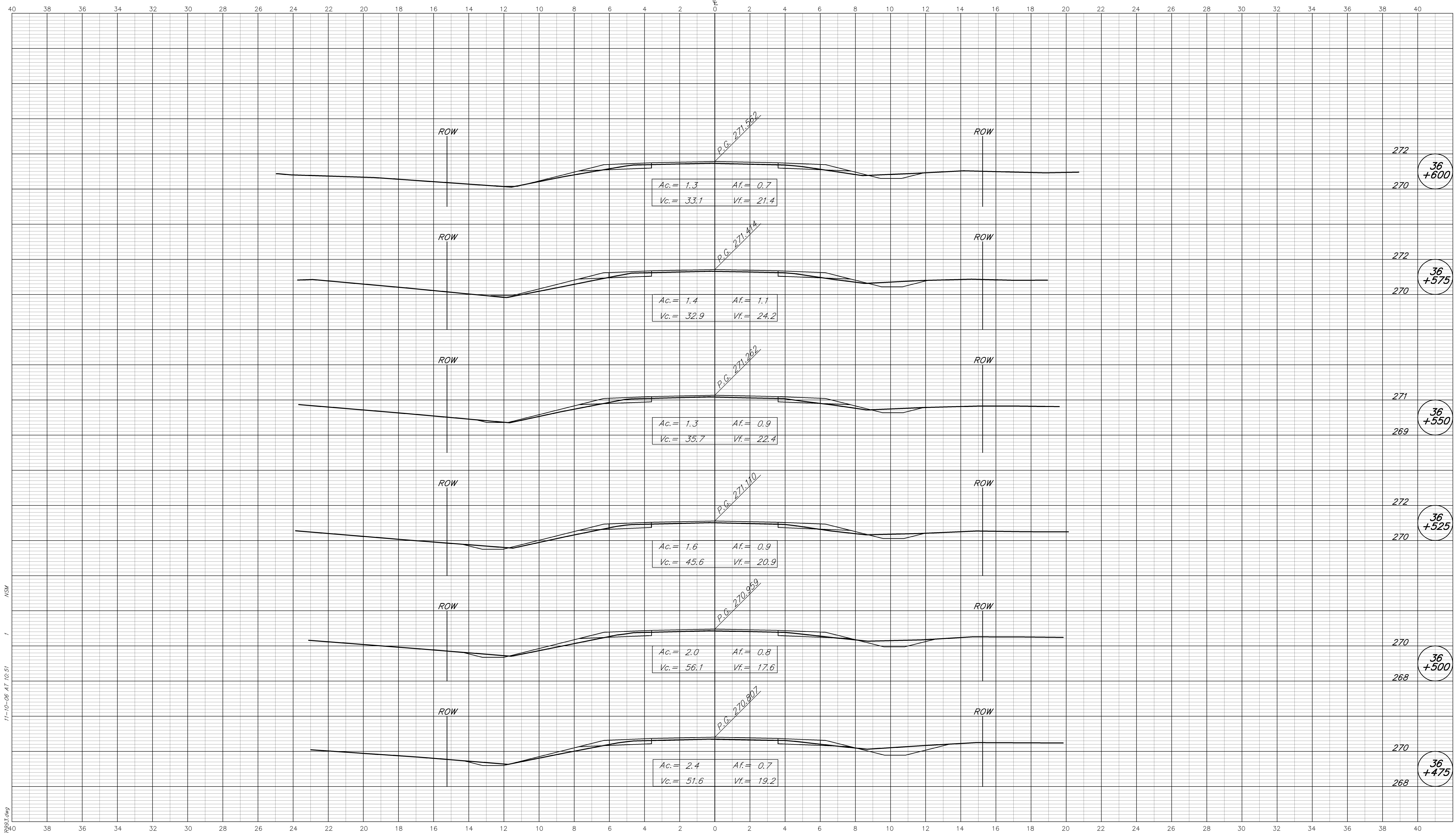
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

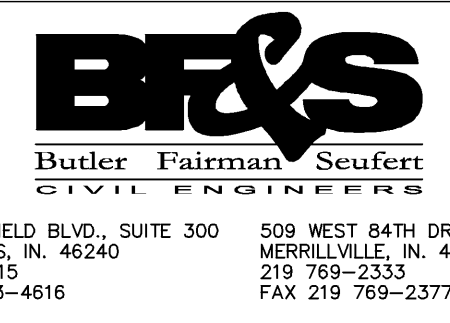
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	243 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
 R: L3783 (AUTOCAD) ROAD L3783.dwg  
 1  
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**CROSS SECTIONS LINE "A"**

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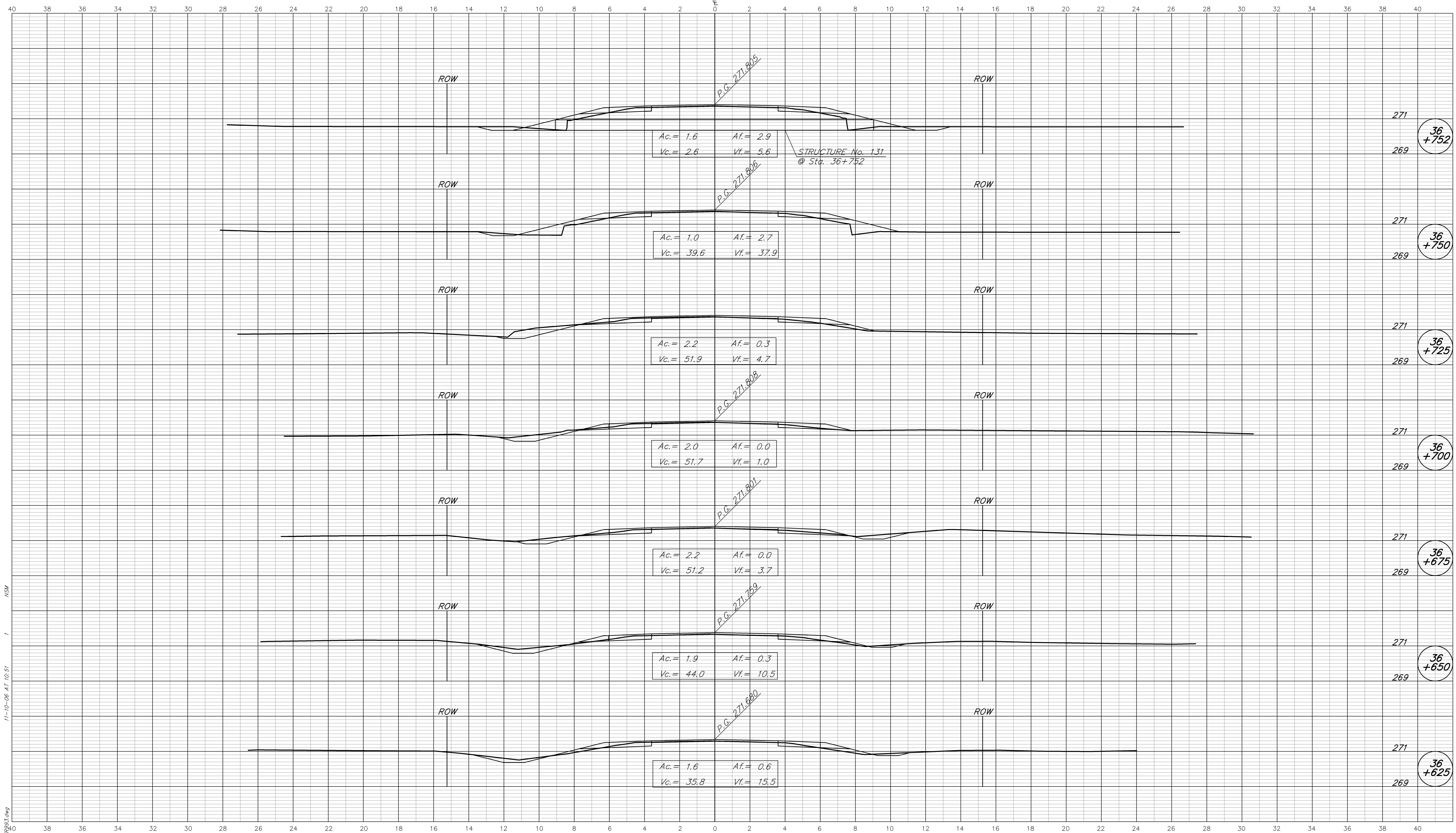
INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

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VERTICAL SCALE	DESIGNATION
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	244 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

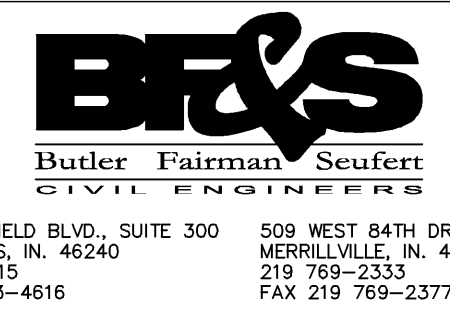
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CUT CROSS SECTIONS FILL  
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MSA  
11-10-06 AT 10:51  
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CROSS SECTIONS  
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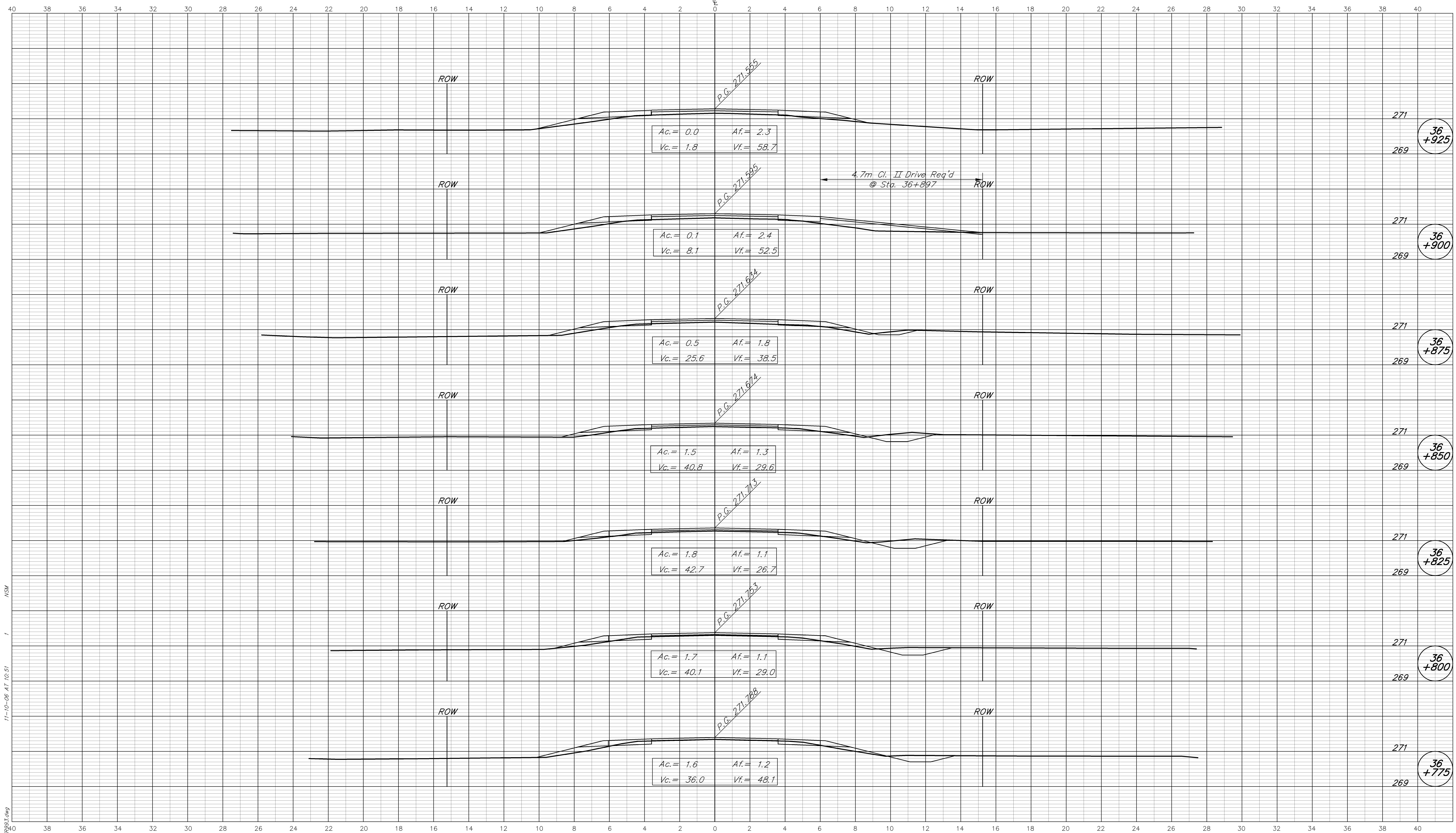
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

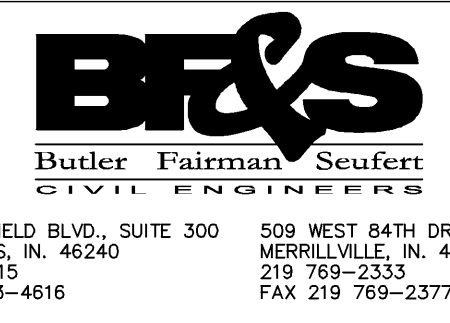
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 245 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:51  
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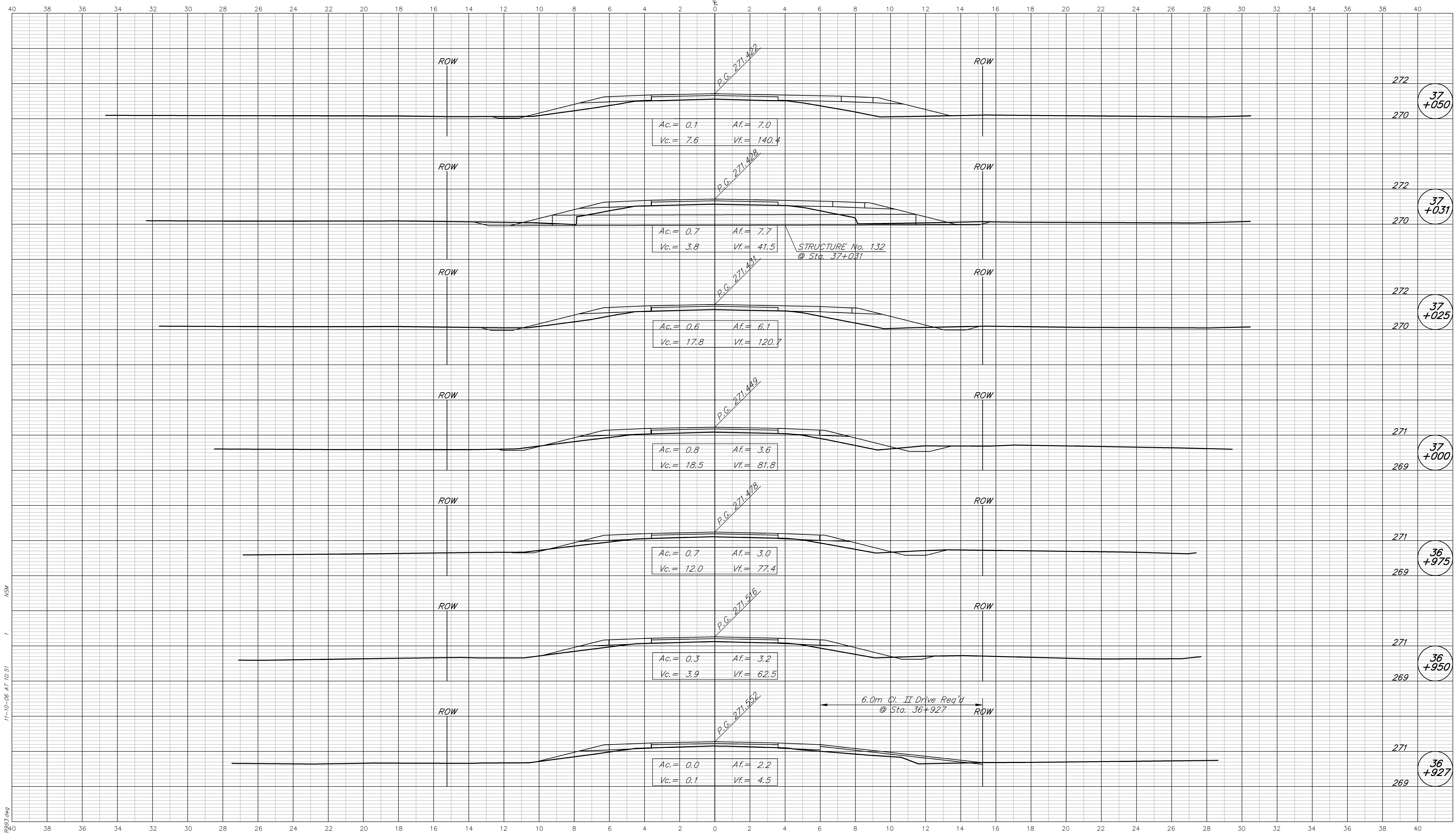
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

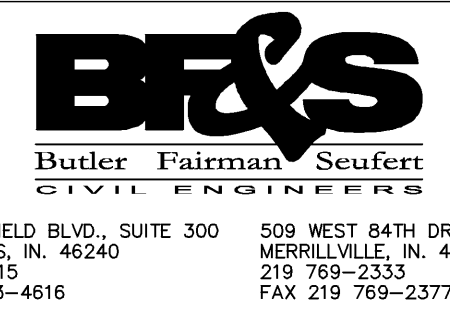
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 246 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT                      CROSS SECTIONS                      FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:51  
R: L3783 (AUTOCAD) ROAD L3783.dwg



**CROSS SECTIONS  
LINE "A"**

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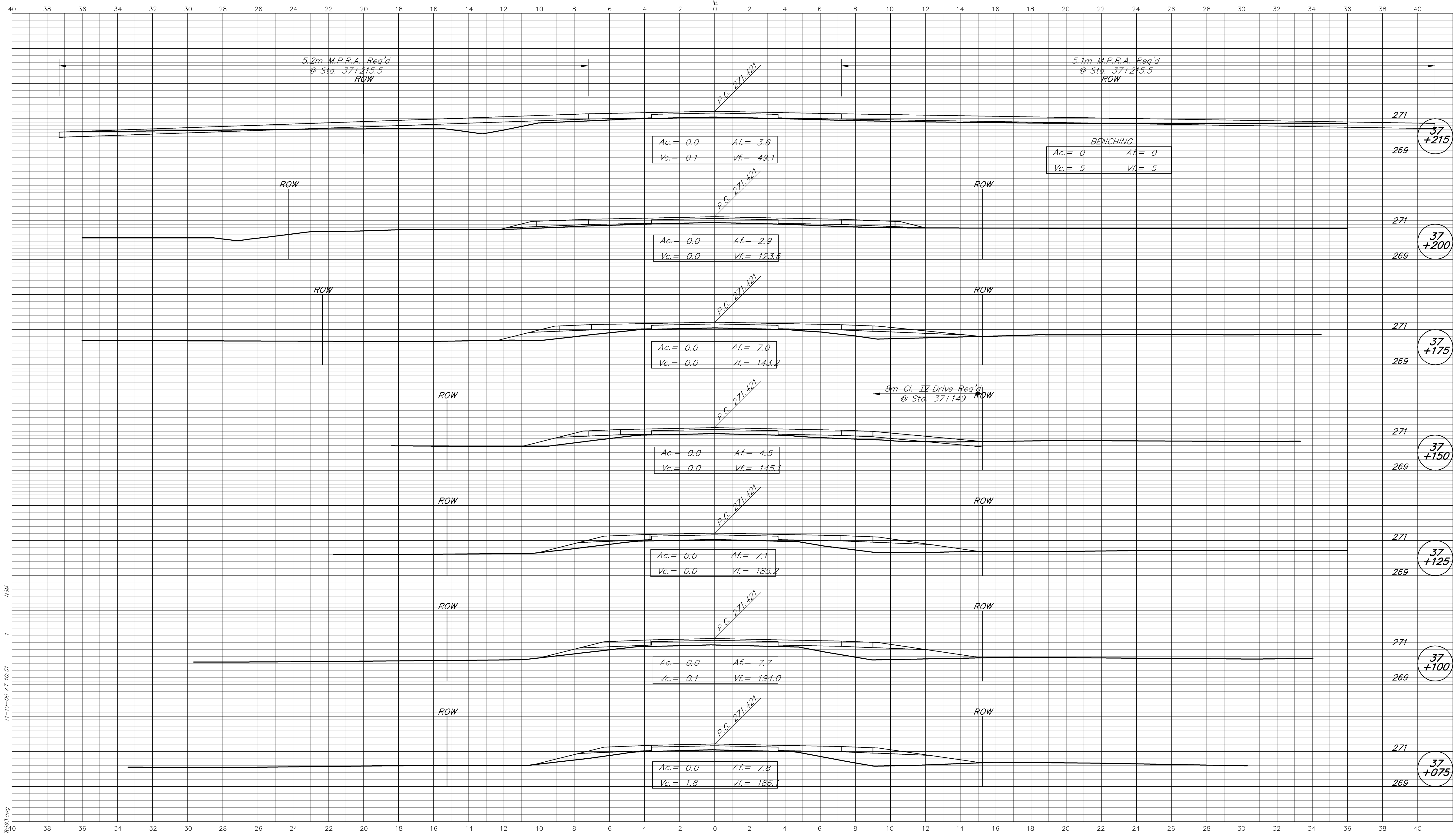
**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**STATE ROAD 37**

HORIZONTAL SCALE 1:100	FILE 3783
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SURVEY BOOK	SHEET
	247 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
 R: L3783 (AUTOCAD) ROAD L3783.dwg  
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 1/34

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CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

DESIGNED: MSL DRAWN: MSS  
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**INDIANA DEPARTMENT OF TRANSPORTATION**

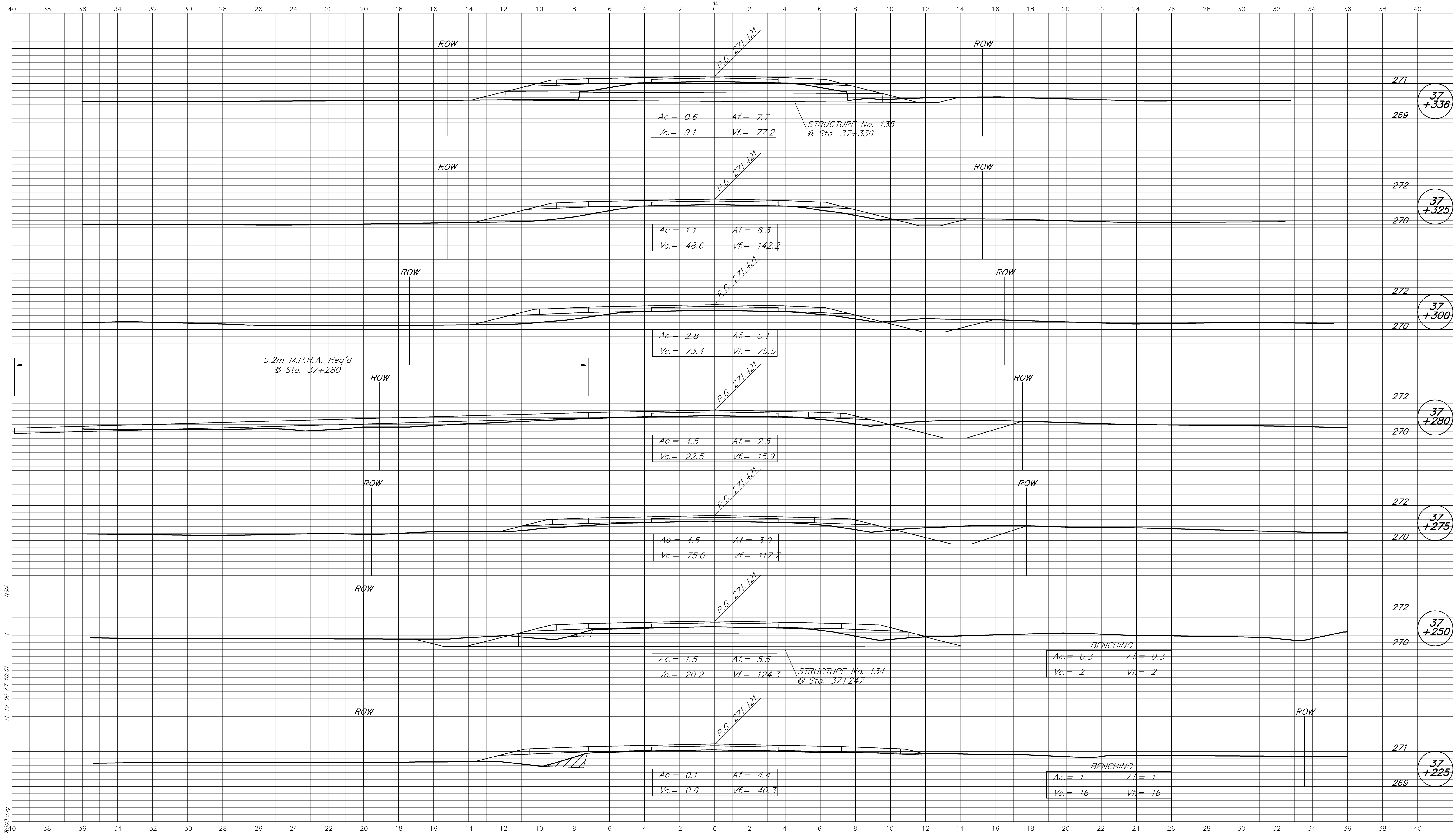
**STATE ROAD 37**

HORIZONTAL SCALE	FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	248 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

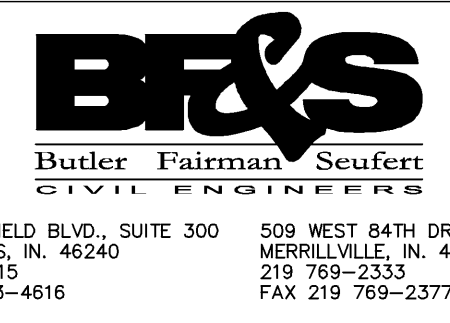
BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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 154



CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

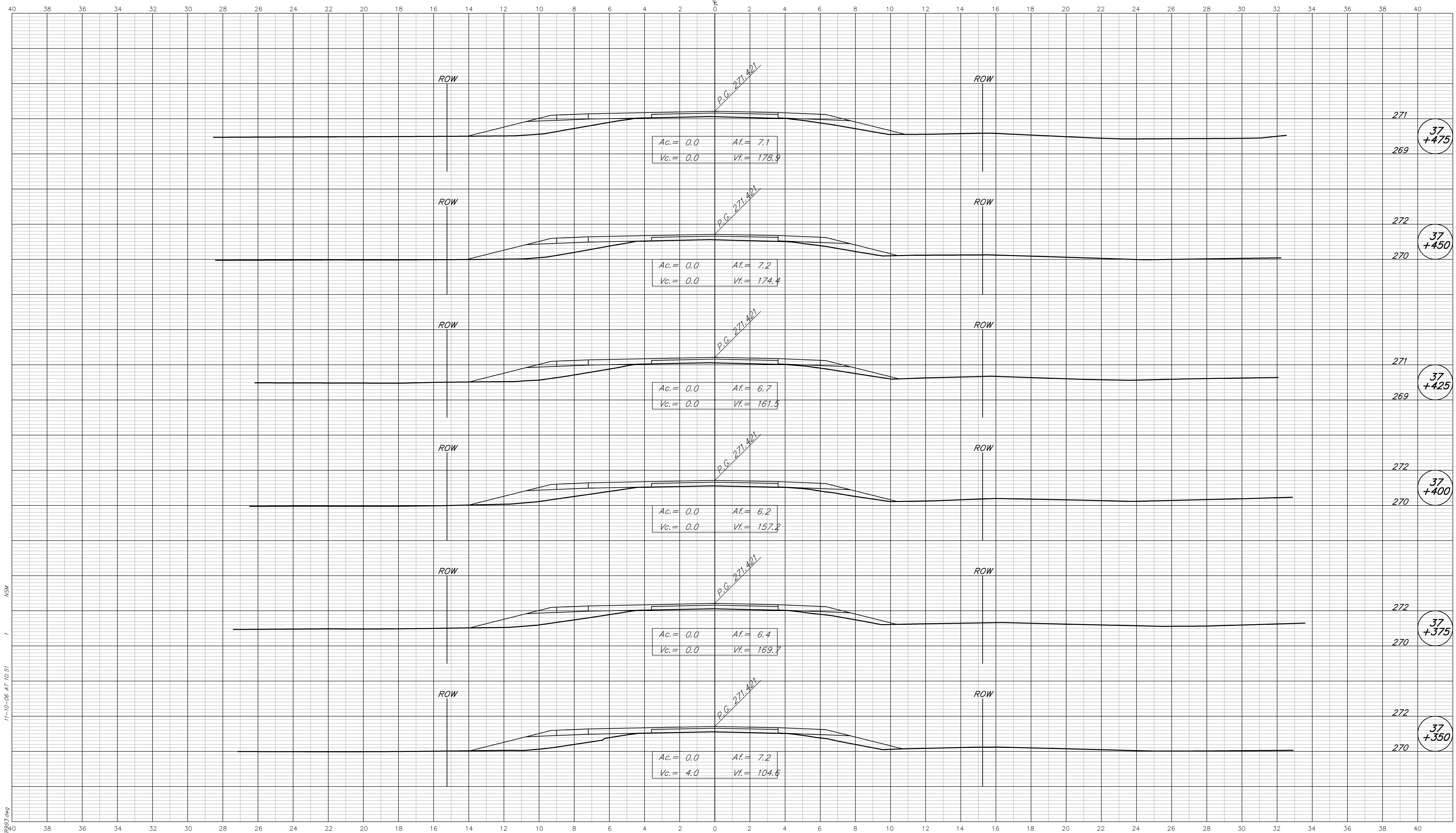
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

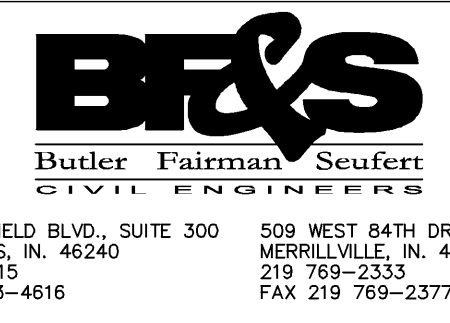
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 249 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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**CROSS SECTIONS LINE "A"**

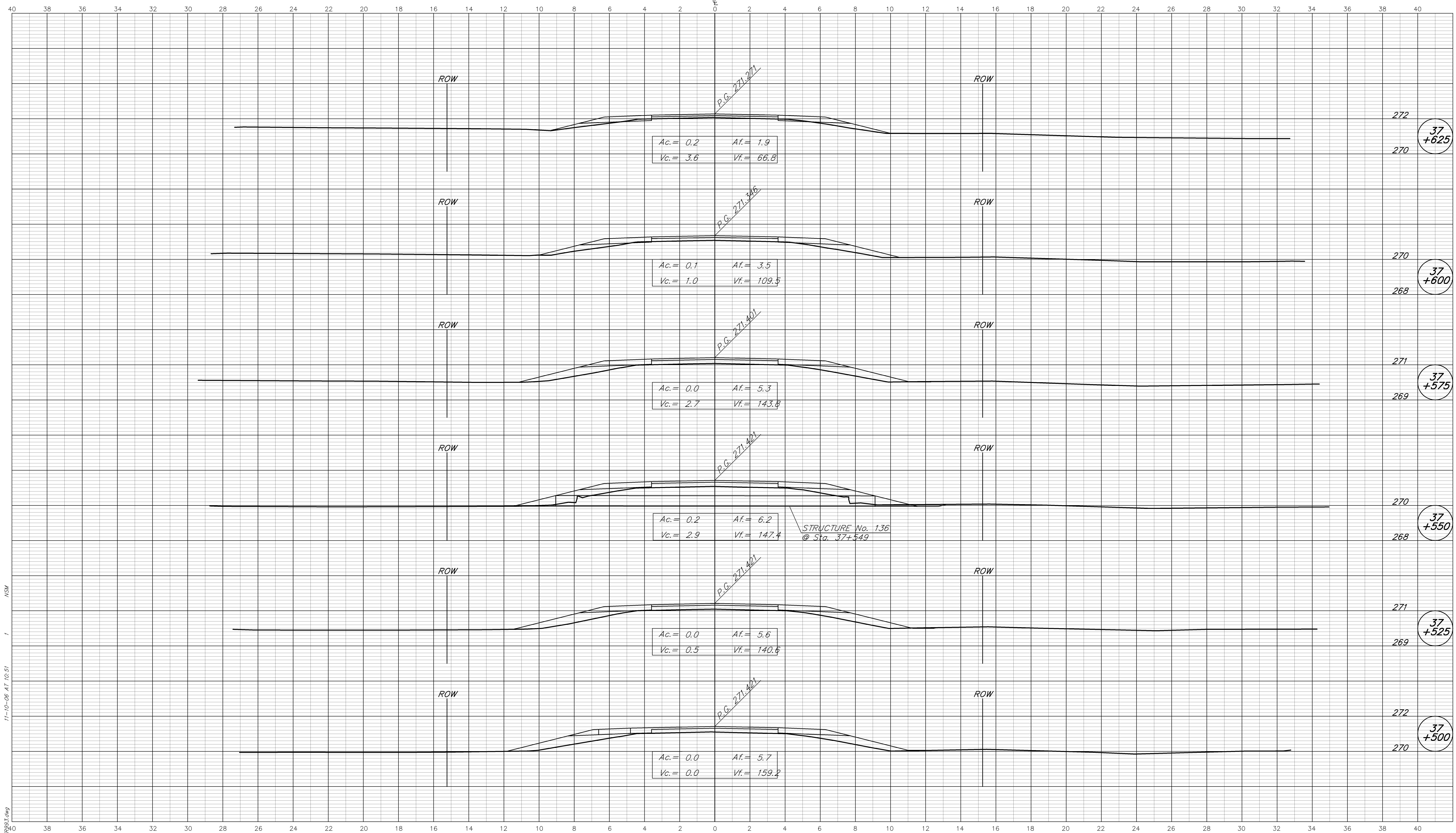
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
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VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	250 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



R: L3783 (AUTOCAD) ROAD.L3783.dwg 11-10-06 AT 10:51

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CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

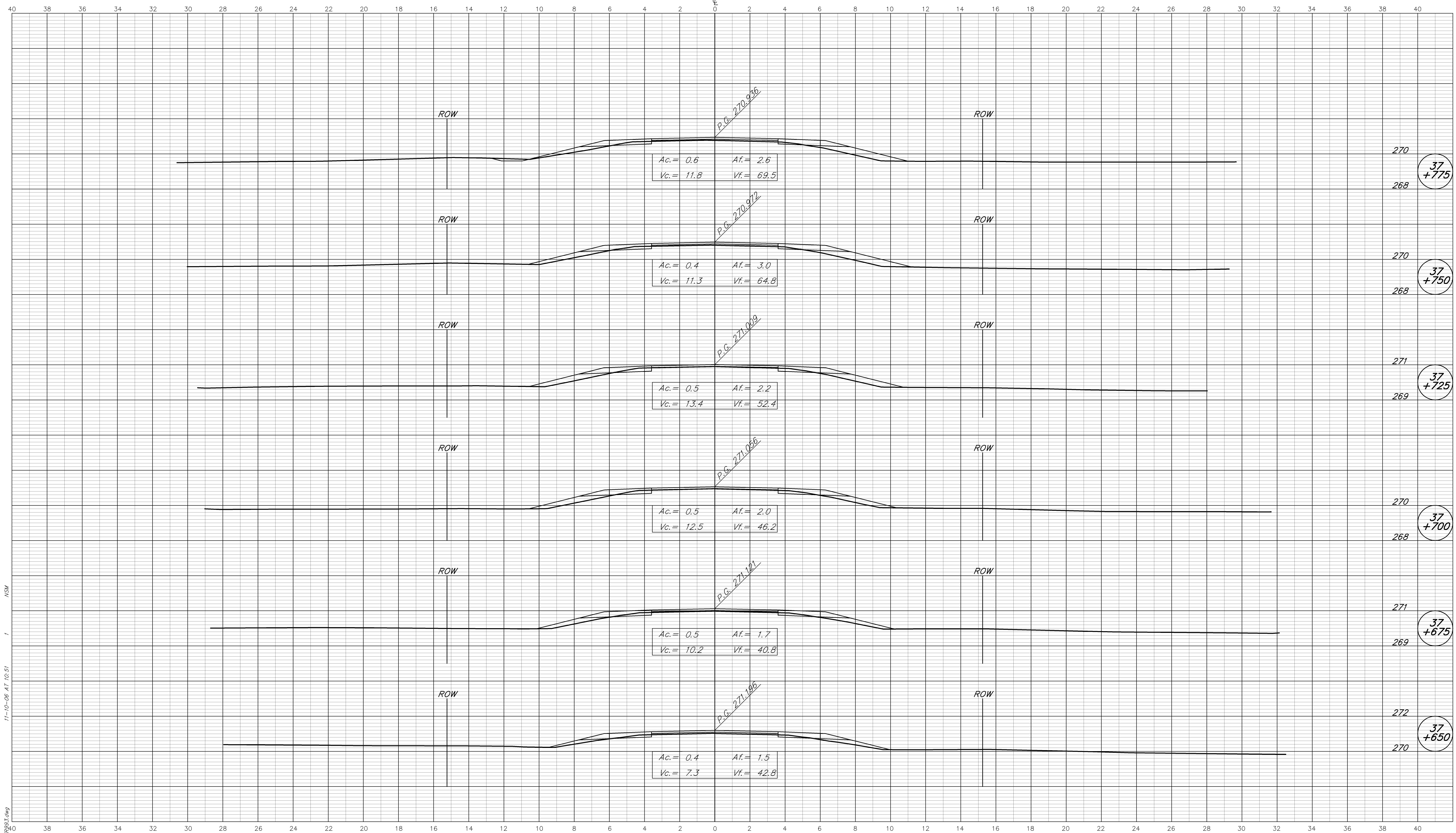
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INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
STATE ROAD 37

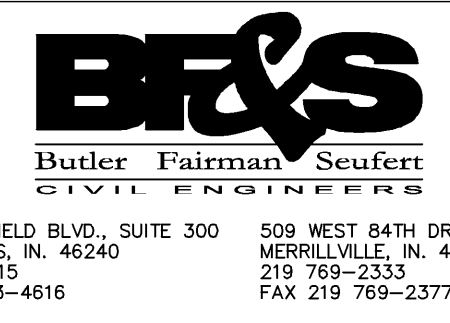
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SURVEY BOOK	SHEET 251 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
 R:\3783\AUTOCAD\ROAD\3783\923.dwg  
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 154



**CROSS SECTIONS  
LINE "A"**

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

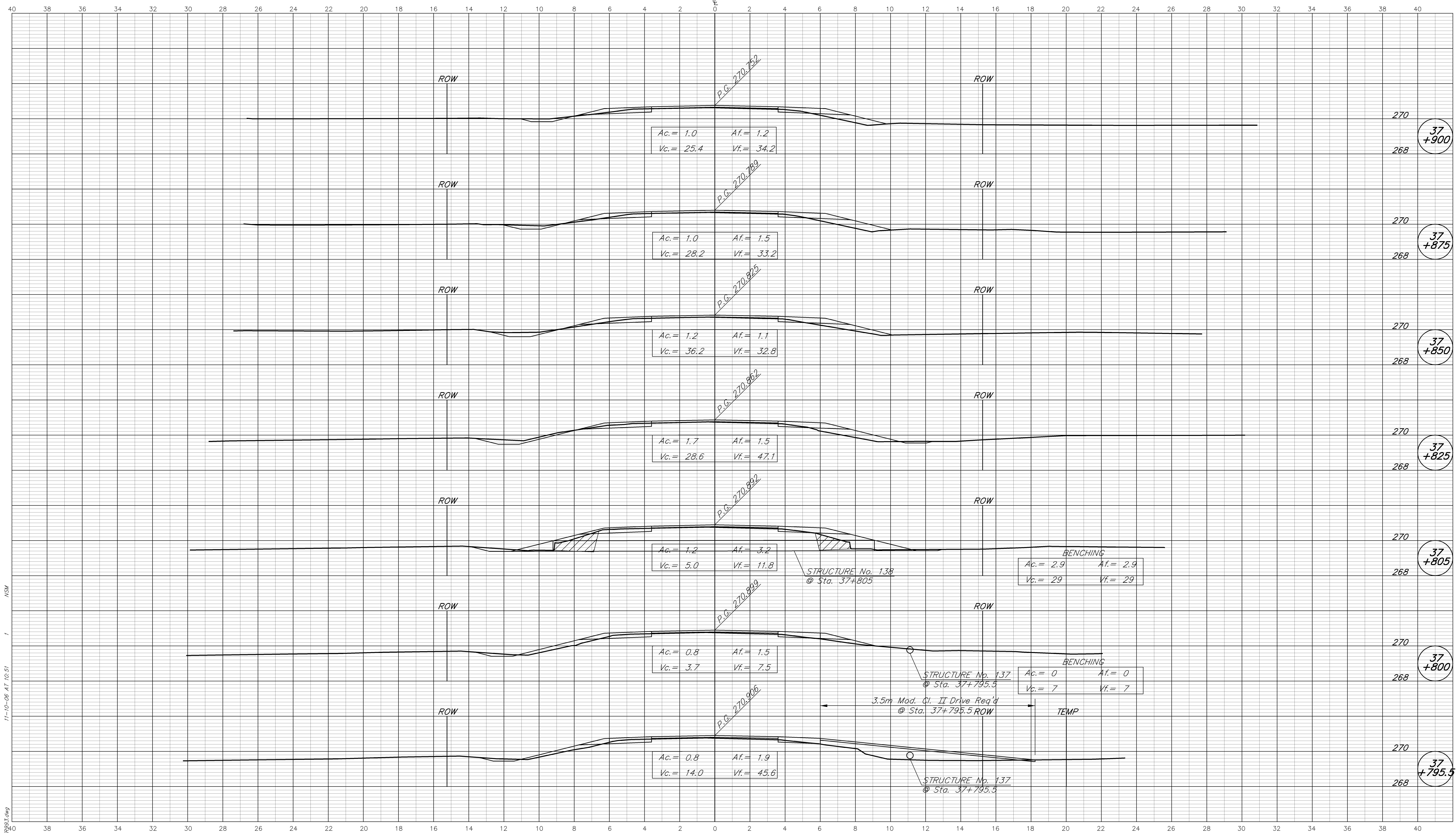
STATE ROAD 37

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SURVEY BOOK	SHEET 252 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

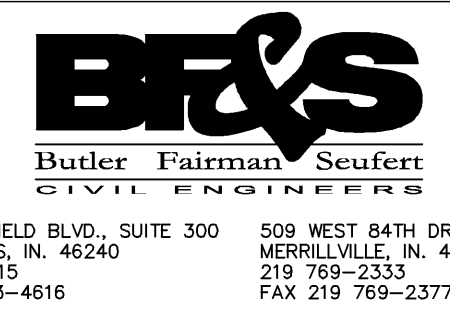
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CUT CROSS SECTIONS FILL  
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**CROSS SECTIONS LINE "A"**

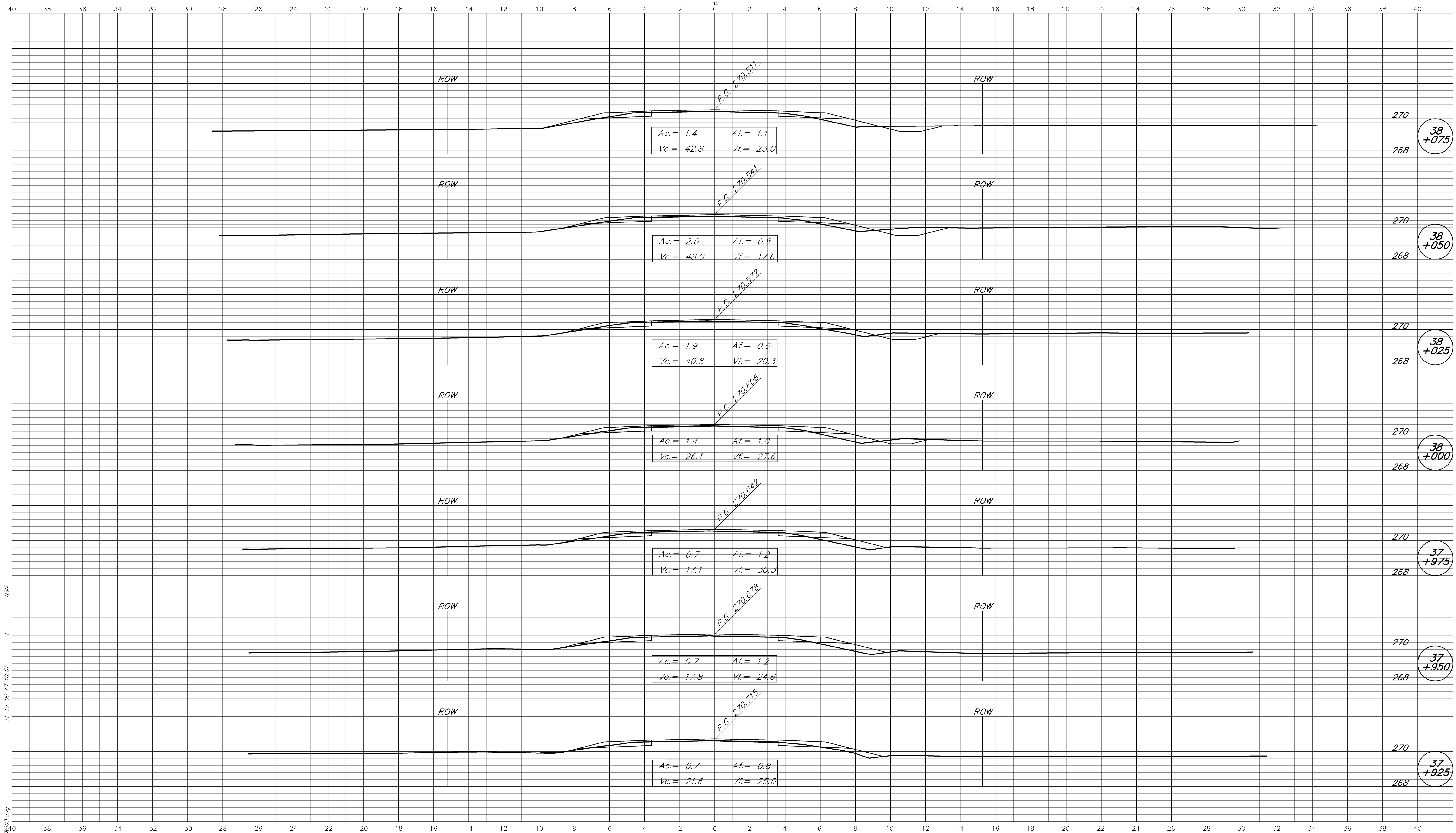
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	253 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:51  
R: L3783 (AUTOCAD) ROAD L3783.dwg

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Butler Fairman Scufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

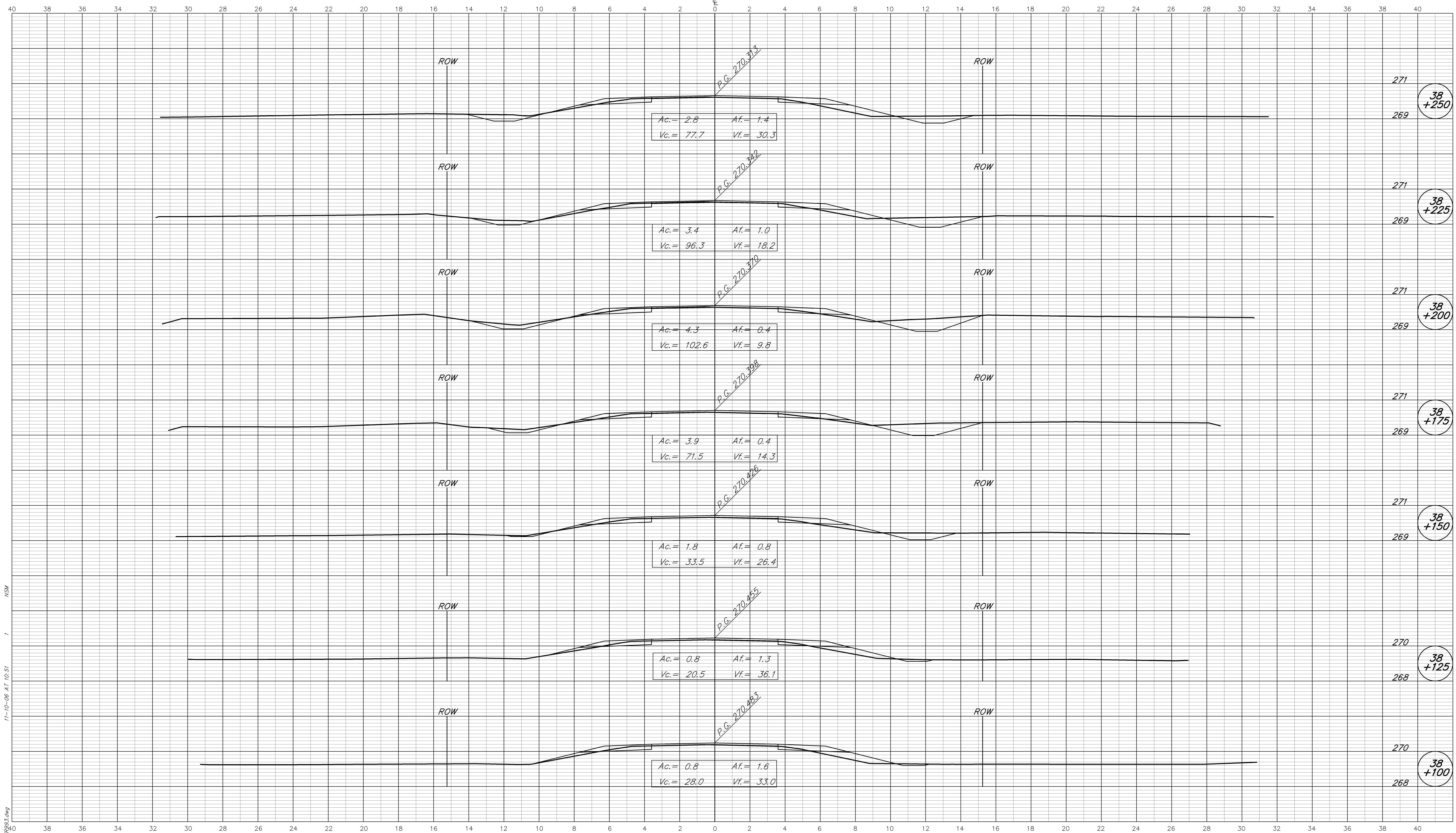
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INDIANA  
DEPARTMENT OF TRANSPORTATION  
STATE ROAD 37

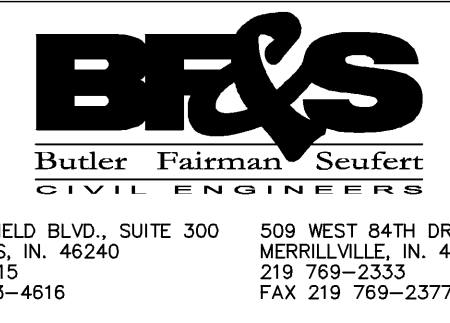
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 254 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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 MS4



**CROSS SECTIONS  
LINE "A"**

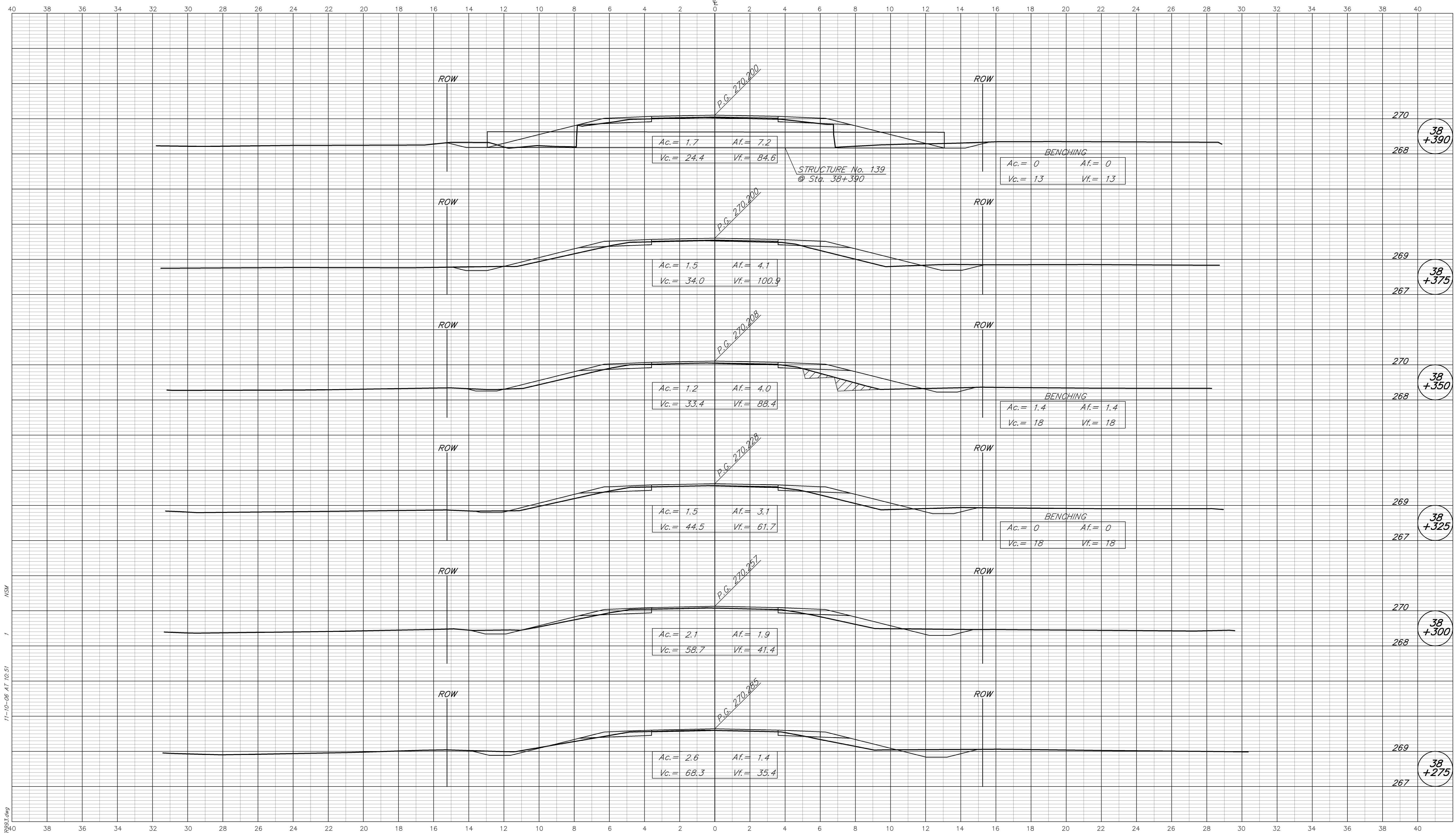
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 CHECKED: BZ CHECKED: MSL

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

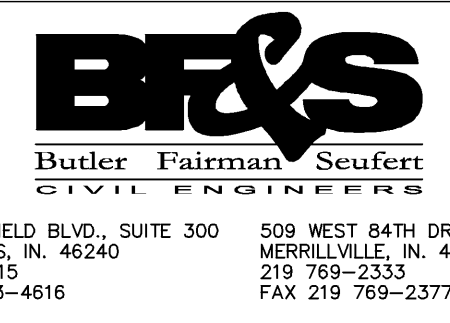
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 255 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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 MS4



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616  
 509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
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INDIANA  
DEPARTMENT OF TRANSPORTATION

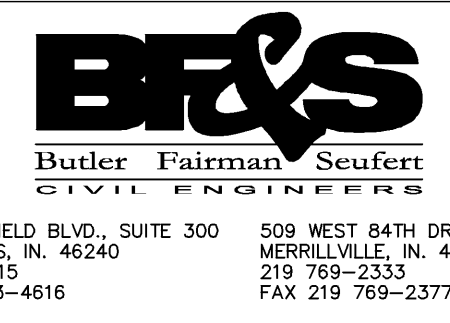
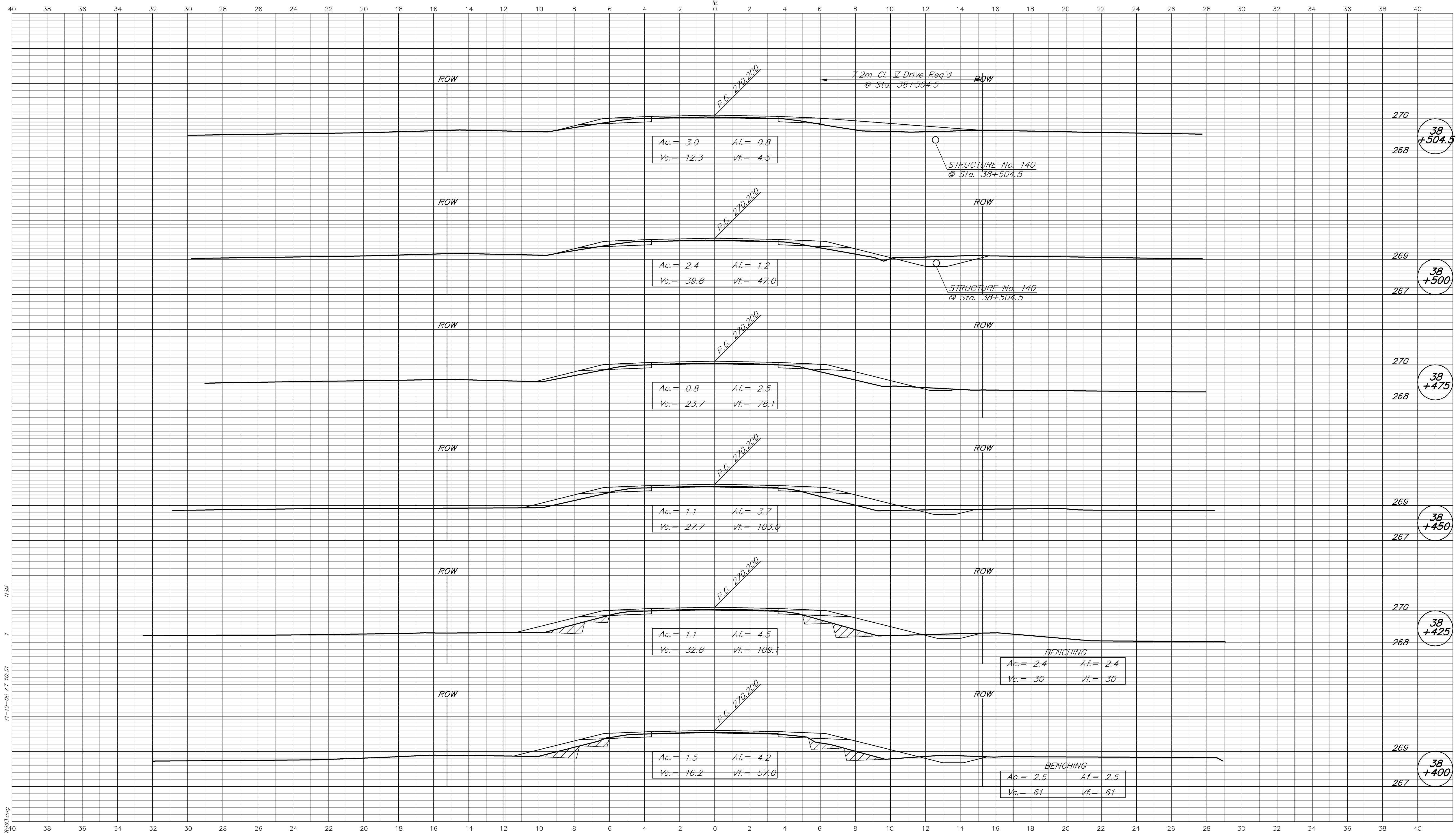
STATE ROAD 37

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SURVEY BOOK	SHEET 256 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



CROSS SECTIONS  
LINE "A"

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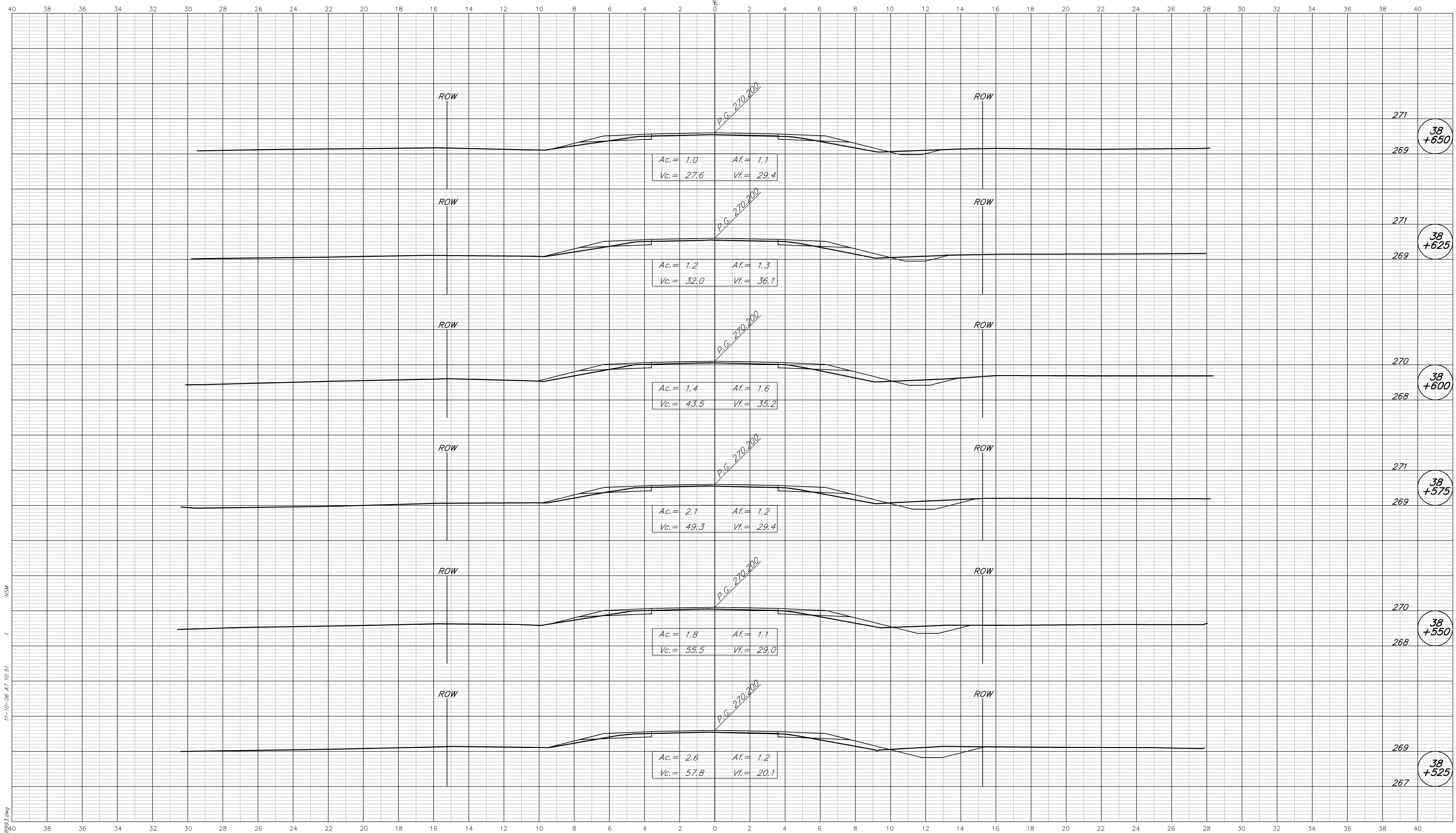
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

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SURVEY BOOK	SHEET 257 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

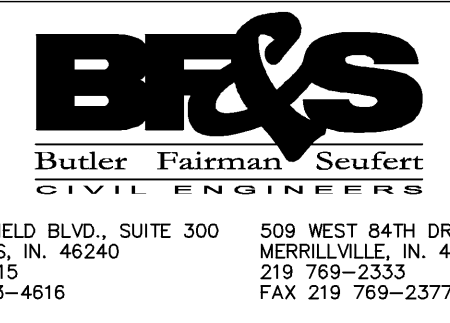
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Scale 1:100 (METRIC)



11-10-06 AT 10:51

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CROSS SECTIONS  
LINE "A"

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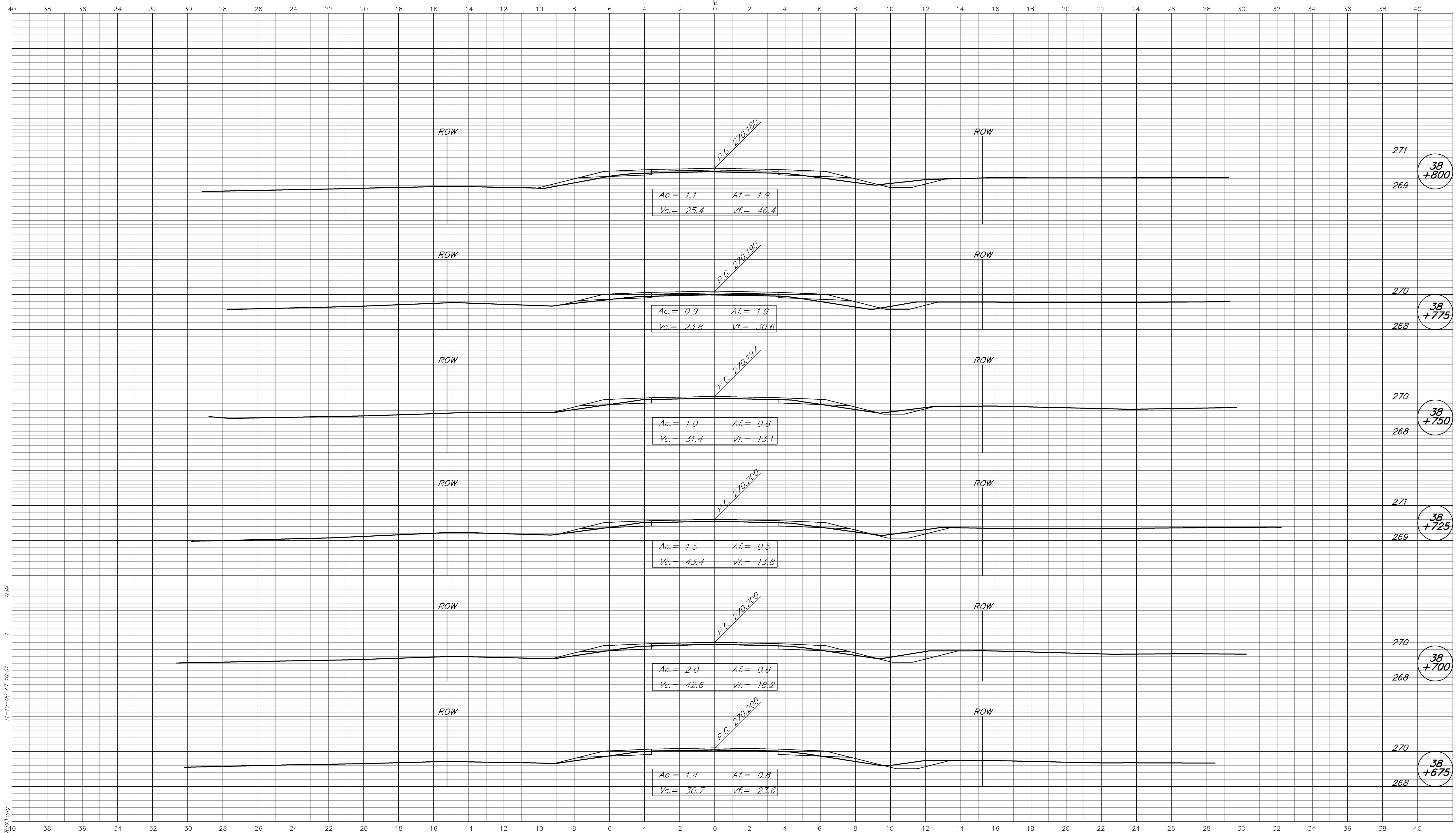
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

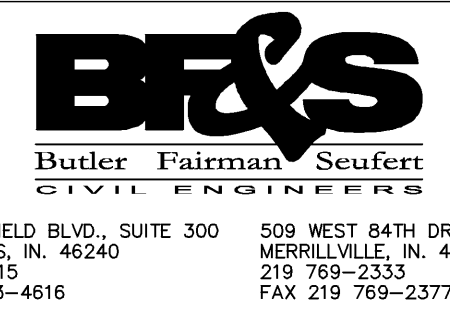
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VERTICAL SCALE	DESIGNATION
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	258 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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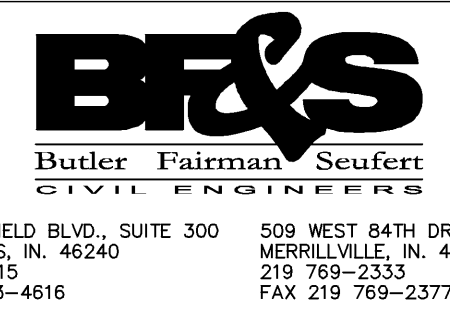
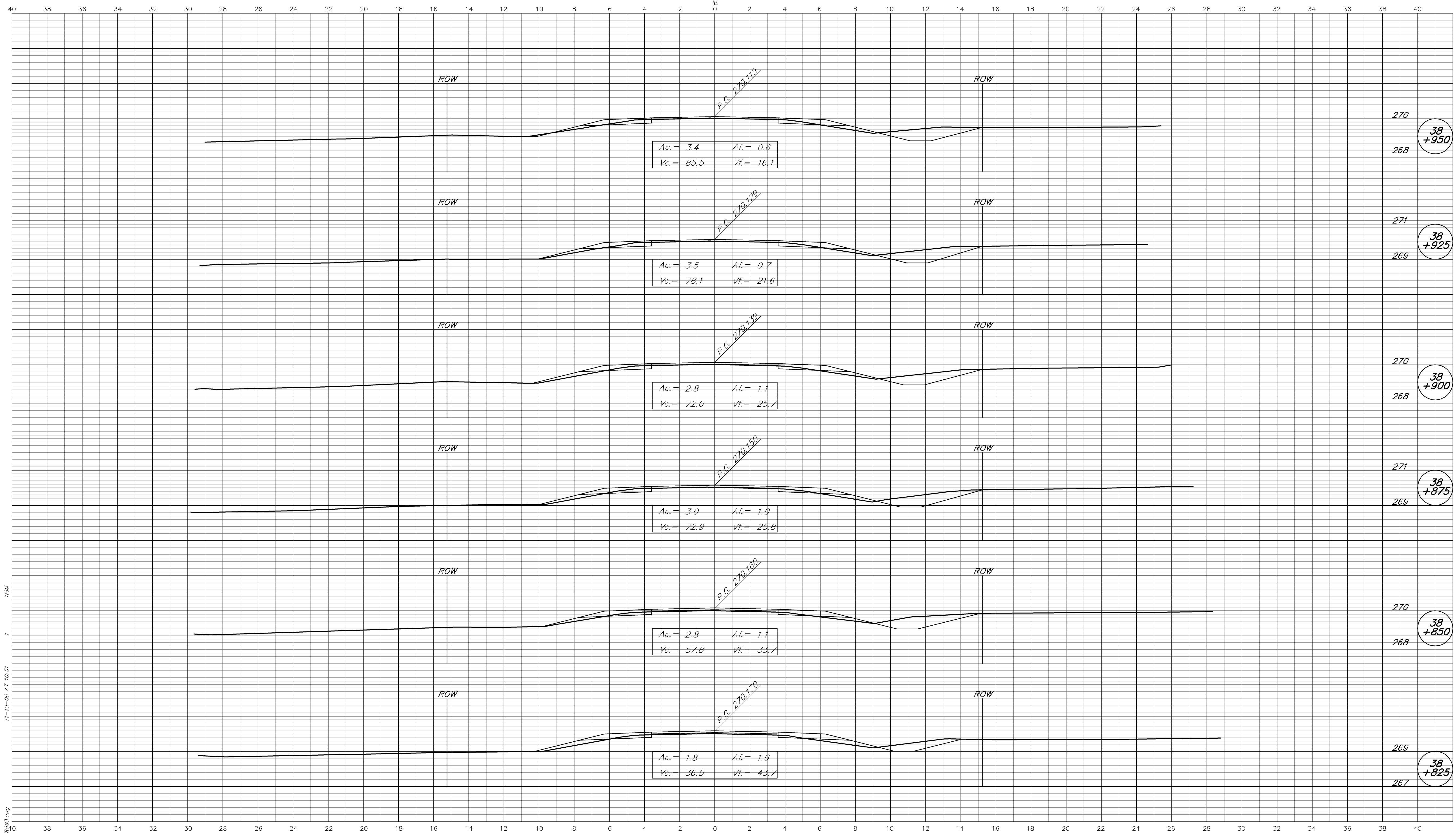
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 CHECKED: BZ CHECKED: MSL

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	259 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



CROSS SECTIONS  
LINE "A"

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INDIANA  
DEPARTMENT OF TRANSPORTATION

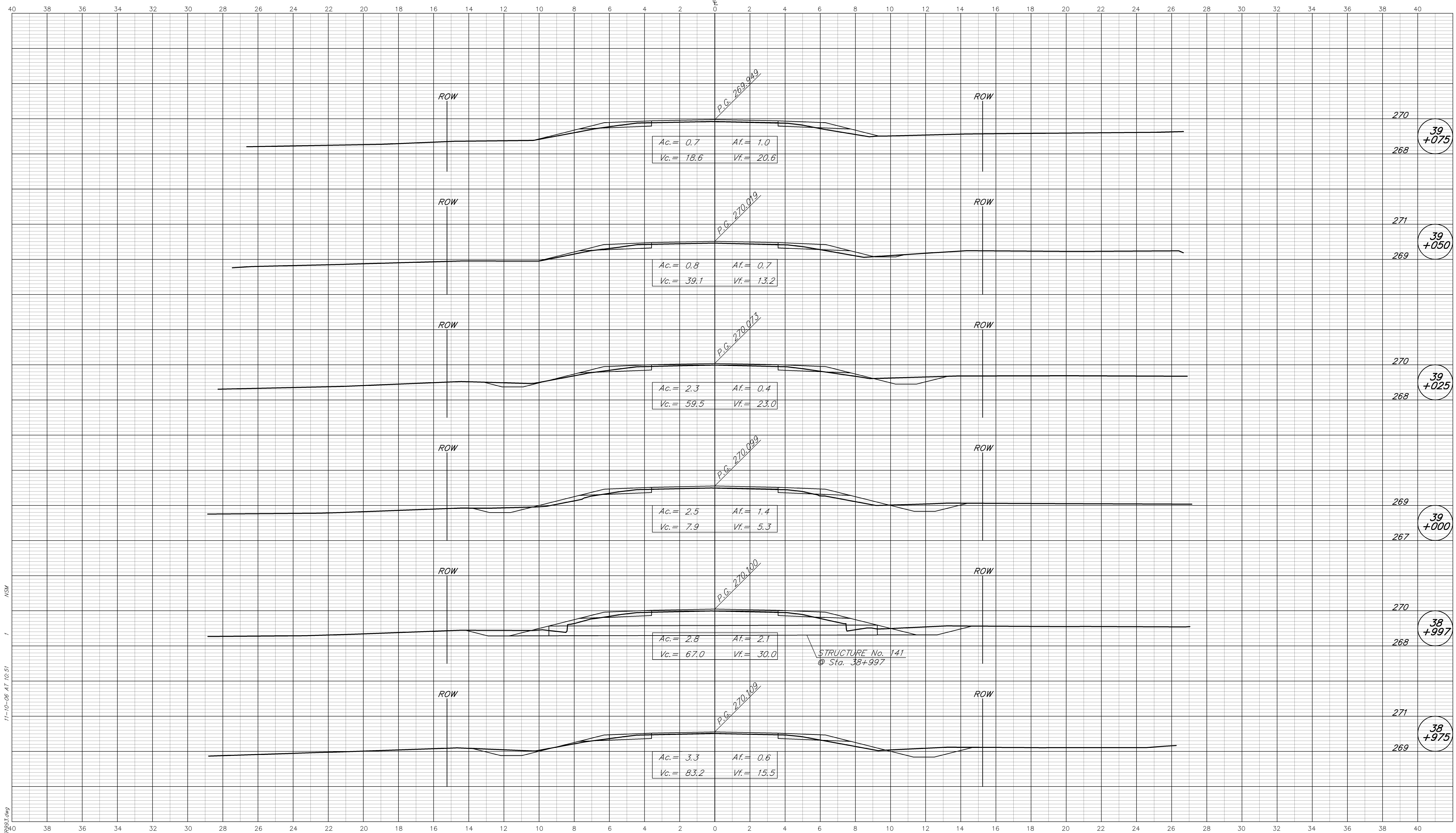
STATE ROAD 37

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	260 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

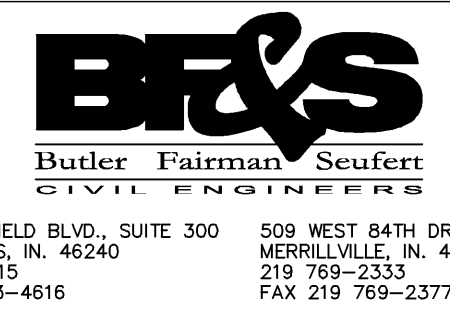
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Scale 1:100 (METRIC)



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11-10-06 AT 10:51  
MSA



**CROSS SECTIONS  
LINE "A"**

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CHECKED: BZ CHECKED: MSL

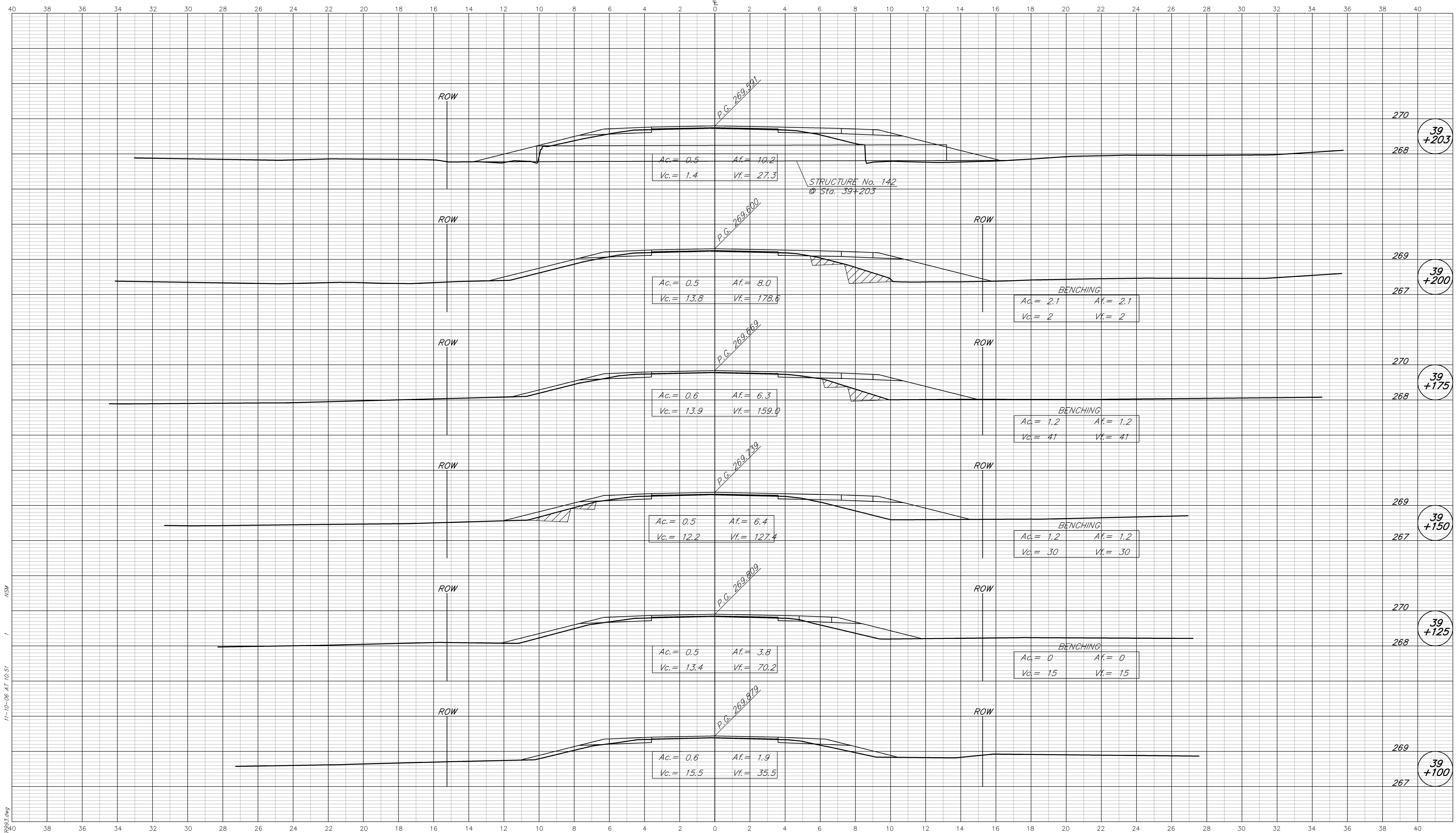
**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**STATE ROAD 37**

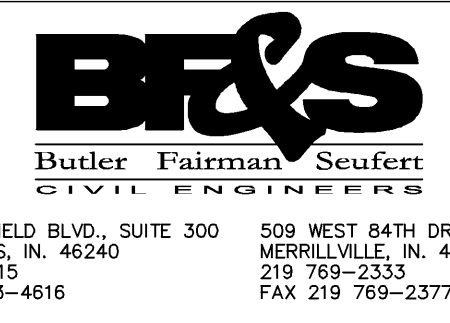
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SURVEY BOOK	SHEET 261 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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 MS4



**CROSS SECTIONS LINE "A"**

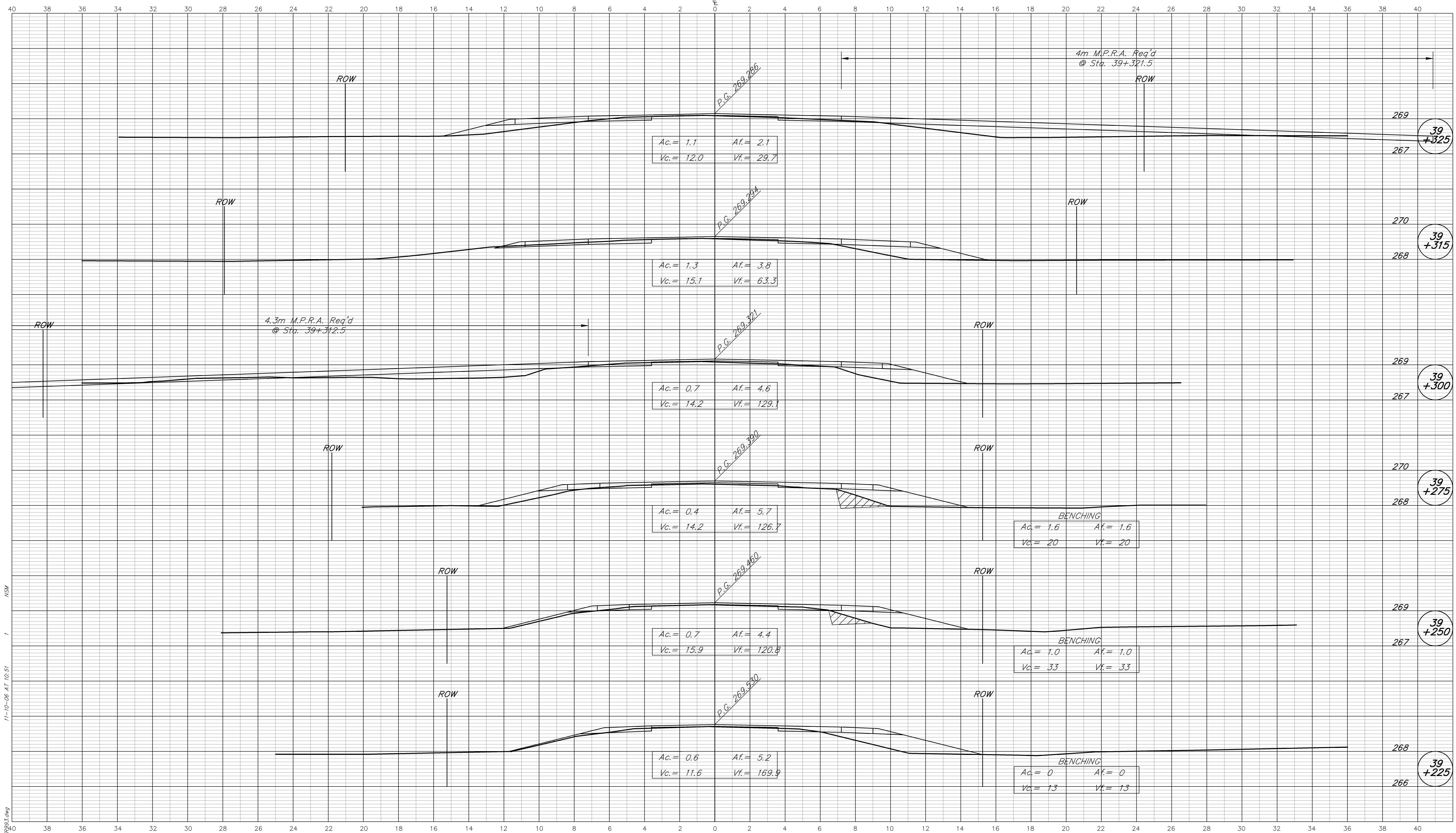
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:100	3783
VERTICAL SCALE	DESIGNATION
1:100	9706580
SURVEY BOOK	SHEET
	262 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
 R:\3783\AUTOCAD\ROAD\3783\923.dwg  
 MS4

**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

DESIGNED: MSL DRAWN: MSS  
 CHECKED: BZ CHECKED: MSL

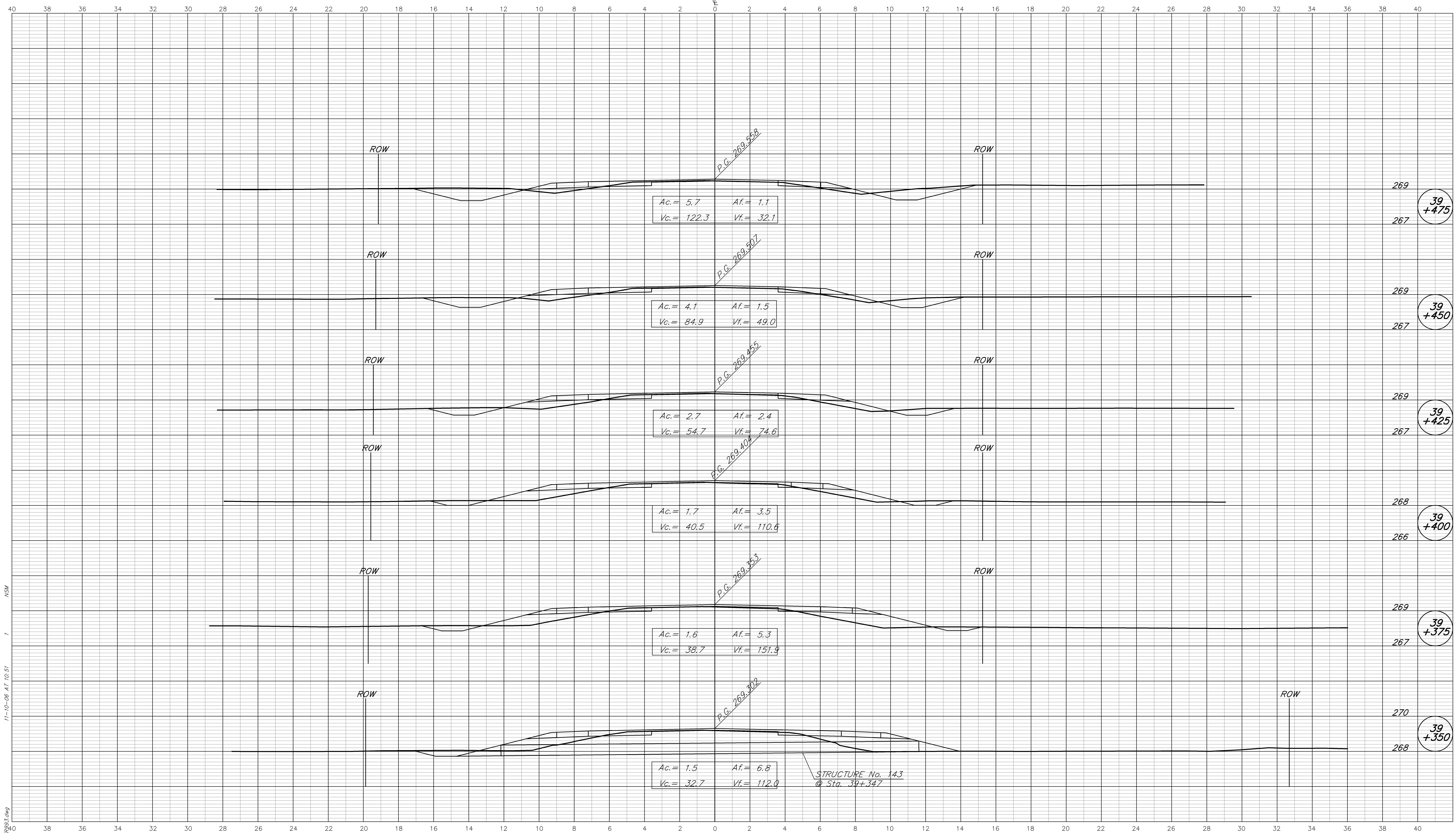
**INDIANA DEPARTMENT OF TRANSPORTATION**

**STATE ROAD 37**

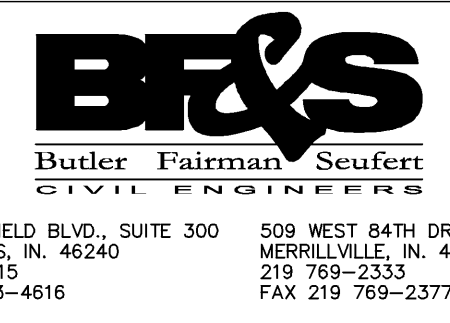
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SURVEY BOOK	SHEET 263 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
13783 (AUTOCAD) ROAD.L3783.dwg



CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

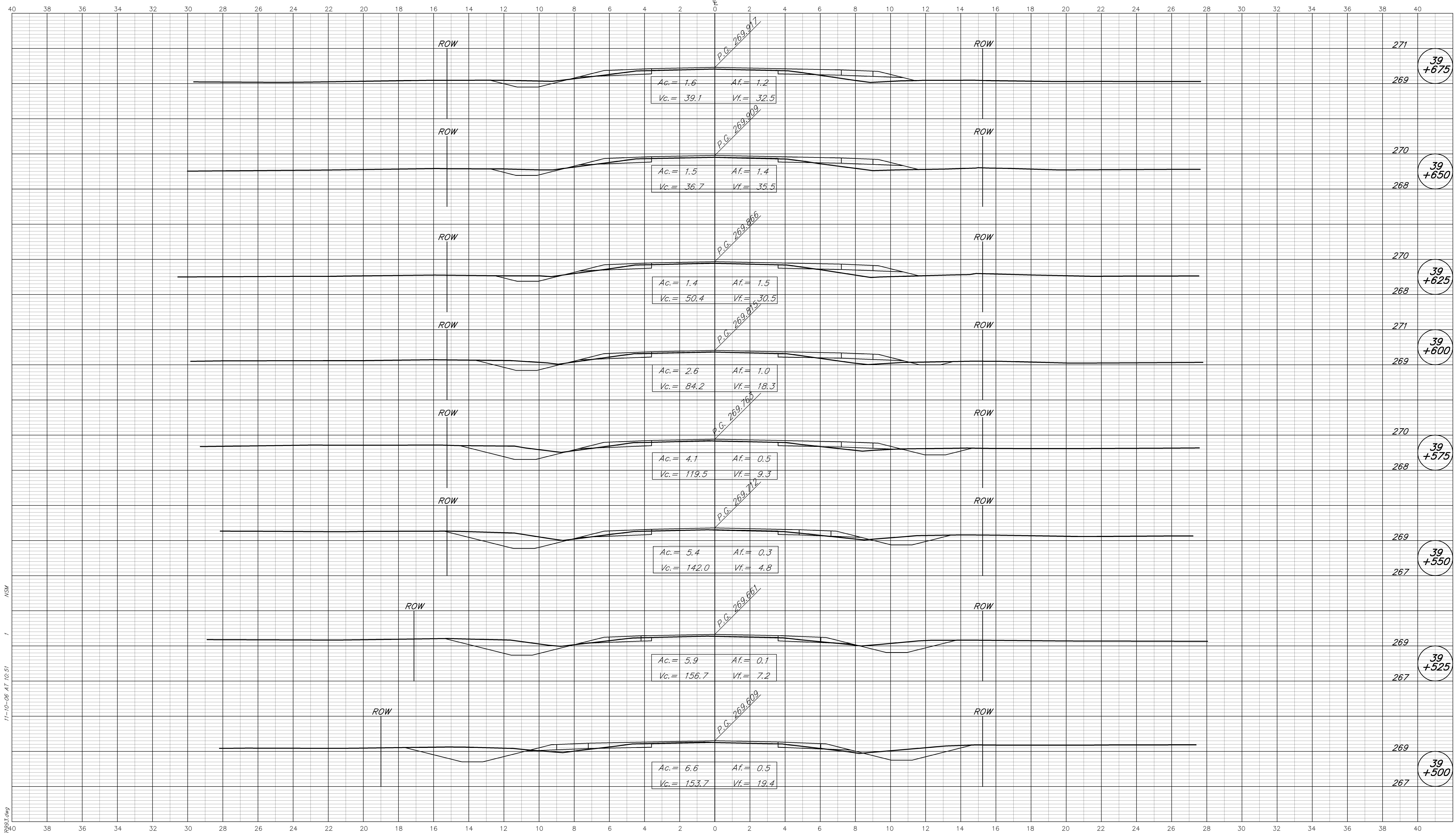
STATE ROAD 37

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SURVEY BOOK	SHEET
CONTRACT R-28934	264 OF 292 PROJECT STP/097-9(005)

BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MS4  
11-10-06 AT 10:51  
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**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

**CROSS SECTIONS  
LINE "A"**

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

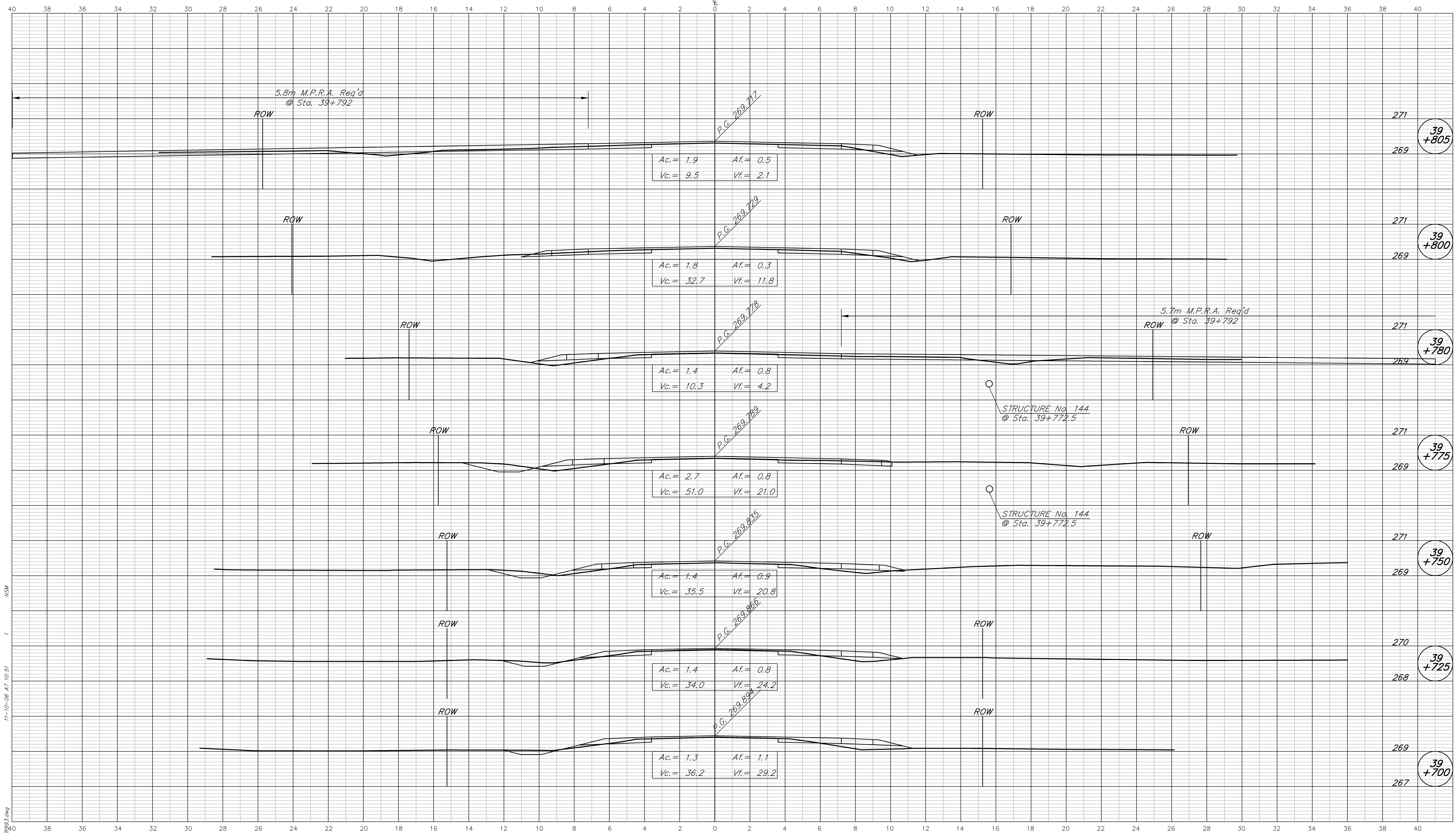
**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**STATE ROAD 37**

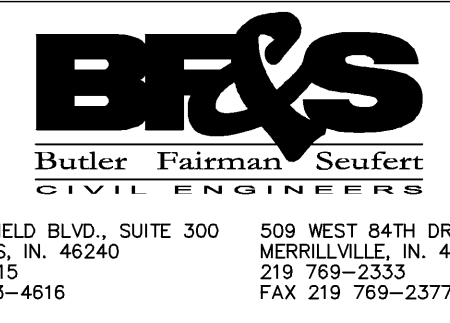
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SURVEY BOOK	SHEET
	265 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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 MS4  
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**CROSS SECTIONS LINE "A"**

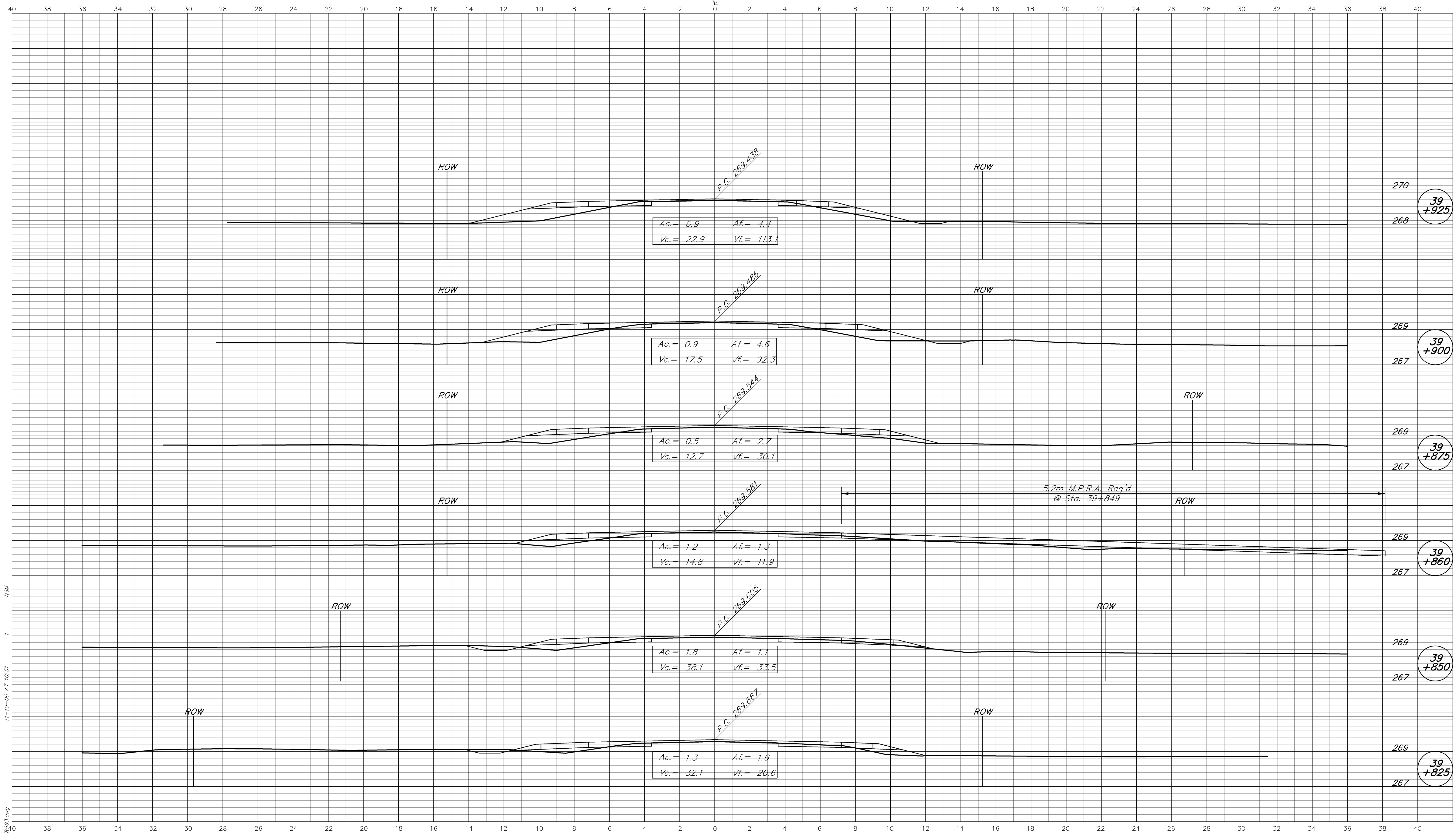
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INDIANA DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

HORIZONTAL SCALE	FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	266 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS LINE "A"**

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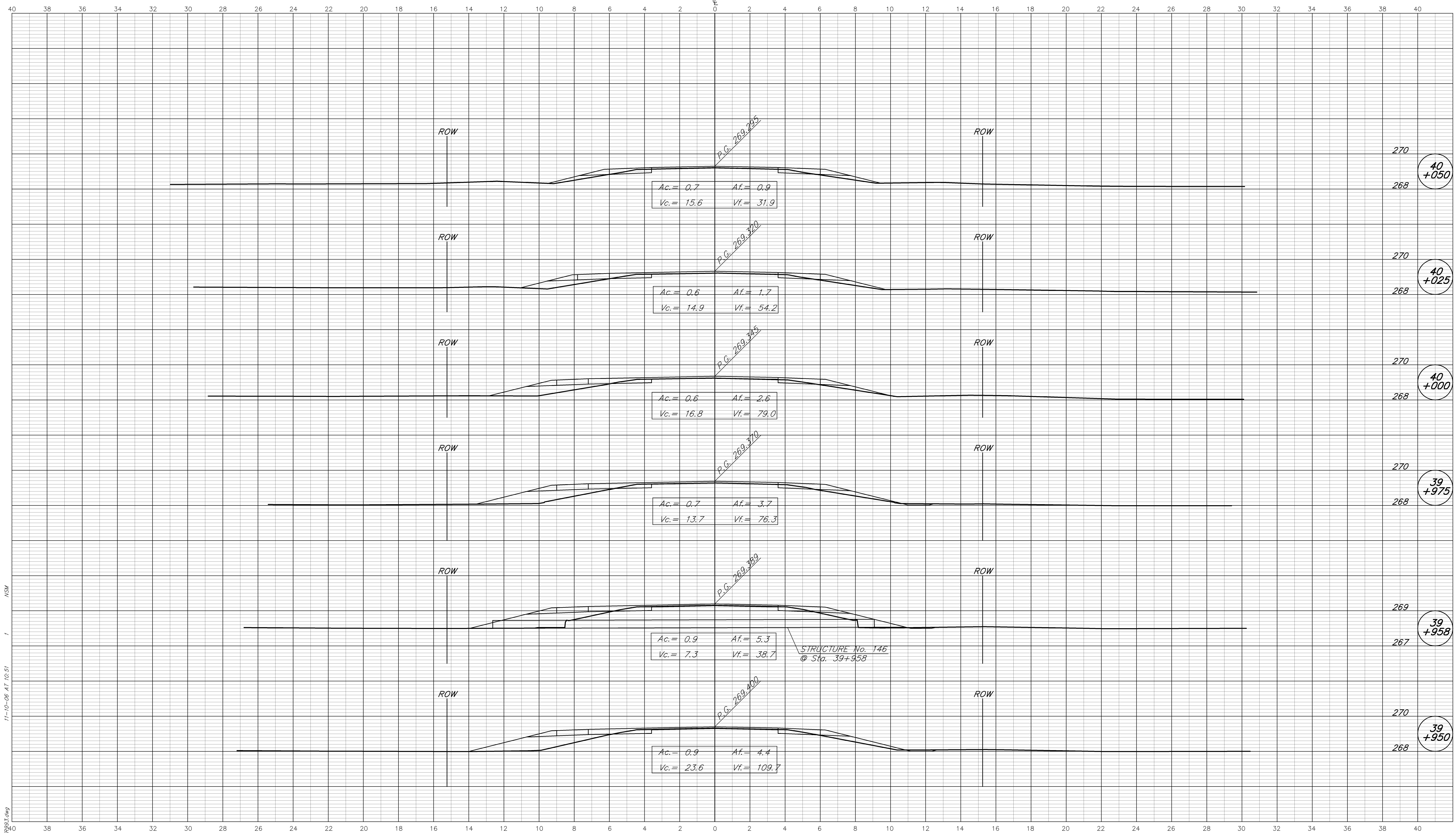
**INDIANA DEPARTMENT OF TRANSPORTATION**

**STATE ROAD 37**

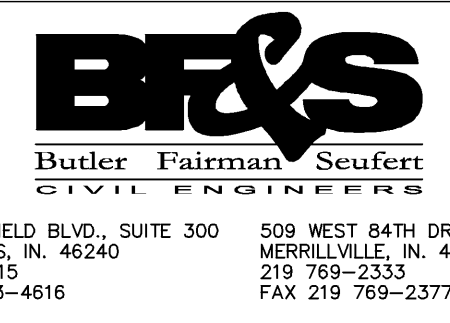
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SURVEY BOOK	SHEET 267 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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CROSS SECTIONS  
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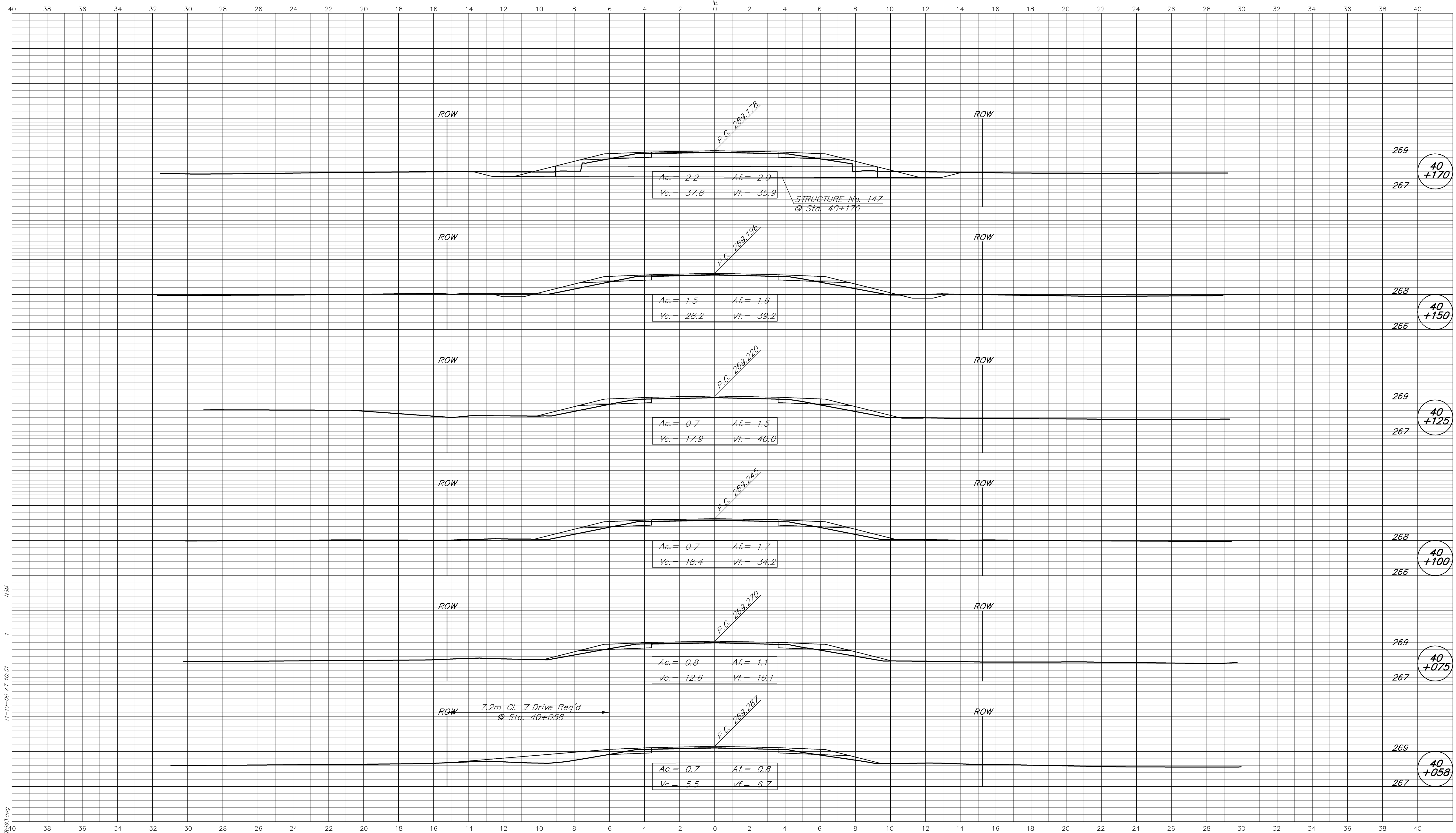
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

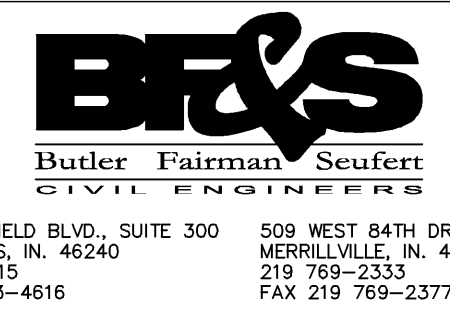
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SURVEY BOOK	SHEET	
	268 OF 292	
CONTRACT	PROJECT	
R-28934	STP/097-9(005)	



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MS4  
11-10-06 AT 10:51  
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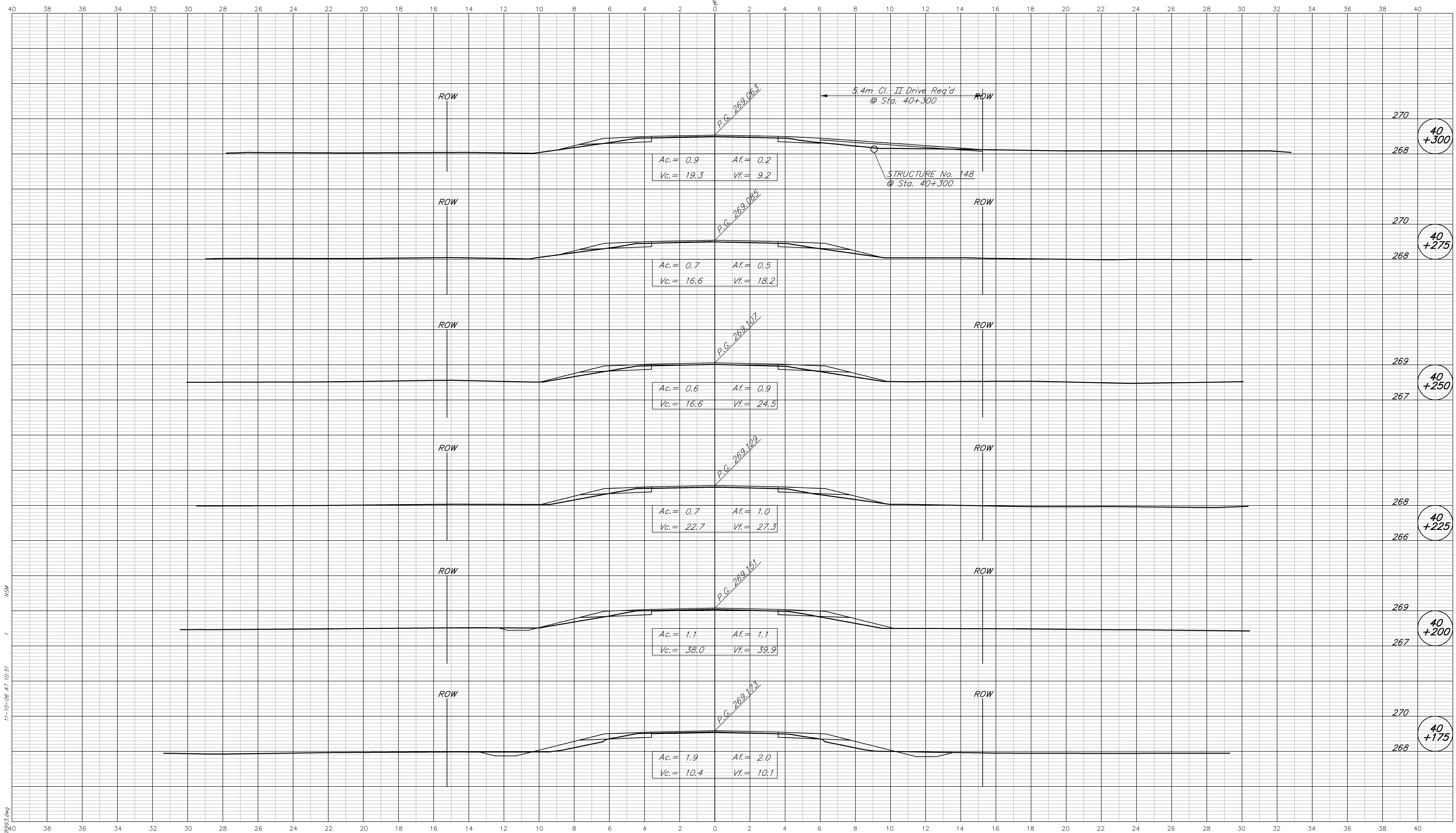
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STATE ROAD 37

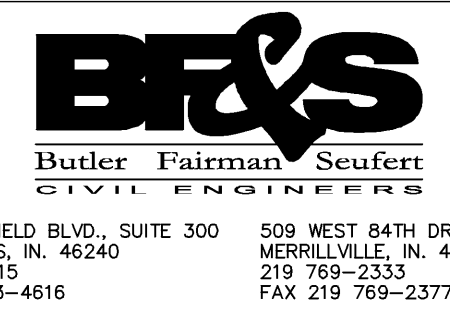
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	269 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



R: L:\7823\AUTOCAD\ROAD\L7823\923.dwg  
11-10-06 AT 10:51  
MSA



**CROSS SECTIONS  
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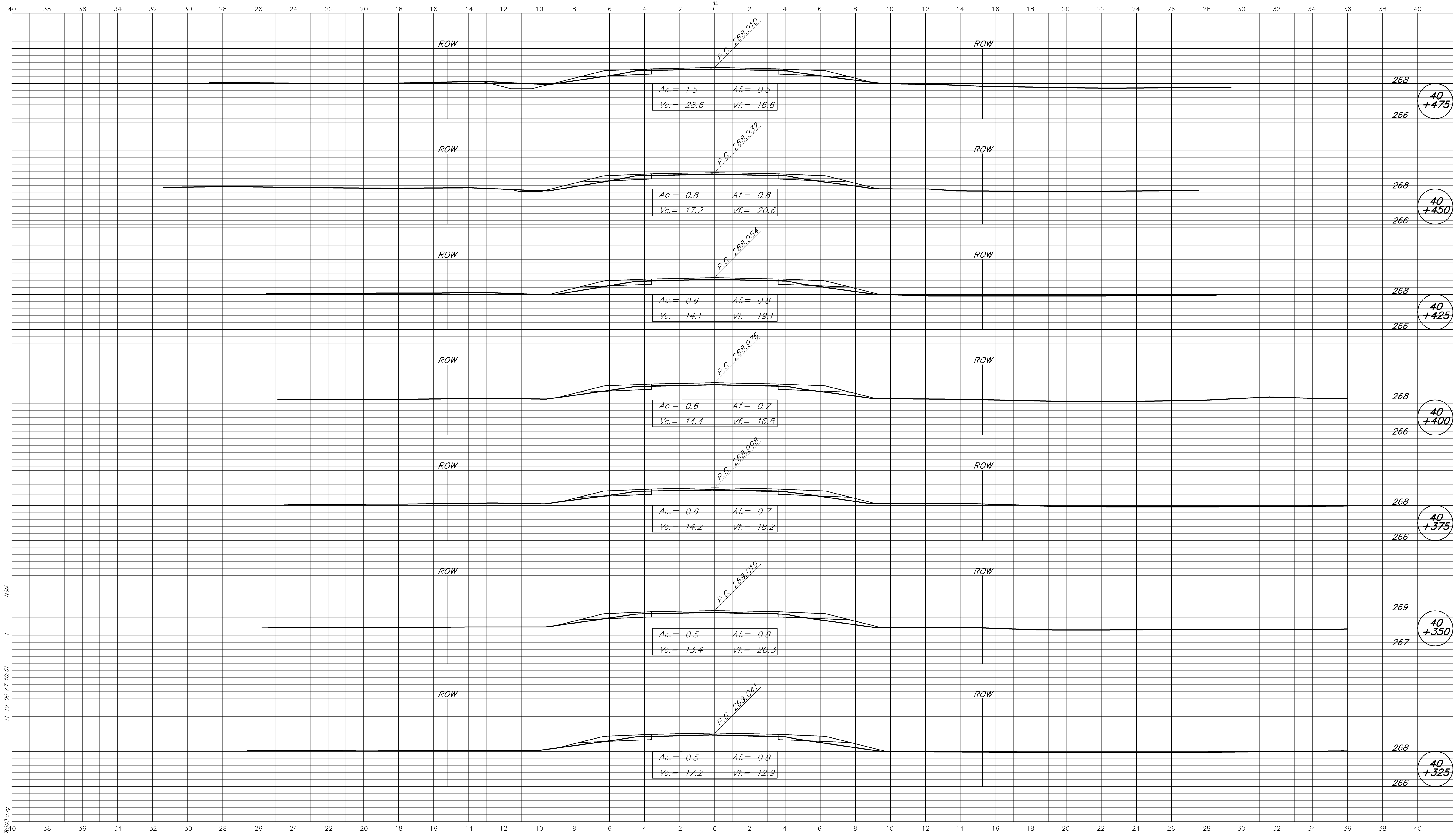
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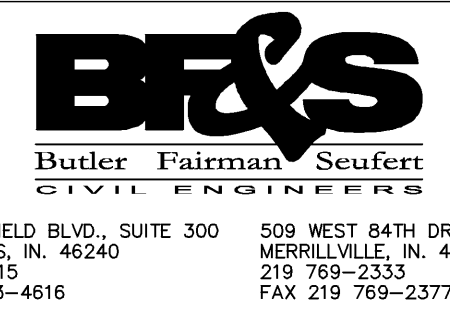
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SURVEY BOOK	SHEET 270 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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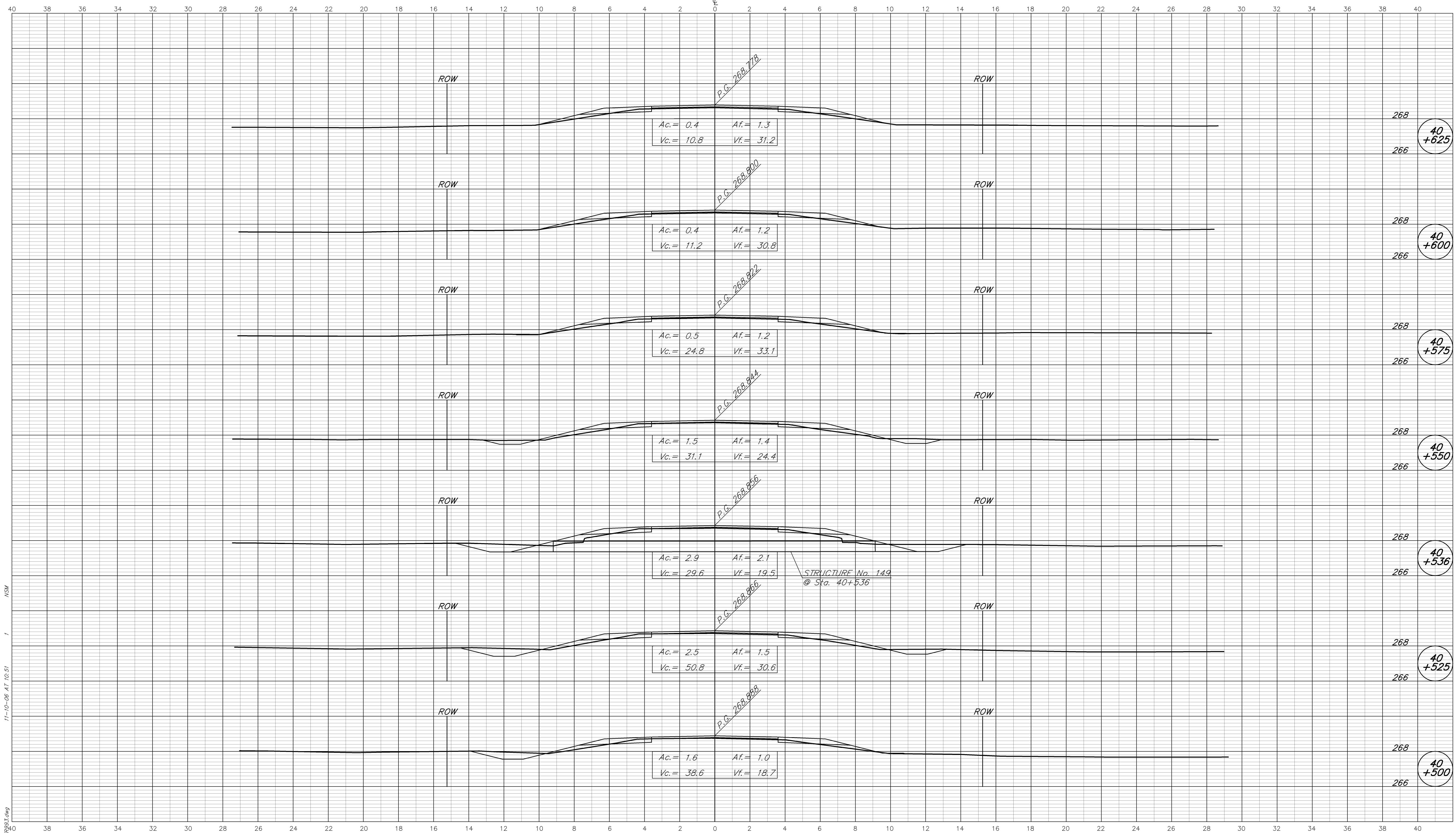
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INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 37

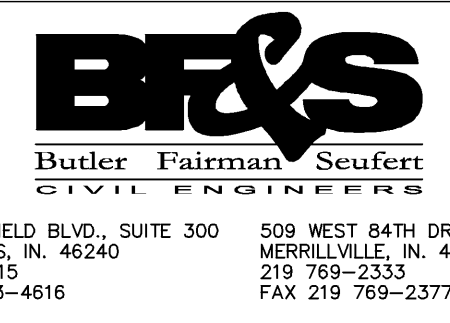
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SURVEY BOOK	SHEET 271 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
 R:\3783\AUTOCAD\ROAD\3783\923.dwg  
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**CROSS SECTIONS LINE "A"**

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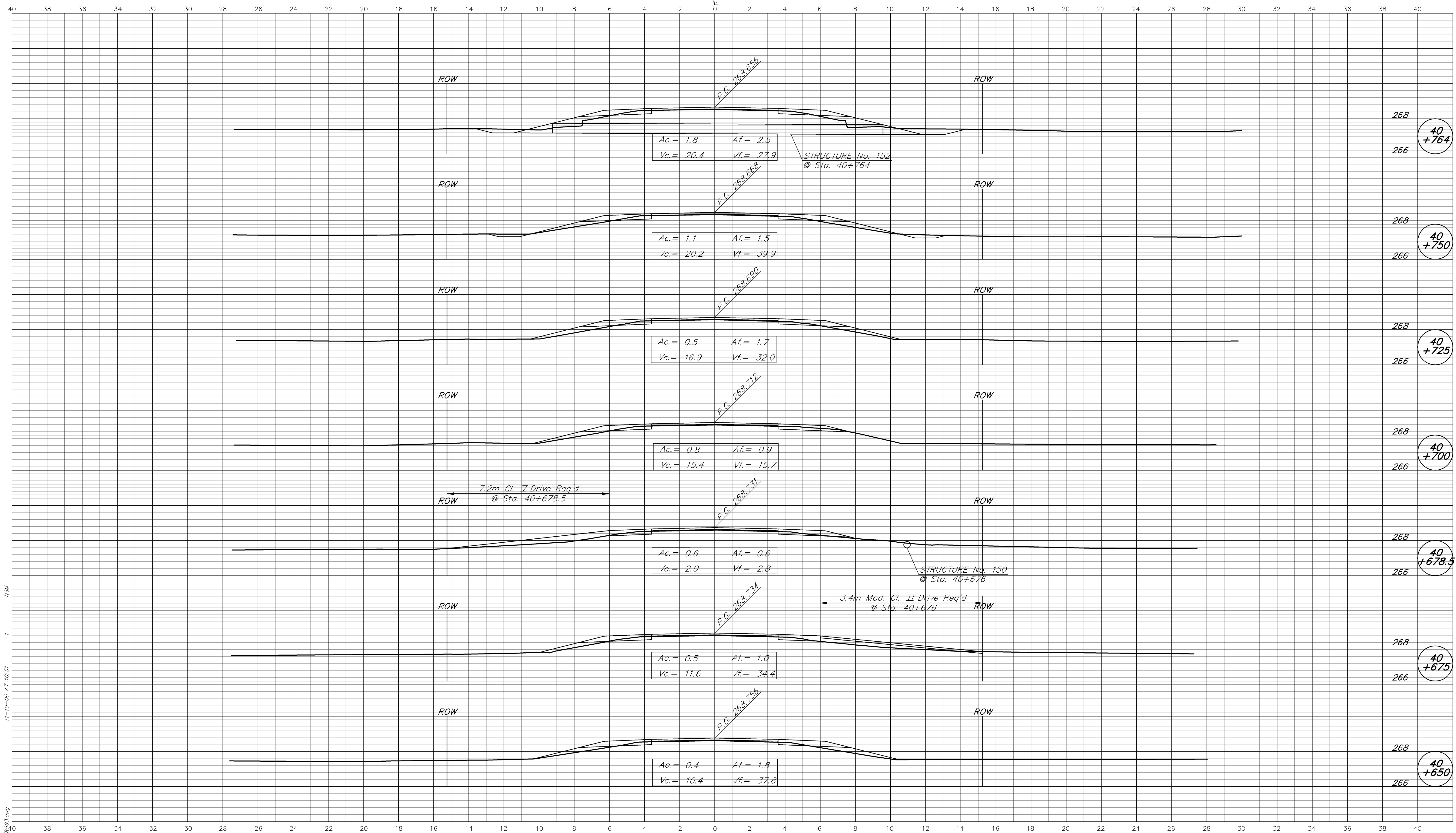
INDIANA DEPARTMENT OF TRANSPORTATION  
**STATE ROAD 37**

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SURVEY BOOK	SHEET 272 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

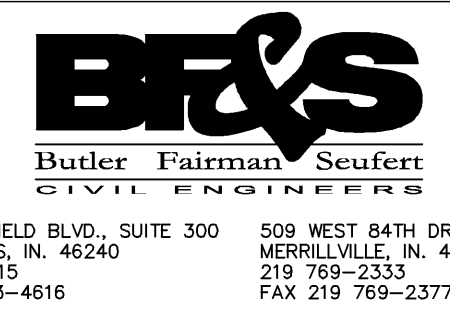
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:51  
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CROSS SECTIONS  
LINE "A"

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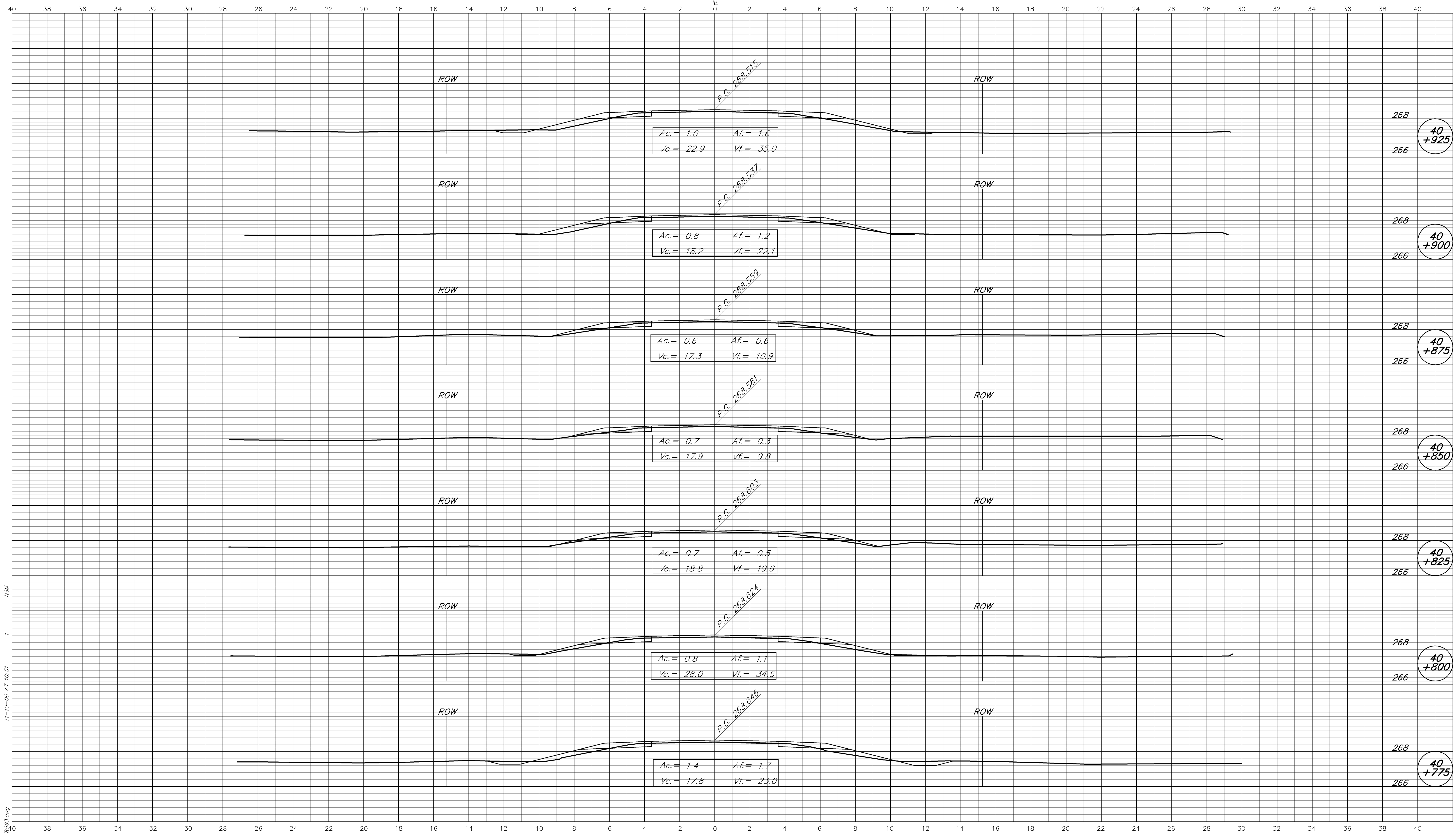
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STATE ROAD 37

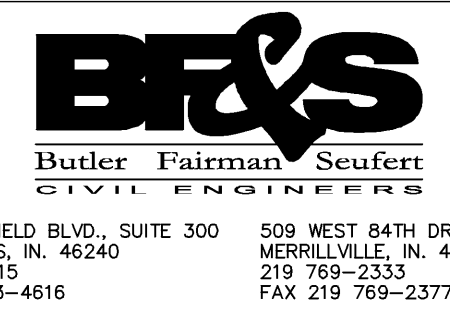
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SURVEY BOOK	SHEET 273 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MS4  
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CROSS SECTIONS  
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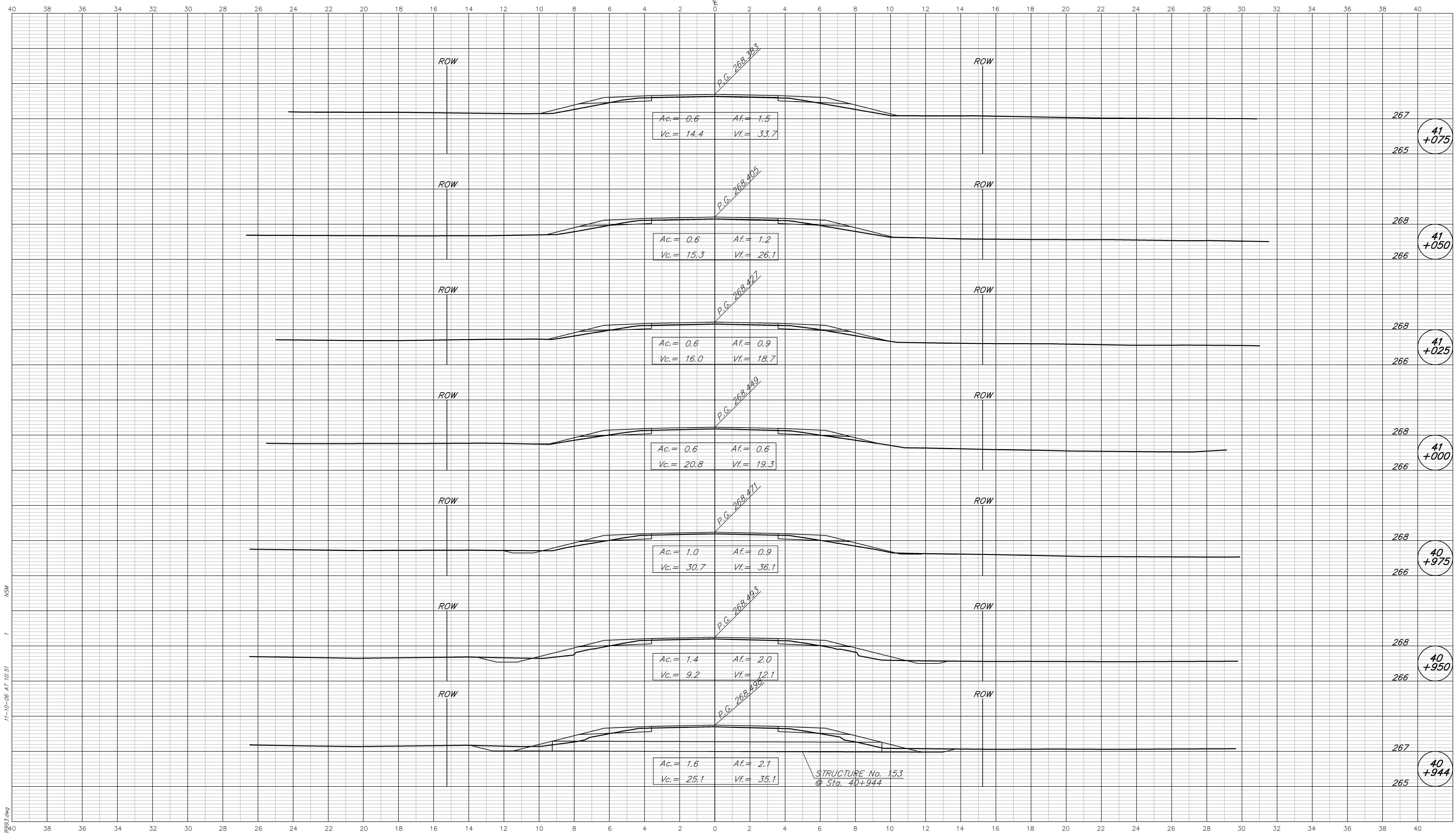
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STATE ROAD 37

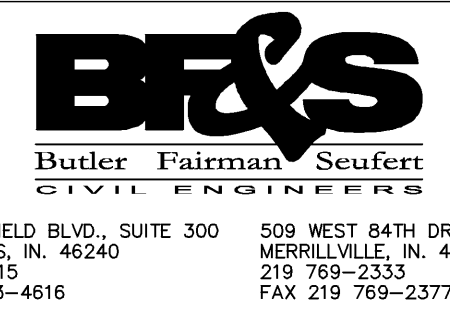
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SURVEY BOOK	SHEET
	274 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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CROSS SECTIONS  
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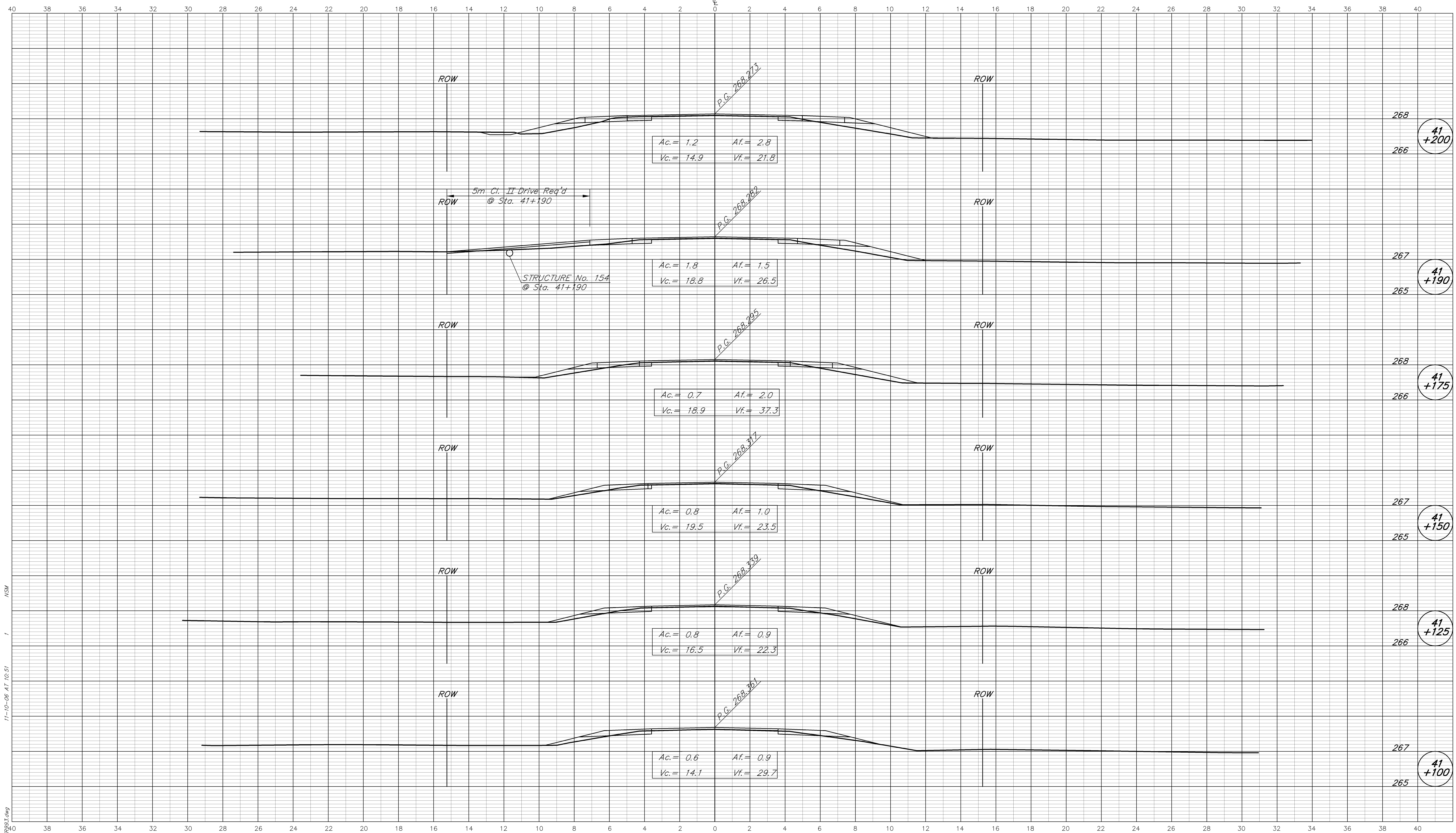
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STATE ROAD 37

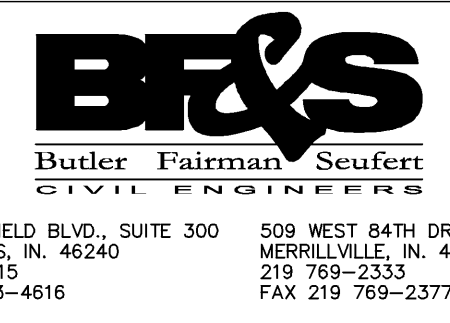
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SURVEY BOOK	SHEET
	275 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "A"

DESIGNED: MSL DRAWN: MSS  
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INDIANA  
DEPARTMENT OF TRANSPORTATION

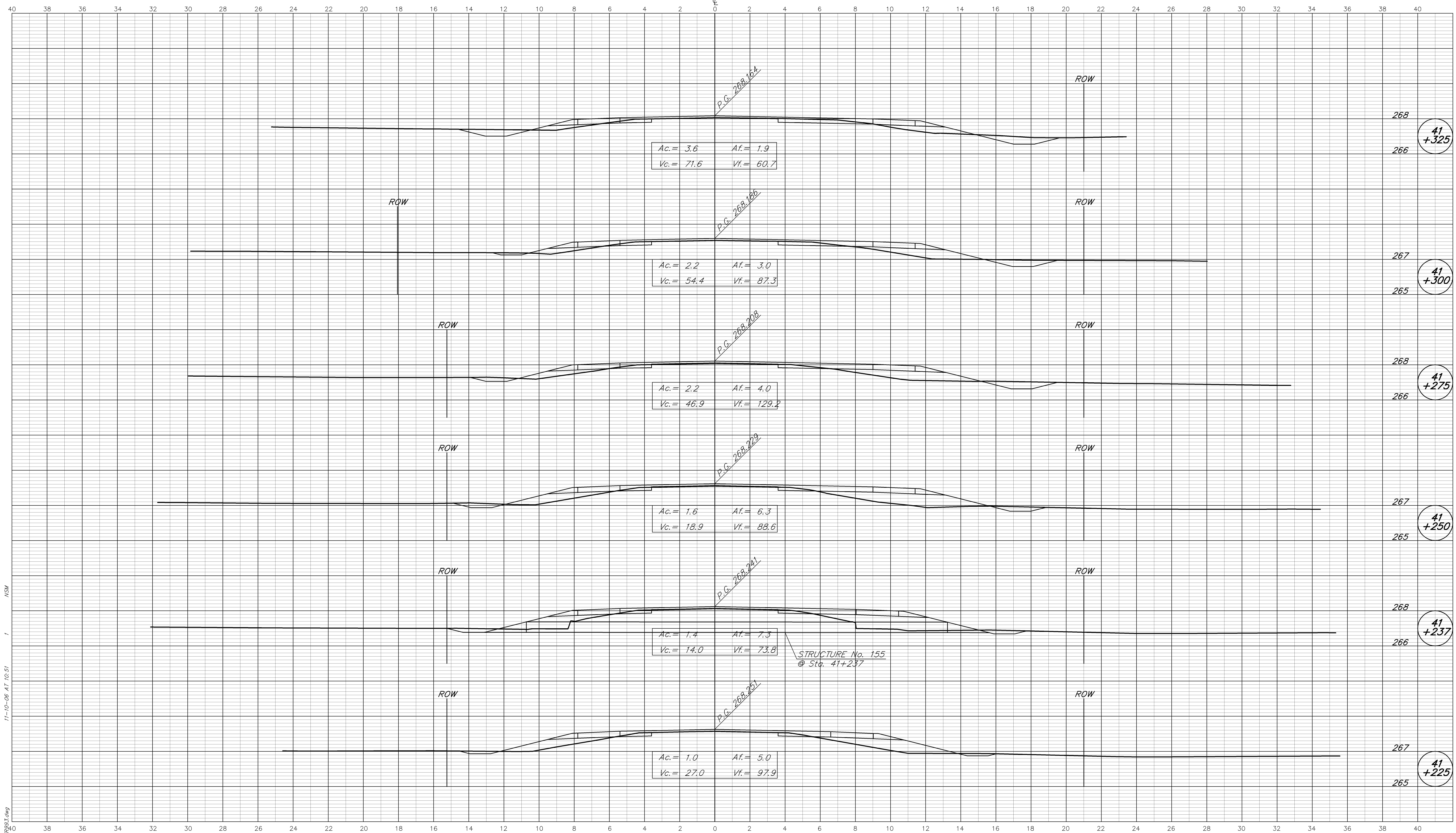
STATE ROAD 37

HORIZONTAL SCALE 1:100	FILE 3783
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SURVEY BOOK	SHEET 276 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

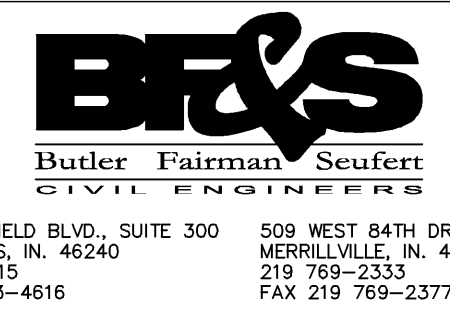
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Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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**CROSS SECTIONS  
LINE "A"**

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CHECKED: BZ CHECKED: MSL

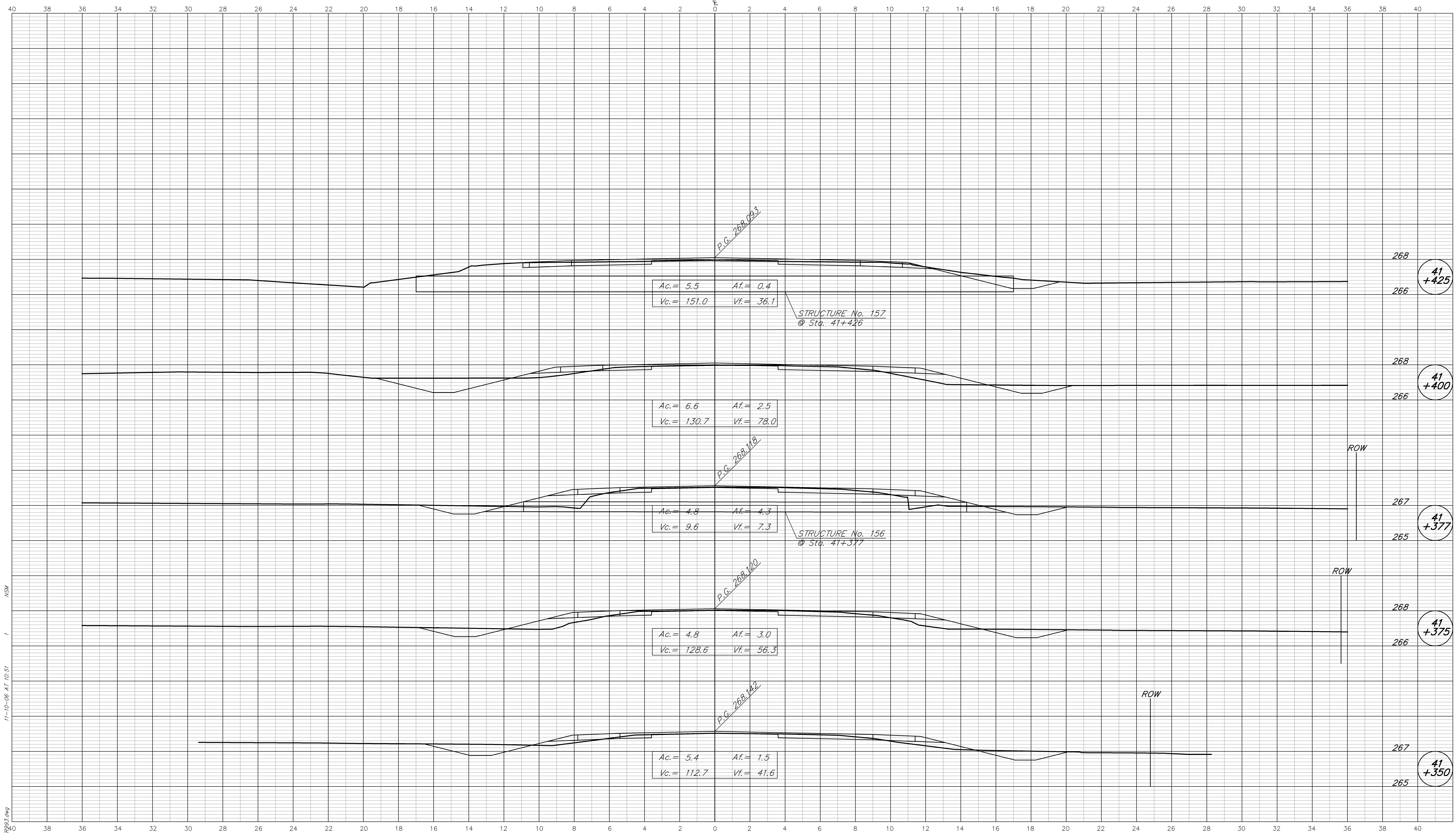
INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 37

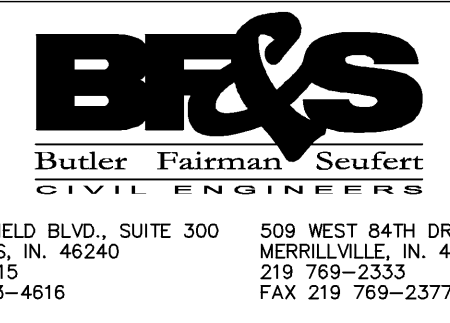
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 277 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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CROSS SECTIONS  
LINE "A"

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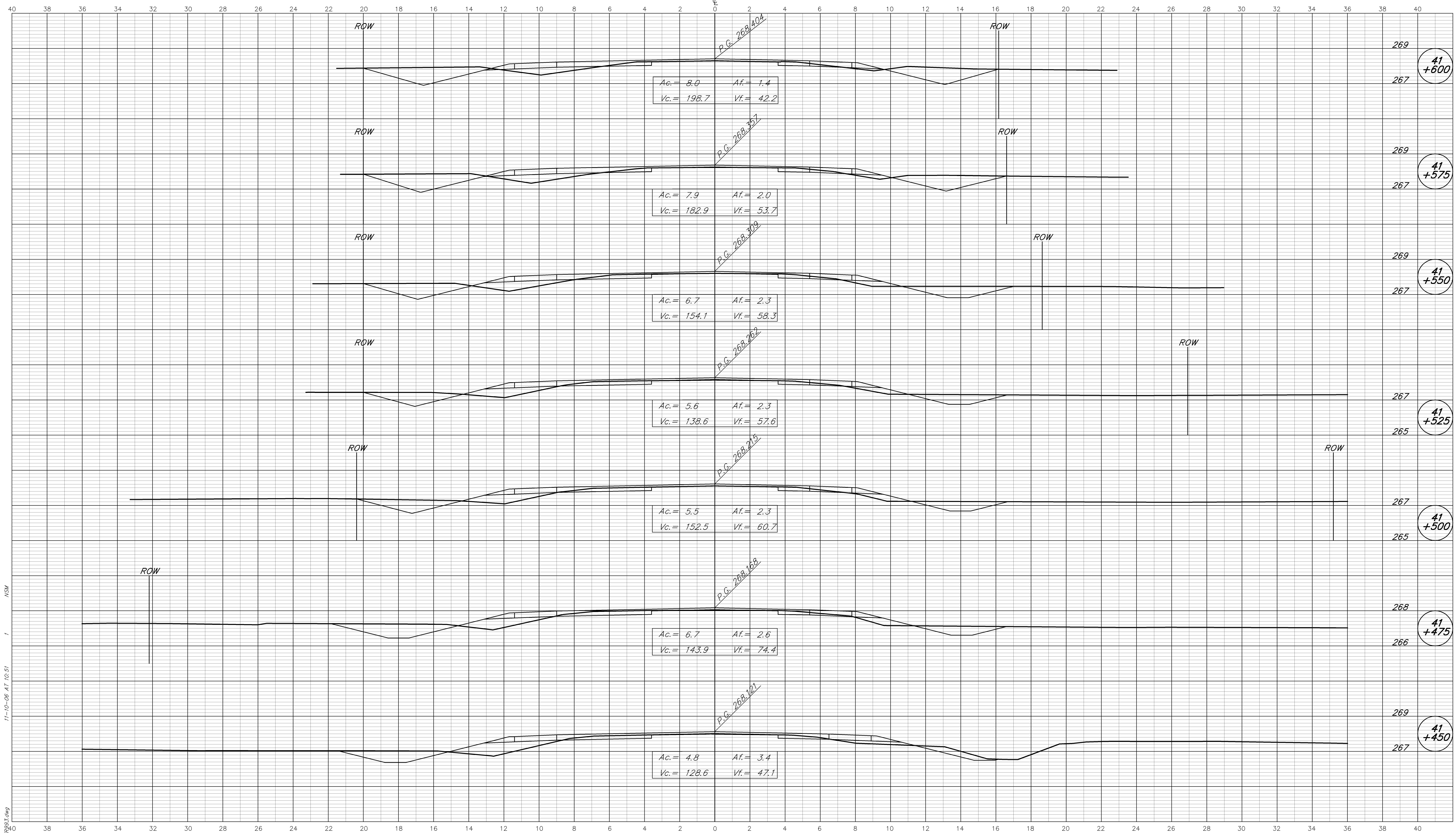
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STATE ROAD 37

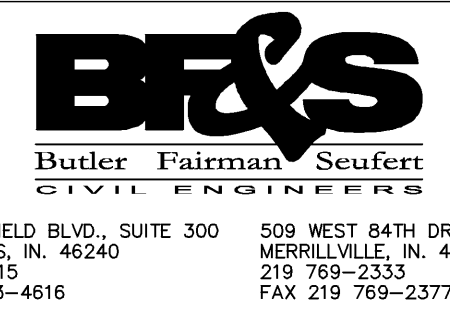
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SURVEY BOOK	SHEET
	278 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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MSA



**CROSS SECTIONS  
LINE "A"**

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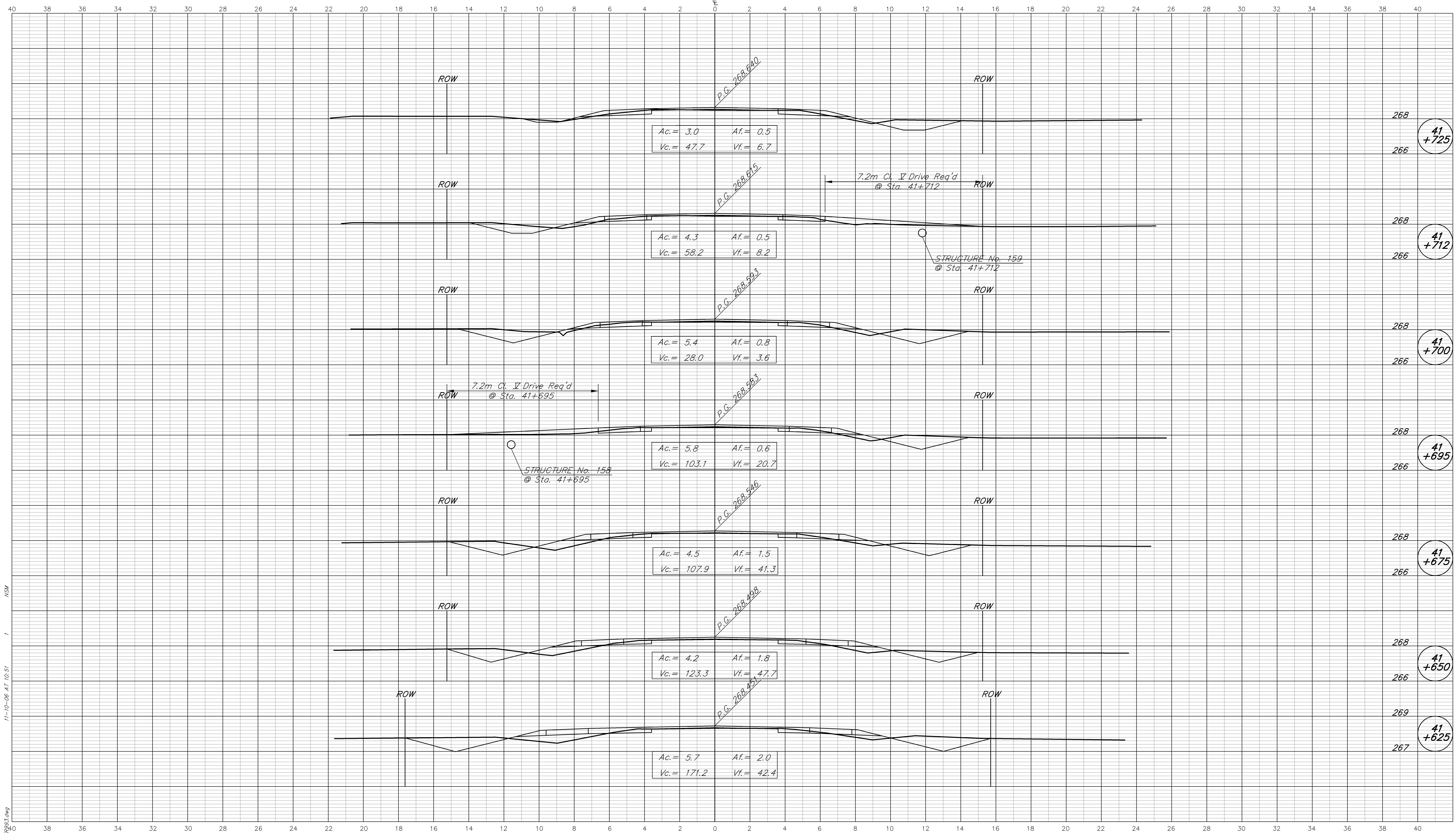
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STATE ROAD 37

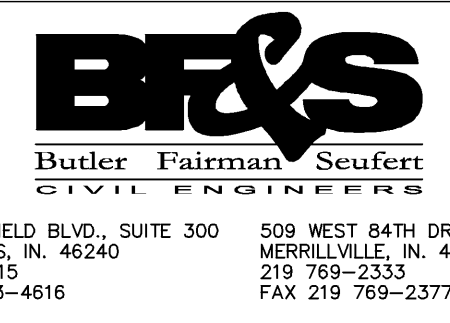
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET 279 OF 292
CONTRACT R-28934	PROJECT STP/097-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:51  
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CROSS SECTIONS  
 LINE "A"  
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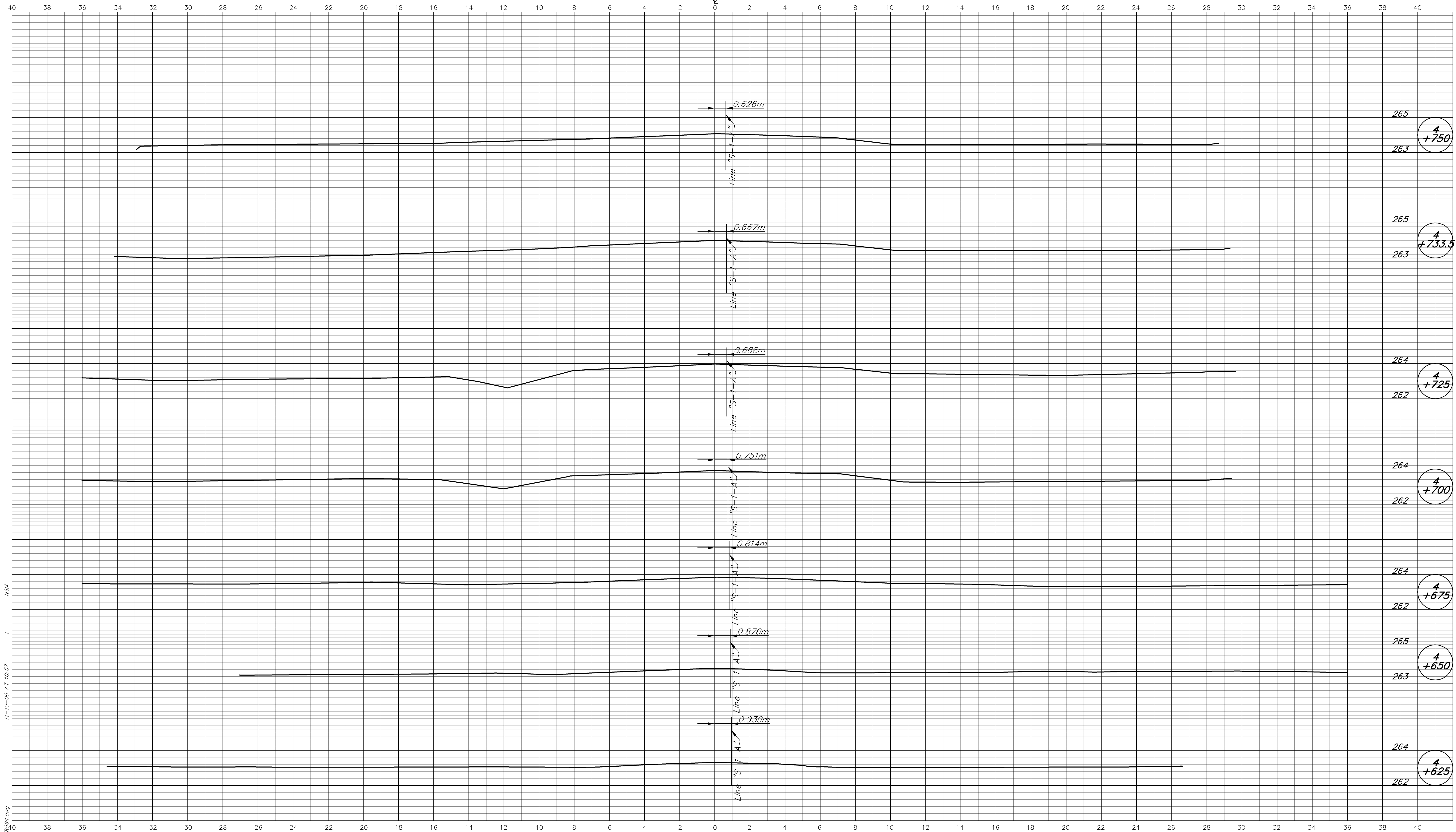
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 STATE ROAD 37

HORIZONTAL SCALE	FILE
1:100	3783
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	280 OF 292
CONTRACT	PROJECT
R-28934	STP/097-9(005)

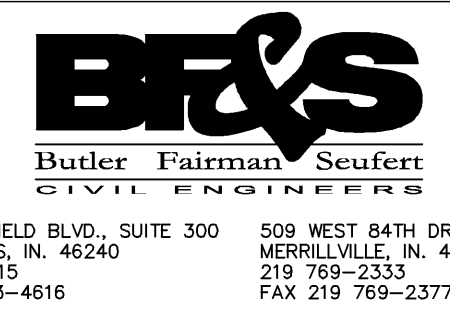
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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11-10-06 AT 10:57  
MSA



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377

CROSS SECTIONS LINE "S-1-A"	
DESIGNED: MSL	DRAWN: MSS
CHECKED: BZ	CHECKED: MSL

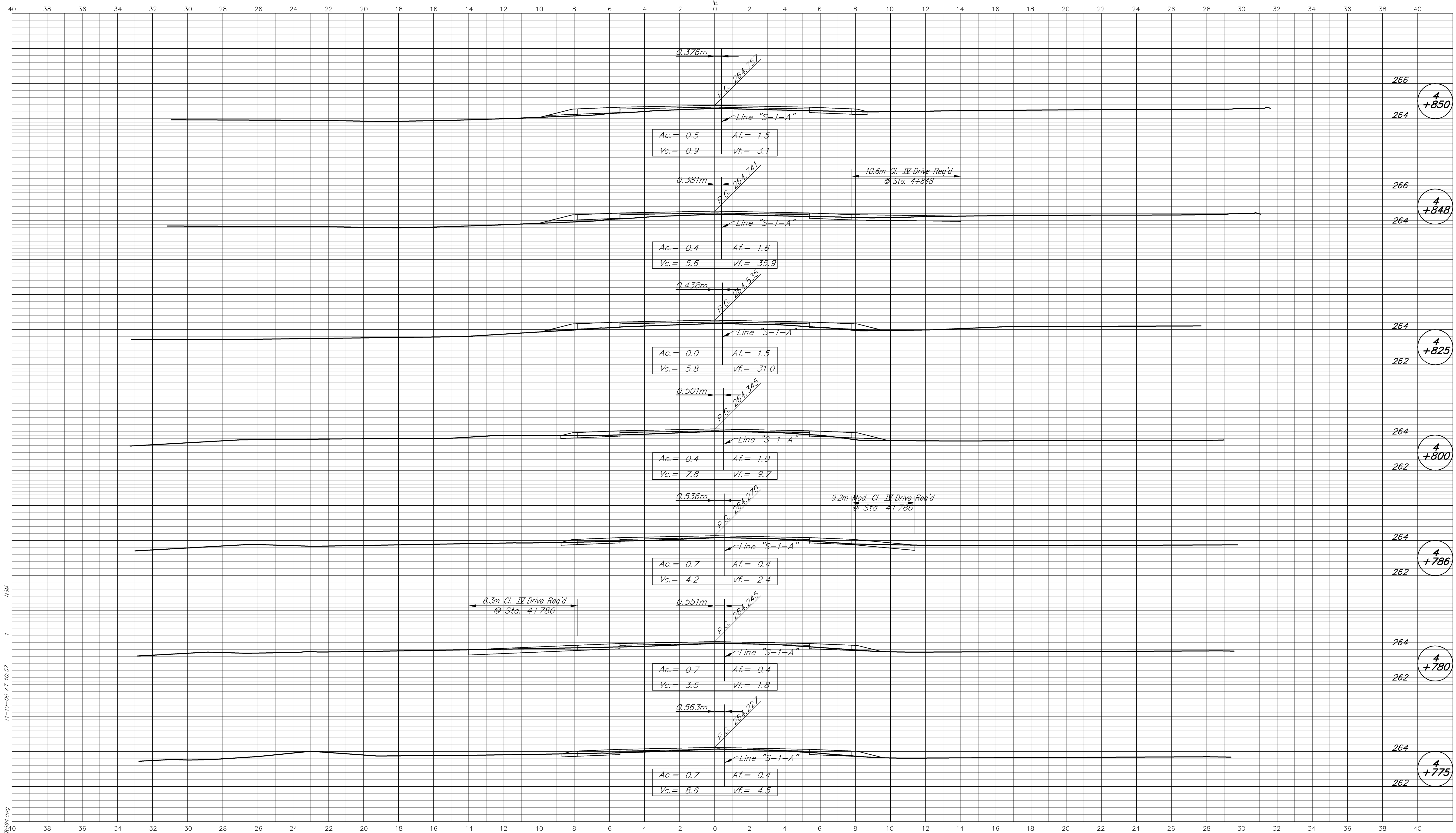
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 28

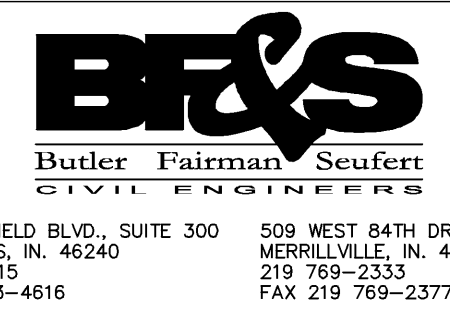
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SURVEY BOOK	SHEET
CONTRACT R-28934	281 OF 292 PROJECT STP/099-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MS4  
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CROSS SECTIONS  
LINE "S-1-A"

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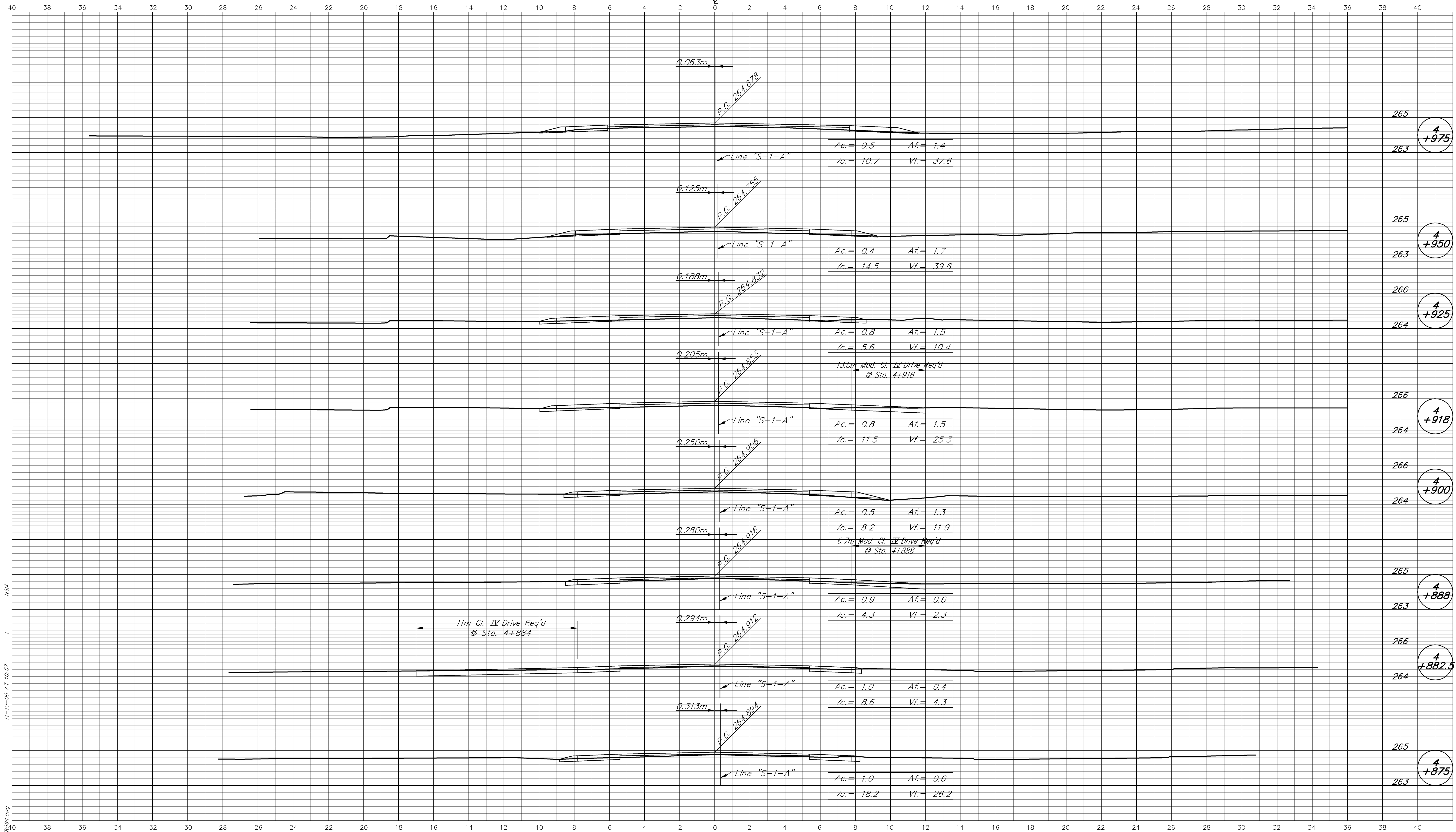
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STATE ROAD 28

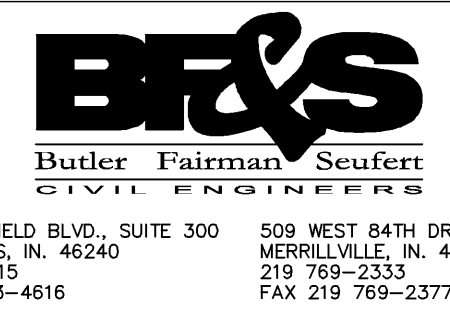
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SURVEY BOOK	SHEET
CONTRACT R-28934	282 OF 292 PROJECT STP/099-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:57  
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**CROSS SECTIONS**  
**LINE "S-1-A"**

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CHECKED: BZ CHECKED: MSL

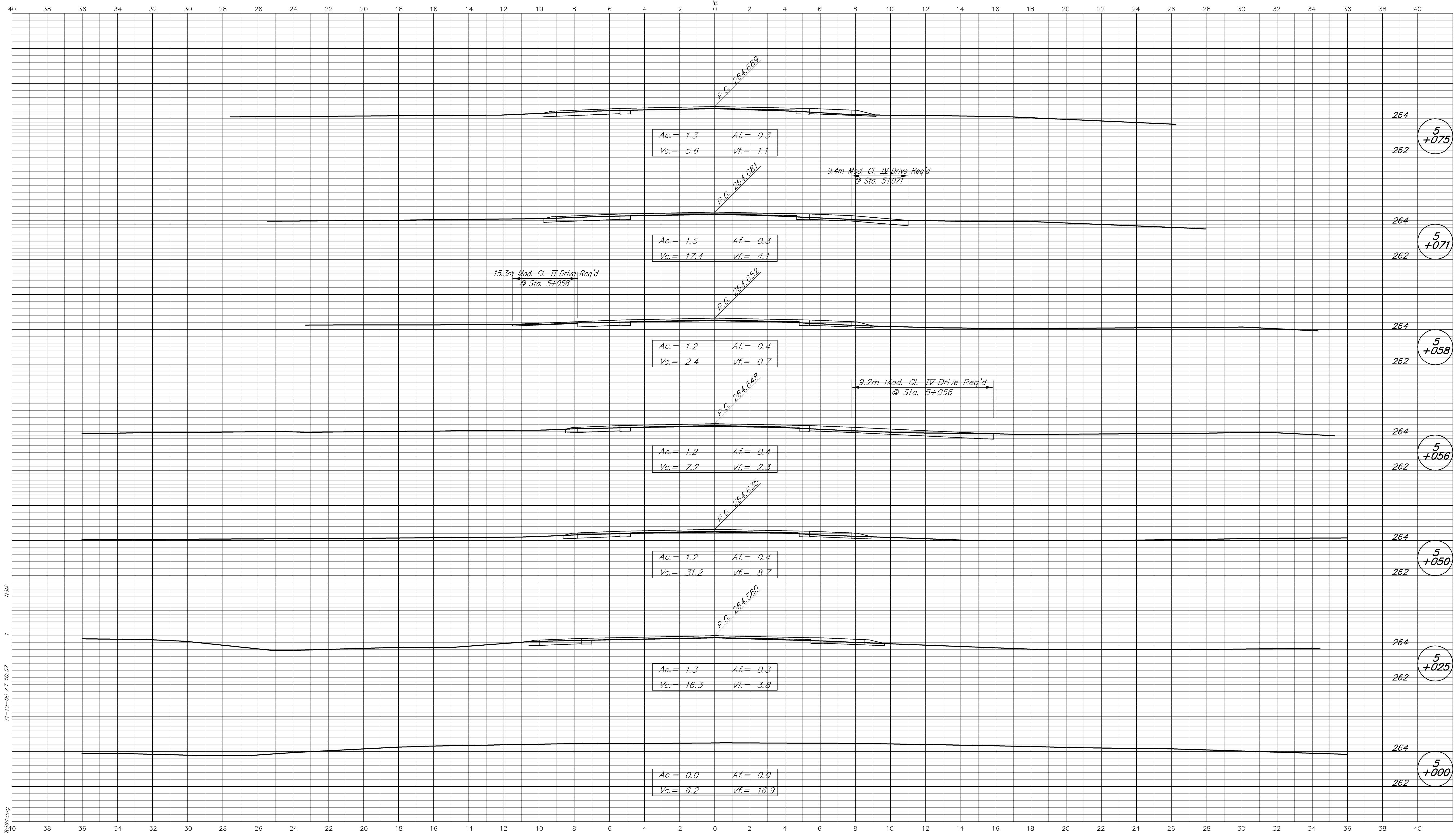
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DEPARTMENT OF TRANSPORTATION

STATE ROAD 28

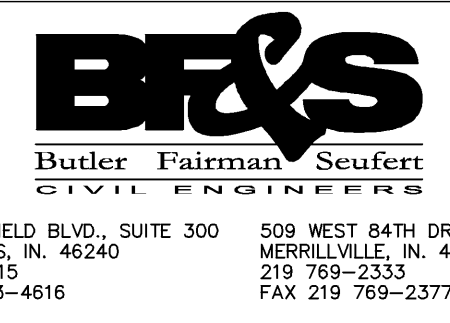
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VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
	283 OF 292
CONTRACT R-28934	PROJECT STP/099-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:57  
 R:\3783\AUTOCAD\ROAD\3783\9284.dwg  
 MS4



CROSS SECTIONS  
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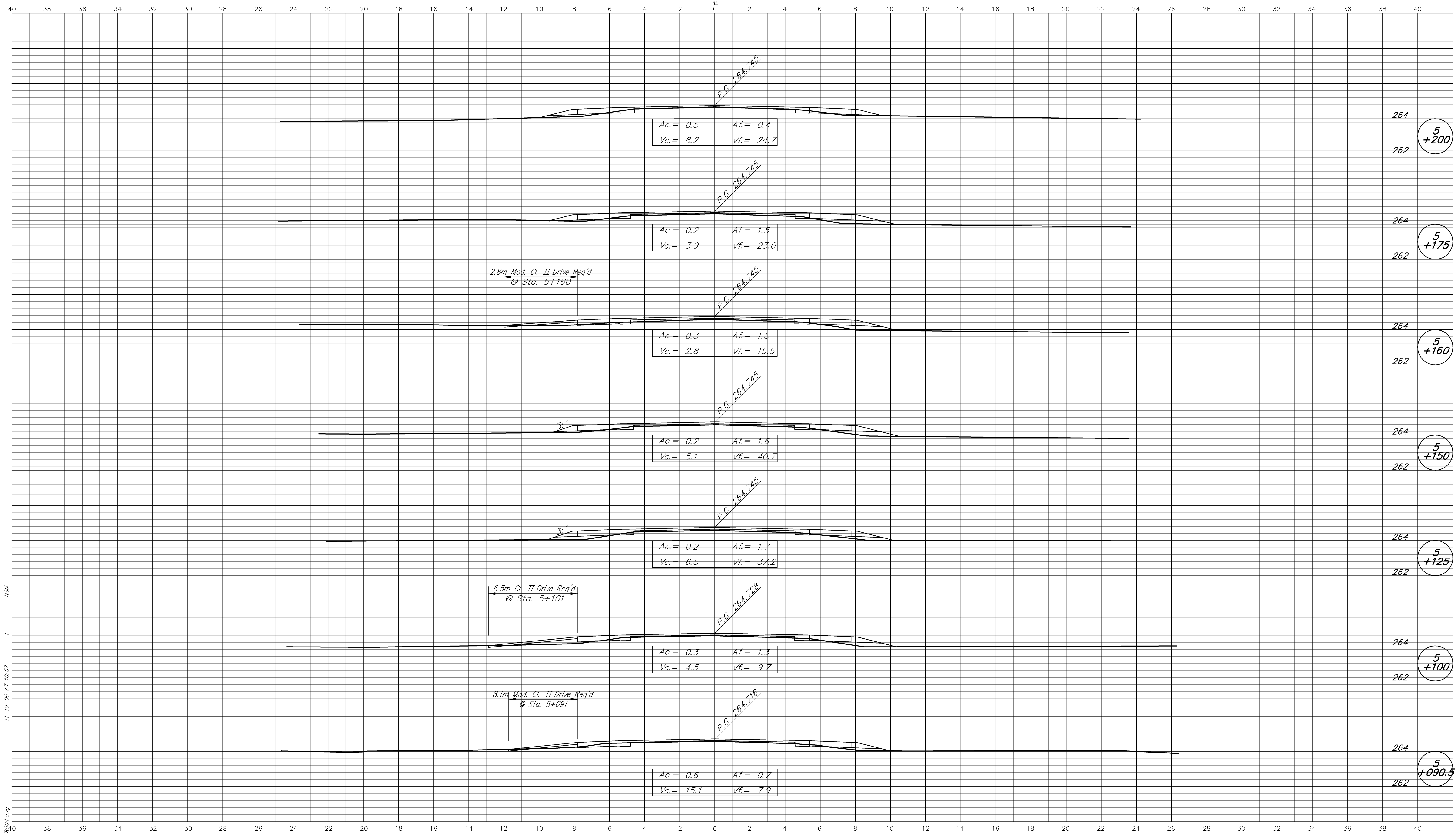
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 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 28

HORIZONTAL SCALE 1:100	FILE 3783
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SURVEY BOOK	SHEET 284 OF 292
CONTRACT R-28934	PROJECT STP/099-9(005)

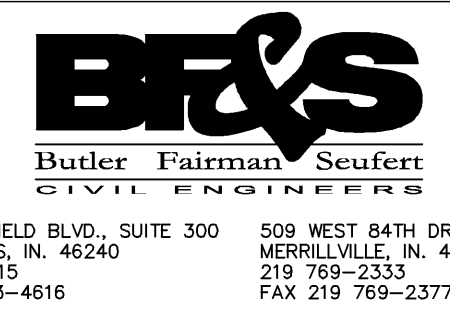
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CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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**CROSS SECTIONS  
LINE "S-1-A"**

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 CHECKED: BZ CHECKED: MSL

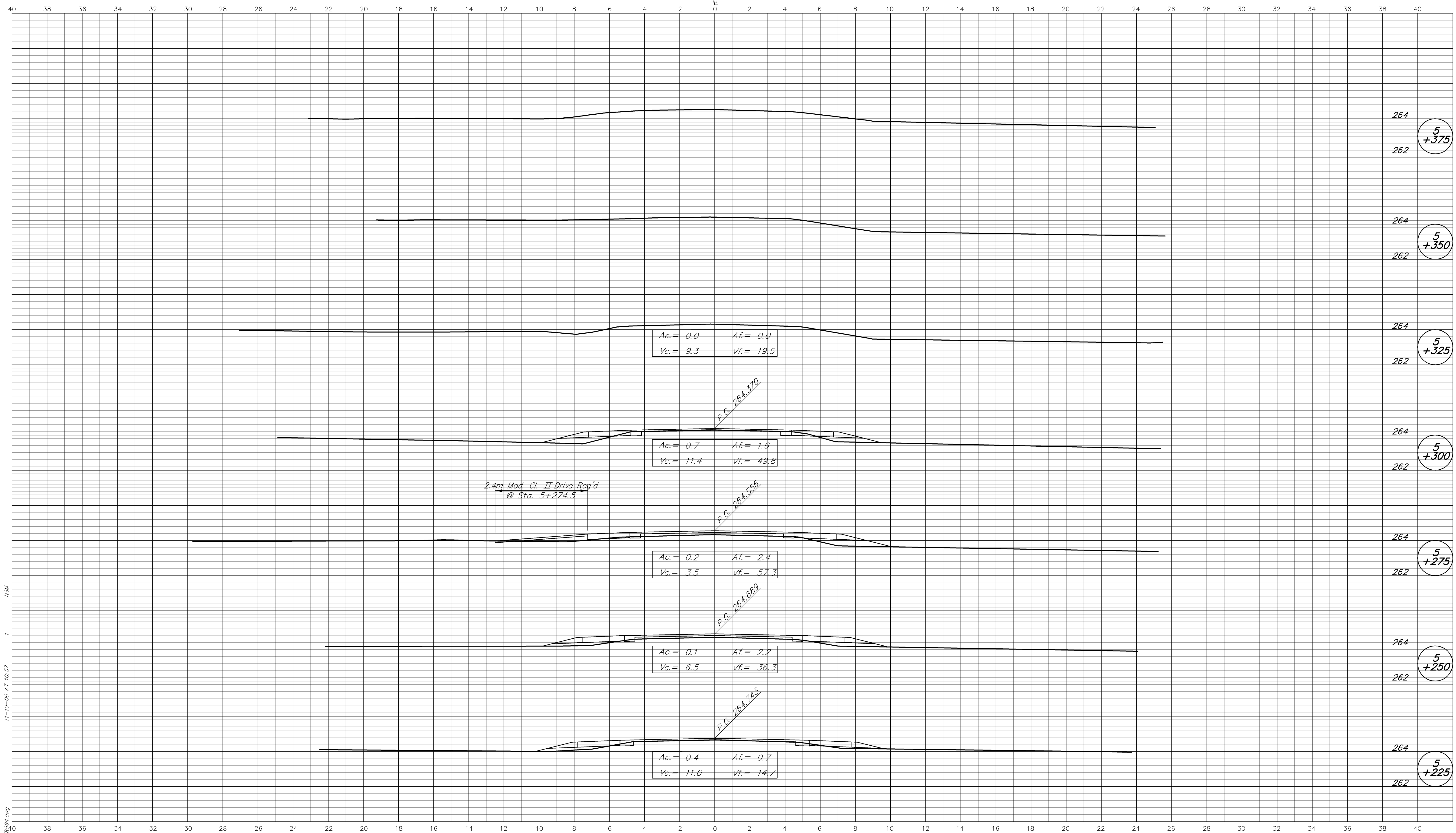
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STATE ROAD 28

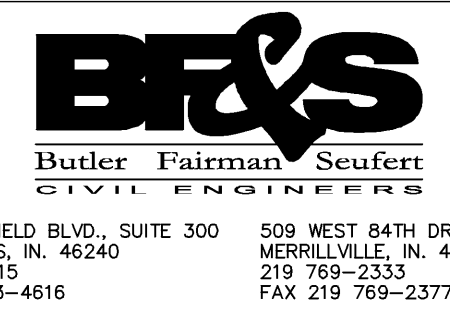
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SURVEY BOOK	SHEET 285 OF 292
CONTRACT R-28934	PROJECT STP/099-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



11-10-06 AT 10:57  
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8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
 317 713-4615  
 FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
 219 769-2333  
 FAX 219 769-2377

CROSS SECTIONS  
LINE "S-1-A"

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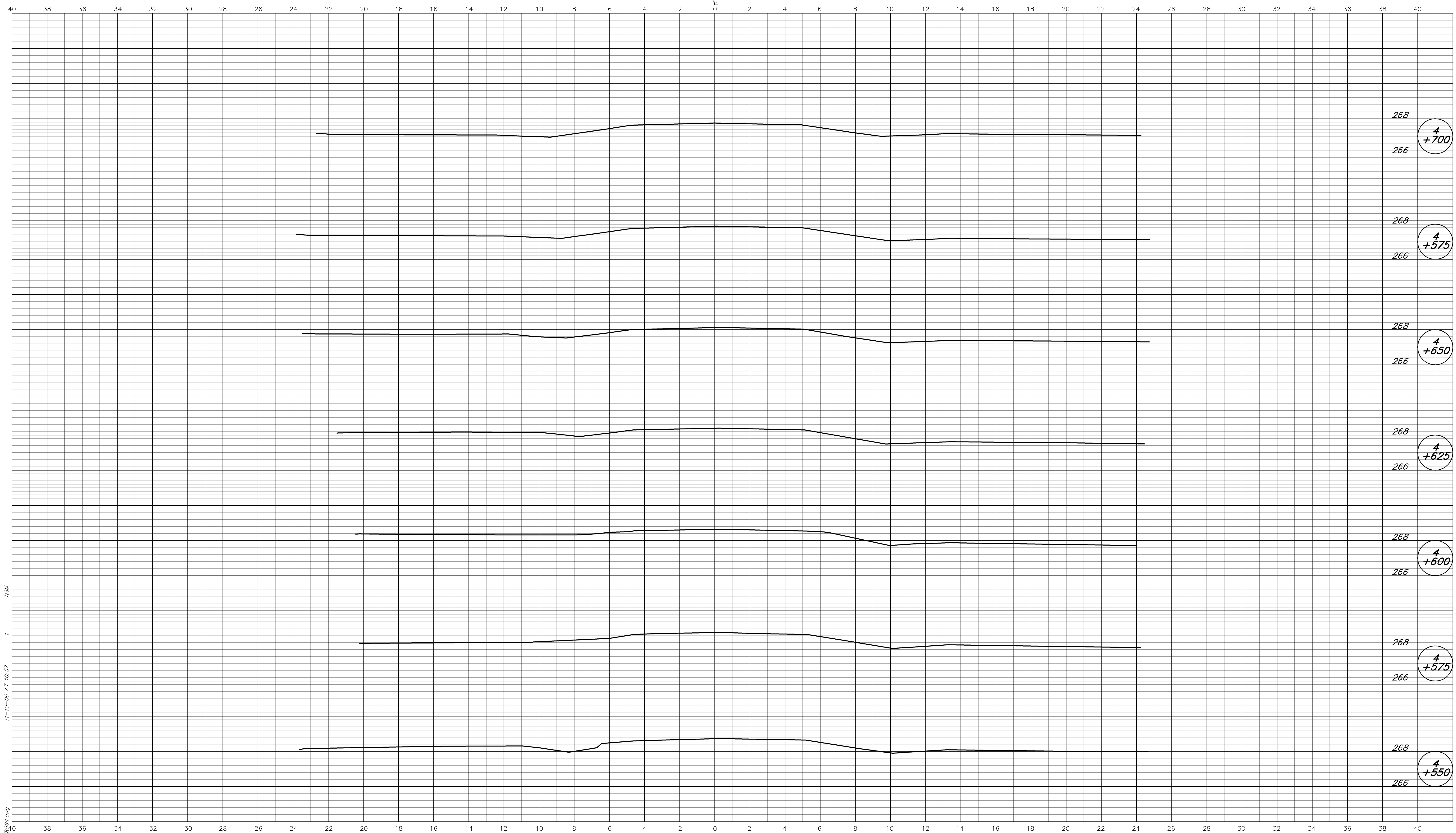
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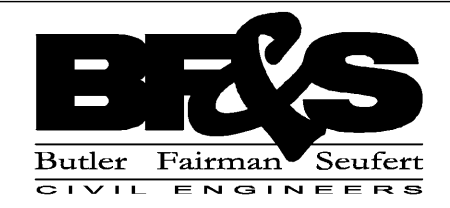
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SURVEY BOOK	SHEET 286 OF 292
CONTRACT R-28934	PROJECT STP/099-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



R: L3783 (AUTOCAD) ROAD L3783.dwg  
11-10-06 AT 10:57  
MSA



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333 FAX 219 769-2377

**CROSS SECTIONS  
LINE "S-2-A"**

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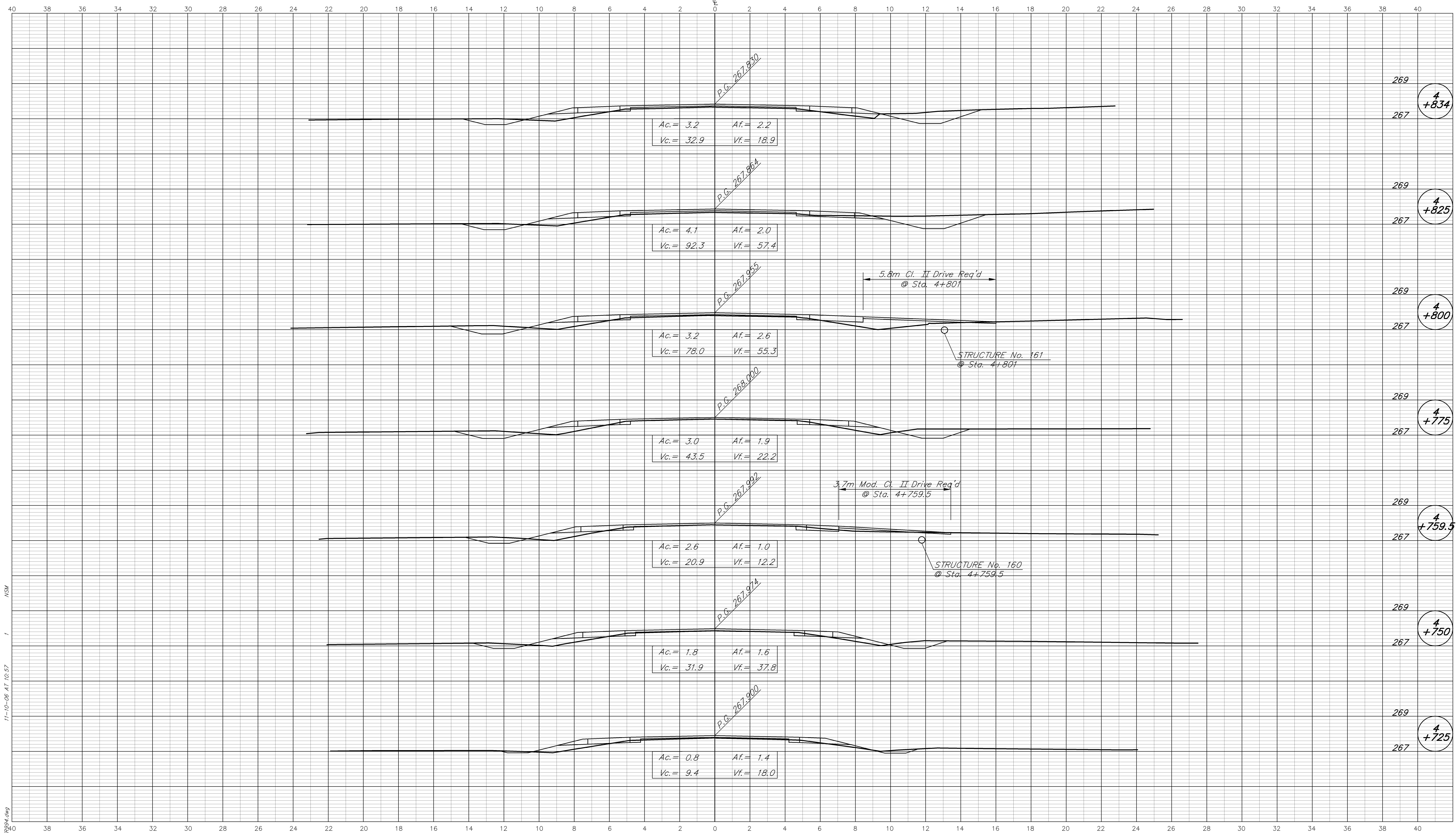
**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**STATE ROAD 26**

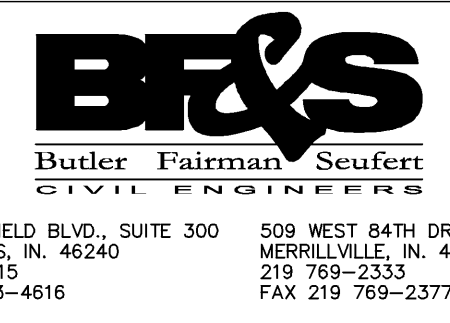
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SURVEY BOOK	SHEET
	287 OF 292
CONTRACT R-28934	PROJECT STP/099-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MS4  
11-10-06 AT 10:57  
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CROSS SECTIONS  
LINE "S-2-A"

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INDIANA  
DEPARTMENT OF TRANSPORTATION

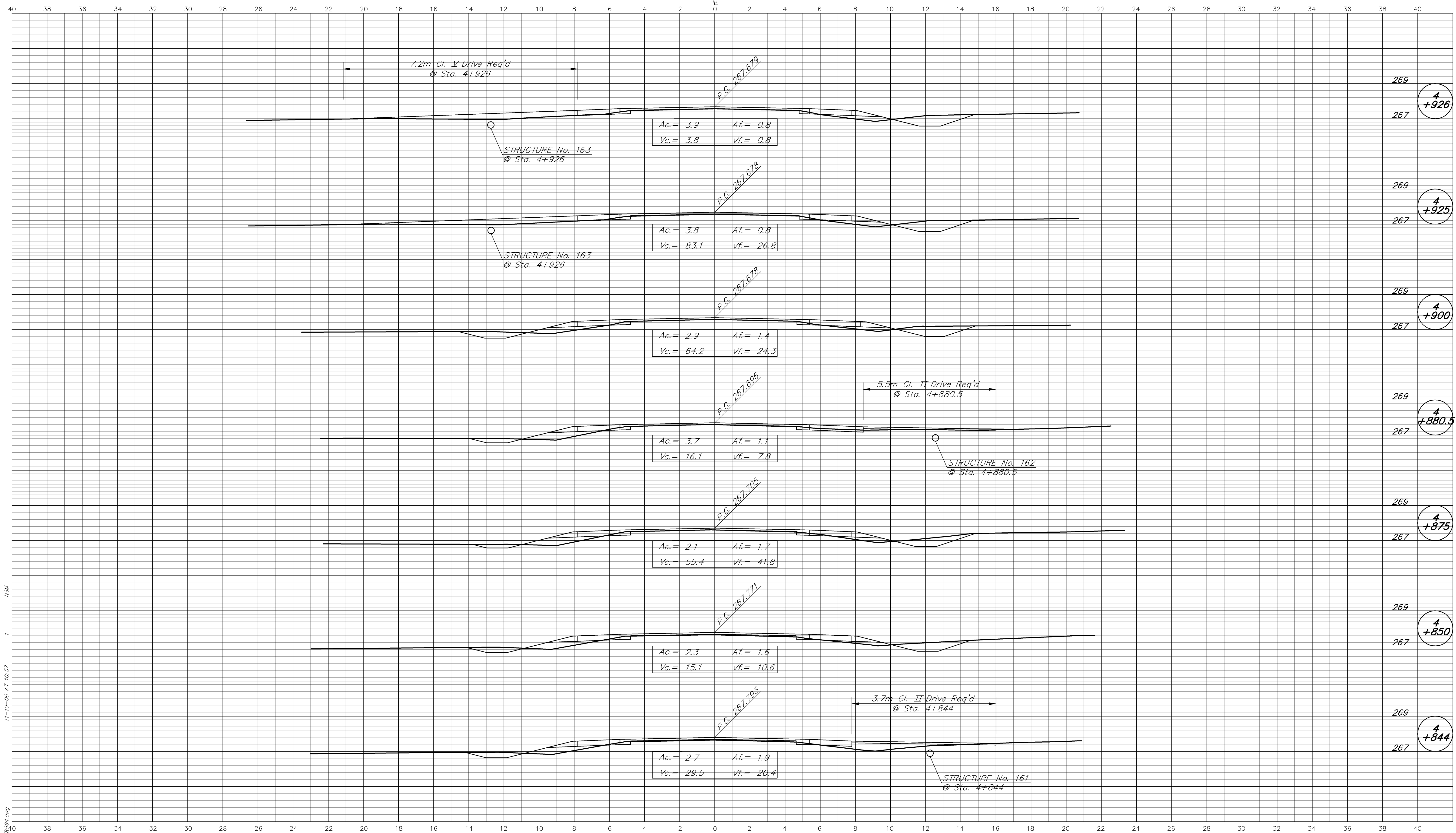
STATE ROAD 26

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SURVEY BOOK	SHEET 288 OF 292
CONTRACT R-28934	PROJECT STP/099-9(005)

BFS NO. 3783.07



CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



MSA  
11-10-06 AT 10:57  
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**BFS**  
Butler Fairman Seufert  
CIVIL ENGINEERS  
8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240  
317 713-4615  
FAX 317 713-4616

509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410  
219 769-2333  
FAX 219 769-2377

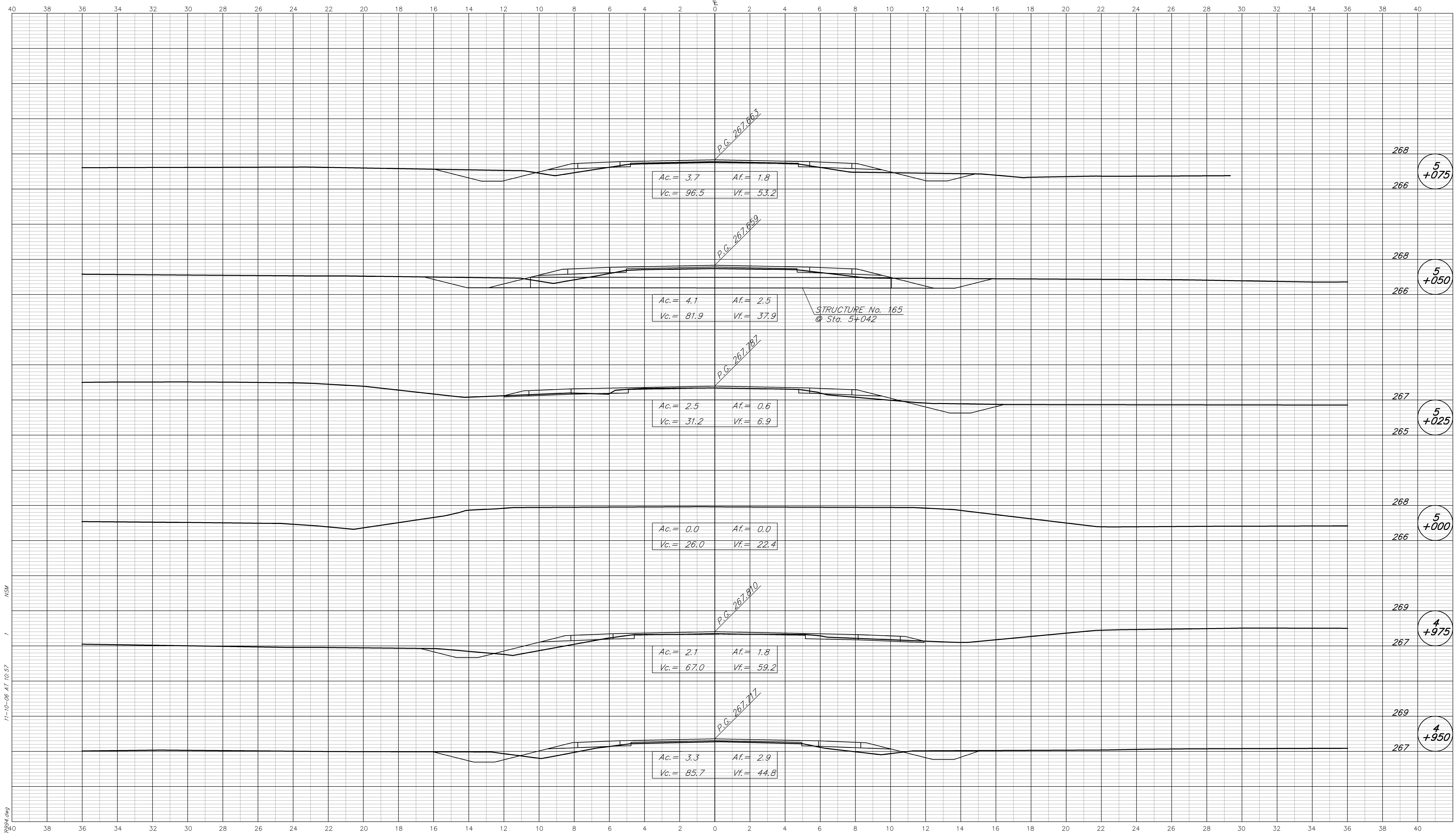
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INDIANA DEPARTMENT OF TRANSPORTATION  
STATE ROAD 26

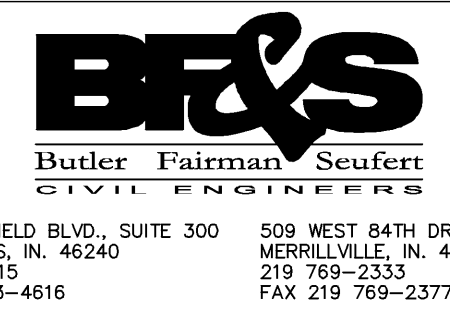
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SURVEY BOOK	SHEET
CONTRACT R-28934	289 OF 292 PROJECT STP/099-9(005)

BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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**CROSS SECTIONS  
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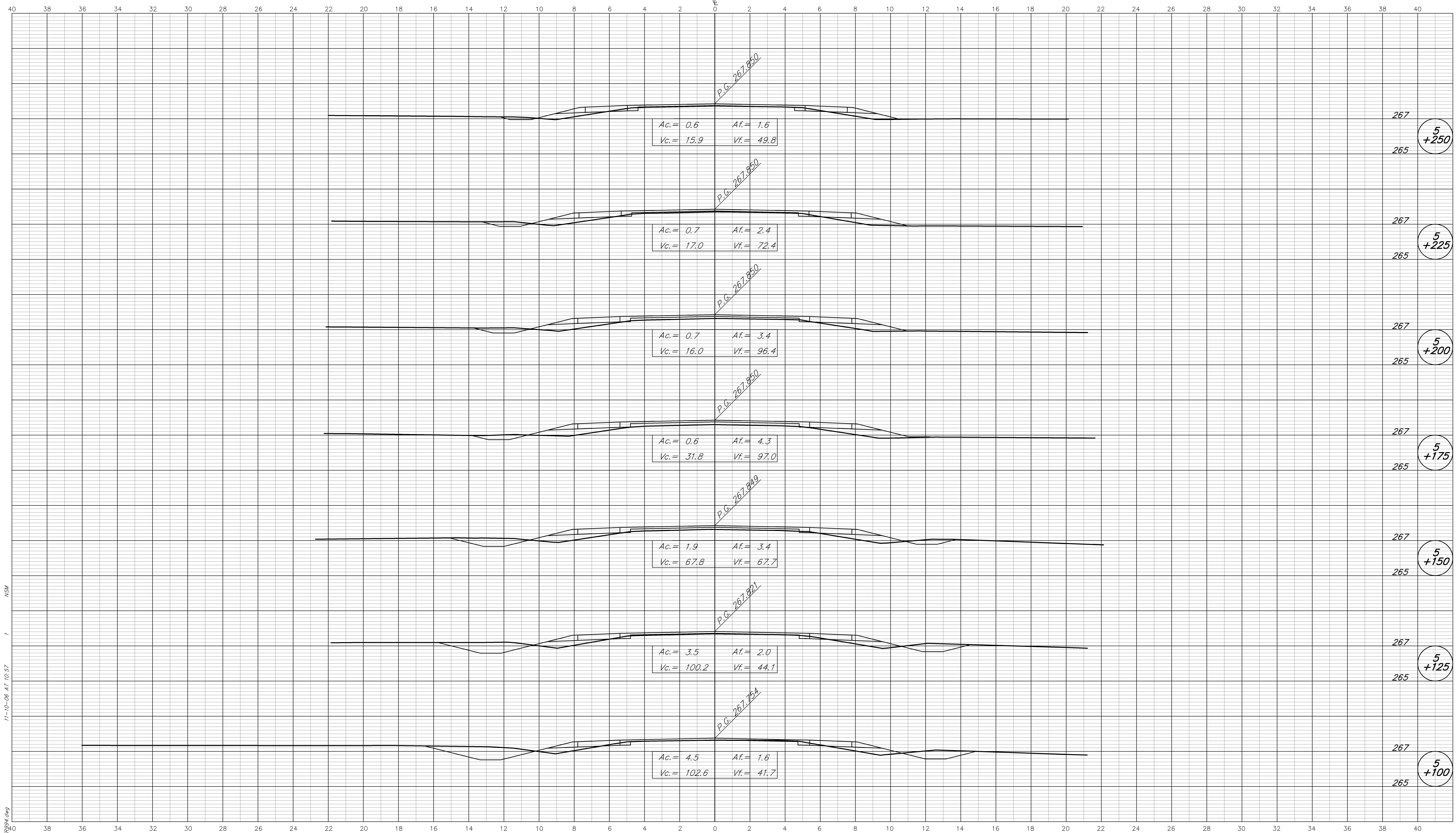
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STATE ROAD 26

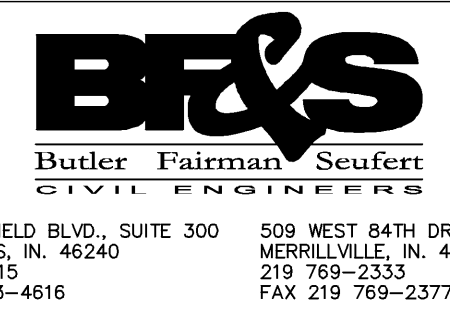
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SURVEY BOOK	SHEET
CONTRACT R-28934	PROJECT STP/099-9(005)

SHEET 290 OF 292  
BFS NO. 3783.07

CUT CROSS SECTIONS FILL  
Scale 1:100 (METRIC)



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**CROSS SECTIONS  
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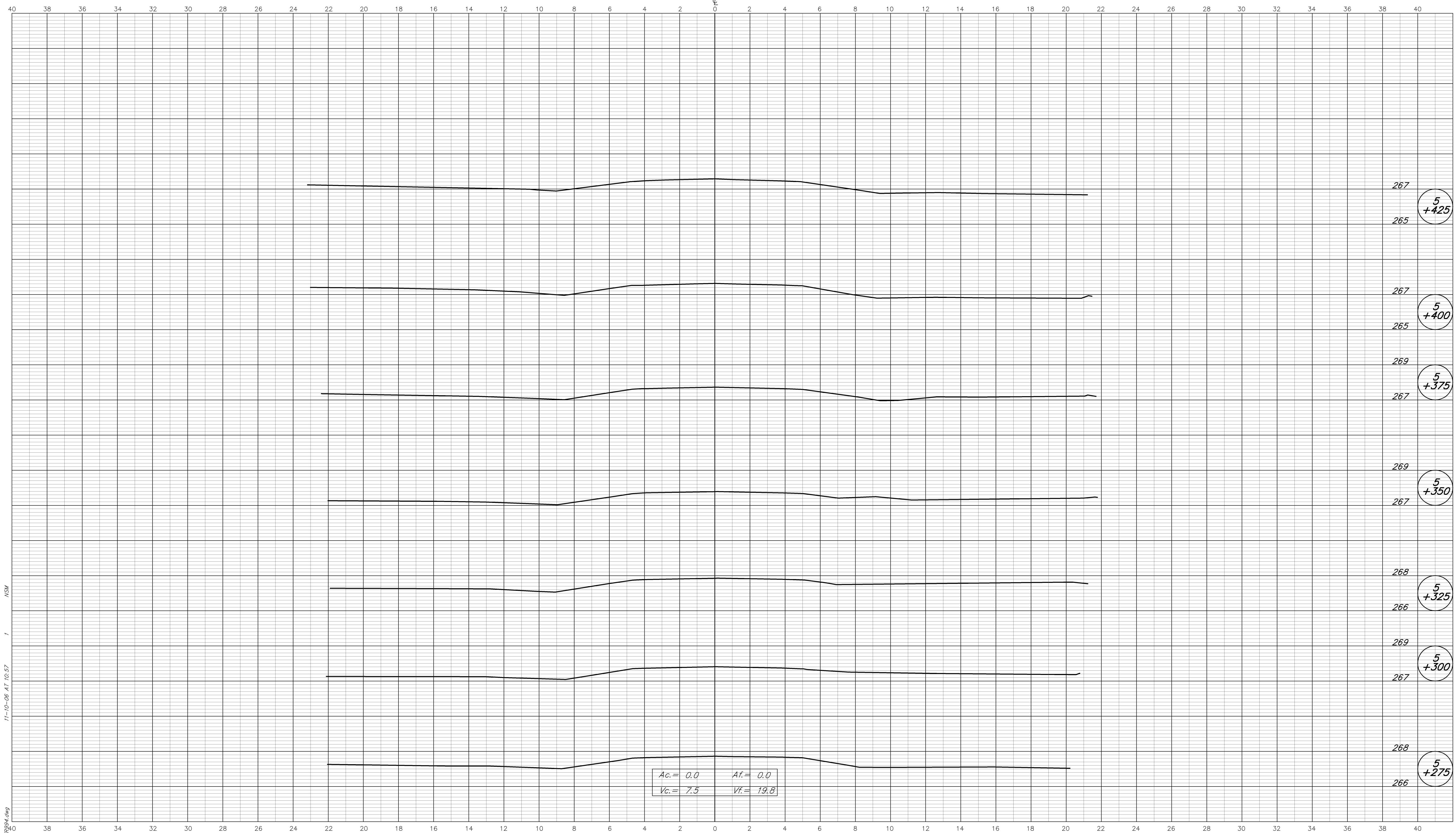
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INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 STATE ROAD 26

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SURVEY BOOK	SHEET 291 OF 292
CONTRACT R-28934	PROJECT STP/099-9(005)

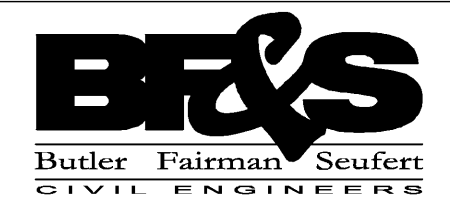
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Scale 1:100 (METRIC)



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11-10-06 AT 10:57  
MSA

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Vc = 7.5 Vt = 19.8



8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240 317 713-4615 FAX 317 713-4616  
509 WEST 84TH DRIVE, SUITE G MERRILLVILLE, IN. 46410 219 769-2333 FAX 219 769-2377

CROSS SECTIONS  
LINE "S-2-A"

DESIGNED: MSL DRAWN: MSS  
CHECKED: BZ CHECKED: MSL

INDIANA  
DEPARTMENT OF TRANSPORTATION

STATE ROAD 26

HORIZONTAL SCALE 1:100	FILE 3783
VERTICAL SCALE 1:100	DESIGNATION 9706580
SURVEY BOOK	SHEET
CONTRACT R-28934	292 OF 292 PROJECT STP/099-9(005)

BFS NO. 3783.07