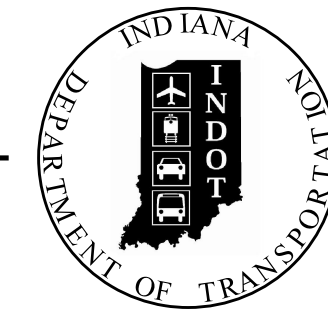


PROJECT	DESIGNATION
0710399	0710399
CONTRACT	
R-32258	

INDIANA DEPARTMENT OF TRANSPORTATION

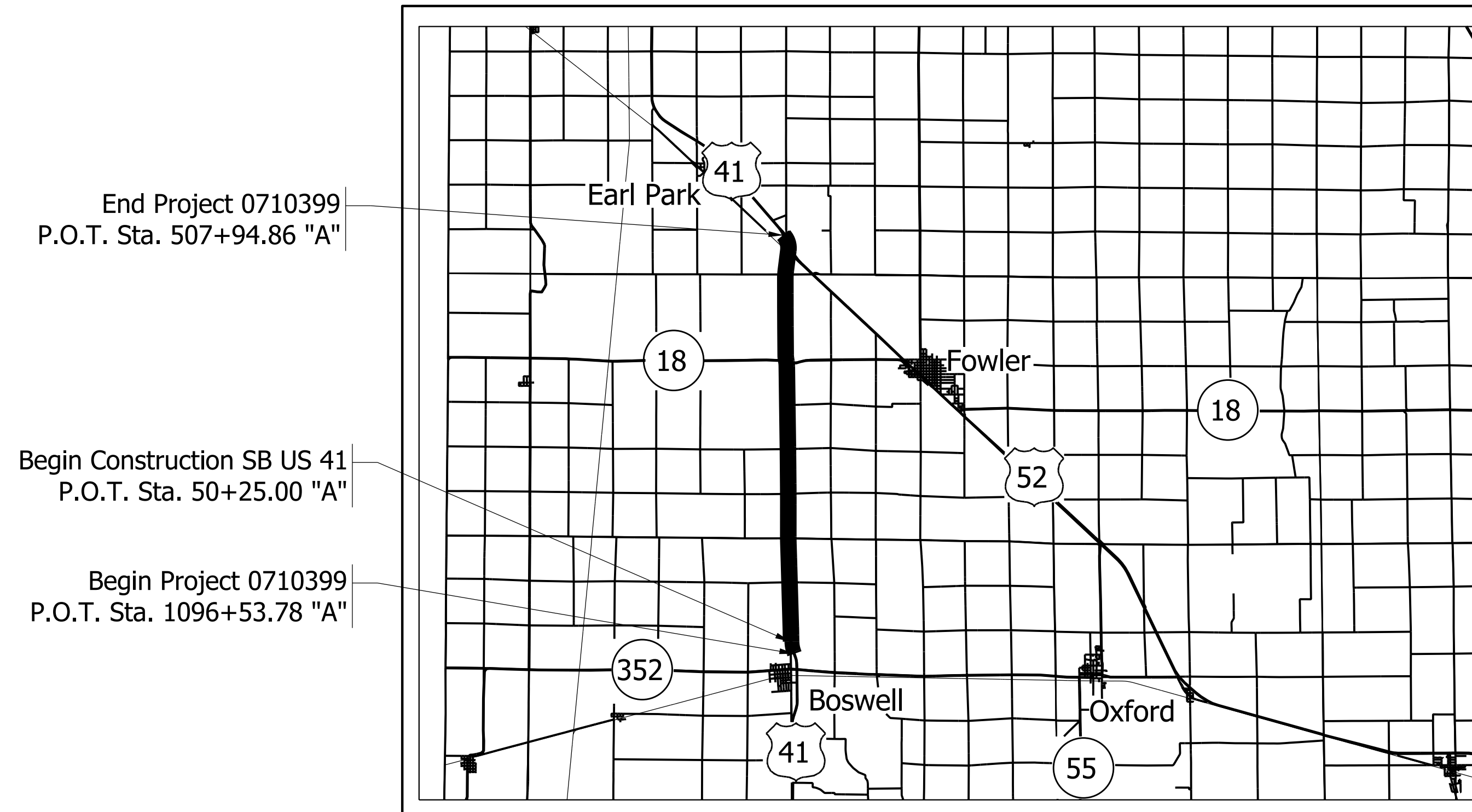


ROAD PLANS

ROUTE: US 41 FROM: RP 194+75 TO: RP 203+56
PROJECT NO. 0710399 P.E., CONST.

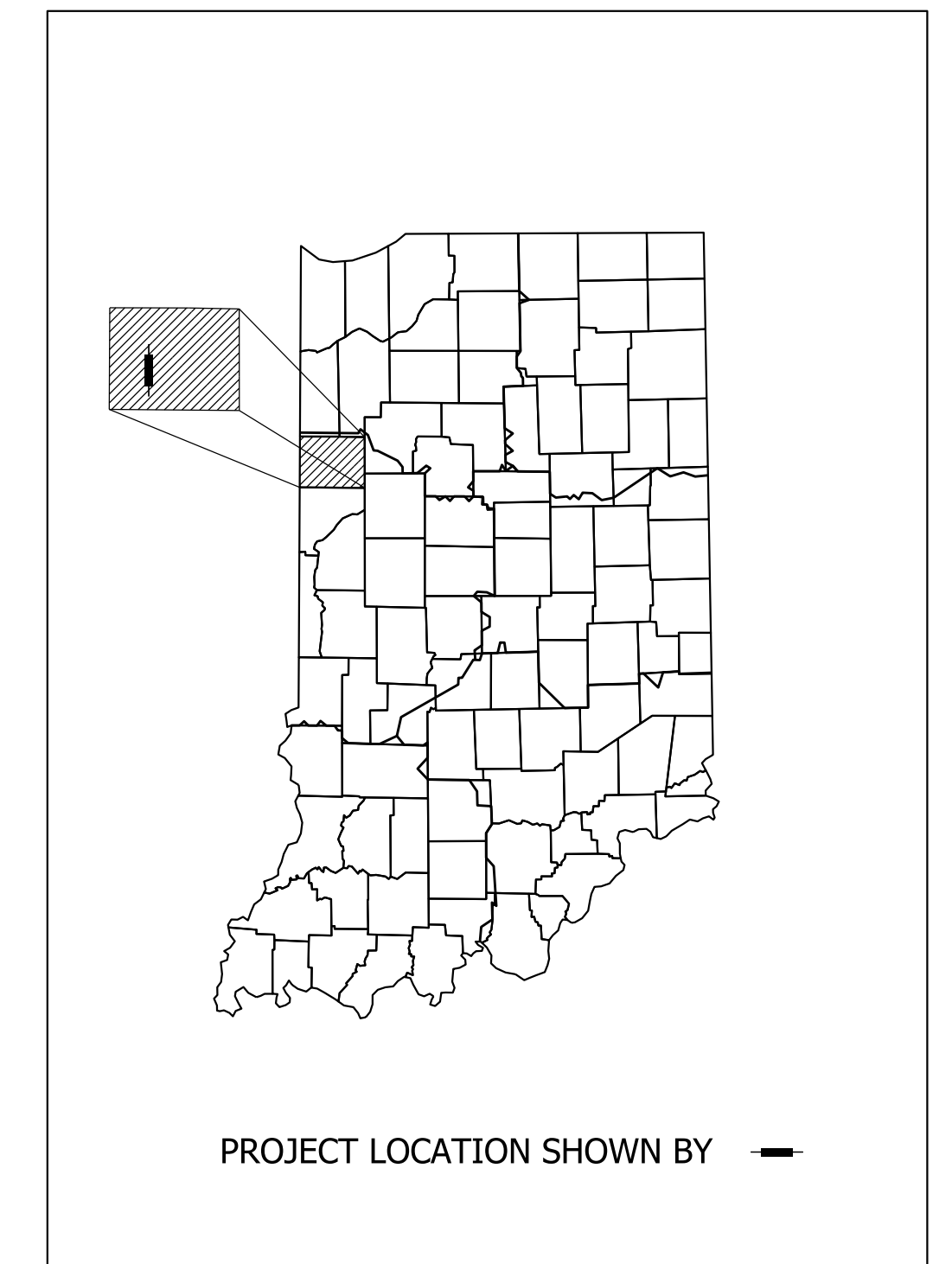
Functional overlay project beginning at a point on US 41 0.75 miles north of SR 352/W CR 600 S and 8.99 miles north along US 41. Located in Sections 1, 12, 13 of Township 24 North, Range 9 West, Sections 6, 7, 18 of Township 24 North, Range 8 West, Sections 1, 12, 13, 24, 25, 36 of Township 25 North, Range 9 West, Sections 6, 7, 18, 19, 30, 31 of Township 25 North, Range 8 West, Section 36, Township 26 North, Range 9 West, and Section 31, Township 26 North, Range 8 West in Grant, Parish Grove, Center and Richland Townships in Benton County, Indiana.

Gross Length: 8.99 MI.
Net Length: 8.97 MI.
Maximum Grade: 2.41 %

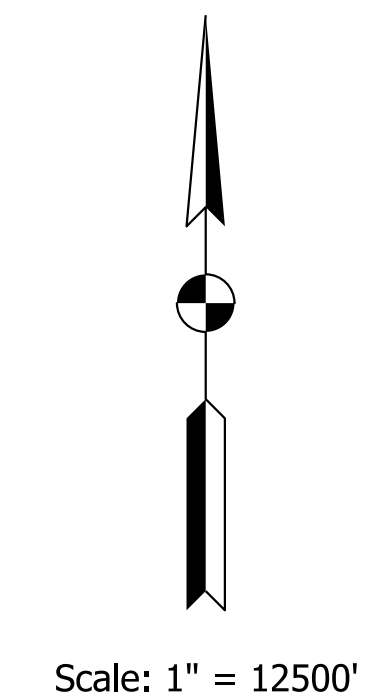


LOCATION MAP
BENTON COUNTY

TRAFFIC DATA		
A.A.D.T. (2014)		5150 V.P.D.
A.A.D.T. (2034)		6100 V.P.D.
D.H.V. (2034)		447 V.P.H.
DIRECTIONAL DISTRIBUTION		50/50%
TRUCKS		38% A.A.D.T. 32% D.H.V.
DESIGN DATA		
DESIGN SPEED		60 M.P.H.
PROJECT DESIGN CRITERIA		3R Non-Freeway
FUNCTIONAL CLASSIFICATION		Principal Arterial
RURAL/URBAN		Rural
TERRAIN		Level
ACCESS CONTROL		Partial



LATITUDE: 40°35'35"N LONGITUDE: 87°22'49"W



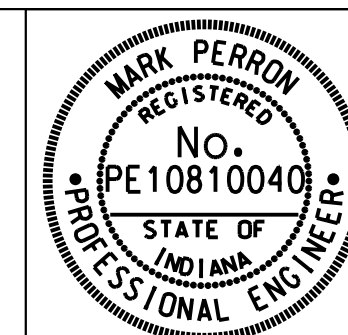
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2014
TO BE USED WITH THESE PLANS

PARSONS

101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033



1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ucindy.com



PLANS PREPARED BY: **PARSONS** 1-317-616-1000 PHONE NUMBER
CERTIFIED BY: *Mark Perron* 10/04/2013 DATE
APPROVED FOR LETTING: _____ INDIANA DEPARTMENT OF TRANSPORTATION DATE

DESIGNATION	
0710399	
SURVEY BOOK	SHEETS
1	of 162
CONTRACT	PROJECT
R-32258	0710399

UTILITIES

<p>Cable/Telephone</p> <p>Comcast Cablevision of Fort Wayne 720 Taylor Street Fort Wayne, Indiana 46802 (260) 458-5107 (260) 410-3606 (260) 755-6647 Attn: John Gayday john_gayday@cable.comcast.com</p> <p>CenturyTel of Central Indiana, Inc. 203 West 9th Street Lorain, Ohio 44052 (574) 935-1247 (ofc) (574) 540-9185 (cell) (440) 246-6338 (fax) Attn: Bruce Emerick Bruce.A.Emerick@CenturyLink.com</p> <p>Electric</p> <p>Northern Indiana Public Service Co.(NIPSCO) 801 East 86th Avenue Merrillville, Indiana 46410 (219) 647-6502 (219) 647-5151 Attn: Jill J. Boganwright jboganwright@nsource.com</p> <p>Warren County REMC P.O. Box 37 Williamsport, Indiana 47993 (765) 762-6114 (ofc) (765) 585-3268 (cell) Attn: Rich Schoonveld richs@wcremc.com</p> <p>Fowler Wind Farms 91 S. 100 E Fowler, Indiana 47944 (765) 884-1000 Attn: Scott Thompkins scott.thompkins@bp.com</p> <p>Water</p> <p>Town of Boswell 111 W Main St. P.O. Box 223 Boswell, Indiana 47921 (765) 869-5951 (765) 869-4542 (fax) Attn: Jim Turner turner.boswellwater@yahoo.com</p>	<p>Gas</p> <p>Trunkline Gas Company 10483 W 600 S Ambia, Indiana 47917 (765) 869-5521 ext211 (765) 714-9413 (765) 869-4423 (fax) Attn: Mick Braddock mickey.braddock@sug.com</p> <p>Panhandle Eastern Pipe Line 8910 Purdue Road, Suite 300 Indianapolis, IN 46268 (317) 879-3039 (313) 215-2916 (cell) Attn: Joel Norton Joel.Norton@energytransfer.com</p> <p>Communications</p> <p>AT&T Indiana 5858 N College Ave Indianapolis, Indiana 46220 (317) 252-4007 (317) 989-1413 (cell) (317) 252-4013 (fax) Attn: Michael Haynes mh2623@att.com</p> <p>MCI Communication Services, Inc.(MCI/Verizon Business) 730 West Henry Street Indianapolis, Indiana 46225 (317) 685-8050 (317) 435-6225 (cell) (317) 637-3459 (fax) Attn: Chris Fowler chris.fowler@verizonbusiness.com</p> <p>Indiana Communications (888) 640-1119 Attn: Todd Harris tharris@fullchoice.tv</p>
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GENERAL NOTES

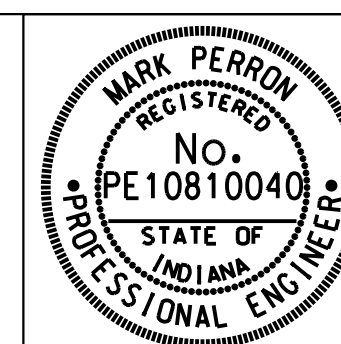
xx	All Earth Shoulders, Median Areas, Cut and Fill Slopes Shall Be Plain or Mulch Seeded Except Where Sodding is Specified.
	Paper Relocation is to be Cross Sectioned by The Engineer Before Construction.
	Existing Asphalt is Located Outside the Construction Limits, between Station _____ and Station _____ Shall Be Removed as Directed.
	The Quantity of Peat Excavation as Shown on the Plans has Been Estimated on the Basis of Theoretical Cross Sections by Using Treatment of Existing Fills, Treatment by Removal, or Treatment by Displacement, Where each Treatment Applies.
xx	All Limited Access Right-of-Way (LA R/W) is to be Fenced with Farm Field Type Fence (FFTF) and Shall be Placed in Lieu of Right-Of-Way Markers, Unless Otherwise Noted.
xx	All Existing Right-of-Way Fence Shall Not be Disturbed Unless Otherwise Noted in Plans.
xx	The Final Cross Sections of the Grading Contract will be the Original Cross Sections of the Paving Contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
xx	Required General Notes

SHEET INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE
2	INDEX AND GENERAL NOTES
3	CONTROL POINTS & REFERENCE TIES
4 - 6	TYPICAL CROSS SECTIONS
7 - 8	PLAT NO. 1
9	GEOMETRIC TIE-UP
10 - 20	MAINTENANCE OF TRAFFIC
21 - 58	PLAN AND PROFILE SHEETS
59 - 62	SUPERELEVATION DETAIL
63	WIM DETAIL
64 - 65	CONSTRUCTION DETAILS STR. 041-4-197.67
66 - 98	EROSION CONTROL PLAN LINE "A"
99 - 100	PAVEMENT MARKING DETAIL
101 - 102	PAVEMENT QUANTITIES AND APPROACH TABLE
103	EROSION CONTROL TABLE
104	MISCELLANEOUS TABLE
105	PIPE MATERIALS TABLE
106 - 135	UNDERDRAIN TABLE
136 - 162	CROSS SECTIONS LINE "A"

ABBREVIATIONS

R/W	Right-of-Way
L.A. R/W	Limited Access Right-of-Way
A.C.L.	Access Control Line
C.L.T.F.	Chain Link Type Fence
F.F.T.F.	Farm Field Type Fence
APP. P.L.	Apparent Property Line
APP. EXIST. R/W	Apparent Existing Right-of-Way
B	Beginning L.A.R/W
E	Ending L.A.R/W
N.E.P.L.	No Evidence of Property Line
e	Superelevation
P.G.	Profile Grade

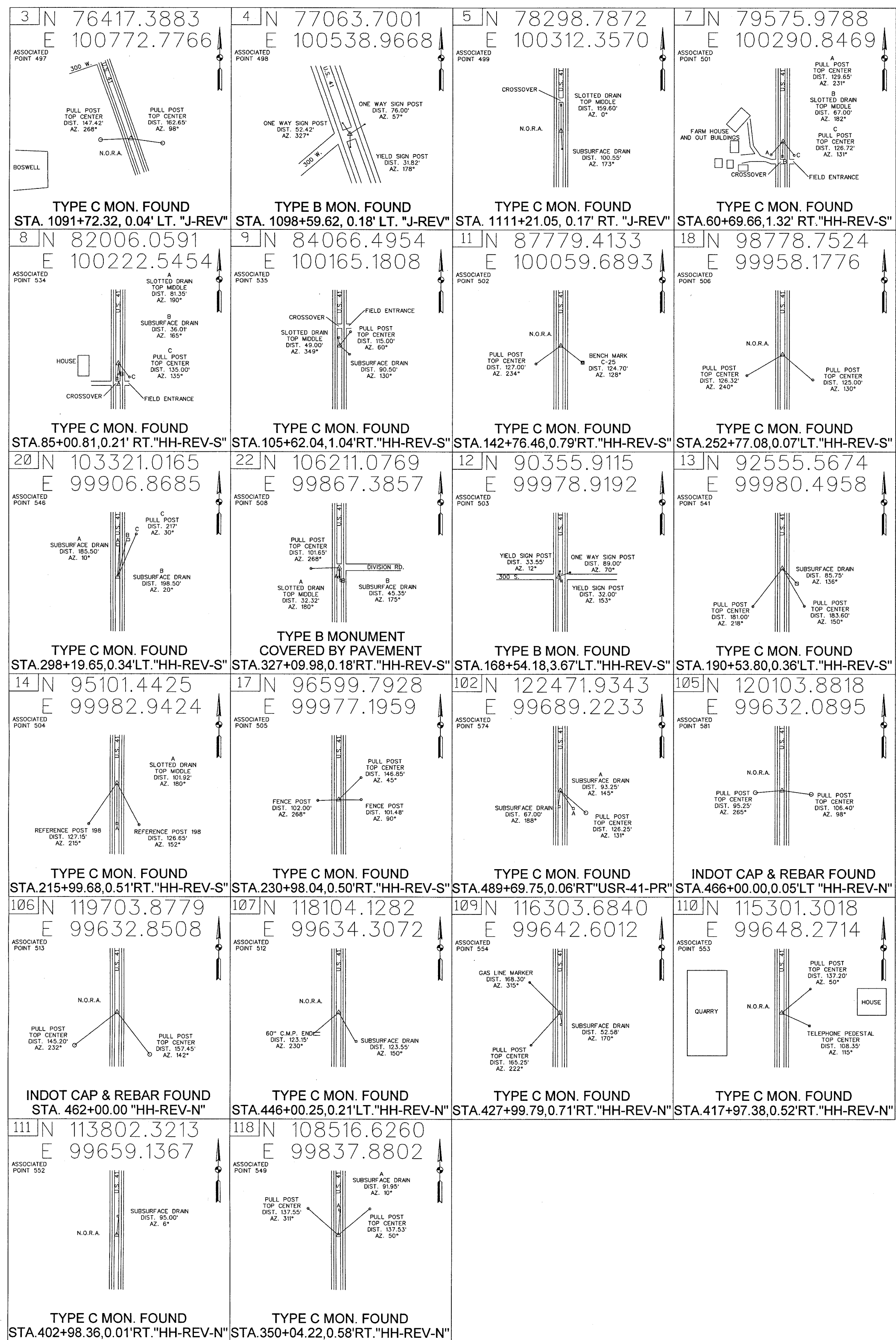


RECOMMENDED FOR APPROVAL	<i>Mark Perron</i> DESIGN ENGINEER	10/04/2013 DATE
DESIGNED:	DCK	DRAWN:
		SJC
CHECKED:	MDP	CHECKED:
		DCK

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX SHEET

SCALE	BRIDGE FILE
N/A	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	2 of 162
CONTRACT	PROJECT
R-32258	0710399



CONTROL POINTS										
Point No.	Northing	Easting	Elevation	Code	Description	Station	Offset	Line	Associated Point #	Comments
1	71162.069510	101052.141950	742.161	PMON	TYPE C MON	1038+90.23	0.13	J-REV	490	
2	72590.641510	101033.618580	745.517	PMON	TYPE C MON	1053+18.92	0.13	J-REV	493	Badly Damaged
3	76417.388280	100772.776570	758.230	PBMK	TYPE C MON / TBM 1	1091+72.32	-0.04	J-REV	497	
4	77063.700120	100538.966830	761.290	PBMK	TYPE B MON / TBM 2	1098+59.62	-0.18	J-REV	498	
5	78298.787230	100312.356960	757.360	PBMK	TYPE C MON / TBM 3	1111+21.05	0.17	J-REV	499 / 500	Line J-REV / HH-REV-S Equation
6	78547.082330	100406.889780	760.460	PIDT	BM C-23	50+39.10	98.91	HH-REV-S		Disk in Post / Slightly Disturbed
7	79575.978830	100290.846930	760.670	PBMK	TYPE C MON / TBM 4	60+69.66	1.32	HH-REV-S	501	
8	82006.059130	100222.545430	761.920	PBMK	TYPE C MON / TBM 5	85+00.81	0.21	HH-REV-S	534	
9	84066.495410	100165.180840	766.930	PBMK	TYPE C MON / TBM 6	105+62.04	1.04	HH-REV-S	535	OFFSET POT
10	87706.546390	100160.829510	776.930	PIDT	BM C-25	142+00.64	99.73	HH-REV-S		Disk in Post
11	87779.413310	100059.689270	776.240	PBMK	TYPE C MON / TBM 7	142+76.46	0.79	HH-REV-S	502	
12	90355.911480	99978.919200	801.430	PBMK	TYPE B MON / TBM 8	168+54.18	-3.67	HH-REV-S	503	
13	92555.567400	99980.495760	820.600	PBMK	TYPE C MON / TBM 9	190+53.80	-0.36	HH-REV-S	541	
14	95101.442520	99982.942440	852.620	PBMK	TYPE C MON / TBM 10	215+99.68	0.51	HH-REV-S	504	
15	95651.765260	99939.642020	859.248	PBRP	TYPE D MON / SECTION CORNER	221+50.16	-41.28	HH-REV-S		
16	95808.029990	100075.993130	862.326	PMON	BM C-26 POST	223+05.90	95.66	HH-REV-S		Disk Missing From Post
17	96599.792760	99977.195870	863.100	PBMK	TYPE C MON / TBM 11	230+98.04	0.50	HH-REV-S	505	
18	98778.752440	99958.176220	855.770	PBMK	TYPE C MON / TBM 12	252+77.08	-0.07	HH-REV-S	506	Disturbed
19	100981.596640	99896.448890	843.692	PBRP	TYPE D MON / SECTION CORNER	274+80.48	-42.48	HH-REV-S		
20	103321.016480	99906.868470	823.167	PMON	TYPE C MON	298+19.65	-0.34	HH-REV-S	546	Damaged / No Plug
21	103505.780690	100003.127400	823.004	PMON	BM C-27 POST	300+03.06	98.47	HH-REV-S		No Disk / Post Damaged
22	106211.076910	99867.385720	810.762	PMON	TYPE B MON	327+09.98	0.18	HH-REV-S	508 / 580	Covered by Pavement
23	106213.563460	99828.105580	811.299	PBRP	TYPE D MON / SECTION CORNER	327+01.48	-39.06	HH-REV-N		
24	111286.719670	99759.525420	783.998	PBRP	TYPE D MON / SECTION CORNER	377+77.30	-35.33	HH-REV-N		
30	111343.961120	100348.463390	781.066	PMON	TYPE B MON	414+41.82	0.46	SR-18	562	
31	111351.146580	101229.222570	781.174	PMON	TYPE B MON	423+33.55	-0.46	SR-18	564	
32	111563.849480	99159.345210	779.054	PMON	TYPE B MON	402+29.05	-0.32	SR-18	559	
33	74847.178930	100316.948810	754.076	PMON	TYPE B MON / SECTION CORNER	1075+84.56	-687.21	J-REV		Jct. Old US-41 & SR-352
34	116534.105740	99684.723610	815.680	PMAG	MAG NAIL / SECTION CORNER	430+30.03	43.77	HH-REV-N		Slightly Disturbed
35	90358.966680	99940.420160	802.101	PBRP	TYPE D MON / SECTION CORNER	168+57.82	-42.12	HH-REV-S		
36	85138.973520	100090.276280	771.710	PBRP	TYPE D MON / SECTION CORNER	116+36.21	-43.55	HH-REV-S		
37	80137.145580	100237.570410	764.047	PBRP	TYPE D MON / SECTION CORNER	66+32.22	-37.54	HH-REV-S		
38	80119.419030	100237.675570	764.083	PBRP	TYPE D MON / SECTION CORNER	66+14.49	-37.94	HH-REV-S		
101	124232.742290	99972.416510	819.560	PIDT	BM C-46	507+52.12	61.67	USR-41-PR		SE Cor. Bridge at Interchange
102	122471.934330	99689.223260	791.770	PBMK	TYPE C MON / TBM 20	489+69.75	0.06	USR-41-PR	574	
103	121759.477770	99688.615480	793.991	PMAG	MAG NAIL / SECTION CORNER	482+56.59	55.19	USR-41-PR		Slightly Disturbed
104	120593.119960	99735.473820	798.990	PIDT	BM C-28	470+89.06	104.20	HH-REV-N		Disk in Post
105	120103.881750	99632.089460	794.866	PRES	REBAR w/INDOT CAP	466+00.00	-0.05	HH-REV-N	581	
106	119703.877890	99632.850840	794.899	PRES	REBAR w/INDOT CAP	462+00.00	0.00	HH-REV-N	513	
107	118104.128170	99634.307210	793.400	PBMK	TYPE C MON / TBM 19	446+00.25	-0.21	HH-REV-N	512	
108	116535.377160	99761.582810	810.422	PMON	TYPE C MON	430+30.99	120.64	HH-REV-N		At R/W Fence
109	116303.684010	99642.601230	817.270	PBMK	TYPE C MON / TBM 18	427+99.79	0.71	HH-REV-N	554	
110	115301.301750	99648.271420	822.400	PBMK	TYPE C MON / TBM 17	417+97.38	0.52	HH-REV-N	553	
111	113802.321260	99659.136700	801.480	PBMK	TYPE C MON / TBM 16	402+98.36	0.01	HH-REV-N	552	Disturbed
112	111752.261870	99664.518360	783.600	PIDT	BM C-30R	382+54.74	-71.65	HH-REV-N		SW Cor. SB Bridge
113	111784.329020	99741.052430	779.270	PIDT	BM C-24	382+75.17	8.78	HH-REV-N		SW Cor. NB Bridge
114	111268.380530	100830.603160	786.784	PIDT	BM C-44	419+28.27	19.76	SR-18		In Bridge on SR-18 to East
115	111588.345520	97064.589290	768.435	PUSC	BM L-122 RESET	381+34.76	50.08	SR-18		NGS BM West of US-41
116	111283.780510	99693.229660	781.930	PBMK	TYPE C MON / TBM 15	377+79.16	-101.66	HH-REV-N		At R/W Fence
117	111292.649920	99894.805820	781.576	PMON	TYPE C MON	377+73.62	100.03	HH-REV-N		At R/W Fence
118	108516.625970	99837.880170	793.620	PBMK	TYPE C MON / TBM 14	350+04.22	0.58	HH-REV-N	549	
119	106213.357160	99767.039330	812.400	PBMK	TYPE C MON / TBM 13	327+02.06	-100.13	HH-REV-N		At R/W Fence
120	80133.247360	100172.891270	761.506	PMON	TYPE C MON	66+30.15	-102.30	HH-REV-S		At R/W Fence
121	80108.545400	100377.701140	761.411	PMON	TYPE C MON	65+99.67	101.73	HH-REV-S		At R/W Fence

File Name: \\lucy469\road\customers\C32012-09-02\Road\Draw\Plans\Survey\Control\dwg Ref. Date: 10/25/2013 Plotted By: Minz, John



RECOMMENDED FOR APPROVAL: *Jeremy Richardson* 10-25-13
DESIGN ENGINEER DATE

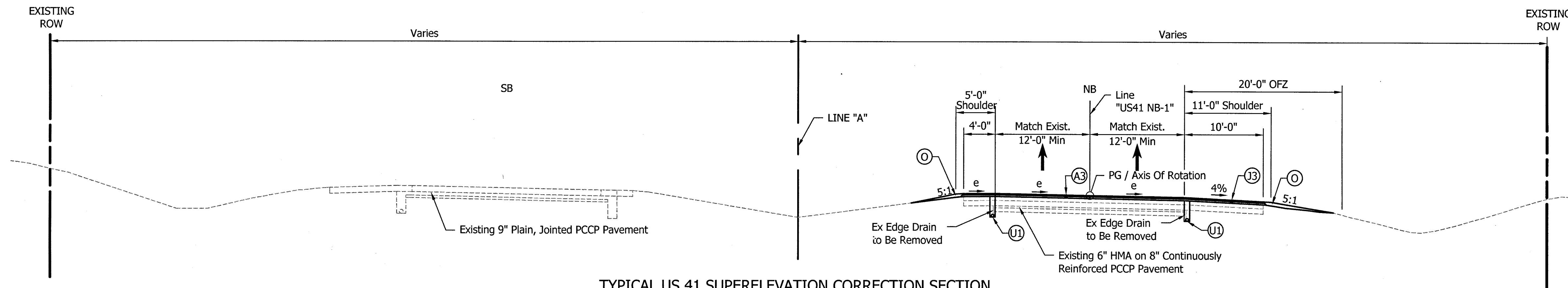
DESIGNED: HEK DRAWN: JNII

CHECKED: WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

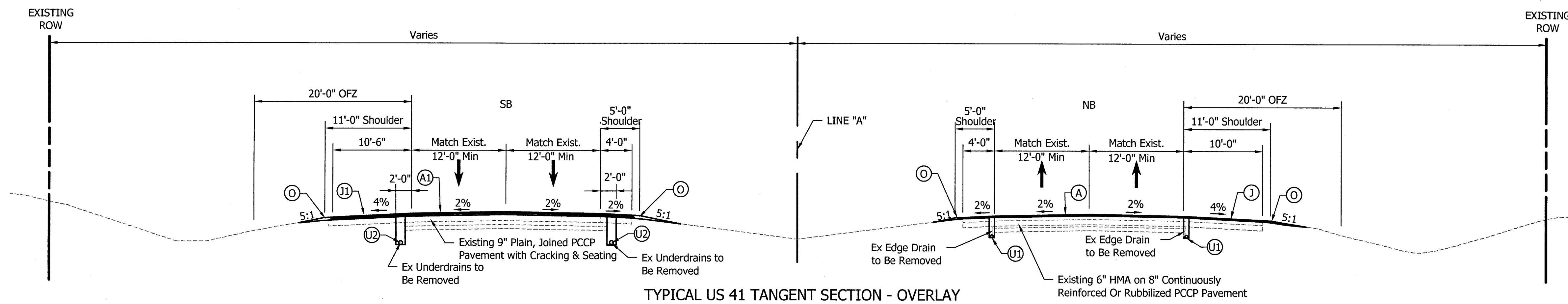
CONTROL POINTS &
REFERENCE TIES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
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TYPICAL US 41 SUPERELEVATION CORRECTION SECTION

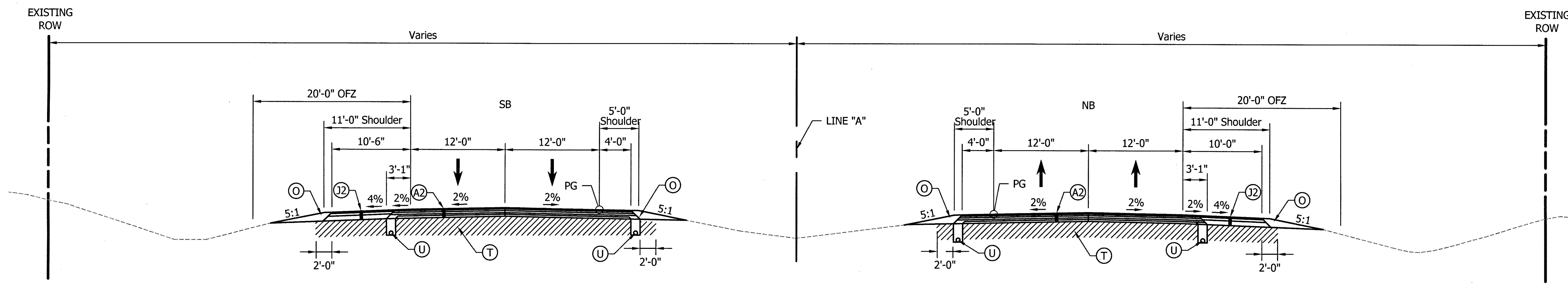
US 41 NB OVERLAY
Sta. 1096+53.78 to 50+07.00 "A"



TYPICAL US 41 TANGENT SECTION - OVERLAY

US 41 SB OVERLAY
Sta. 50+25.00 to 195+30.00 "A"
Sta. 197+00.00 to 373+23.29 "A"
Sta. 391+67.96 to 429+70.00 "A"
Sta. 431+25.00 to 466+56.00 "A"

US 41 NB OVERLAY
Sta. 50+07.00 to 195+30.00 "A"
Sta. 197+00.00 to 372+74.72 "A"
Sta. 391+01.75 to 466+56.00 "A"



TYPICAL US 41 TANGENT SECTION - FULL RECONSTRUCTION

US 41 SB FULL RECONSTRUCTION
Sta. 195+30.00 to 197+00.00 "A"
Sta. 429+70.00 to 431+25.00 "A"
Sta. 506+82.80 to 507+72.79 "A"

US 41 NB FULL RECONSTRUCTION
Sta. 195+30.00 to 197+00.00 "A"
Sta. 429+70.00 to 431+25.00 "A"
Sta. 506+20.81 to 507+10.72 "A"

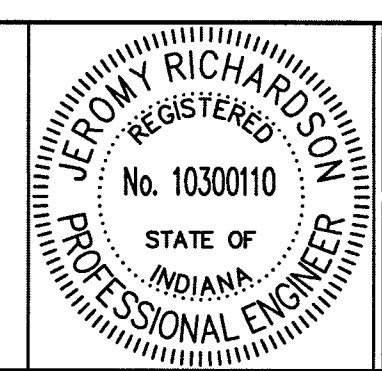
LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (O) Compacted Aggregate, No. 53
- (T) Subgrade Treatment, Type IC
- (U) Underdrain, 6 In., See Detail
- (U1) Underdrain, Retrofit, 4 In., See Detail
- (U2) Underdrain, Retrofit, 6 In., See Detail

GENERAL NOTES

1. All typical section stations are based on Line "A". Please see plan sheets and profile sheets for location and information on additional alignments.
2. Retrofit underdrains shall be installed prior to Cracking and Seating operation.

File Name: \\uss04s\road\roadbeam3\CD012-04-02\Road\Draw\Plan\Typical Cross Sections.dwg Plot Date: 10/25/2013 Plotted By: Nimz, John



RECOMMENDED FOR APPROVAL
Jeromy Richardson 10-25-13
DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

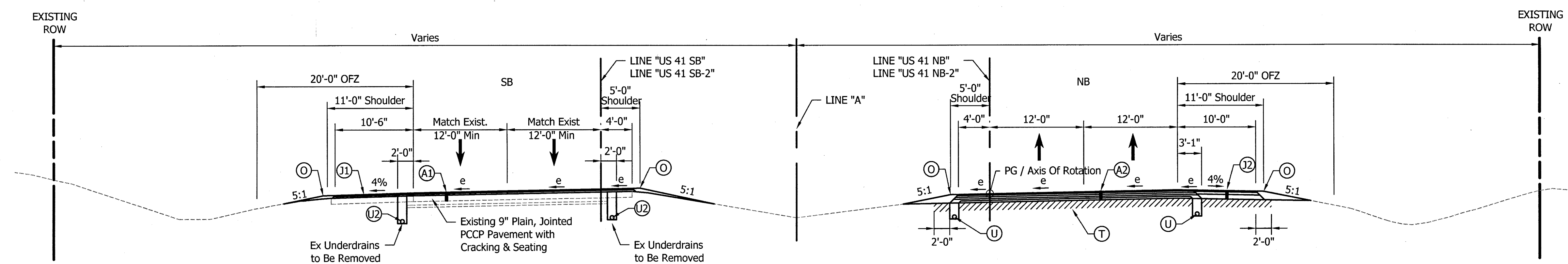
HORIZONTAL SCALE	BRIDGE FILE
NTS	-
VERTICAL SCALE	DESIGNATION
NTS	0710399
SURVEY BOOK	SHEETS
-	4 of 162
CONTRACT	PROJECT
R-32258	0710399

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
 - 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
 - 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
 - 220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
 - 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
 - 220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
 - 220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
 - 220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
 - 220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (O) Compacted Aggregate, No. 53
- (T) Subgrade Treatment, Type IC
- (U) Underdrain, 6 In., See Detail
- (U1) Underdrain, Retrofit, 4 In., See Detail
- (U2) Underdrain, Retrofit, 6 In., See Detail

GENERAL NOTES

1. All typical section stations are based on Line "A". Please see plan sheets and profile sheets for location and information on additional alignments.
2. Retrofit underdrains shall be installed prior to Cracking and Seating operation.



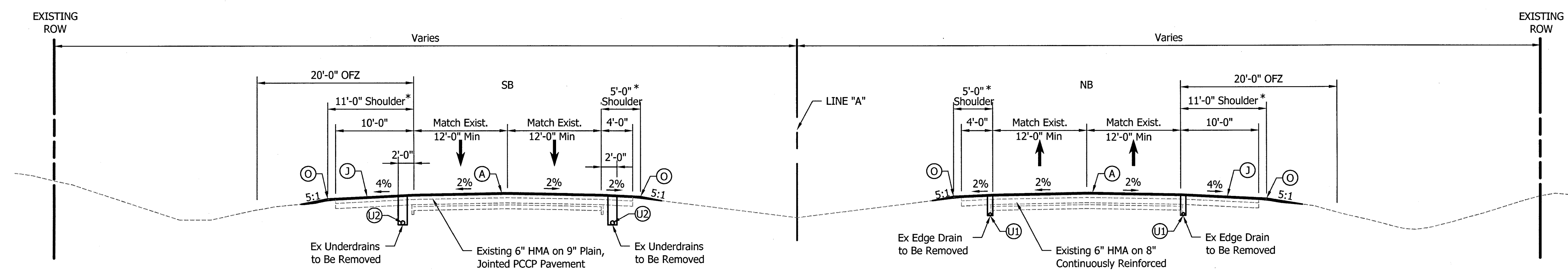
TYPICAL US 41 SUPERELEVATION SECTION (Reverse as Necessary)

OVERLAY DEPICTED
 US 41 SB OVERLAY Sta. 373+23.29 to 379+82.80 "A"
 Sta. 386+54.20 to 391+67.96 "A"
 Sta. 478+45.56 to 491+53.49 "A"

US 41 SB FULL RECONSTRUCTION
 Sta. 379+82.80 to 382+53.29 "A"
 Sta. 383+85.64 to 386+54.20 "A"

FULL DEPTH RECONSTRUCTION DEPICTED
 US 41 NB OVERLAY Sta. 372+74.72 to 381+62.20 "A"
 Sta. 384+74.10 to 391+01.75 "A"
 Sta. 478+33.54 to 491+32.16 "A"

US 41 NB FULL RECONSTRUCTION
 Sta. 381+62.20 to 382+55.12 "A"
 Sta. 383+87.09 to 384+74.10 "A"



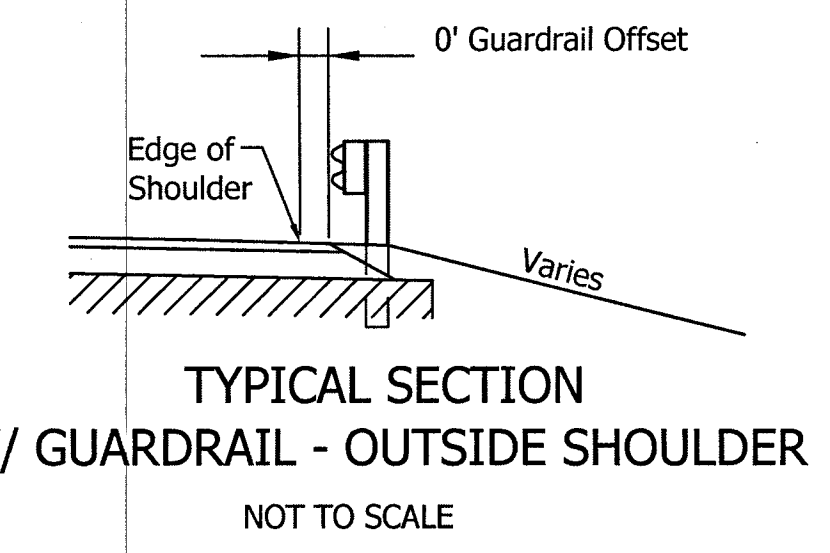
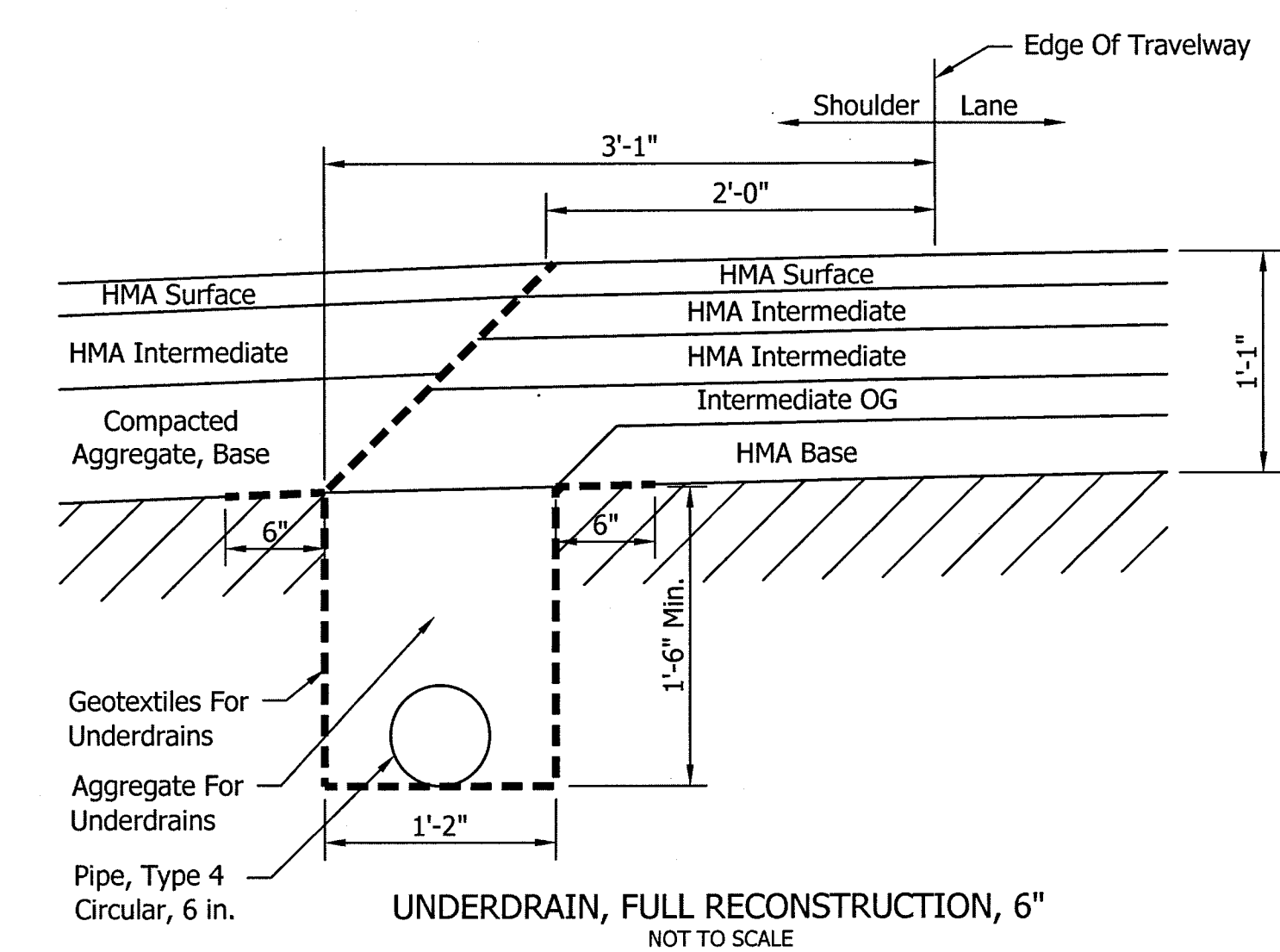
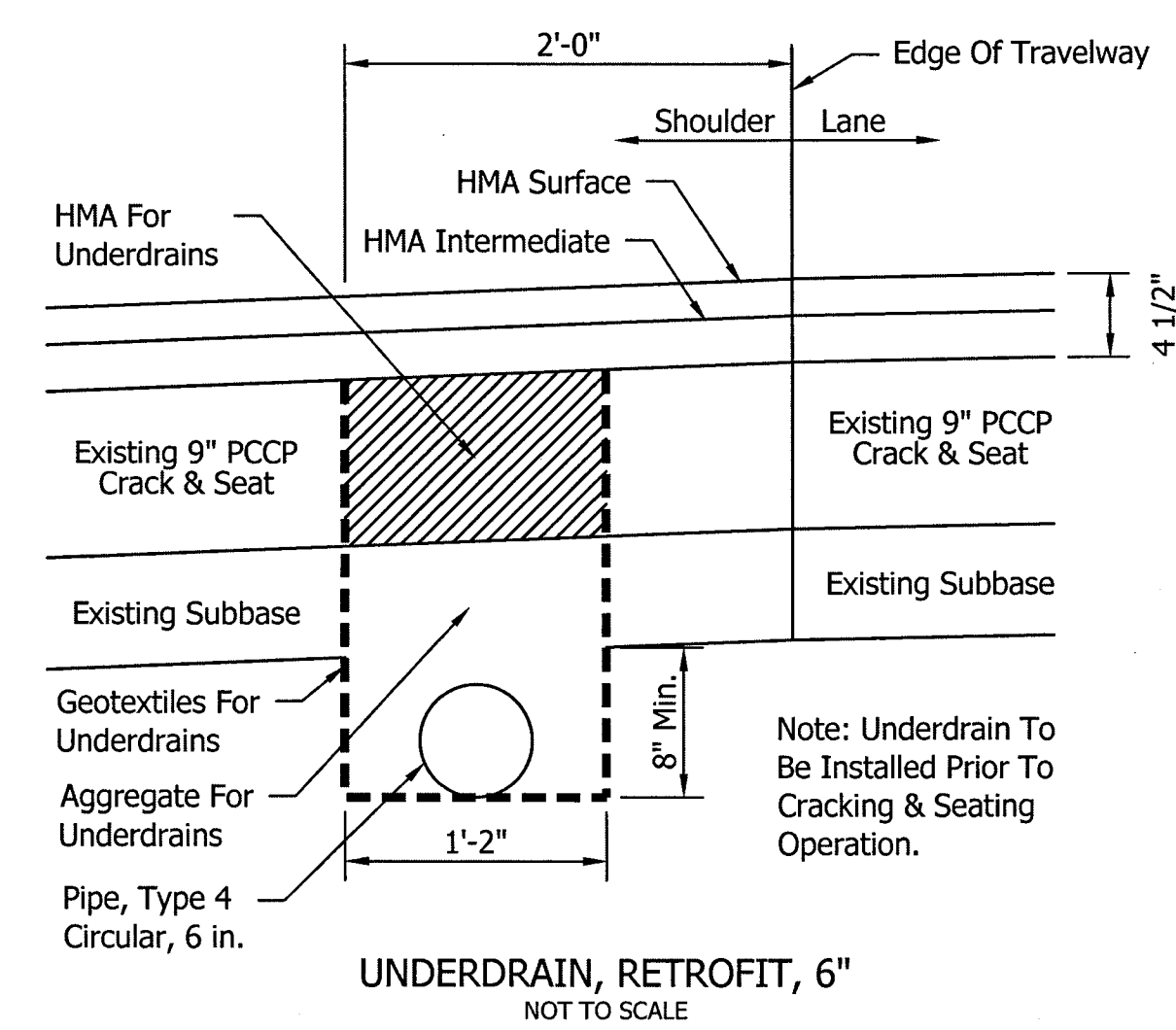
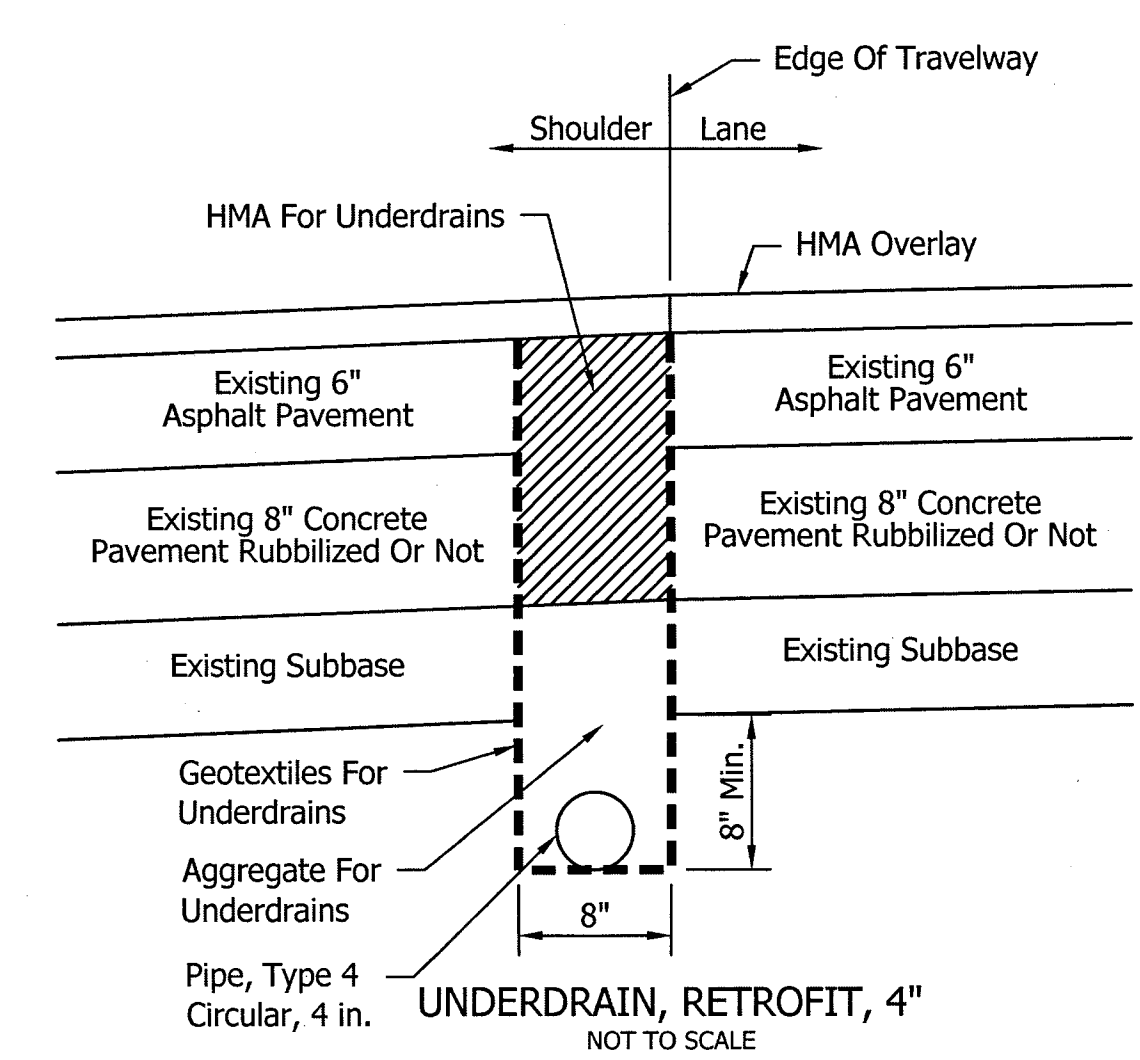
TYPICAL US 41 TANGENT SECTION - OVERLAY

US 41 SB OVERLAY
 Sta. 466+56.00 to 478+45.56 "A"
 Sta. 491+53.49 to 506+82.80 "A"

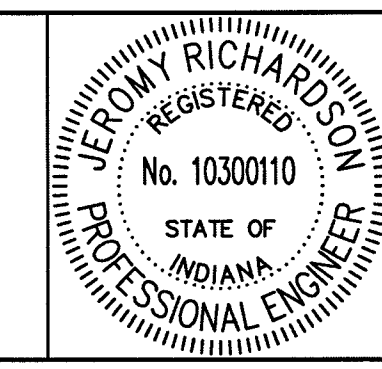
* Continue (J) From Sta. 507+72.79 to Sta. 507+94.86 "A"

US 41 NB OVERLAY
 Sta. 466+56.00 to 478+33.54 "A"
 Sta. 491+32.16 to 506+20.81 "A"

* Continue (J) From Sta. 507+10.72 to Sta. 507+37.79 "A"



File Name: P:\CDD\12-464-02\Road\Drawings\Typical Cross Sections.dwg Plot Date: 11/17/2013 Plotted By: Stacks, Jack



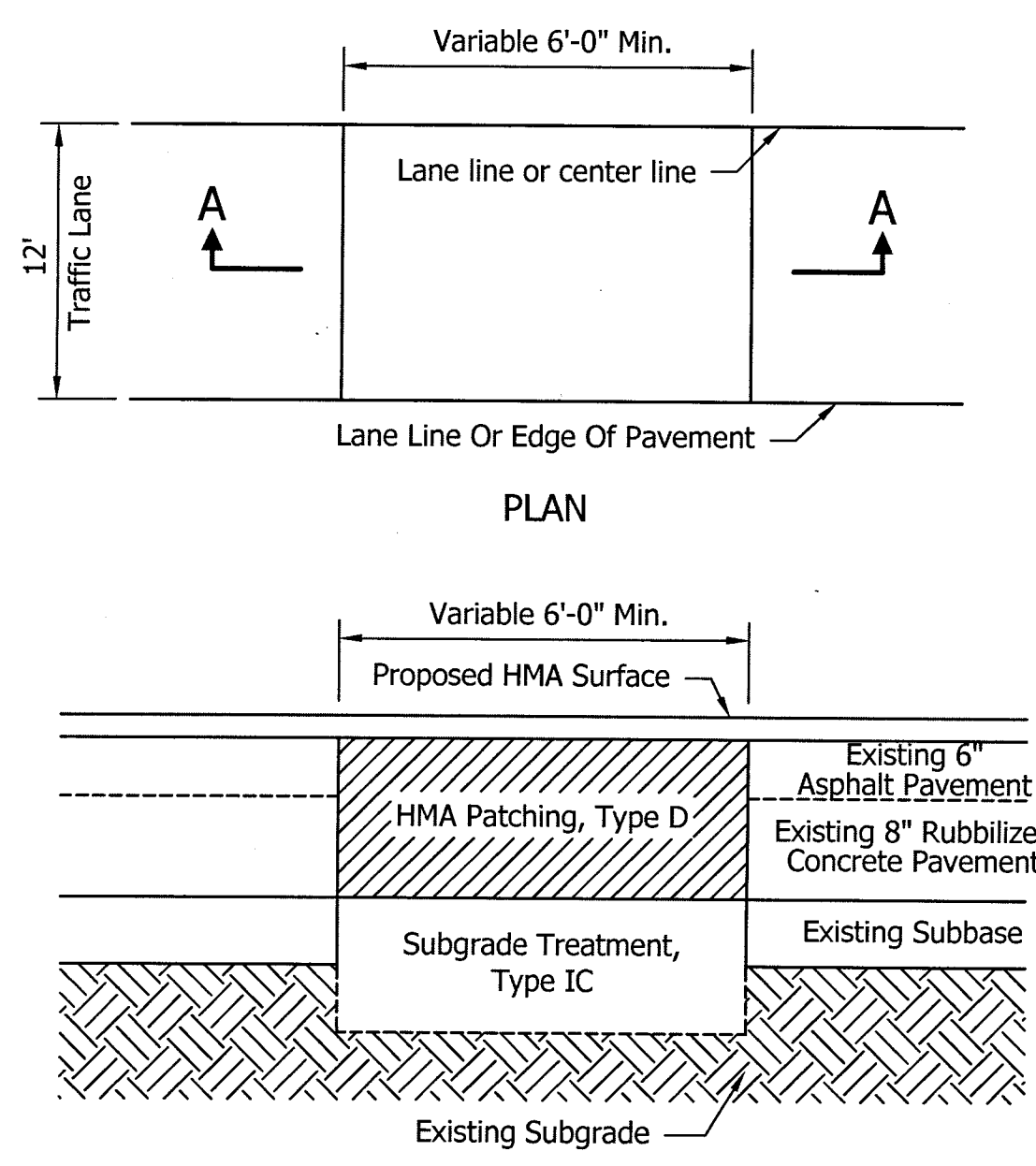
RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 11-1-13
 DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

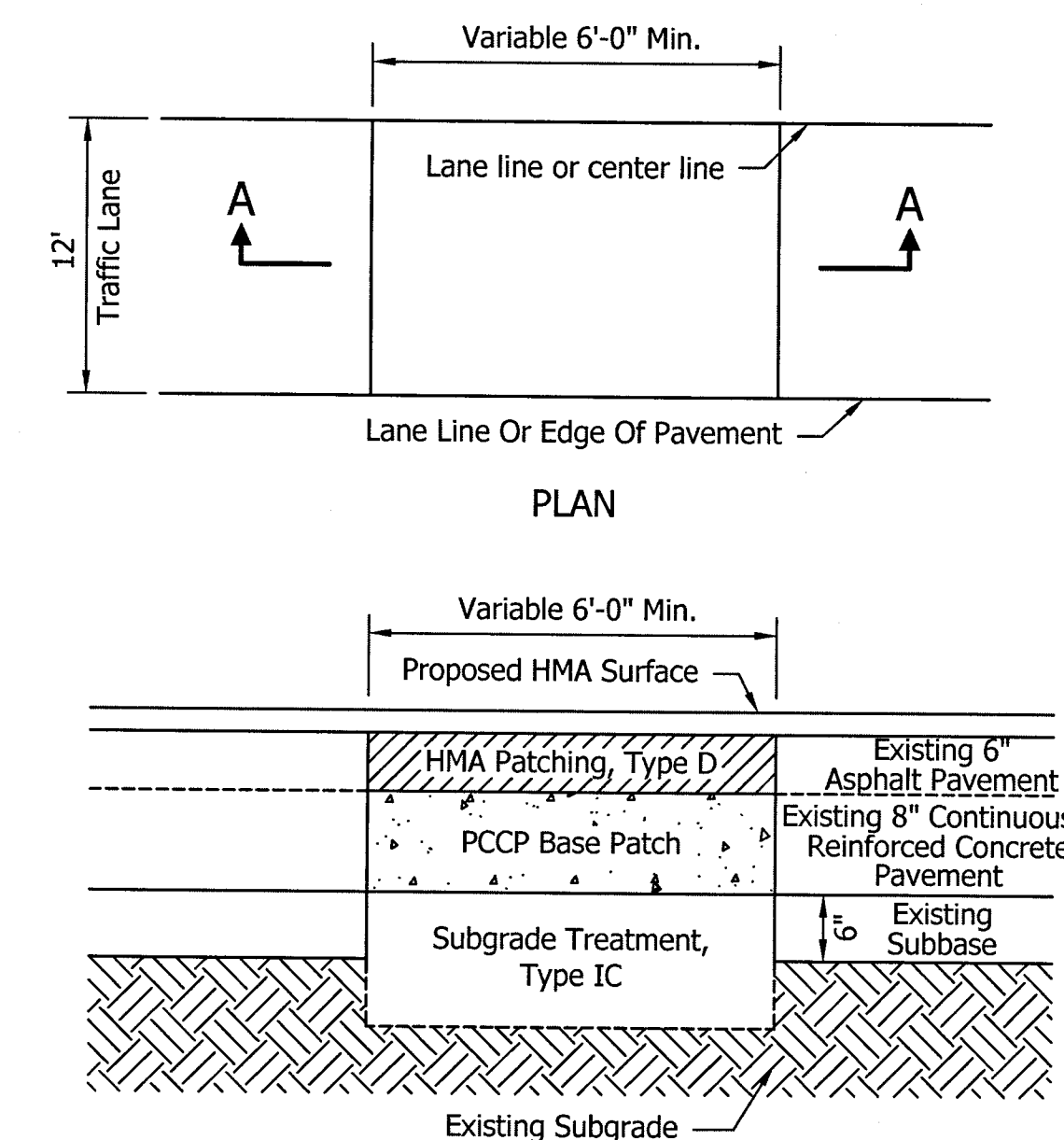
HORIZONTAL SCALE	BRIDGE FILE
NTS	
VERTICAL SCALE	DESIGNATION
NTS	0710399
SURVEY BOOK	SHEETS
	5 of 162
CONTRACT	PROJECT
R-32258	0710399



SECTION A-A
FULL DEPTH HMA PATCH DETAIL
NOT TO SCALE

APPROXIMATE LOCATIONS FOR FULL DEPTH HMA PATCHING AREAS

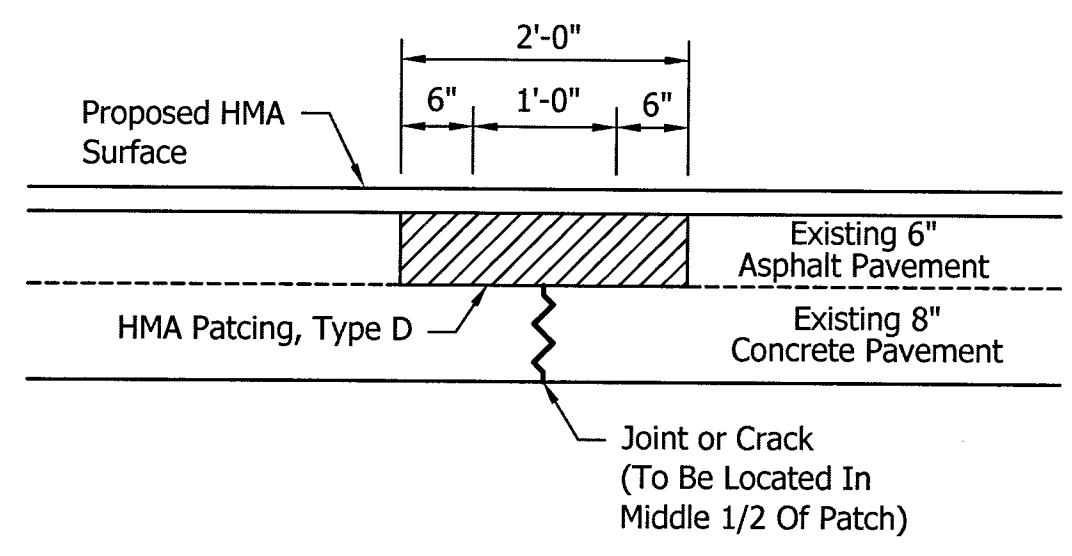
STATION LINE "A"	LENGTH	WIDTH	PATCH AREA (SYS)	QUANTITY (TON)
103+01	12	24	32.0	24.6
155+00	11	24	29.3	22.6
181+56	6	24	16.0	12.3
247+64	35	24	93.3	71.8
274+15	6	24	16.0	12.3
285+11	8	24	21.3	16.4
315+11	6	24	16.0	12.3
326+61	6	24	16.0	12.3
335+41	6	24	16.0	12.3
369+07	52	12	69.3	53.4
370+17	35	12	46.7	36.0
371+84	12	12	16.0	12.3
372+33	33	12	44.0	33.9
373+53	14	12	18.7	14.4
375+59	13	12	17.3	13.3
377+49	6	55	36.7	28.3
393+25	6	24	16.0	12.3
403+49	12	12	16.0	12.3
406+51	14	12	18.7	14.4
408+60	28	12	37.3	28.7
410+89	110	12	146.7	113.0
415+76	31	12	41.3	31.8
435+06	15	12	20.0	15.4
436+78	34	12	45.3	34.9
439+41	10	12	13.3	10.2
445+10	24	12	32.0	24.6
456+34	32	12	42.7	32.9
469+07	12	12	16.0	12.3
Subtotal			949.9	731.3
Undistributed			130.0	100.0
Total			1079.9	831.3
HMA PATCHING, TYPE D (TON)				831.3
SUBGRADE TREATMENT, TYPE IC (SYS)				1079.9



SECTION A-A
FULL DEPTH COMPOSITE PATCH DETAIL
NOT TO SCALE

APPROXIMATE LOCATIONS FOR FULL DEPTH COMPOSITE PATCHING AREAS

STATION LINE "A"	LENGTH	WIDTH	PATCH AREA (SYS)	QUANTITY (TON)
50+78	20	24	53.3	17.6
61+39	22	24	58.7	19.4
64+85	22	24	58.7	19.4
73+90	12	24	32.0	10.6
78+55	26	24	69.3	22.9
83+40	27	24	72.0	23.8
90+86	6	24	16.0	5.3
92+29	10	24	26.7	8.8
93+82	6	24	16.0	5.3
96+16	6	24	16.0	5.3
97+20	6	24	16.0	5.3
98+49	10	24	26.7	8.8
158+37	10	24	26.7	8.8
162+34	10	24	26.7	8.8
165+80	10	24	26.7	8.8
167+47	6	24	16.0	5.3
170+51	8	24	21.3	7.0
170+66	6	24	16.0	5.3
172+30	6	24	16.0	5.3
173+05	6	24	16.0	5.3
174+41	6	24	16.0	5.3
176+20	8	24	21.3	7.0
178+24	6	24	16.0	5.3
178+42	6	24	16.0	5.3
301+95	10	24	26.7	8.8
303+03	6	24	16.0	5.3
308+69	6	24	16.0	5.3
312+36	8	24	21.3	7.0
378+74	30	12	40.0	13.2
472+83	41	12	54.7	18.1
477+47	42	12	56.0	18.5
499+09	28	12	37.3	12.3
Subtotal			964.1	318.5
Undistributed			333.0	110.0
Total			1297.1	428.5
HMA PATCHING, TYPE D (TON)				428.5
PCCP BASE PATCHING, 9 IN (SYS)				1297.1
D-1 CONTRACTION JOINT (LFT)				528
SUBGRADE TREATMENT, TYPE IC (SYS)				1297.1



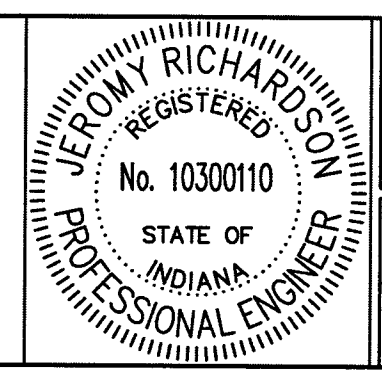
PARTIAL DEPTH PATCHING DETAIL
NOT TO SCALE

LOCATIONS FOR PARTIAL DEPTH PATCHING AREAS

STATION LINE "A"	LENGTH	WIDTH	PATCH AREA (SYS)	QUANTITY (TON)
Undistributed				600
Total				600
HMA PATCHING, TYPE D (TON)				600

ALL PATCHING LOCATIONS SHALL BE APPROVED BY PROJECT ENGINEER

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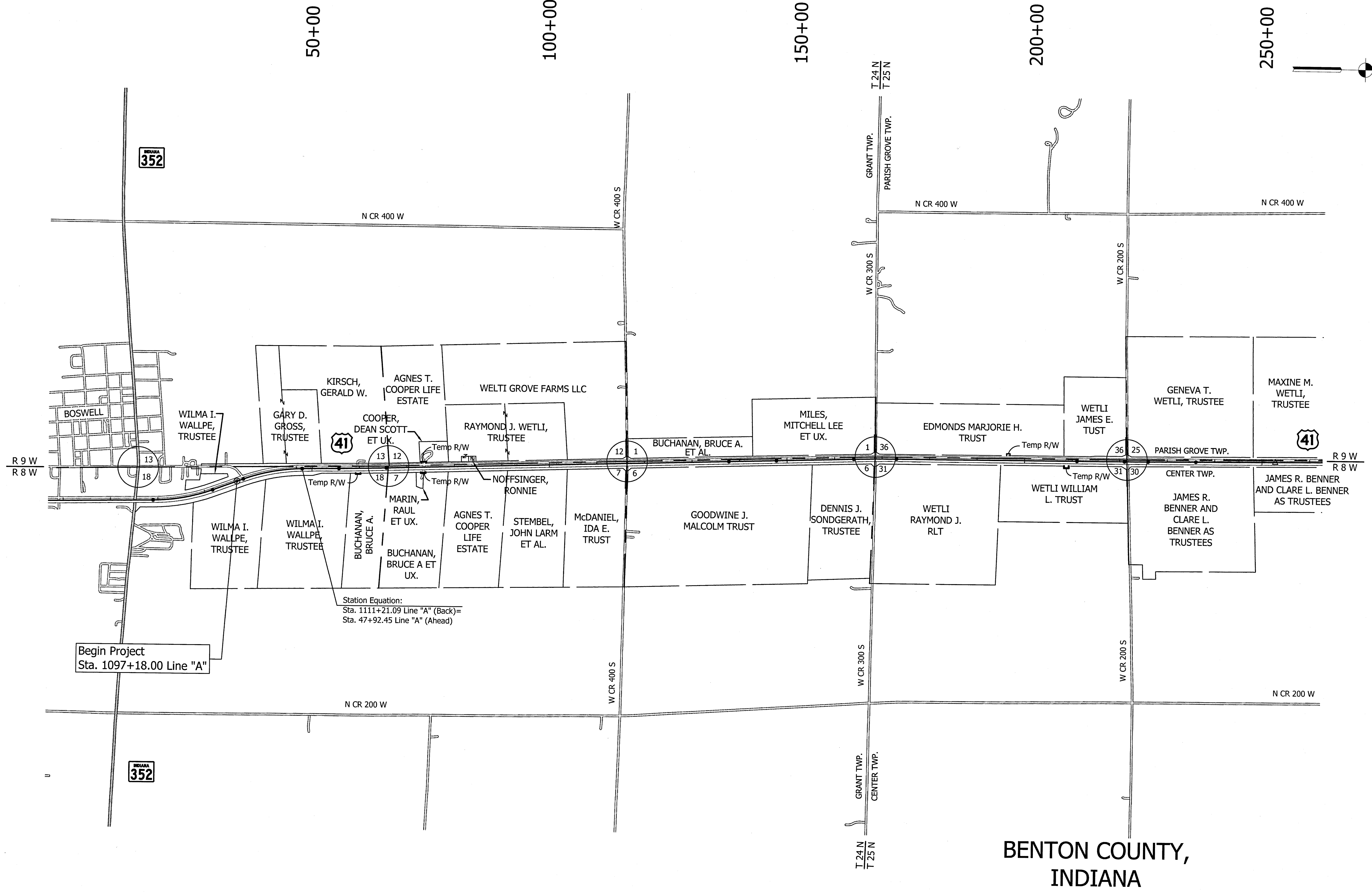
RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 10-25-13
DESIGN ENGINEER DATE

DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
NTS	
VERTICAL SCALE	DESIGNATION
NTS	0710399
SURVEY BOOK	SHEETS
	6 of 162
CONTRACT	PROJECT
R-32258	0710399

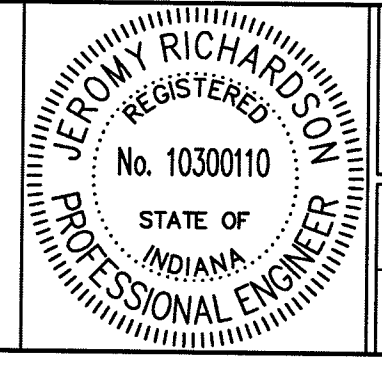


Begin Project
Sta. 1097+18.00 Line "A"

Station Equation:
Sta. 1111+21.09 Line "A" (Back)=
Sta. 47+92.45 Line "A" (Ahead)

**BENTON COUNTY,
INDIANA**

File Name: \\ucsd045\road\roadbeam3\CDD\12-404-02\Road\Draw\Plans\Plate No. 1 US41.dwg Plot Date: 10/25/2013 Plotted By: Nims, John



RECOMMENDED FOR APPROVAL
Jeremy Richardson 10-25-13
DESIGN ENGINEER DATE

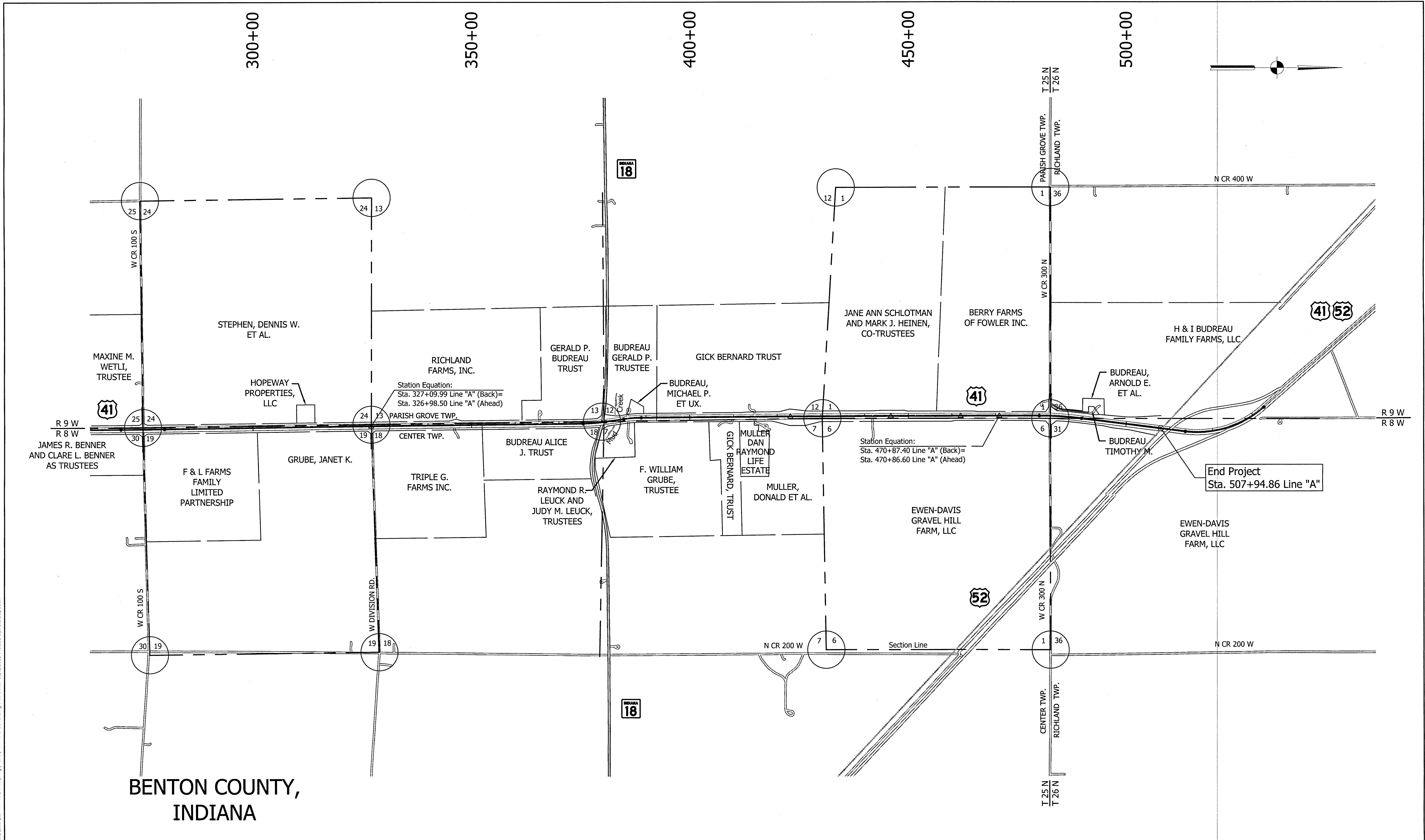
DESIGNED: HEK DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

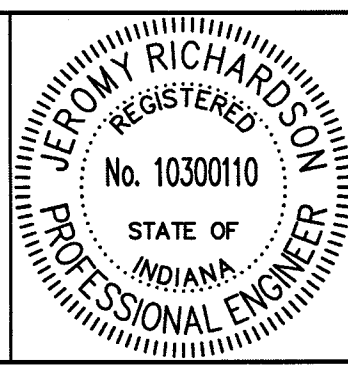
PLAT NO. 1

HORIZONTAL SCALE 1" = 1,000'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 0710399
SURVEY BOOK	SHEETS
CONTRACT R-32258	7 of 162
	PROJECT 0710399

File Name: \\usda04\jason\mcb\beam3\CSD\12-464-02\Road\Draw\Plans\Plat No. 1 USF.dwg Plot Date: 11/17/2013 Plotted By: Shocks, Jack



**BENTON COUNTY,
INDIANA**



RECOMMENDED FOR APPROVAL	<i>Jeremy Richardson</i> 11-1-13 DESIGN ENGINEER DATE
DESIGNED:	HEK DRAWN: JNII
CHECKED:	WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 1,000'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	8 of 162
CONTRACT	PROJECT
R-32258	0710399

CURVE DATA PI = 1085+40.49 "J-REV" Delta = 19°08'00" Lt. D = 1°30'00" R = 3819.72 ft T = 643.77 ft L = 1275.56 ft E = 53.87 ft DS = 60 mph SE = NA	CURVE DATA PI = 1104+96.05 "J-REV" Delta = 18°55'30" Rt. D = 1°30'00" R = 3819.72 ft T = 636.64 ft L = 1261.67 ft E = 52.69 ft DS = 60 mph SE = NA	CURVE DATA PI = 60+69.31 "HH-REV-S" Delta = 0°40'00" Lt. D = 0°04'00" R = 85943.67 ft T = 500.01 ft L = 1000.00 ft E = 1.45 ft DS = 60 mph SE = NC	CURVE DATA PI = 142+76.70 "HH-REV-S" Delta = 0°10'00" Lt. D = 0°01'00" R = 343543.11 ft T = 500.00 ft L = 1000.00 ft E = 0.36 ft DS = 60 mph SE = NC	CURVE DATA PI = 168+53.94 "HH-REV-S" Delta = 1°50'00" Rt. D = 0°12'13" R = 28127.02 ft T = 450.04 ft L = 900.00 ft E = 3.60 ft DS = 60 mph SE = NC	CURVE DATA PI = 215+99.60 "HH-REV-S" Delta = 0°16'00" Lt. D = 0°01'36" R = 214949.73 ft T = 500.00 ft L = 1000.00 ft E = 0.58 ft DS = 60 mph SE = NC	CURVE DATA PI = 230+98.20 "HH-REV-S" Delta = 0°17'00" Lt. D = 0°01'42" R = 202140.25 ft T = 500.00 ft L = 1000.00 ft E = 0.62 ft DS = 60 mph SE = NC	CURVE DATA PI = 274+75.59 "HH-REV-S" Delta = 0°18'30" Lt. D = 0°01'51" R = 185756.47 ft T = 500.00 ft L = 1000.00 ft E = 0.67 ft DS = 60 mph SE = NC	CURVE DATA PI = 378+11.49 "HH-REV-N" Delta = 7°44'30" Lt. D = 1°30'00" R = 3819.72 ft T = 258.45 ft L = 516.11 ft E = 8.73 ft DS = 60 mph SE = NC	CURVE DATA PI = 386+88.79 "HH-REV-N" Delta = 8°03'00" Rt. D = 2°00'00" R = 2864.79 ft T = 201.58 ft L = 402.50 ft E = 7.08 ft DS = 60 mph SE = NC	CURVE DATA PI = 484+86.53 "VSR-41-PR" Delta = 7°15'30" Rt. D = 0°45'00" R = 7639.44 ft T = 484.54 ft L = 1945.33 ft E = 15.35 ft DS = 60 mph SE = NC	CURVE DATA PI = 524+01.63 "VSR-41-PR" Delta = 48°38'00" Lt. D = 2°30'00" R = 2291.83 ft T = 1035.60 ft L = 1945.33 ft E = 223.12 ft DS = 60 mph SE = NC
--	--	--	--	--	--	--	--	---	---	--	---

CURVE DATA
PI = 41+71.84 "US 41 NB-1"
Delta = 18°54'29" Rt.
D = 1°24'55"
R = 4048.56 ft
T = 674.16 ft
L = 1336.06 ft
E = 55.75 ft
DS = 60 mph
SE = 4.0%

CURVE DATA
PI = 378+09.08 "US 41 SB"
Delta = 7°44'20" Lt.
D = 1°28'09"
R = 3900.00 ft
T = 263.79 ft
L = 526.77 ft
E = 8.91 ft
DS = 60 mph
SE = 4.0%

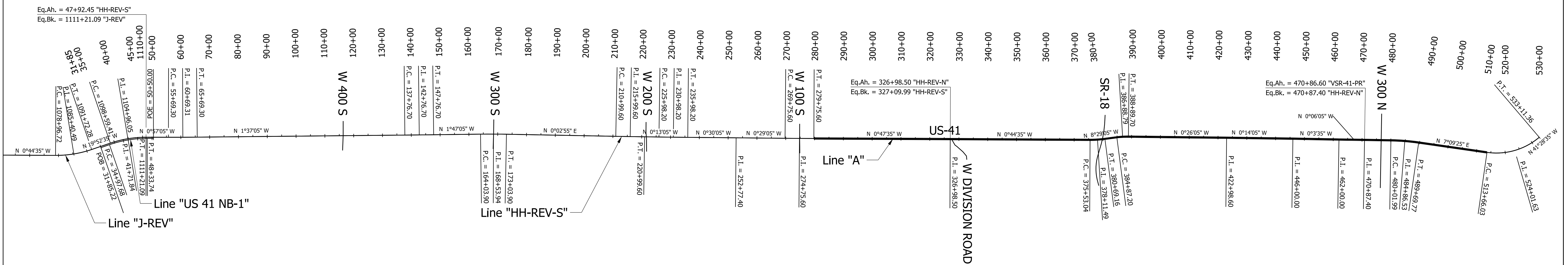
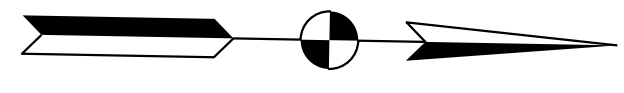
CURVE DATA
PI = 386+95.24 "US 41 SB"
Delta = 8°09'40" Rt.
D = 1°53'50"
R = 3020.00 ft
T = 215.45 ft
L = 430.17 ft
E = 7.68 ft
DS = 60 mph
SE = 5.0%

CURVE DATA
PI = 485+00.16 "US 41 SB"
Delta = 7°13'21" Rt.
D = 0°45'09"
R = 7615.00 ft
T = 480.60 ft
L = 959.93 ft
E = 15.15 ft
DS = 60 mph
SE = 2.4%

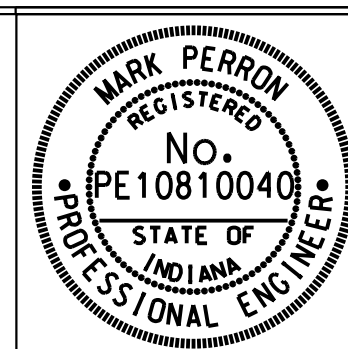
CURVE DATA
PI = 377+64.99 "US 41 NB"
Delta = 7°40'26" Lt.
D = 1°25'57"
R = 4000.00 ft
T = 268.27 ft
L = 535.75 ft
E = 8.99 ft
DS = 60 mph
SE = 4.0%

CURVE DATA
PI = 386+47.15 "US 41 NB"
Delta = 7°55'28" Rt.
D = 2°17'31"
R = 2500.00 ft
T = 173.16 ft
L = 345.76 ft
E = 5.99 ft
DS = 60 mph
SE = 5.0%

CURVE DATA
PI = 484+83.48 "US 41 NB"
Delta = 7°12'51" Rt.
D = 0°45'32"
R = 7550.00 ft
T = 475.94 ft
L = 950.62 ft
E = 14.99 ft
DS = 60 mph
SE = 2.4%



Note: Line "A" is the combination of Line "J-REV", "HH-REV-S", "HH-REV-N", and "VSR-41-PR".
All stations and offsets are from Line "A" unless otherwise noted.

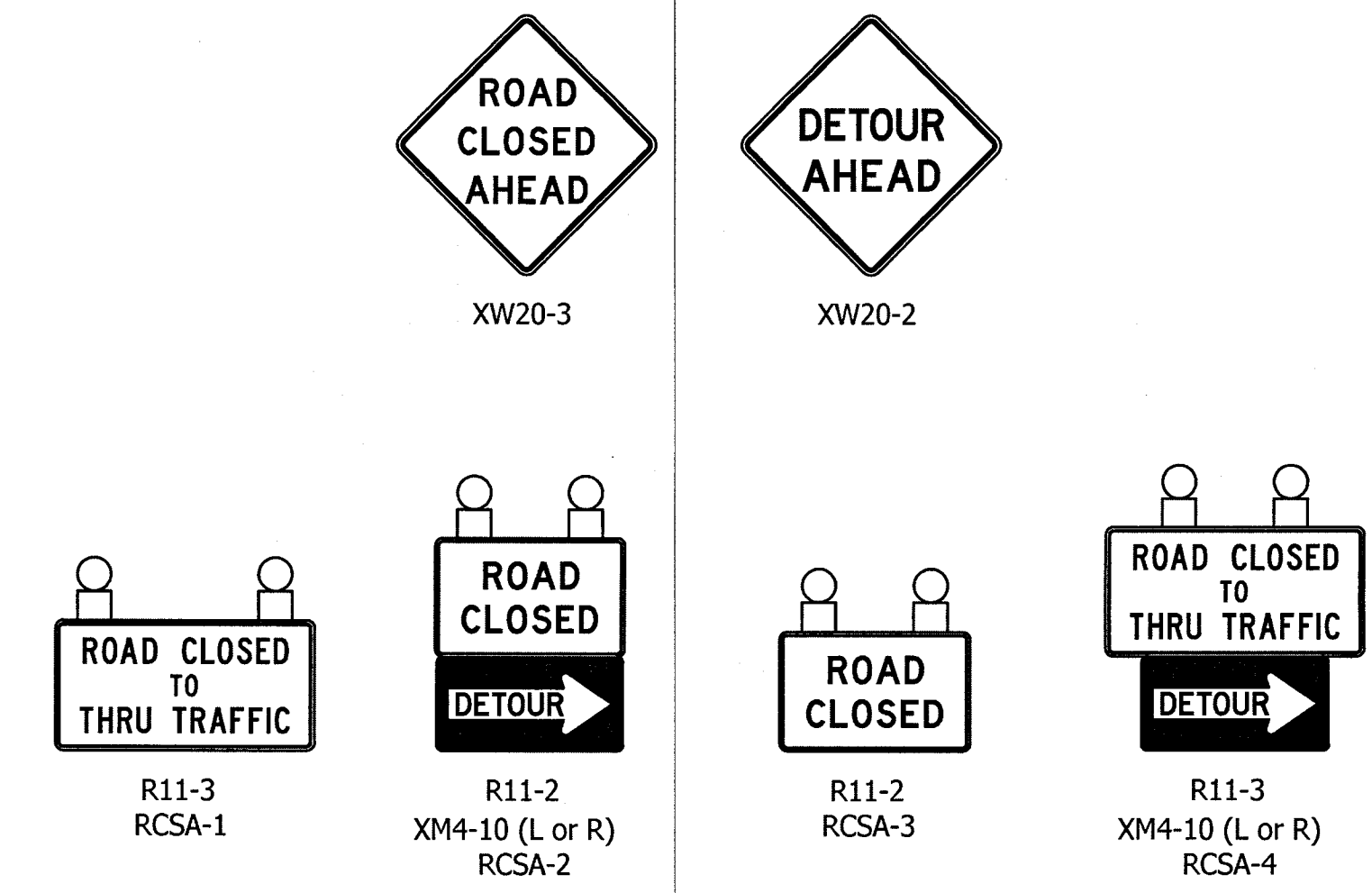
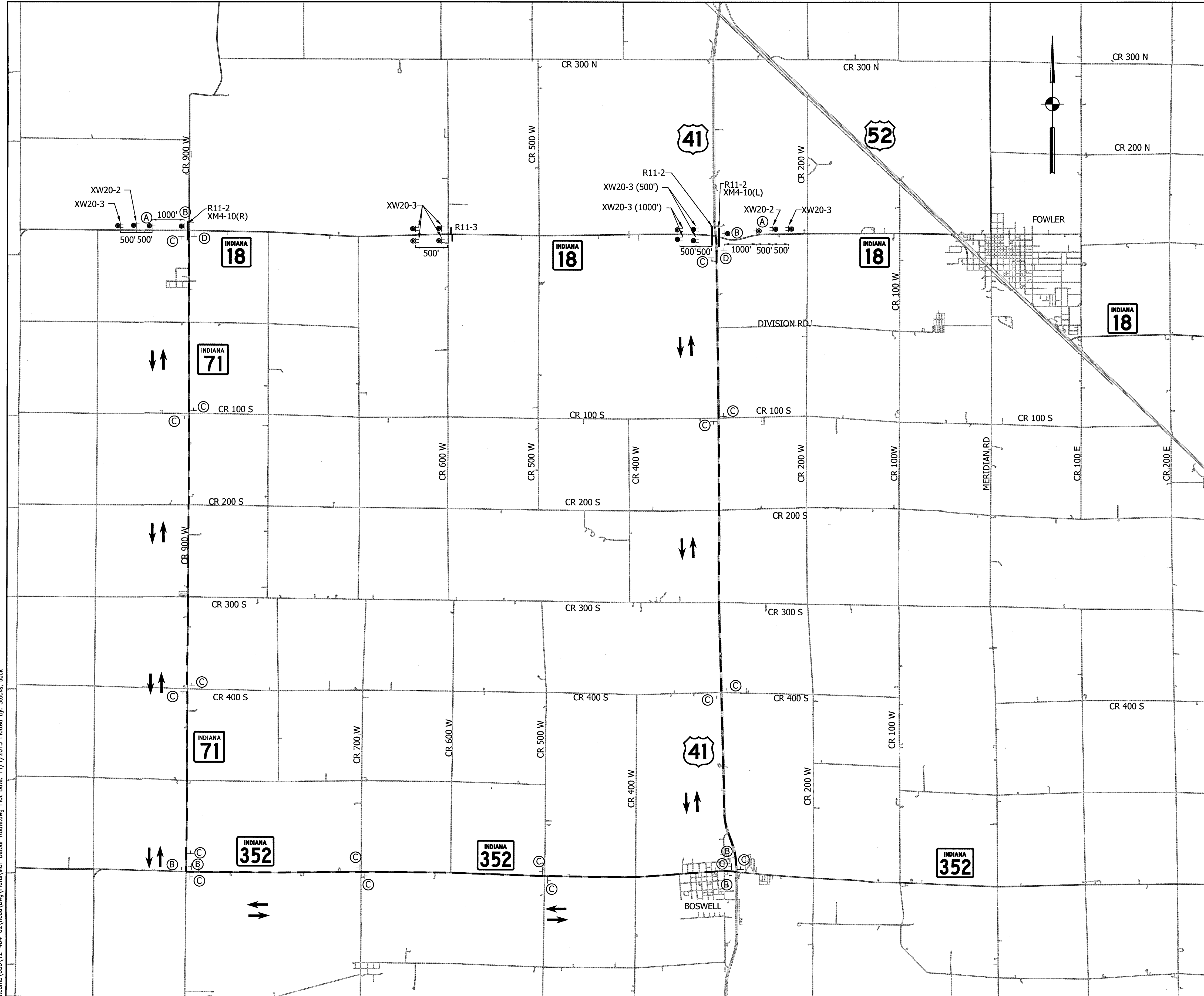


RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION
GEOMETRIC TIE LINE "A"

SCALE 1" = 20000'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 9 of 162
CONTRACT R-32258	PROJECT 0710399

File Name: \\usd468\road\road\road\12-404-02\Road\Draw\Plans\MOI\Detour_Route.dwg Plot Date: 11/1/2013 Plotted By: Stocks, Jack



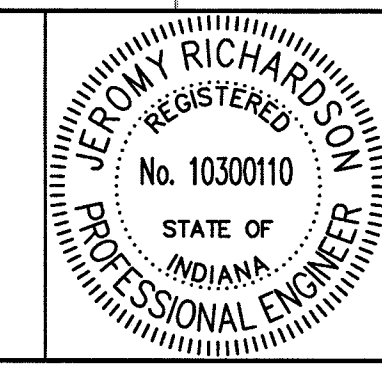
SIGN LEGEND

QUANTITY SUMMARY - STAGE 2		
Detour Route		Units
Detour Route Marker Assembly	28	Each
Construction Sign, A	12	Each
Road Closure Sign Assembly	4	Each
Barricade, Type III-B	144	LFT

LEGEND

- TT Construction Sign, Type A
- ⊗ Construction Warning Light, Type "A"
- T Detour Route Marker Assembly
- Barricade, Type III-B
- Detour Route
- ← Direction of Traffic Flow
- (A) Advance Turn D.R.M.A.
- (B) Directional D.R.M.A.
- (C) Confirming D.R.M.A.
- (D) End D.R.M.A.

NOTES:
For Detour Route Marker Assemblies A, B, C and D, see Standard Drawing E801-TCDT-03.



RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 11-1-13
DESIGN ENGINEER DATE

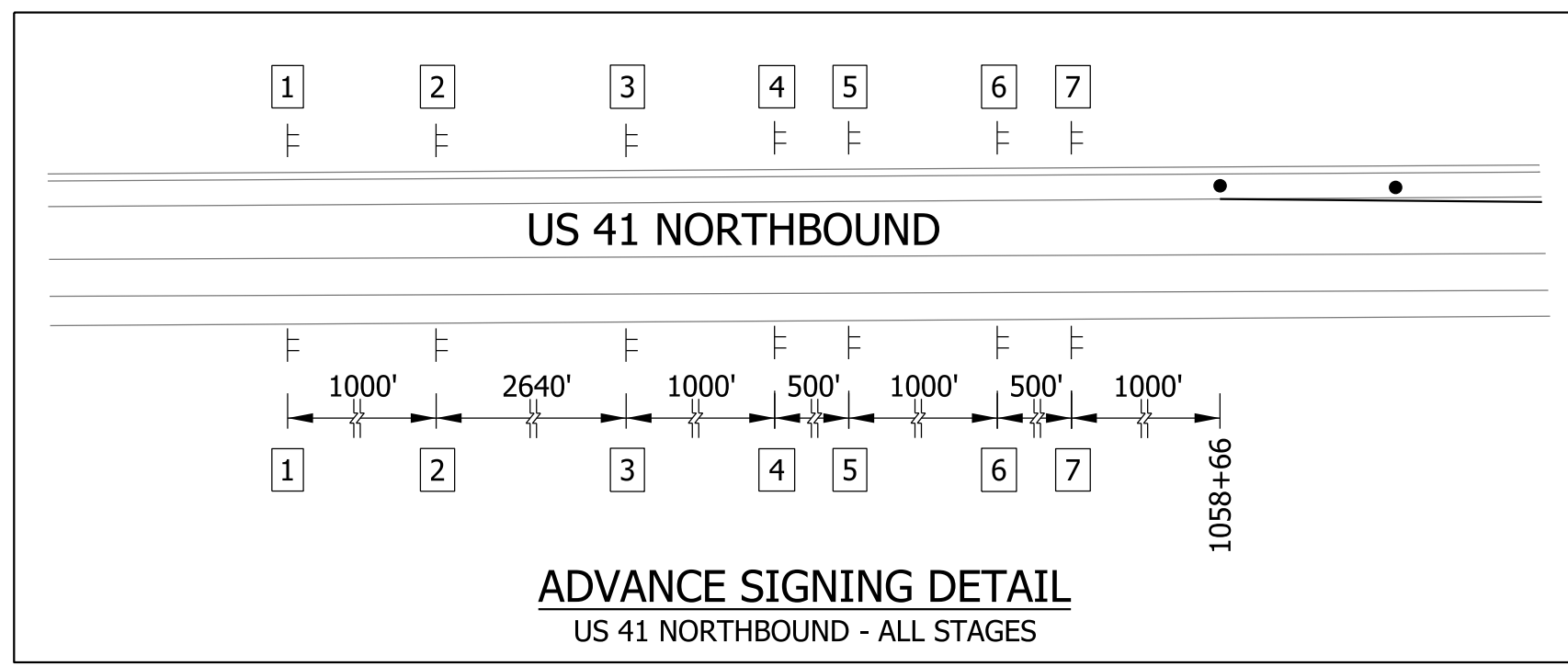
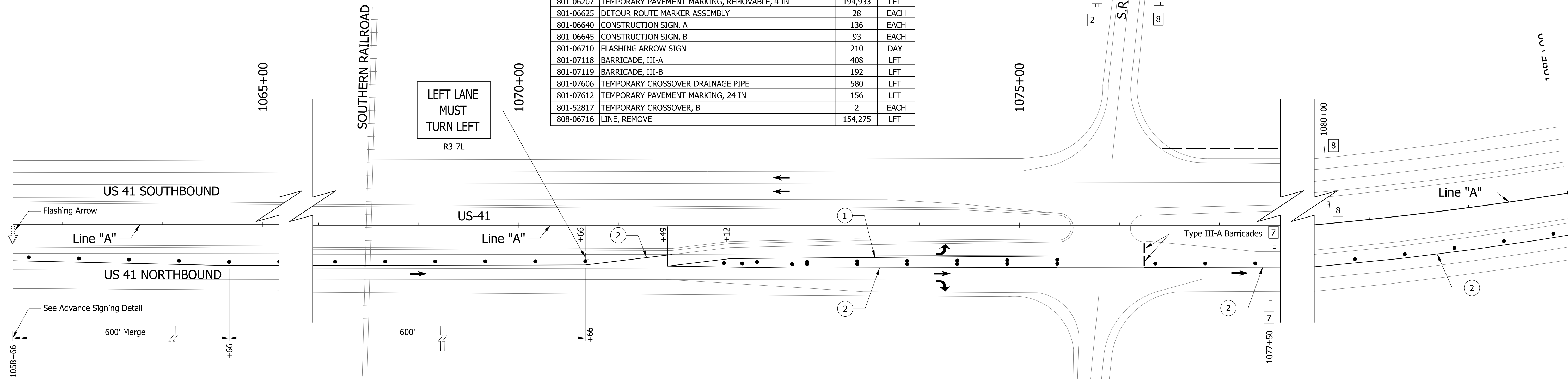
DESIGNED: HEK DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC
DETOUR ROUTE - STAGE 2

SCALE	BRIDGE FILE
1" = 3000'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	10 of 162
CONTRACT	PROJECT
R-32258	0710399

Construction Zone Design Speed = 50 mph

SUMMARY OF QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
207-08267	SUBGRADE TREATMENT, TYPE IIIA	4,750	SYS
301-07448	COMPACTED AGGREGATE, NO. 53, BASE	1,332	TON
303-08210	COMPACTED AGGREGATE, NO. 53, TEMPORARY FOR DRIVEWAYS	356	TON
402-10084	HMA FOR TEMPORARY PAVEMENT, B	1,764	TON
406-05520	ASPHALT FOR TACK COAT	4	TON
601-02206	TEMPORARY GUARDRAIL, W BEAM, 6FT-3IN SPACING	169	LFT
601-97080	TEMPORARY GUARDRAIL END TREATMENT, OS	1	EACH
801-01093	TEMPORARY WORKSITE SPEED LIMIT SIGN ASSEMBLY	6	EACH
801-03290	CONSTRUCTION SIGN, C	8	EACH
801-04308	ROAD CLOSURE SIGN ASSEMBLY	12	EACH
801-06469	TEMPORARY PAVEMENT MARKING, REMOVABLE, 8 IN	2,923	LFT
801-06775	MAINTAINING TRAFFIC	1	LS
801-06203	TEMPORARY PAVEMENT MARKING, 4 IN	140,989	LFT
801-06207	TEMPORARY PAVEMENT MARKING, REMOVABLE, 4 IN	194,933	LFT
801-06625	DETOUR ROUTE MARKER ASSEMBLY	28	EACH
801-06640	CONSTRUCTION SIGN, A	136	EACH
801-06645	CONSTRUCTION SIGN, B	93	EACH
801-06710	FLASHING ARROW SIGN	210	DAY
801-07118	BARRICADE, III-A	408	LFT
801-07119	BARRICADE, III-B	192	LFT
801-07606	TEMPORARY CROSSOVER DRAINAGE PIPE	580	LFT
801-07612	TEMPORARY PAVEMENT MARKING, 24 IN	156	LFT
801-52817	TEMPORARY CROSSOVER, B	2	EACH
808-06716	LINE, REMOVE	154,275	LFT



- Notes:
- Existing pavement markings that conflict with proposed staging shall be removed and replaced following that stage of construction.
 - Channelizing devices shall be spaced in accordance with INDOT Standard Drawing No. E 801-TCLG-01.
 - Existing signs that conflict with the proposed staging shall be covered during construction and uncovered after construction.
 - For temporary crossover information see INDOT Standard Drawing No. E 801-TCCO-01 to E 801-TCCO-07.

- Traffic Flow Arrows
- • Drums
- TT Construction Sign

- ① Temporary Pavement Marking, Removable, Solid, White, 4 in.
- ② Temporary Pavement Marking, Removable, Solid, Yellow, 4 in.



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

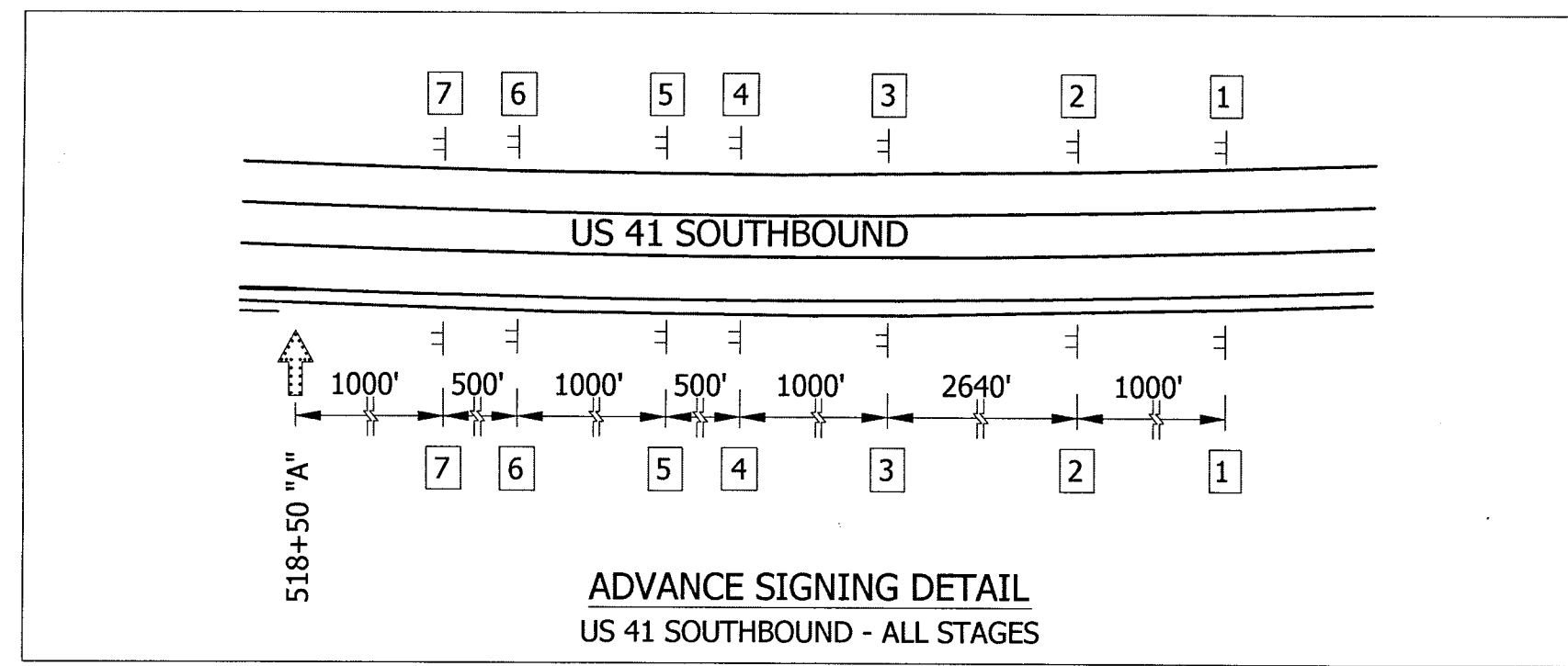
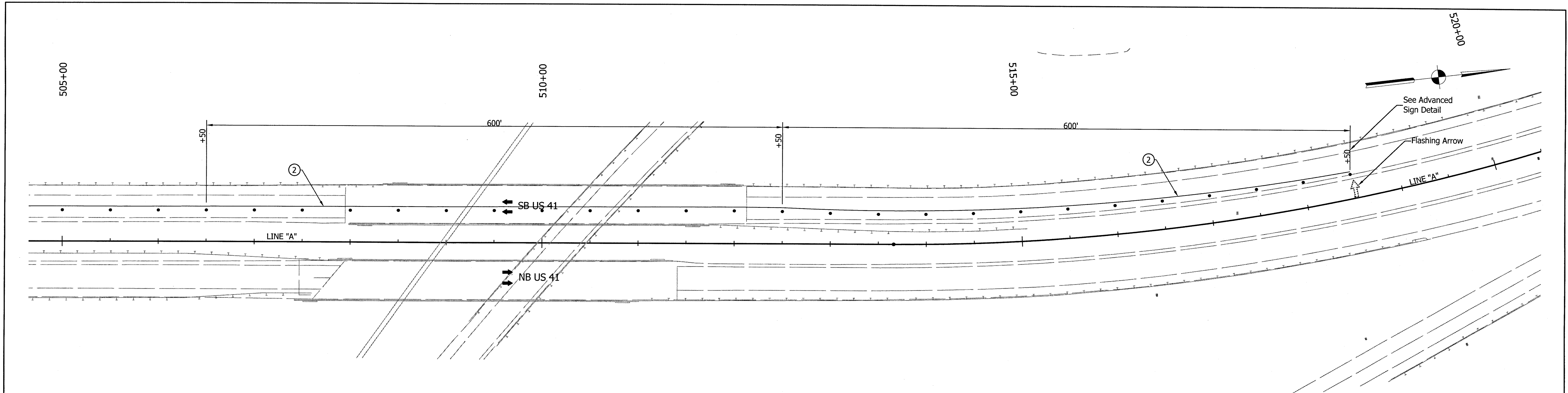
DESIGNED: HKH DRAWN: SJG
CHECKED: DCK CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

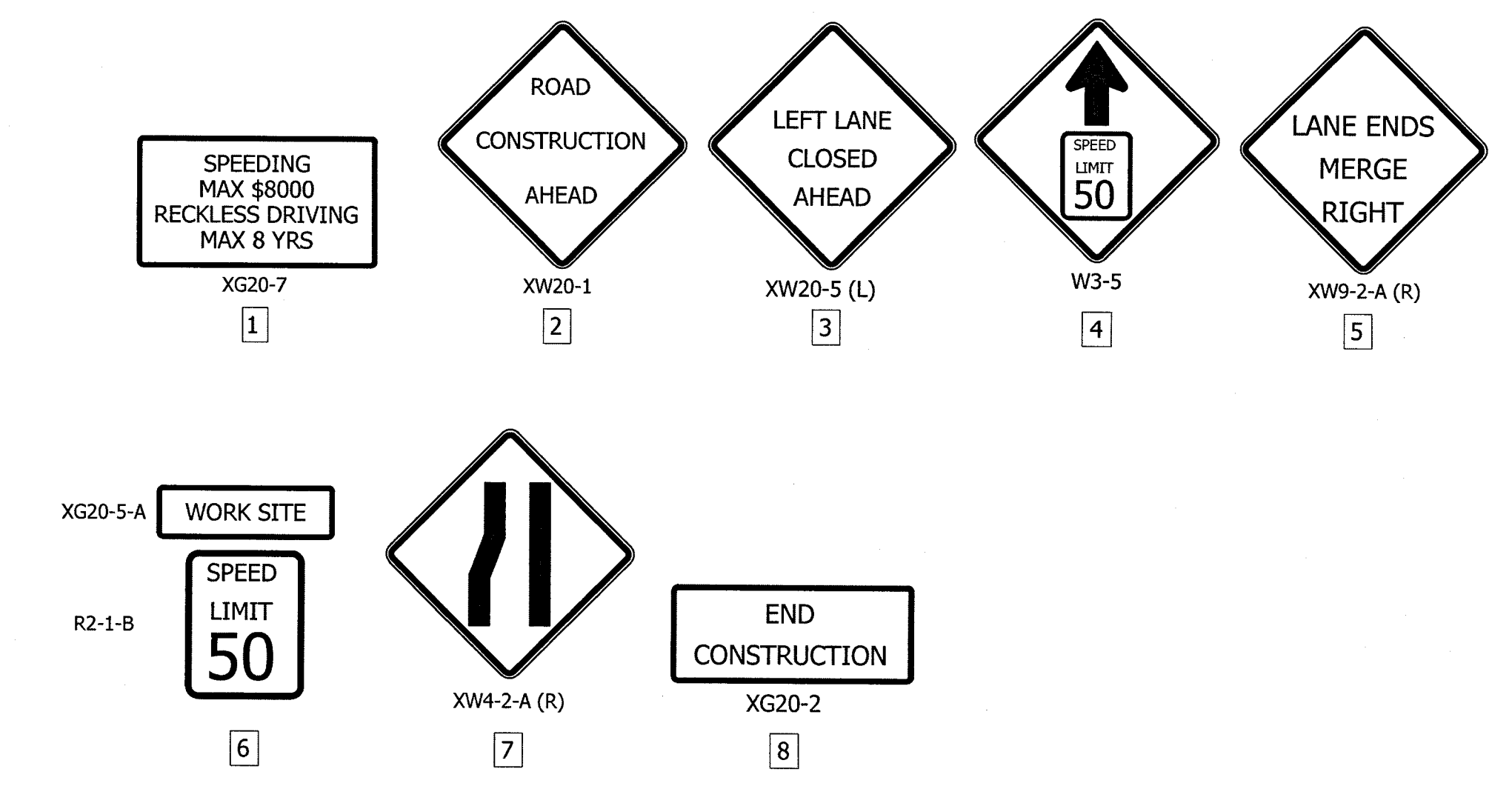
MAINTENANCE OF TRAFFIC
ADVANCED SIGN DETAIL
US 41 NORTHBOUND- ALL STAGES

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 11 of 162
CONTRACT R-32258	PROJECT 0710399

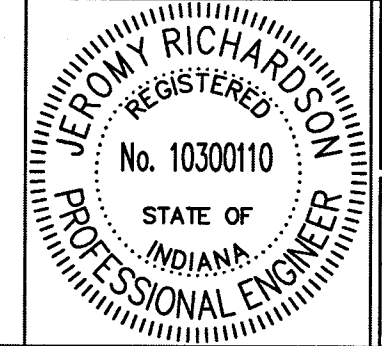
File Name: \\usdot\mfs\road\roadteam3\31012-44-02\road\Drawg\Planes\WOT_US41 - AllStages.dwg Plot Date: 10/25/2013 Plotted By: Nirmz, John



- Notes:**
- Existing Pavement Markings That Conflict With Proposed Pavement Markings Shall Be Removed And Replaced Following That Stage Of Construction.
 - Channelizing Devices Shall Be Spaced In Accordance With INDOT Standard Drawing No. E 801-TCLG-01.
 - Existing Signs That Conflict With Proposed Staging Shall Be Covered During Construction And Uncovered After Construction.
 - For Temporary Crossover Information See INDOT Standard Drawing No. E 801-TCCO-01 To E 801-TCCO-07.



- Traffic Flow Arrow
- Drums
- Construction Signs
- Temporary Pavement Marking, Solid, White, 4 in.
- Temporary Pavement Marking, Solid, Yellow, 4 in.
- Construction Area



RECOMMENDED FOR APPROVAL: *Jeremy Richardson* 10-25-13
DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION

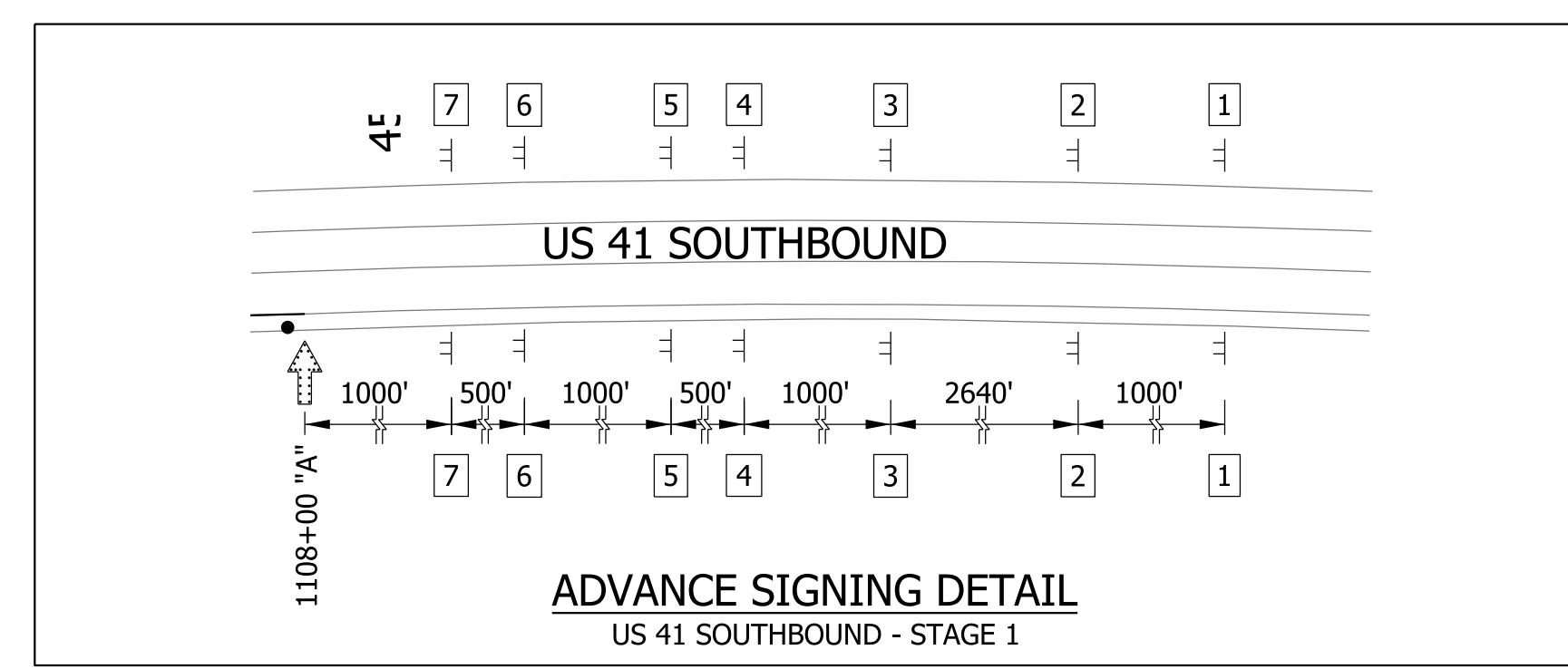
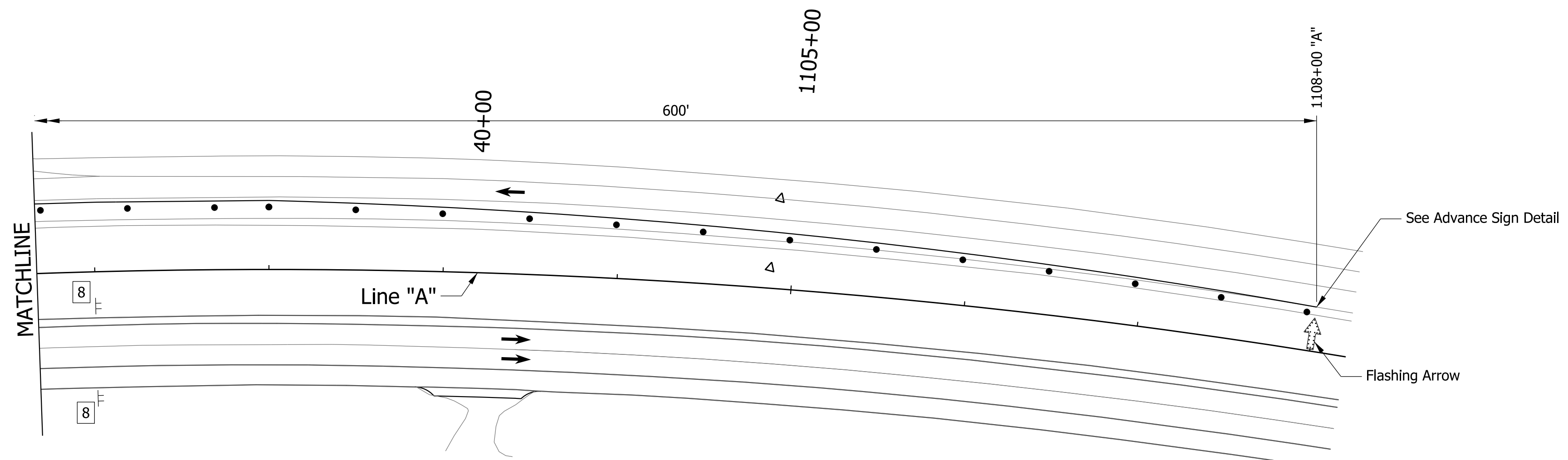
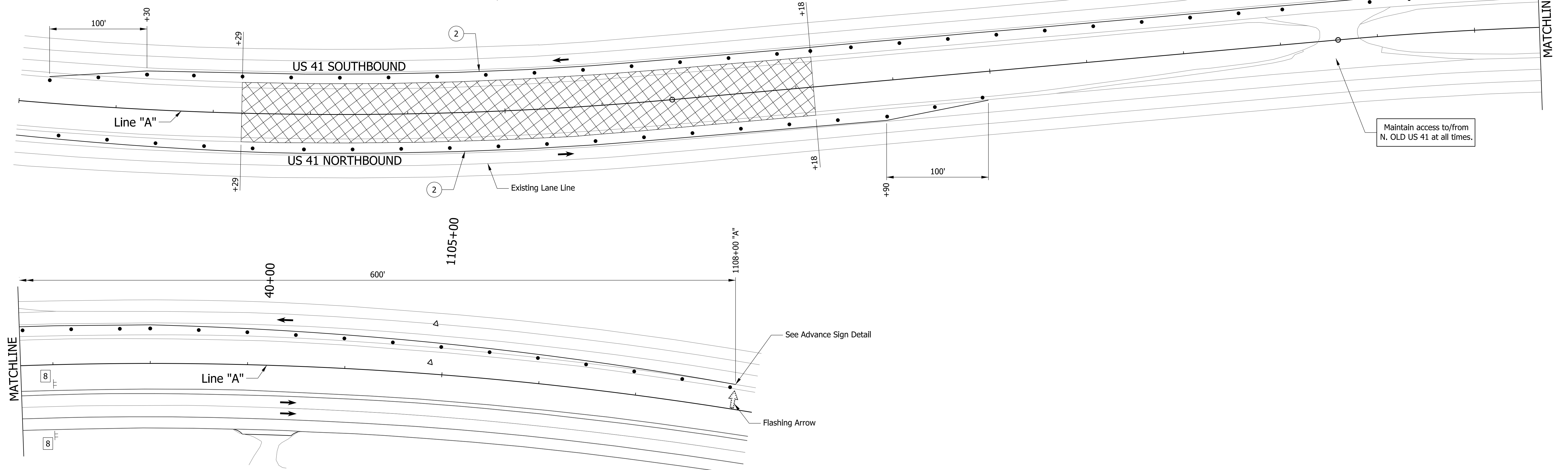
MAINTENANCE OF TRAFFIC
ADVANCED SIGN DETAIL
US 41 SOUTHBOUND - ALL STAGES

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 12 of 162
CONTRACT R-32298	PROJECT 0710399

Stage 1

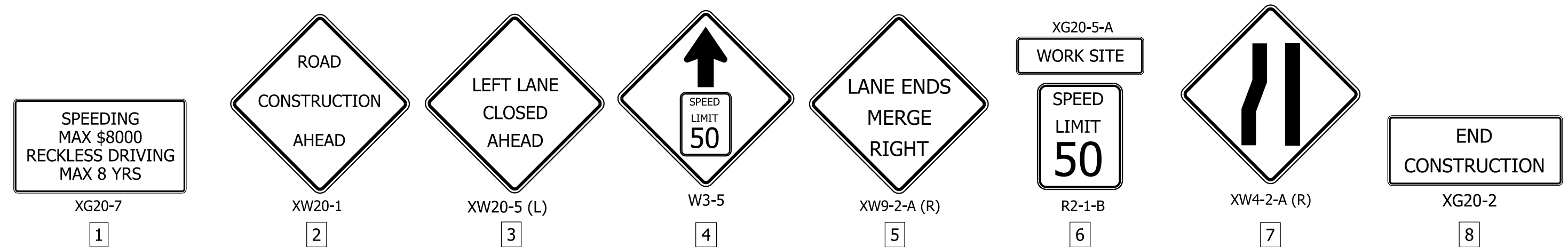
- Close left lane on US 41 Northbound.
- Close left lane on US 41 Southbound.
- Construct temporary crossovers.

Construction Zone Design Speed = 50 mph

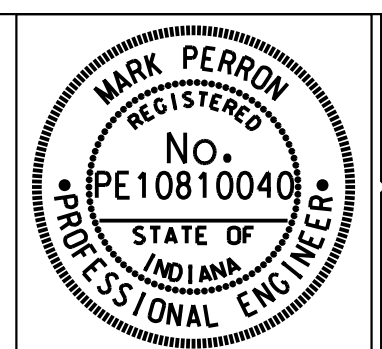


See Sheet 11 for US 41 Northbound Advance Sign Detail.

- Notes:**
- Existing pavement markings that conflict with proposed staging shall be removed and replaced following that stage of construction.
 - Channelizing devices shall be spaced in accordance with INDOT Standard Drawing No. E 801-TCLG-01.
 - Existing signs that conflict with the proposed staging shall be covered during construction and uncovered after construction.
 - For temporary crossover information see INDOT Standard Drawing No. E 801-TCCO-01 to E 801-TCCO-07.



- Traffic Flow Arrows
- Drums
- TT Construction Sign
- ① Temporary Pavement Marking, Removable, Solid, White, 4 in.
- ② Temporary Pavement Marking, Removable, Solid Yellow, 4 in.
- ▨ Construction Area



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: HKH DRAWN: SJC
 CHECKED: DCK CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC STAGE 1

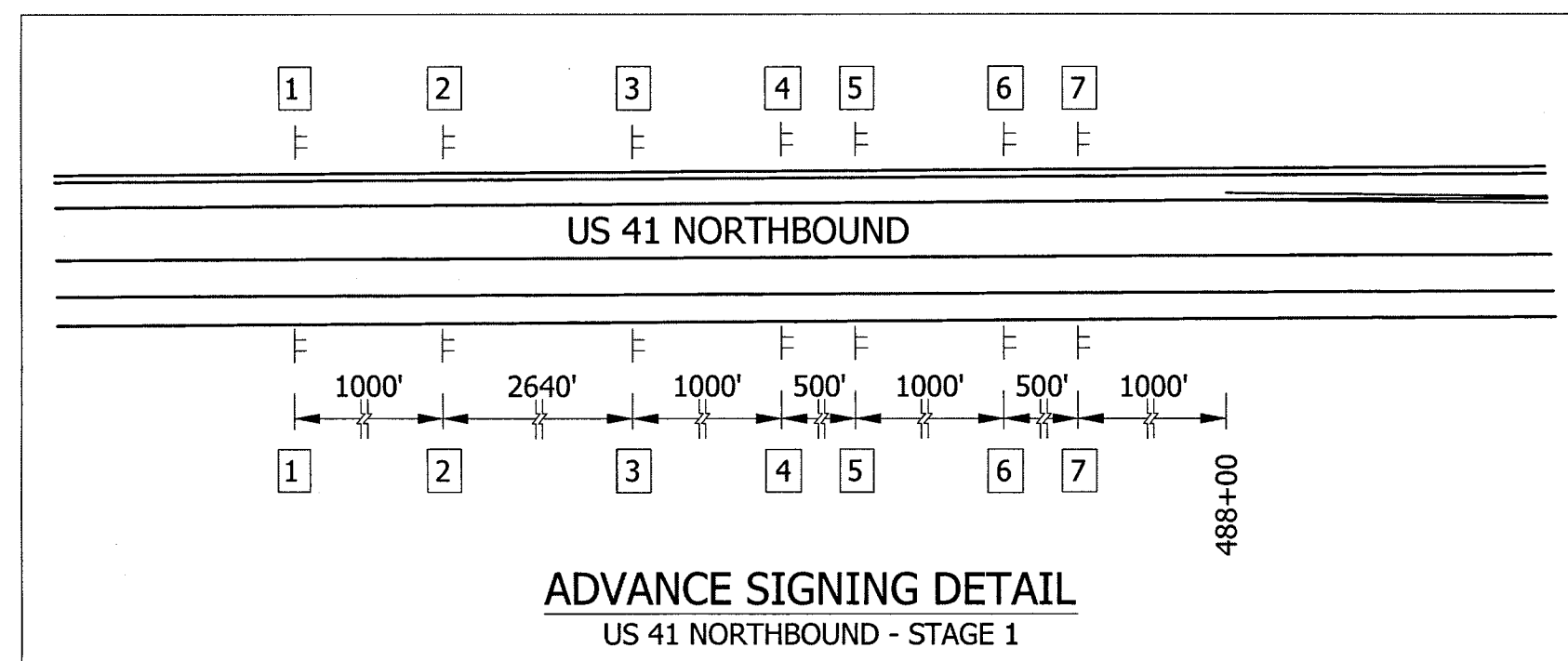
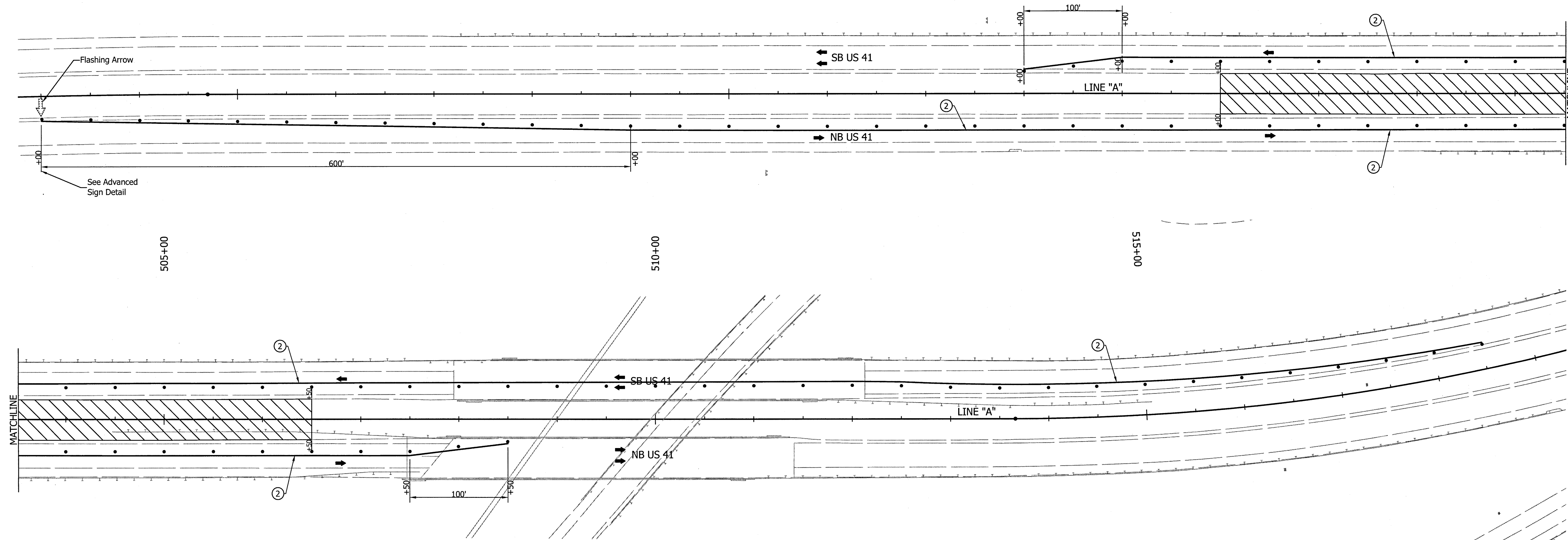
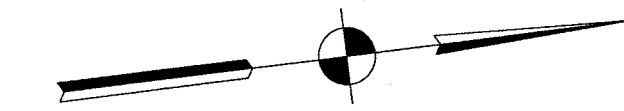
SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 13 of 162
CONTRACT R-32258	PROJECT 0710399

Construction Zone Design Speed = 50 mph

490+00

495+00

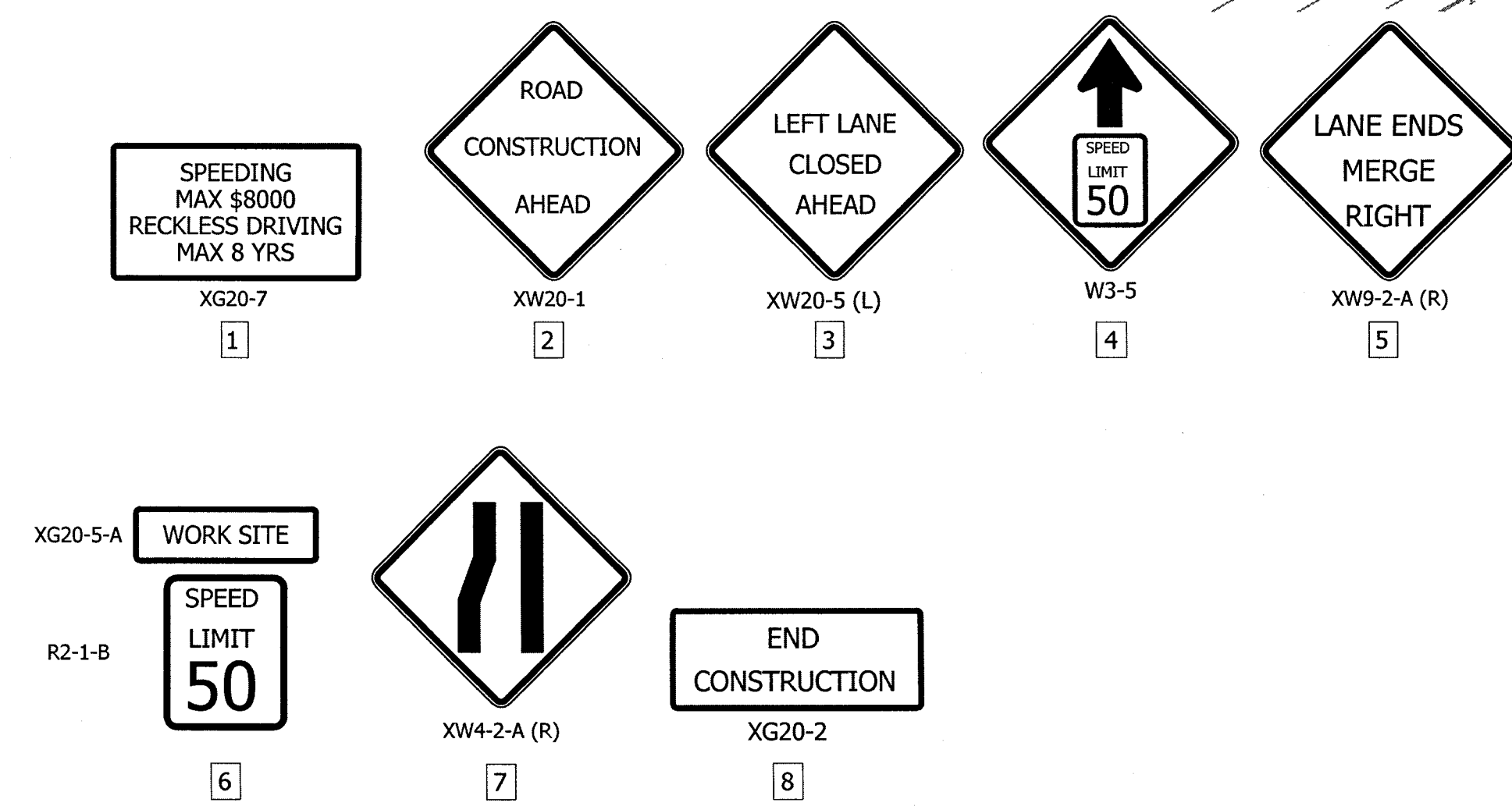
500+00



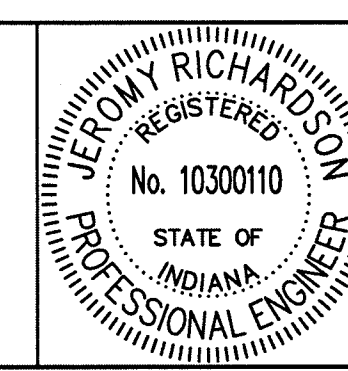
See Sheet 12 for US 41 Southbound Advance Sign Detail

- STAGE 1 NOTES**
1. Close Left Lane On US 41 Northbound.
 2. Close Left Lane On US 41 Southbound.
 3. Construct Temporary Crossover

- Notes:**
1. Existing Pavement Markings That Conflict With Proposed Pavement Markings Shall Be Removed And Replaced Following That Stage Of Construction.
 2. Channelizing Devices Shall Be Spaced In Accordance With INDOT Standard Drawing No. E 801-TCLG-01.
 3. Existing Signs That Conflict With Proposed Staging Shall Be Covered During Construction And Uncovered After Construction.
 4. For Temporary Crossover Information See INDOT Standard Drawing No. E 801-TCCO-01 To E 801-TCCO-07.



- ➔ Traffic Flow Arrow
- Drums
- ⊥ Construction Signs
- ① Temporary Pavement Marking, Solid, White, 4 in.
- ② Temporary Pavement Marking, Solid, Yellow, 4 in.
- ▨ Construction Area



RECOMMENDED FOR APPROVAL: *Jeremy Richardson* 11-4-13
 DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC STAGE 1

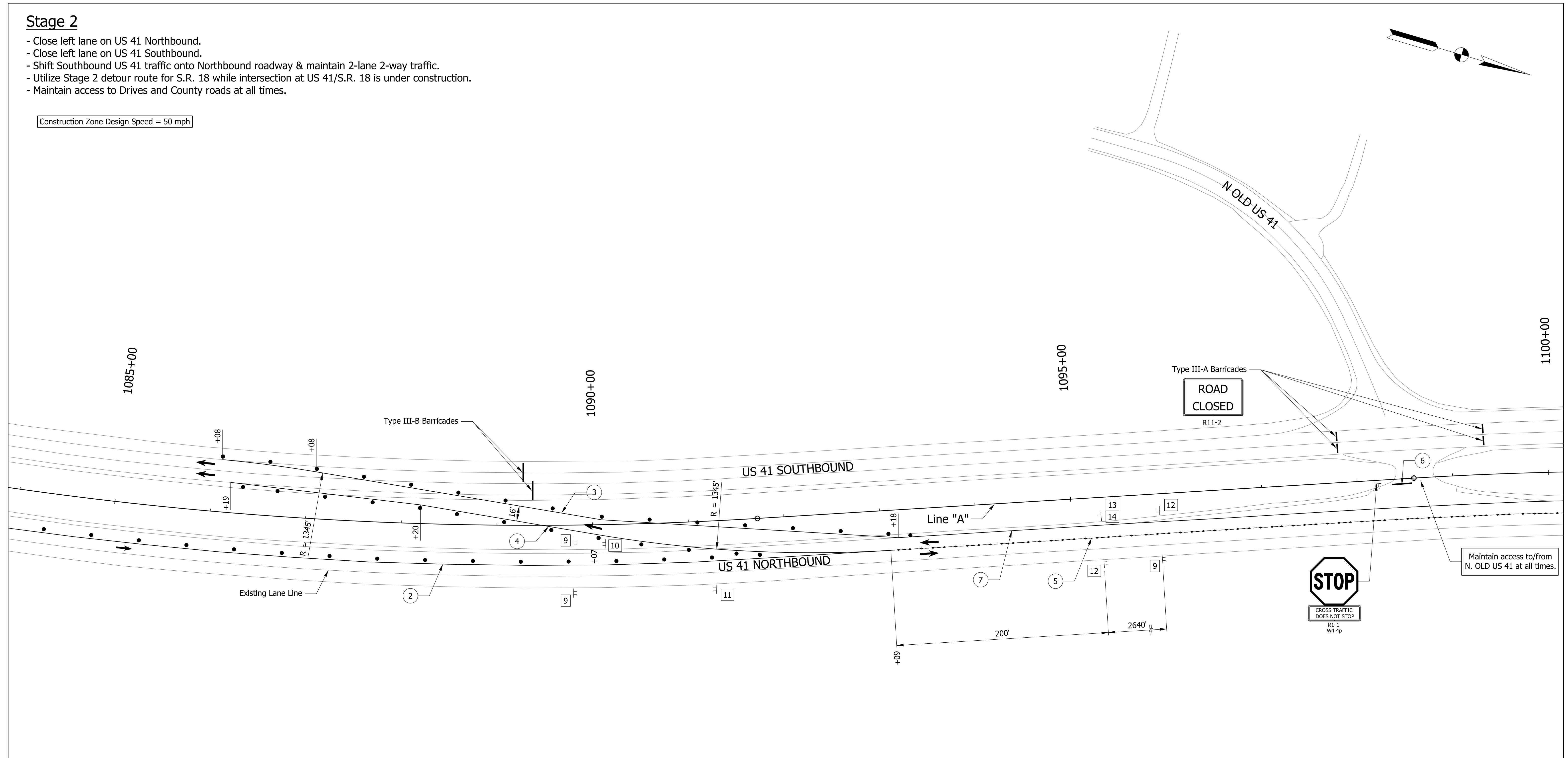
SCALE	BRIDGE FILE
1" = 50'	-
SURVEY BOOK	SHEETS
-	14 of 162
CONTRACT	PROJECT
R-32258	0710399

File Name: \\us01k6\proj\roadteam\3\CD\12-404-02\Road\Draw\Plans\MOT US41 - Phase 1.dwg Plot Date: 11/19/2013 Plotted By: Wenz, John

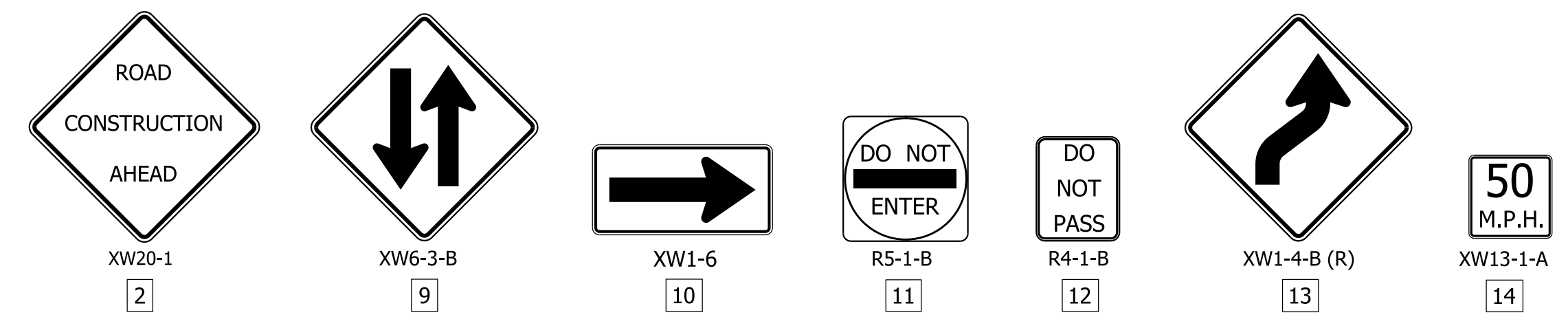
Stage 2

- Close left lane on US 41 Northbound.
- Close left lane on US 41 Southbound.
- Shift Southbound US 41 traffic onto Northbound roadway & maintain 2-lane 2-way traffic.
- Utilize Stage 2 detour route for S.R. 18 while intersection at US 41/S.R. 18 is under construction.
- Maintain access to Drives and County roads at all times.

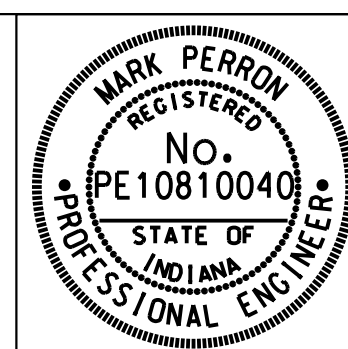
Construction Zone Design Speed = 50 mph



- Notes:
- Existing pavement markings that conflict with proposed staging shall be removed and replaced following that stage of construction.
 - Channelizing devices shall be spaced in accordance with INDOT Standard Drawing No. E 801-TCLG-01.
 - Existing signs that conflict with the proposed staging shall be covered during construction and uncovered after construction.
 - For temporary crossover information see INDOT Standard Drawing No. E 801-TCCO-01 to E 801-TCCO-07.
 - See Sheet 17 for Stage 2 MOT typical section.
 - See Sheet 11 for US 41 Northbound Advance Sign Detail.



- Traffic Flow Arrows
 - Drums
 - TTT Construction Sign
 - Temporary Tubular Markers (TTM)
- | | |
|--|--|
| ① Temporary Pavement Marking, Removable, Solid, White, 4 in. | ⑤ Temporary Pavement Marking, Solid Double Yellow, 4 in. |
| ② Temporary Pavement Marking, Removable, Solid Yellow, 4 in. | ⑥ Temporary Pavement Marking, 24 IN |
| ③ Temporary Pavement Marking, Removable, Solid, White, 8 in. | ⑦ Temporary Pavement Marking, Solid, White, 4 in. |
| ④ Temporary Pavement Marking, Removable, Solid Yellow, 8 in. | |



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER, 10/04/2013 DATE

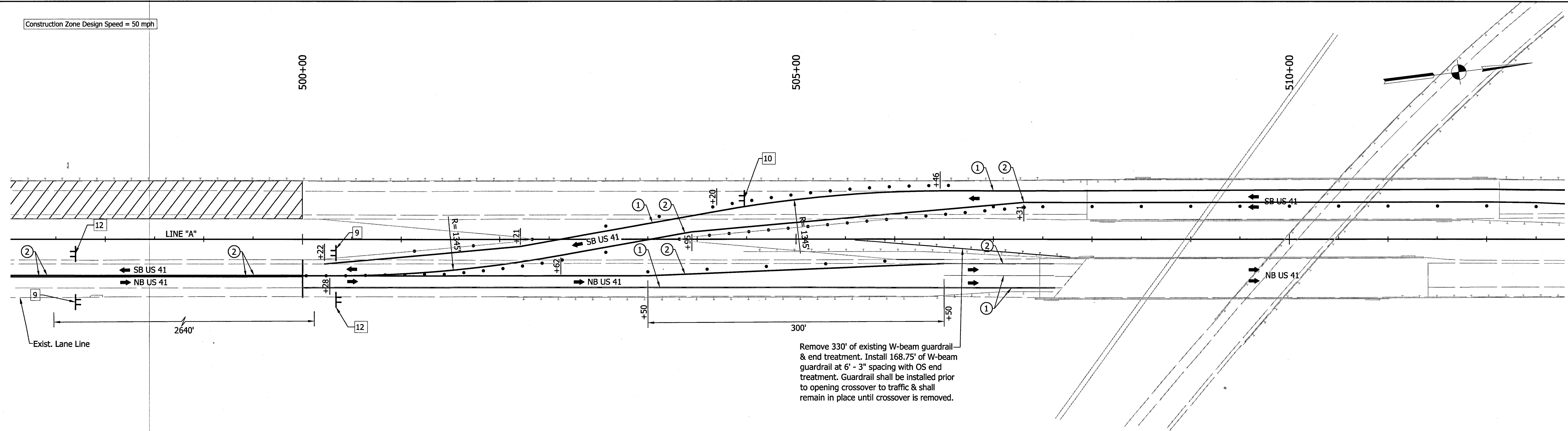
DESIGNED: HKH DRAWN: SJG
 CHECKED: DCK CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

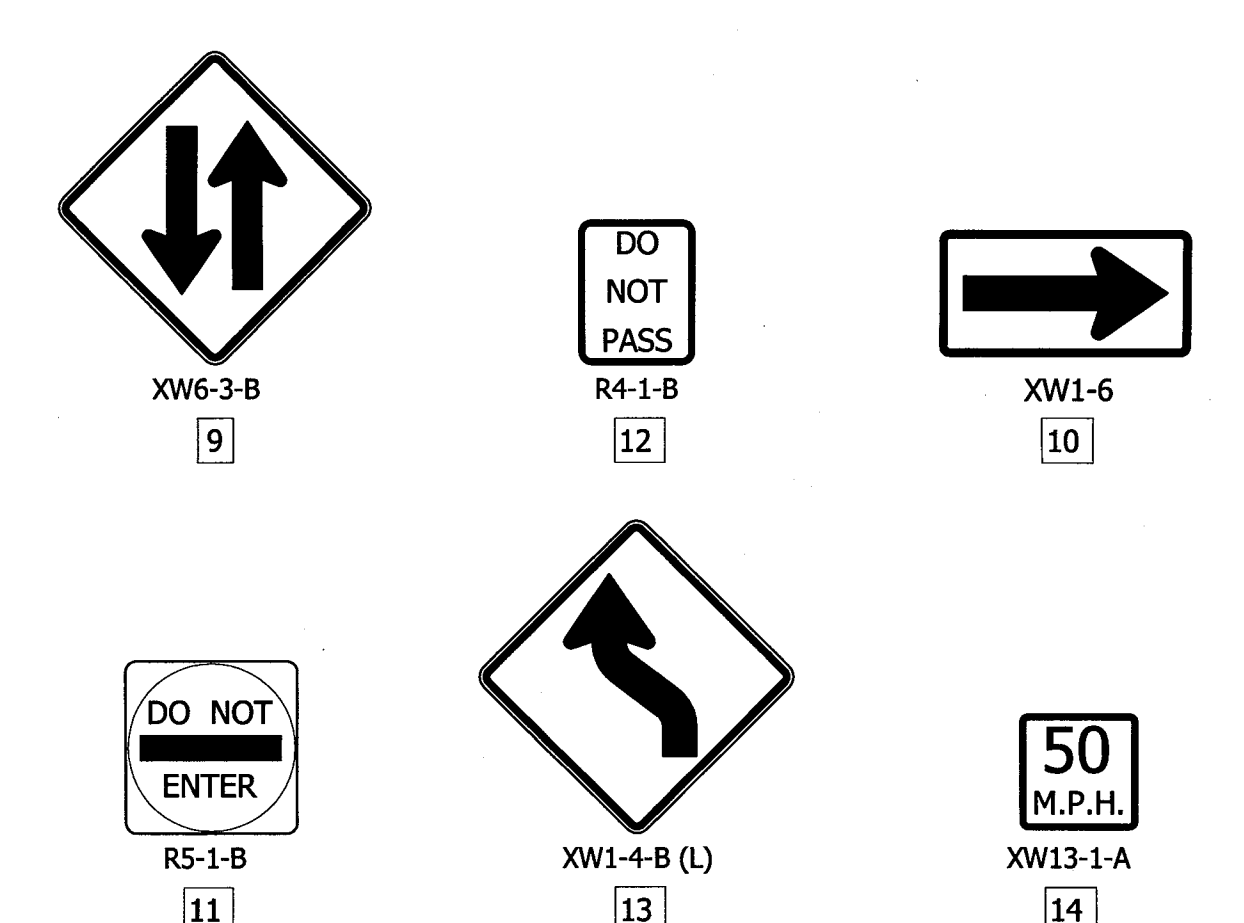
MAINTENANCE OF TRAFFIC
 TEMPORARY CROSSOVER STA. 1090+00.00
 STAGE 2

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 15 of 162
CONTRACT R-32258	PROJECT 0710399

Construction Zone Design Speed = 50 mph



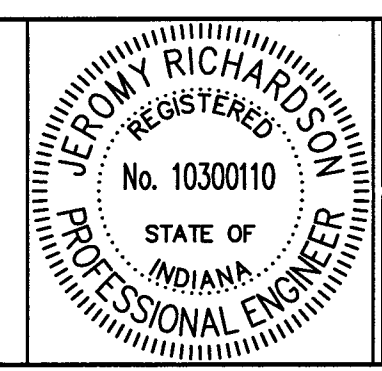
Remove 330' of existing W-beam guardrail & end treatment. Install 168.75' of W-beam guardrail at 6' - 3" spacing with OS end treatment. Guardrail shall be installed prior to opening crossover to traffic & shall remain in place until crossover is removed.



- Notes:**
- Existing pavement markings that conflict with proposed staging shall be removed and replaced following that stage of construction.
 - Channelizing devices shall be spaced in accordance with INDOT Standard Drawing No. E 801-TCLG-01.
 - Existing signs that conflict with the proposed staging shall be covered during construction and uncovered after construction.
 - For temporary crossover information see INDOT Standard Drawing No. E 801-TCCO-01 to E 801-TCCO-07.
 - See Stage 2 MOT typical section.
 - See US 41 Southbound Advance Sign Detail.

File Name: P:\CD\12-40-42\Road\Draw\Plans\MOT US41 - Phase 2.dwg Plot Date: 11/17/2013 Plotted By: Nimir, John

- Traffic Flow Arrow
- Drums
- ▬ Construction Signs
- ① Temporary Pavement Marking, Solid, White, 4 in.
- ② Temporary Pavement Marking, Solid, Yellow, 4 in.
- ▨ Construction Area



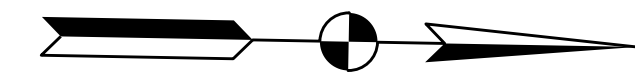
RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 11-1-13
 DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

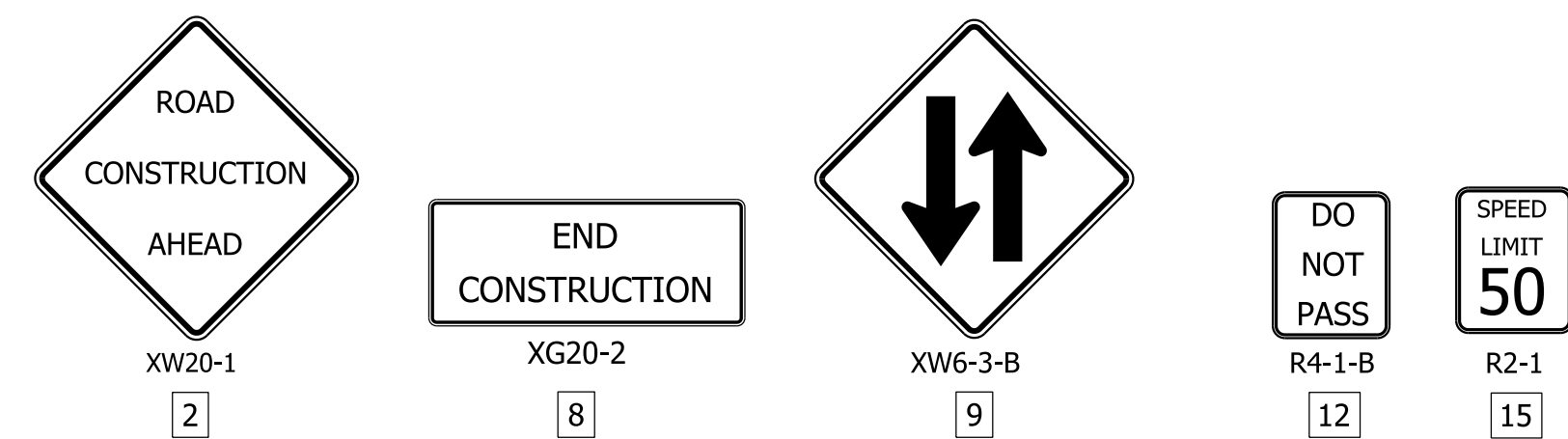
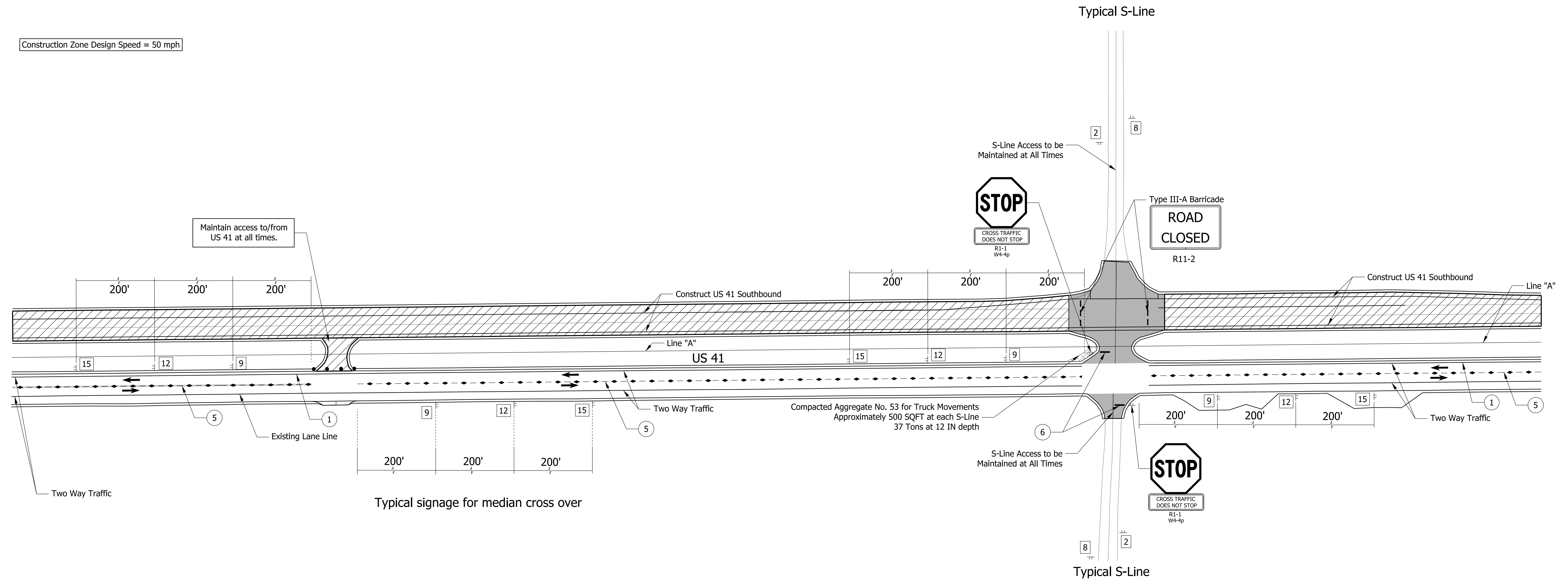
INDIANA
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - STAGE 2
 TEMPORARY CROSSOVER STA. 505+00.00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS
	16 of 162
CONTRACT R-32258	PROJECT 0710399

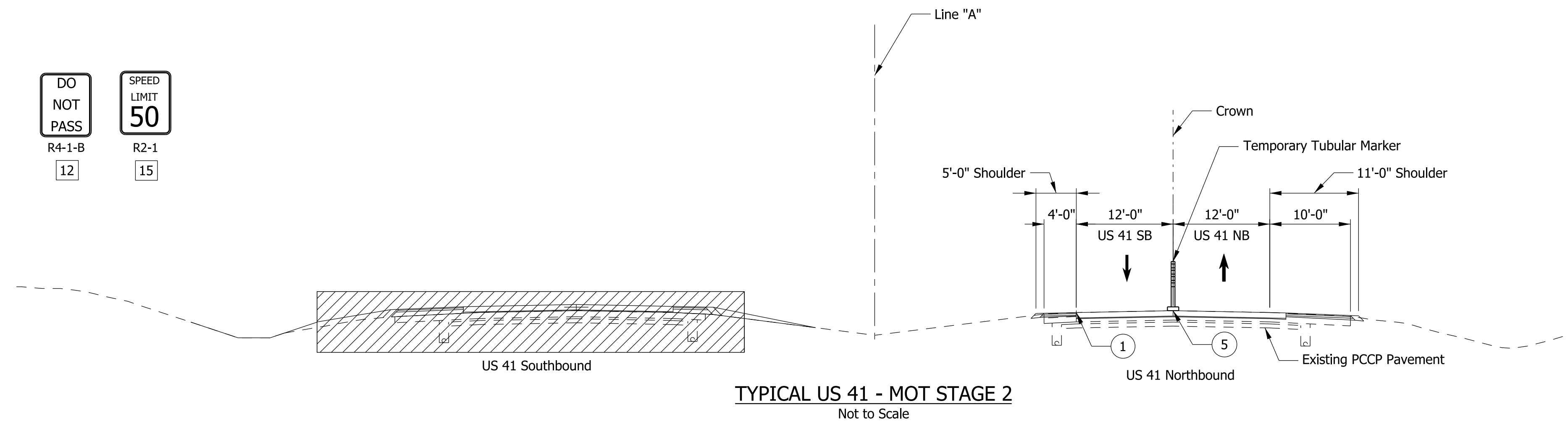


Construction Zone Design Speed = 50 mph

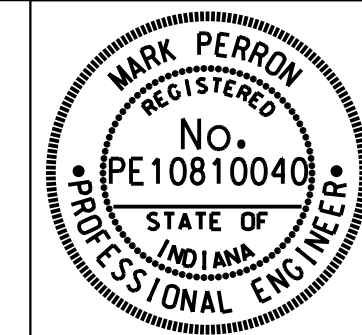


Notes:

1. Existing pavement markings that conflict with proposed staging shall be removed and replaced following that stage of construction.
2. Channelizing devices shall be spaced in accordance with INDOT Standard Drawing No. E 801-TCLG-01.
3. Existing signs that conflict with the proposed staging shall be covered during construction and uncovered after construction.
4. For temporary crossover information see INDOT Standard Drawing No. E 801-TCCO-01 to E 801-TCCO-07.
5. Temporary pavement for MOT shall consist of:
 - 165 #/SYS HMA Surface, Type B on
 - 275 #/SYS HMA Intermediate, Type B on
 - 330 #/SYS HMA Base, Type B on
 - 5" Compacted Aggregate, No. 53 Base on
 - Subgrade treatment, Type IIIA
6. See Sheet 10 for S.R. 18 Detour Route.



• • Drums	① Temporary Pavement Marking, Solid, White, 4 in.	⑤ Temporary Pavement Marking, Solid Double Yellow, 4 in.
▬ Type III-A Barricade	② Temporary Pavement Marking, Removable, Solid Yellow, 4 in.	⑥ Temporary Pavement Marking, 24 IN
➔ Traffic Flow Arrows	③ Temporary Pavement Marking, Removable, Solid, White, 8 in.	TT Construction Sign
▨ Construction Area	④ Temporary Pavement Marking, Removable, Solid Yellow, 8 in.	
- - - Temporary Tubular Markers (TTM)		



RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013	DATE
DESIGNED:	TMB	DRAWN:	TMB	
CHECKED:	SHM	CHECKED:	DCK	

INDIANA
DEPARTMENT OF TRANSPORTATION

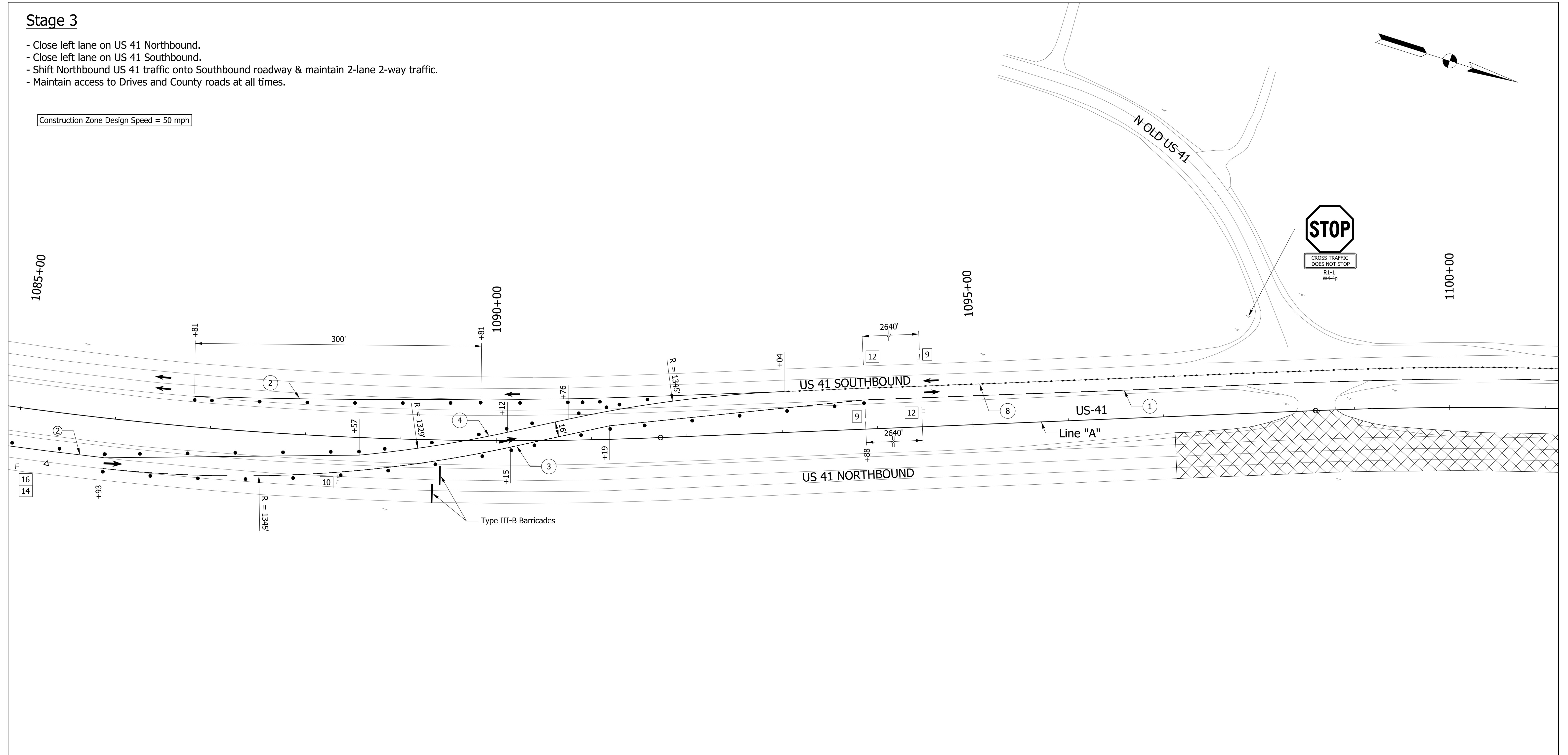
MAINTENANCE OF TRAFFIC
STAGE 2
Typical S-Line Approach

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	17 of 162
CONTRACT	PROJECT
R-32258	0710399

Stage 3

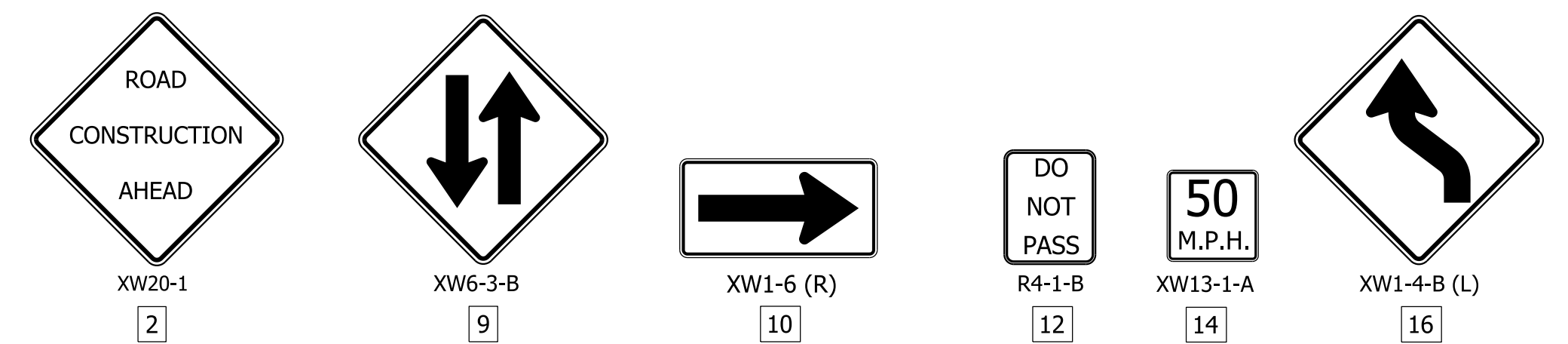
- Close left lane on US 41 Northbound.
- Close left lane on US 41 Southbound.
- Shift Northbound US 41 traffic onto Southbound roadway & maintain 2-lane 2-way traffic.
- Maintain access to Drives and County roads at all times.

Construction Zone Design Speed = 50 mph

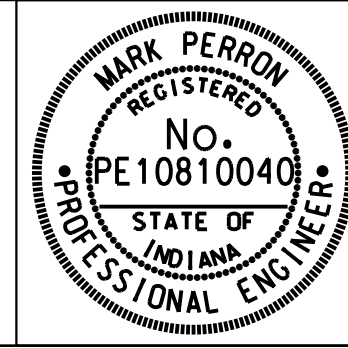


Notes:

- Existing pavement markings that conflict with proposed staging shall be removed and replaced following that stage of construction.
- Channelizing devices shall be spaced in accordance with INDOT Standard Drawing No. E 801-TCLG-01.
- Existing signs that conflict with the proposed staging shall be covered during construction and uncovered after construction.
- For temporary crossover information see INDOT Standard Drawing No. E 801-TCCO-01 to E 801-TCCO-07.
- See Sheet 20 for Stage 3 MOT typical section.
- See Sheet 11 for US 41 Northbound Advance Sign Detail.



→ Traffic Flow Arrows	① Temporary Pavement Marking, Removable, Solid, White, 4 in.	⑧ Temporary Pavement Marking, Removable, Solid Double Yellow, 4 in.
• Drums	② Temporary Pavement Marking, Removable, Solid Yellow, 4 in.	
TT Construction Sign	③ Temporary Pavement Marking, Removable, Solid, White, 8 in.	
⊠ Construction Area	④ Temporary Pavement Marking, Removable, Solid Yellow, 8 in.	
- - - Temporary Tubular Markers (TTM)		



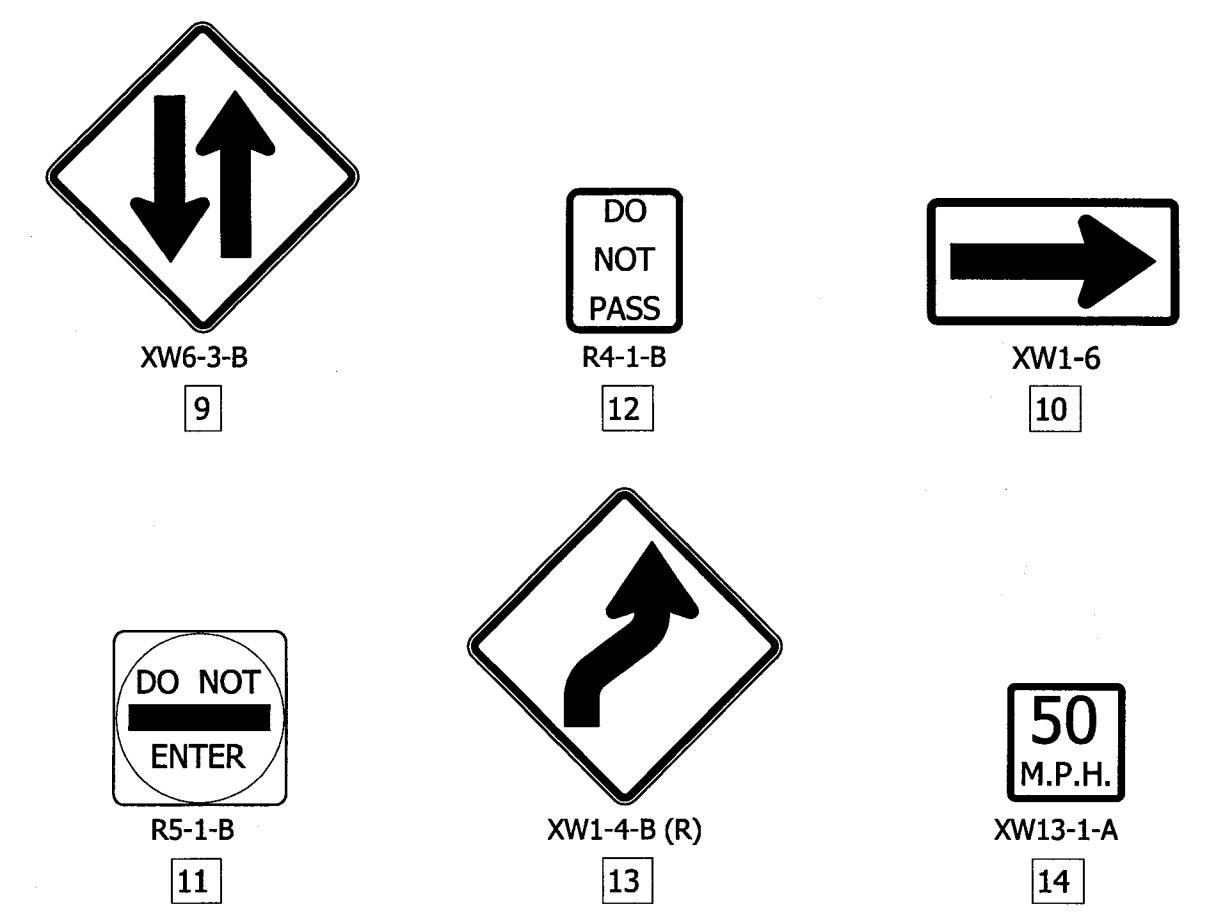
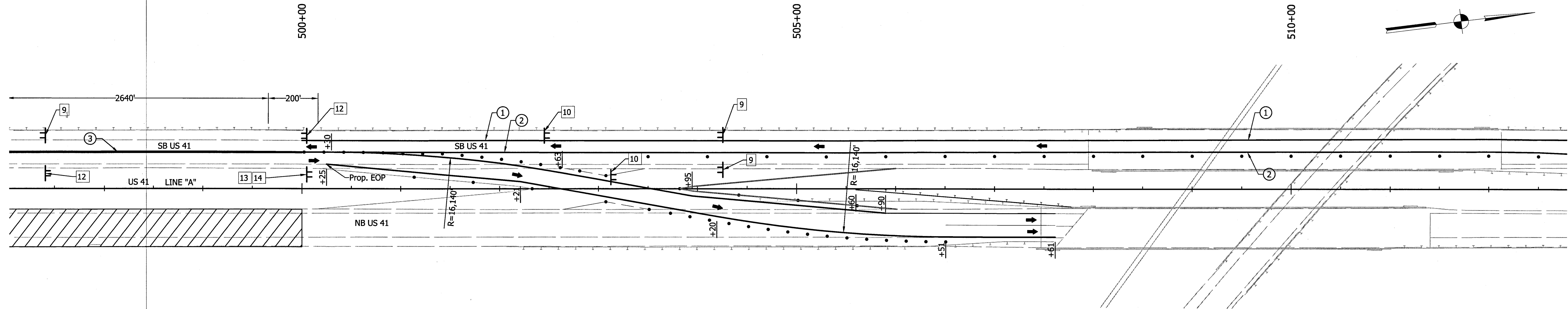
RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013	DATE
DESIGNED:	HKH	DRAWN:	SJC	
CHECKED:	DCK	CHECKED:	DCK	

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TEMPORARY CROSSOVER STA. 1090+00.00
STAGE 3

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	18 of 162
CONTRACT	PROJECT
R-32258	0710399

Construction Zone Design Speed = 50 mph



- Notes:**
- Existing pavement markings that conflict with proposed staging shall be removed and replaced following that stage of construction.
 - Channelizing devices shall be spaced in accordance with INDOT Standard Drawing No. E 801-TCLG-01.
 - Existing signs that conflict with the proposed staging shall be covered during construction and uncovered after construction.
 - For temporary crossover information see INDOT Standard Drawing No. E 801-TCCO-01 to E 801-TCCO-07.
 - See Stage 3 MOT typical section.
 - See US 41 Northbound Advance Sign Detail.

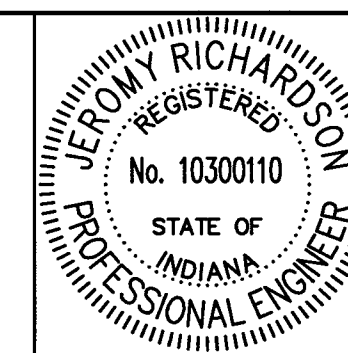
STAGE 4 NOTES

- After completion of Stage 3, restore NB and SB traffic flows to normal 2 lanes each direction pattern.
- Stage 4 work activity from Sta. 500+00 to Sta. 507+37.79 NB and Sta. 500+00 to Sta. 507+94.86 SB shall be performed under Lane Closures per the Standard Specifications and Standard Drawings.
- Contractor shall submit Stage 4 MOT details to the Engineer for review and concurrence prior to commencing work.

File Name: P:\CD\12-404-02\Road\Drawings\NOT US 41 - Phase 3.dwg Plot Date: 11/1/2013 Printed By: Ninoz, John

- Traffic Flow Arrow
- Drums
- Construction Signs

- ① Temporary Pavement Marking, Solid, White, 4 in.
- ② Temporary Pavement Marking, Solid, Yellow, 4 in.
- ▨ Construction Area

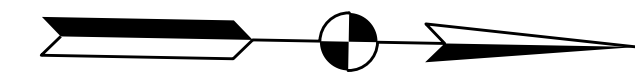


RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	
<i>Jeremy Richardson</i>		DATE	
11-1-13			
DESIGNED: HEK	DRAWN: JNII		
CHECKED: WRC	CHECKED: WRC		

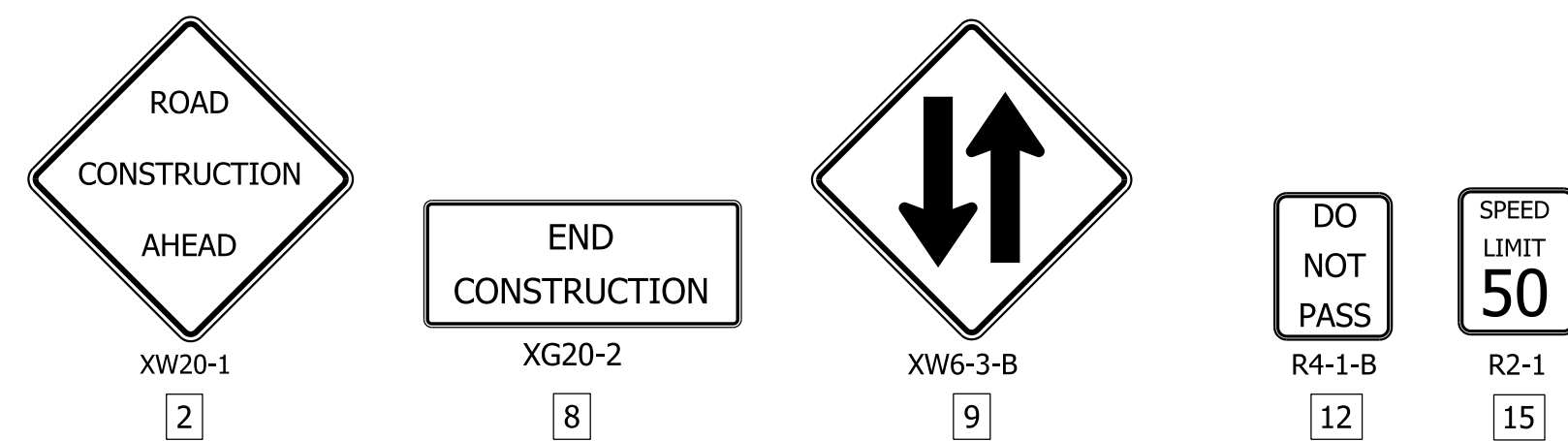
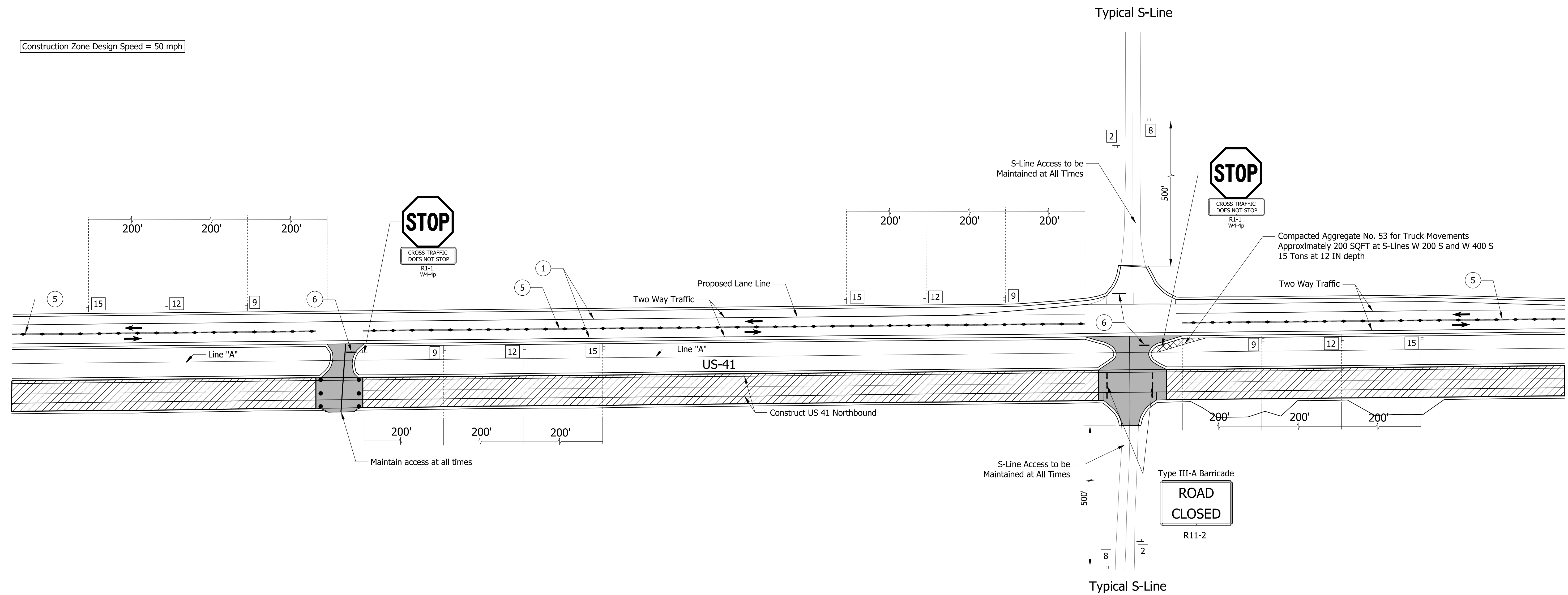
INDIANA
DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC - STAGE 3 & 4
TEMPORARY CROSSOVER STA. 505+00.00**

SCALE	BRIDGE FILE
1" = 50'	-
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
-	19 of 162
CONTRACT	PROJECT
R-32258	0710399

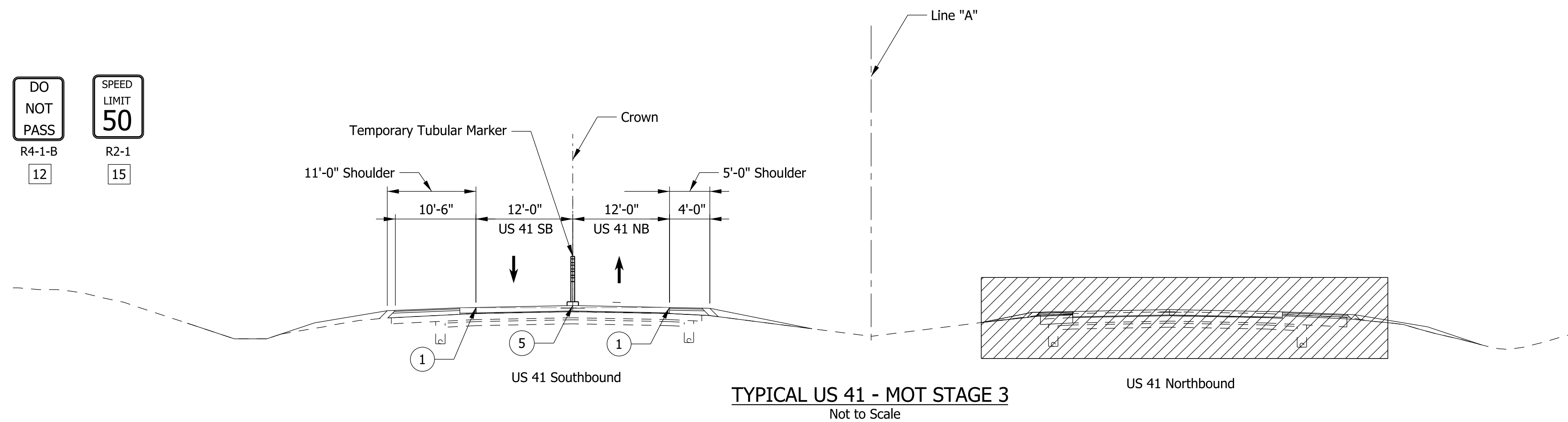


Construction Zone Design Speed = 50 mph

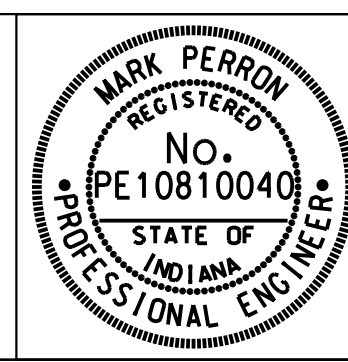


Notes:

1. Existing pavement markings that conflict with proposed staging shall be removed and replaced following that stage of construction.
2. Channelizing devices shall be spaced in accordance with INDOT Standard Drawing No. E 801-TCLG-01.
3. Existing signs that conflict with the proposed staging shall be covered during construction and uncovered after construction.
4. For temporary crossover information see INDOT Standard Drawing No. E 801-TCCO-01 to E 801-TCCO-07.
5. Temporary pavement for MOT shall consist of:
 - 165 #/SYS HMA Surface, Type B on
 - 275 #/SYS HMA Intermediate, Type B on
 - 330 #/SYS HMA Base, Type B on
 - 5" Compacted Aggregate, No. 53 Base on
 - Subgrade treatment, Type IIIA
6. See Sheet 10 for S.R. 18 Detour Route.



• • Drums	① Temporary Pavement Marking, Removable, Solid, White, 4 in.	⑤ Temporary Pavement Marking, Removable, Solid Double Yellow, 4 in.
TT Construction Sign	② Temporary Pavement Marking, Removable, Solid Yellow, 4 in.	⑥ Temporary Pavement Marking, 24 IN
Type III-A Barricade	③ Temporary Pavement Marking, Removable, Solid, White, 8 in.	⑦ Temporary Pavement Marking, Solid, White, 4 in.
→ Traffic Flow Arrows	④ Temporary Pavement Marking, Removable, Solid Yellow, 8 in.	⑧ Temporary Pavement Marking, Removable, Solid Double Yellow, 4 in.
Construction Area		
- - - Temporary Tubular Markers (TTM)		



RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013	DATE
DESIGNED:	TMB	DRAWN:	TMB	
CHECKED:	SHM	CHECKED:	DCK	

INDIANA
DEPARTMENT OF TRANSPORTATION

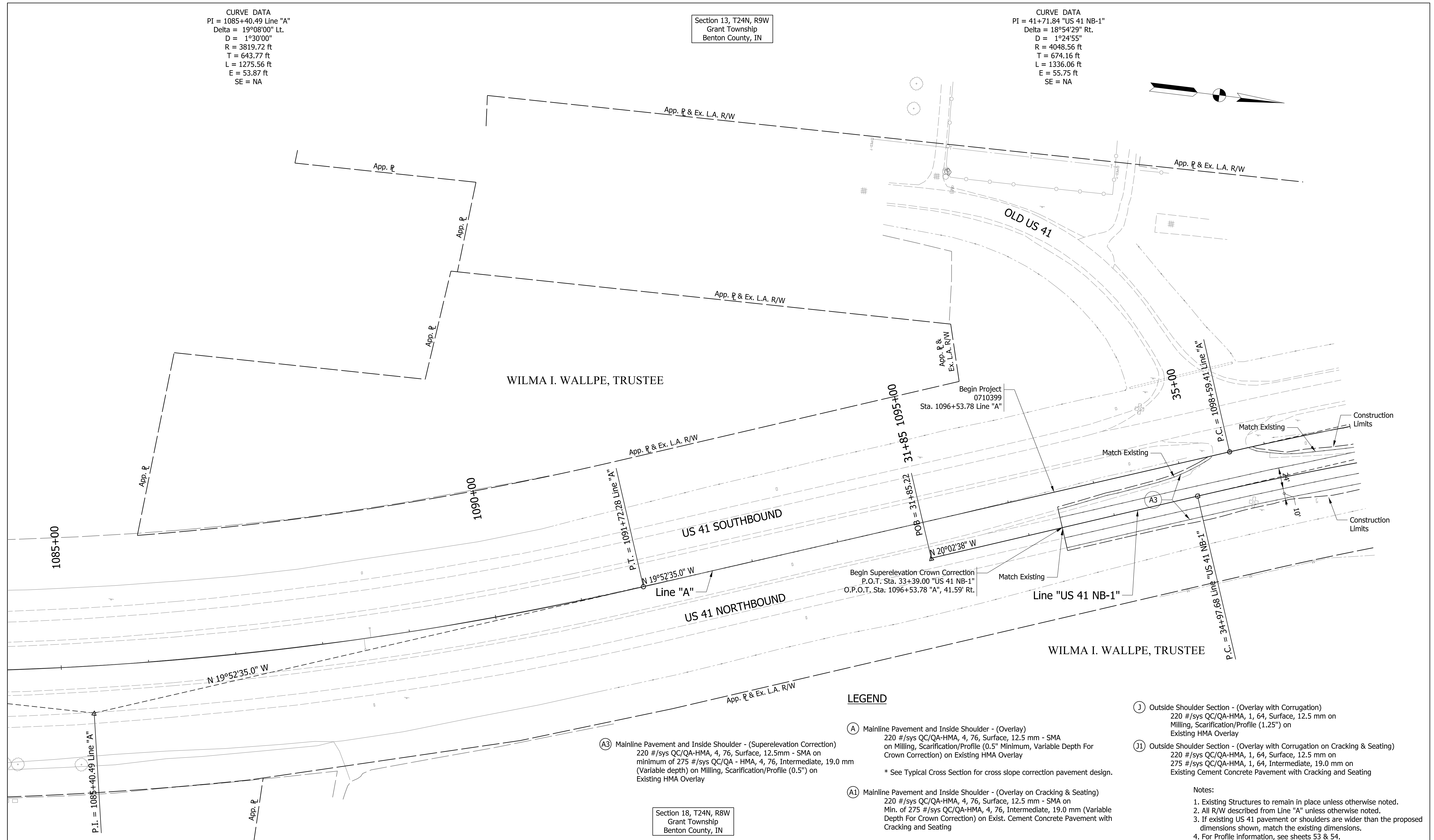
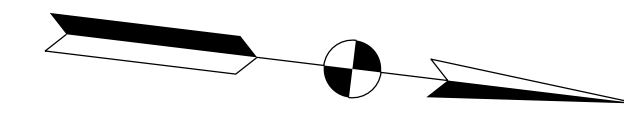
MAINTENANCE OF TRAFFIC
STAGE 3
Typical S-Line Approach

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	20 of 162
CONTRACT	PROJECT
R-32258	0710399

CURVE DATA
 PI = 1085+40.49 Line "A"
 Delta = 19°08'00" Lt.
 D = 1°30'00"
 R = 3819.72 ft
 T = 643.77 ft
 L = 1275.56 ft
 E = 53.87 ft
 SE = NA

Section 13, T24N, R9W
 Grant Township
 Benton County, IN

CURVE DATA
 PI = 41+71.84 "US 41 NB-1"
 Delta = 18°54'29" Rt.
 D = 1°24'55"
 R = 4048.56 ft
 T = 674.16 ft
 L = 1336.06 ft
 E = 55.75 ft
 SE = NA



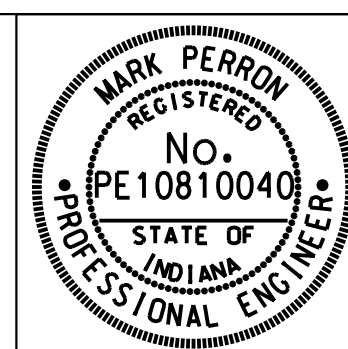
LEGEND

- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5mm - SMA on minimum of 275 #/sys QC/QA - HMA, 4, 76, Intermediate, 19.0 mm (Variable depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (A) Mainline Pavement and Inside Shoulder - (Overlay)
 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5") Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (J) Outside Shoulder Section - (Overlay with Corrugation)
 220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
 220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating

* See Typical Cross Section for cross slope correction pavement design.

- Notes:
1. Existing Structures to remain in place unless otherwise noted.
 2. All R/W described from Line "A" unless otherwise noted.
 3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.
 4. For Profile information, see sheets 53 & 54.

Section 18, T24N, R8W
 Grant Township
 Benton County, IN



RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013
DESIGNED:	DCK	DRAWN:	SJC
CHECKED:	MDP	CHECKED:	DCK

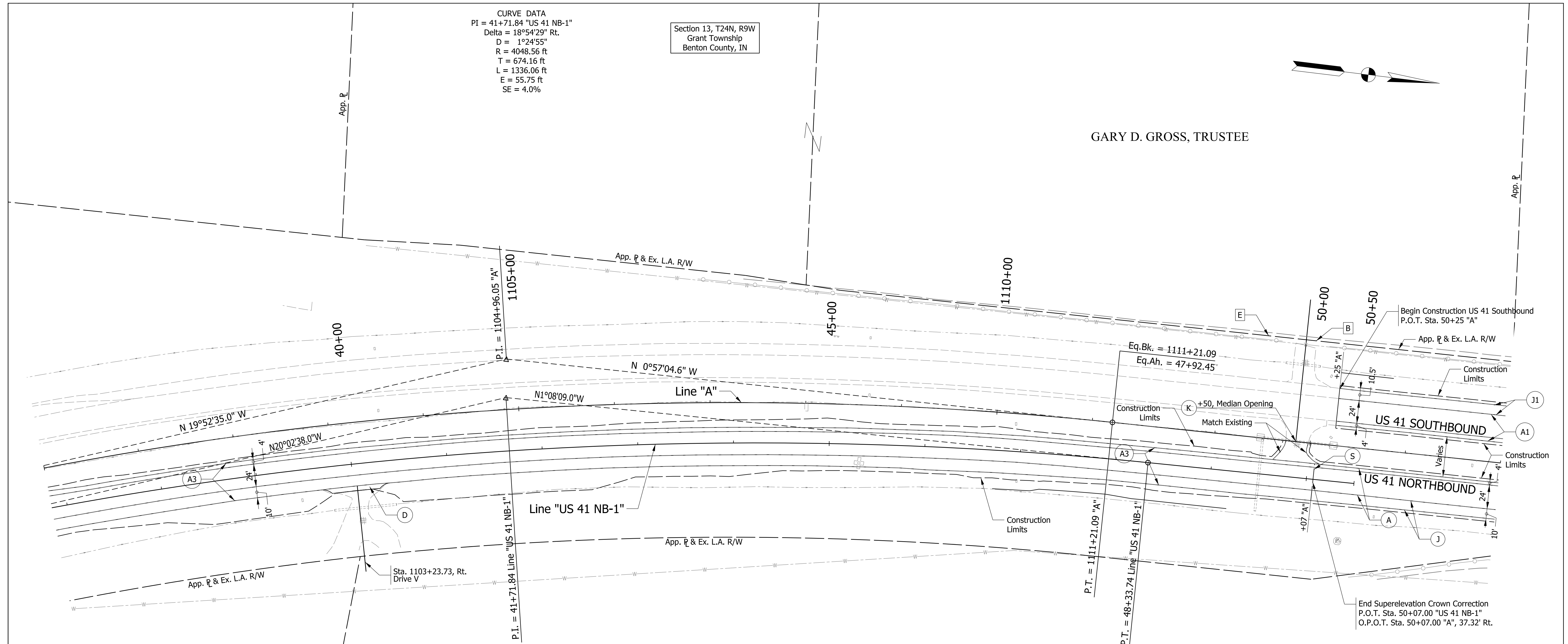
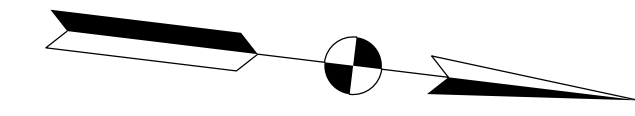
INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET
LINE "A"
STA. 1095+00 TO STA. 1110+00

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	21 of 162
CONTRACT	PROJECT
R-32258	0710399

CURVE DATA
 PI = 41+71.84 "US 41 NB-1"
 Delta = 18°54'29" Rt.
 D = 1°24'55"
 R = 4048.56 ft
 T = 674.16 ft
 L = 1336.06 ft
 E = 55.75 ft
 SE = 4.0%

Section 13, T24N, R9W
 Grant Township
 Benton County, IN

GARY D. GROSS, TRUSTEE



- (A) Mainline Pavement and Inside Shoulder - (Overlay)
 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
 * See Typical Cross Section for cross slope correction pavement design.
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5mm - SMA on minimum of 275 #/sys QC/QA - HMA, 4, 76, Intermediate, 19.0 mm (Variable depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay

- (J) Outside Shoulder Section - (Overlay with Corrugation)
 220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
 220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
 220 #/sys QC/QA-HMA, 1, 64, Surface 12.5mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base

LEGEND

- (K) HMA for Approaches - Roads
 Northbound
 165 #/sys HMA, Surface Type B
 Southbound
 HMA for Public Road Approaches
 165 #/sys HMA, Surface Type B, on
 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
 Northbound
 165 #/sys HMA, Surface Type B
 Southbound
 HMA for Public Road Approaches
 165 #/sys HMA, Surface Type B, on
 275 #/sys HMA, Intermediate Type B, Variable Depth
- (S) Sawcut

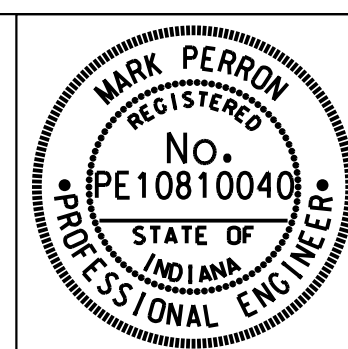
- (B) Begin L.A. R/W
- (E) End L.A. R/W

CURVE DATA
 PI = 1104+96.05 "A"
 Delta = 18°55'30" Rt.
 D = 1°30'00"
 R = 3819.72 ft
 T = 636.64 ft
 L = 1261.67 ft
 E = 52.69 ft
 SE = NA

WILMA I. WALLPE, TRUSTEE

Section 18, T24N, R8W
 Grant Township
 Benton County, IN

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.
 - For Profile information, see sheets 53 & 54.

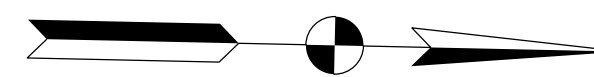


RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
 DESIGNED: DCK DRAWN: SJG
 CHECKED: MDP CHECKED: DCK

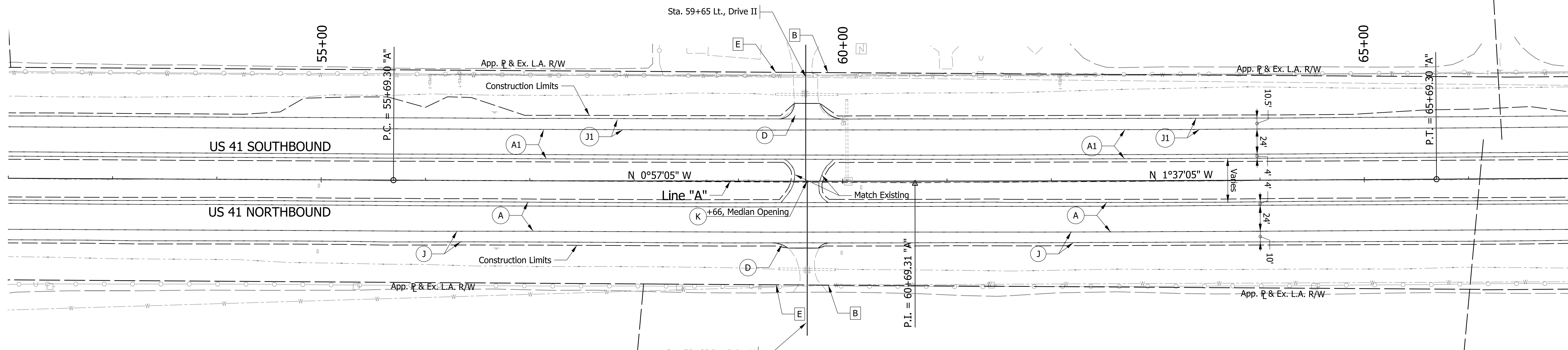
INDIANA DEPARTMENT OF TRANSPORTATION
 PLAN SHEET
 LINE "A"
 STA. 1110+00 TO STA. 52+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 22 of 162
CONTRACT R-32258	PROJECT 0710399

Section 13, T24N, R9W
Grant Township
Benton County, IN



KIRSCH, GERALD W.



WILMA I. WALLPE, TRUSTEE

BUCHANAN, BRUCE A.

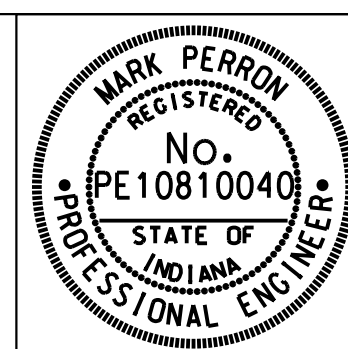
CURVE DATA
 PI = 60+69.31 "A"
 Delta = 0°40'00" Lt.
 D = 0°04'00"
 R = 85943.67 ft
 T = 500.01 ft
 L = 1000.00 ft
 E = 1.45 ft
 SE = N.C.

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (B) Begin L.A. R/W
(E) End L.A. R/W

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

Section 18, T24N, R8W
Grant Township
Benton County, IN

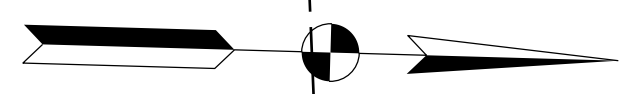


RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
 DESIGNED: DCK DRAWN: SJG
 CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION
 PLAN SHEET LINE "A" STA. 52+00 TO STA. 67+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 23 of 162
CONTRACT R-32258	PROJECT 0710399

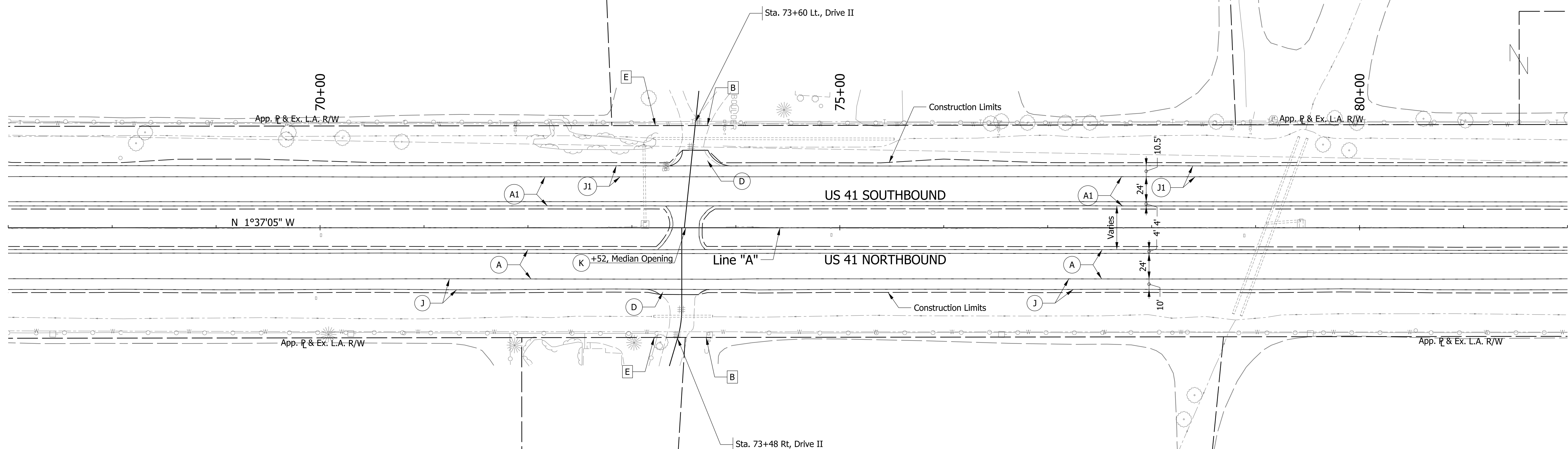
Section 12, T24N, R9W
Grant Township
Benton County, IN



AGNES T. COOPER LIFE ESTATE

COOPER, DEAN SCOTT ET UX.

RAYMOND J. WETLI, TRUSTEE



BUCHANAN, BRUCE A ET UX.

MARIN, RAUL ET UX.

BUCHANAN, BRUCE A ET UX.

AGNES T. COOPER LIFE ESTATE

(A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For
Crown Correction) on Existing HMA Overlay

* See Typical Cross Section for cross slope correction pavement design.

(A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating

(A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on

(J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25") on
Existing HMA Overlay

(J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating

(J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base

LEGEND

(K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B

Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

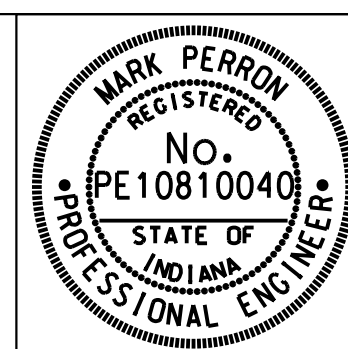
(D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B

Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

(B) Begin L.A. R/W
(E) End L.A. R/W

Section 7, T24N, R8W
Grant Township
Benton County, IN

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
DESIGNED: DCK DRAWN: SJG
CHECKED: MDP CHECKED: DCK

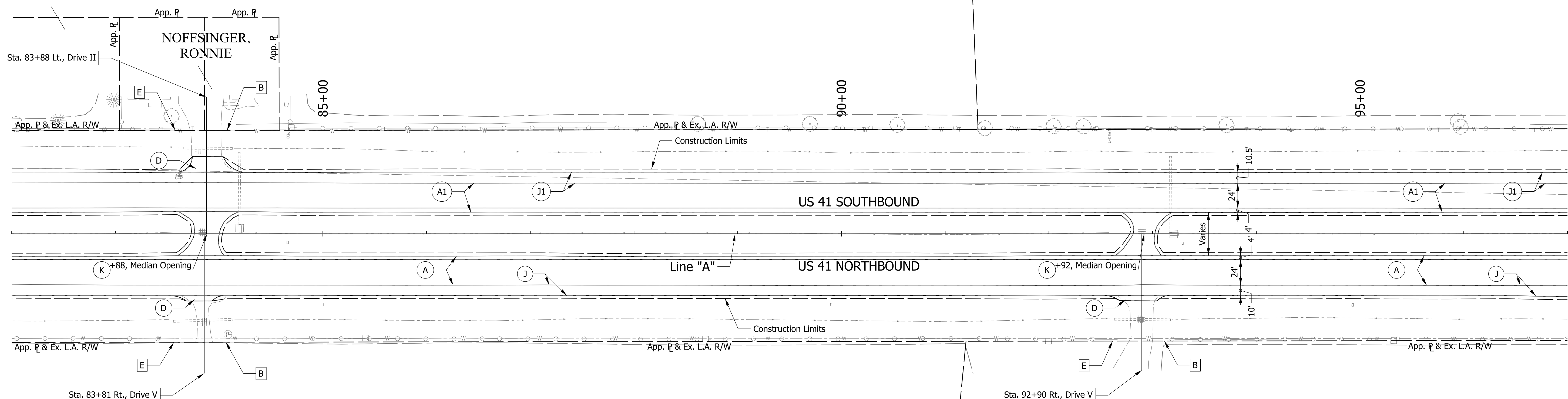
INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET LINE "A" STA. 67+00 TO STA. 82+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 24 of 162
CONTRACT R-32258	PROJECT 0710399

Section 12, T24N, R9W
Grant Township
Benton County, IN



RAYMOND J. WETLI, TRUSTEE



AGNES T. COOPER LIFE ESTATE

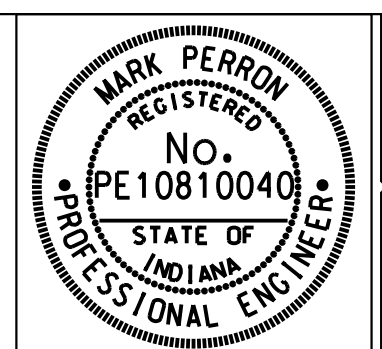
STEMBEL, JOHN LARM ET AL.

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (B) Begin L.A. R/W
- (E) End L.A. R/W

Notes:
1. Existing Structures to remain in place unless otherwise noted.
2. All R/W described from Line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

Section 7, T24N, R8W
Grant Township
Benton County, IN

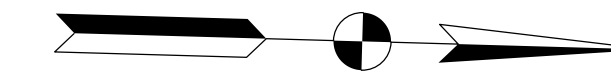


RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET LINE "A" STA. 82+00 TO STA. 97+00

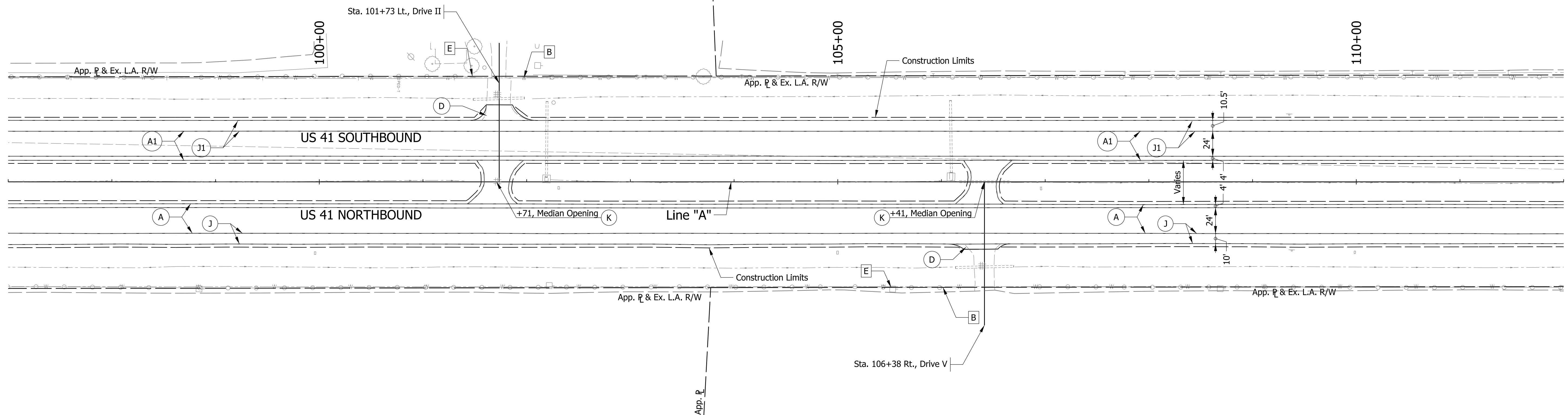
SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 25 of 162
CONTRACT R-32258	PROJECT 0710399

Section 12, T24N, R9W
Grant Township
Benton County, IN



RAYMOND J. WETLI, TRUSTEE

WETLI GROVE FARMS LLC



STEMBEL, JOHN LARM ET AL.

McDANIEL, IDA E. TRUST

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (B) Begin L.A. R/W
- (E) End L.A. R/W

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

Section 7, T24N, R8W
Grant Township
Benton County, IN



RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013
DESIGNED:	DCK	DRAWN:	SJC
CHECKED:	MDP	CHECKED:	DCK

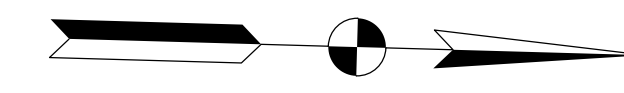
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LINE "A"
STA. 97+00 TO STA. 112+00

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	26 of 162
CONTRACT	PROJECT
R-32258	0710399

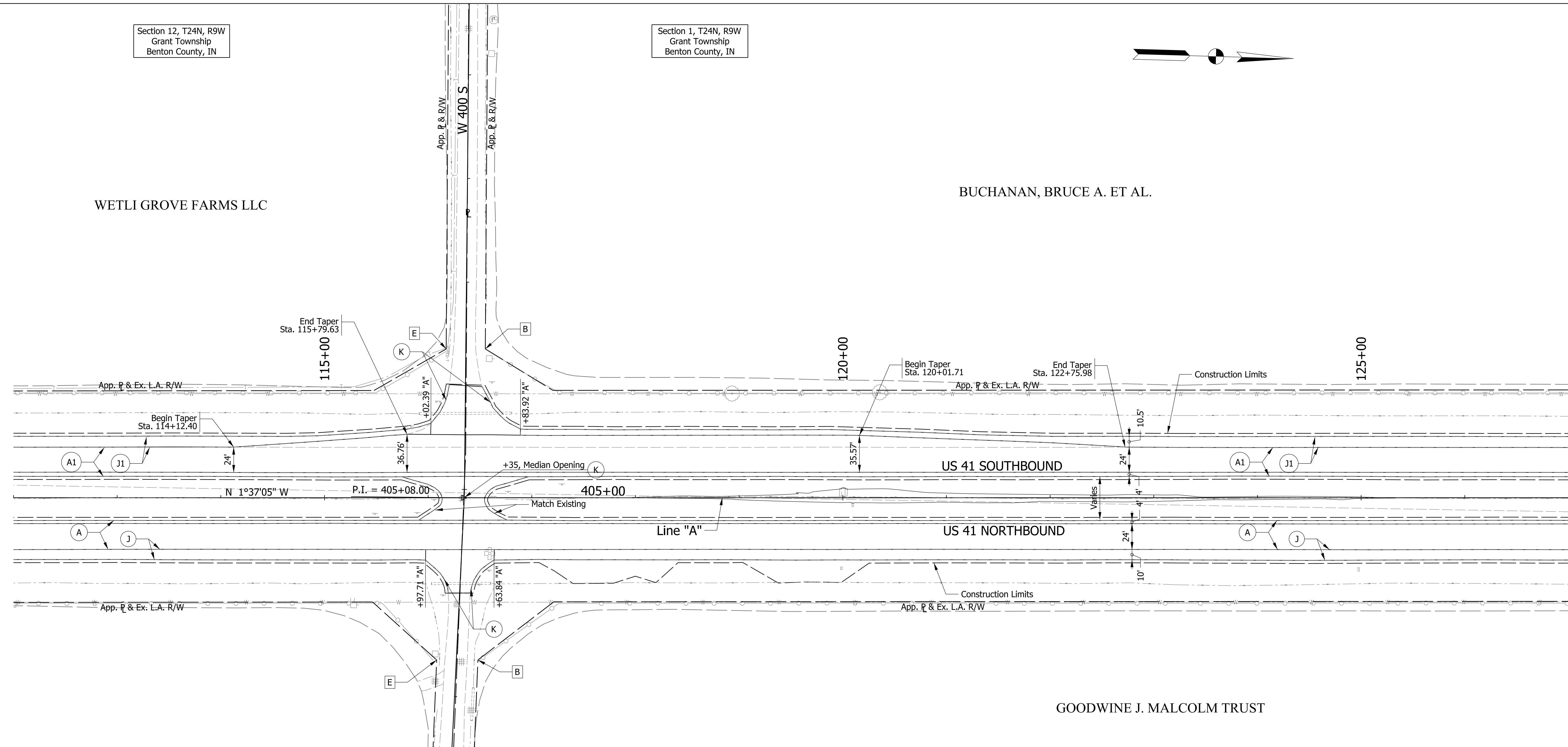
Section 12, T24N, R9W
Grant Township
Benton County, IN

Section 1, T24N, R9W
Grant Township
Benton County, IN



WETLI GROVE FARMS LLC

BUCHANAN, BRUCE A. ET AL.



McDANIEL, IDA E. TRUST

GOODWINE J. MALCOLM TRUST

(A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5\"/>

* See Typical Cross Section for cross slope correction pavement design.

(A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating

(A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on

Section 7, T24N, R8W
Grant Township
Benton County, IN

(J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25\"/>

(J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating

(J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base

Section 6, T24N, R8W
Grant Township
Benton County, IN

LEGEND

(K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B

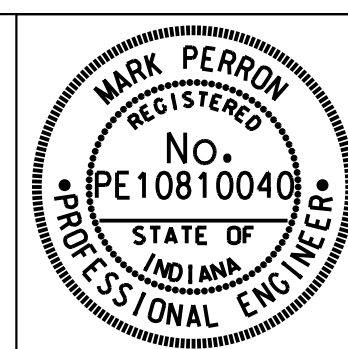
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

(D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B

Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

(B) Begin L.A. R/W
(E) End L.A. R/W

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.
 - For Profile information, see sheets 53 & 54.

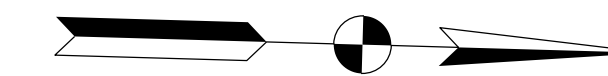


RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
DESIGNED: DCK DRAWN: SJG
CHECKED: MDP CHECKED: DCK

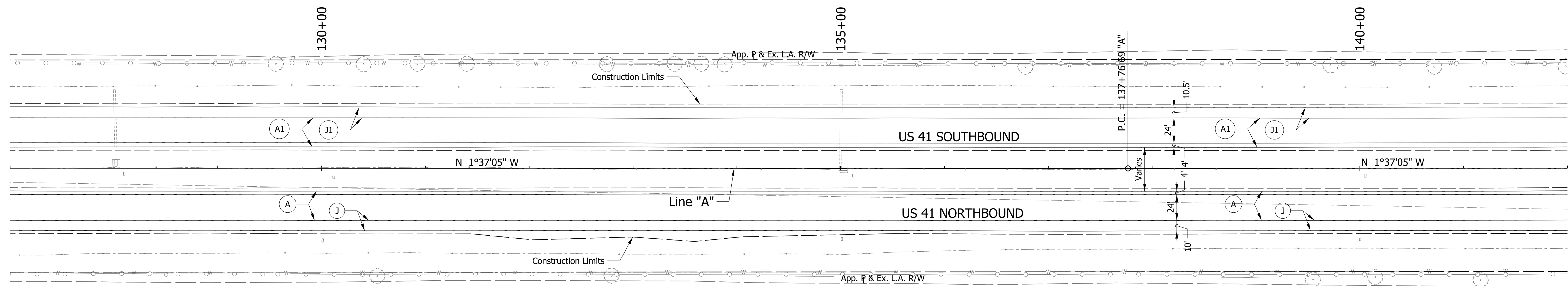
INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET LINE "A" STA. 112+00 TO STA. 127+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 27 of 162
CONTRACT R-32258	PROJECT 0710399

Section 1, T24N, R9W
Grant Township
Benton County, IN



BUCHANAN, BRUCE A. ET AL.



CURVE DATA
PI = 142+76.69 "A"
Delta = 0°10'00" Lt.
D = 0°01'00"
R = 343543.11 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.36 ft
SE = N.C.

LEGEND

GOODWINE J. MALCOLM TRUST

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For
Crown Correction) on Existing HMA Overlay
- * See Typical Cross Section for cross slope correction pavement design.
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on

- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25") on
Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base

- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
- Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

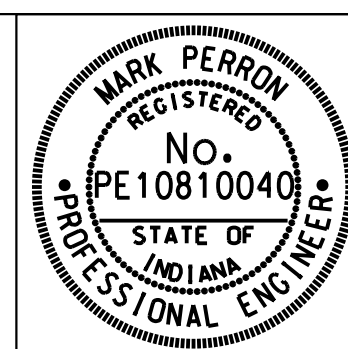
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
- Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

- (B) Begin L.A. R/W
- (E) End L.A. R/W

Notes:

1. Existing Structures to remain in place unless otherwise noted.
2. All R/W described from Line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

Section 6, T24N, R8W
Grant Township
Benton County, IN



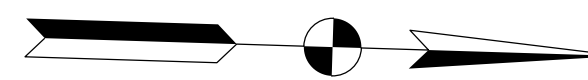
RECOMMENDED FOR APPROVAL
Mark Perron
DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET
LINE "A"
STA. 127+00 TO STA. 142+00

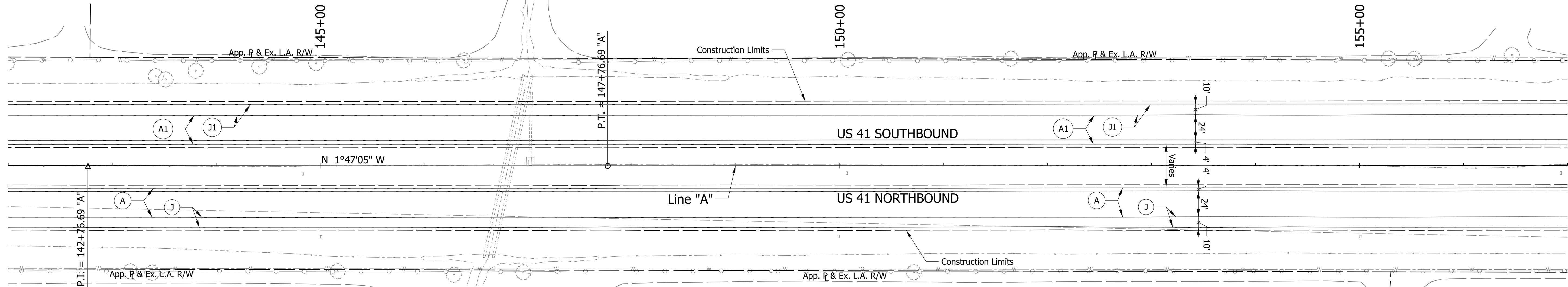
SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 28 of 162
CONTRACT R-32258	PROJECT 0710399

Section 1, T24N, R9W
Grant Township
Benton County, IN



BUCHANAN,
BRUCE A.
ET AL.

MILES, MITCHELL LEE ET UX.



CURVE DATA
PI = 142+76.69 "A"
Delta = 0°10'00" Lt.
D = 0°01'00"
R = 343543.11 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.36 ft
SE = N.C.

GOODWINE J. MALCOLM TRUST

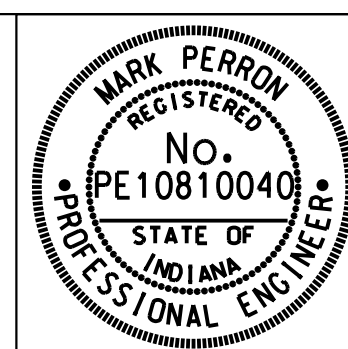
DENNIS J. SONDBERATH, TRUSTEE

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (B) Begin L.A. R/W
- (E) End L.A. R/W

Notes:
1. Existing Structures to remain in place unless otherwise noted.
2. All R/W described from Line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

Section 6, T24N, R8W
Grant Township
Benton County, IN



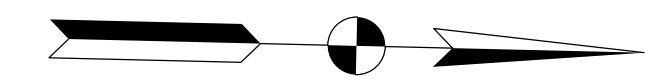
RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
DESIGNED: DCK DRAWN: SJG
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET LINE "A" STA. 142+00 TO STA. 157+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 29 of 162
CONTRACT R-32258	PROJECT 0710399

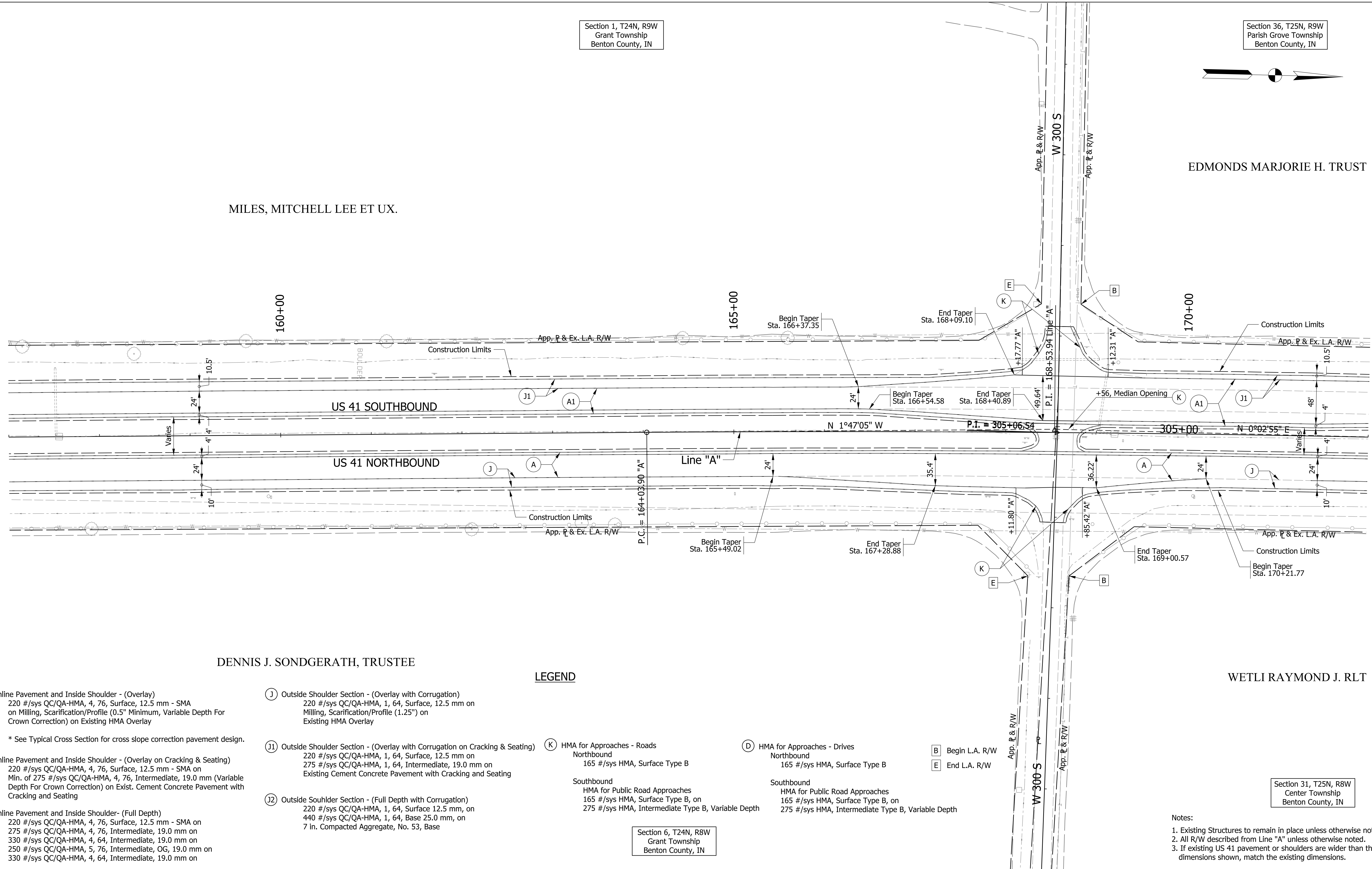
Section 1, T24N, R9W
Grant Township
Benton County, IN

Section 36, T25N, R9W
Parish Grove Township
Benton County, IN



MILES, MITCHELL LEE ET UX.

EDMONDS MARJORIE H. TRUST



DENNIS J. SONDERGATH, TRUSTEE

WETLI RAYMOND J. RLT

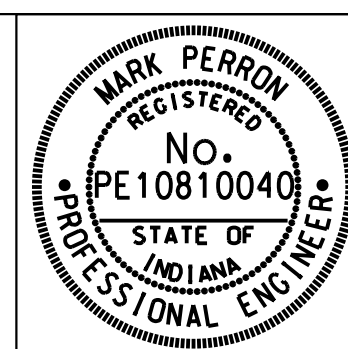
LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (B) Begin L.A. R/W
- (E) End L.A. R/W

Section 6, T24N, R8W
Grant Township
Benton County, IN

Section 31, T25N, R8W
Center Township
Benton County, IN

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

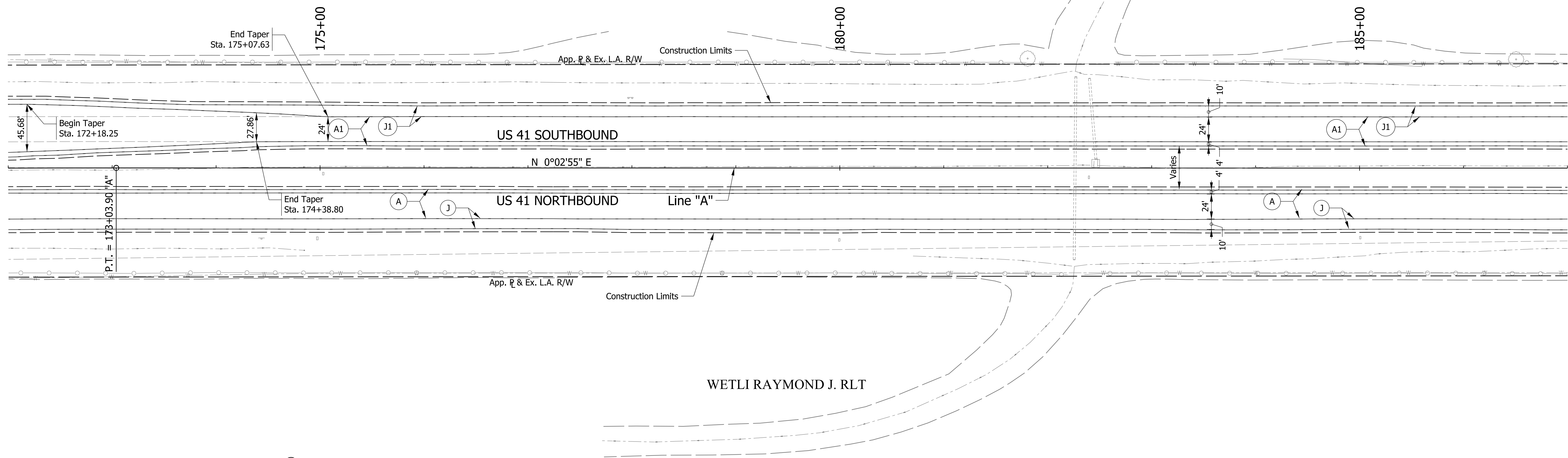
INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET
LINE "A"
STA. 157+00 TO STA. 172+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 30 of 162
CONTRACT R-32258	PROJECT 0710399

Section 36, T25N, R9W
Parish Grove Township
Benton County, IN



EDMONDS MARJORIE H. TRUST



WETLI RAYMOND J. RLT

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For
Crown Correction) on Existing HMA Overlay
- * See Typical Cross Section for cross slope correction pavement design.
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on

- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25") on
Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base

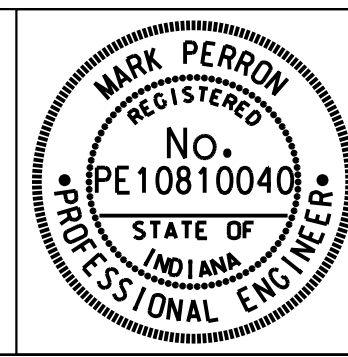
LEGEND

- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

- (B) Begin L.A. R/W
- (E) End L.A. R/W

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

Section 31, T25N, R8W
Center Township
Benton County, IN



RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013
DESIGNED:	DCK	DRAWN:	SJC
CHECKED:	MDP	CHECKED:	DCK

INDIANA
DEPARTMENT OF TRANSPORTATION

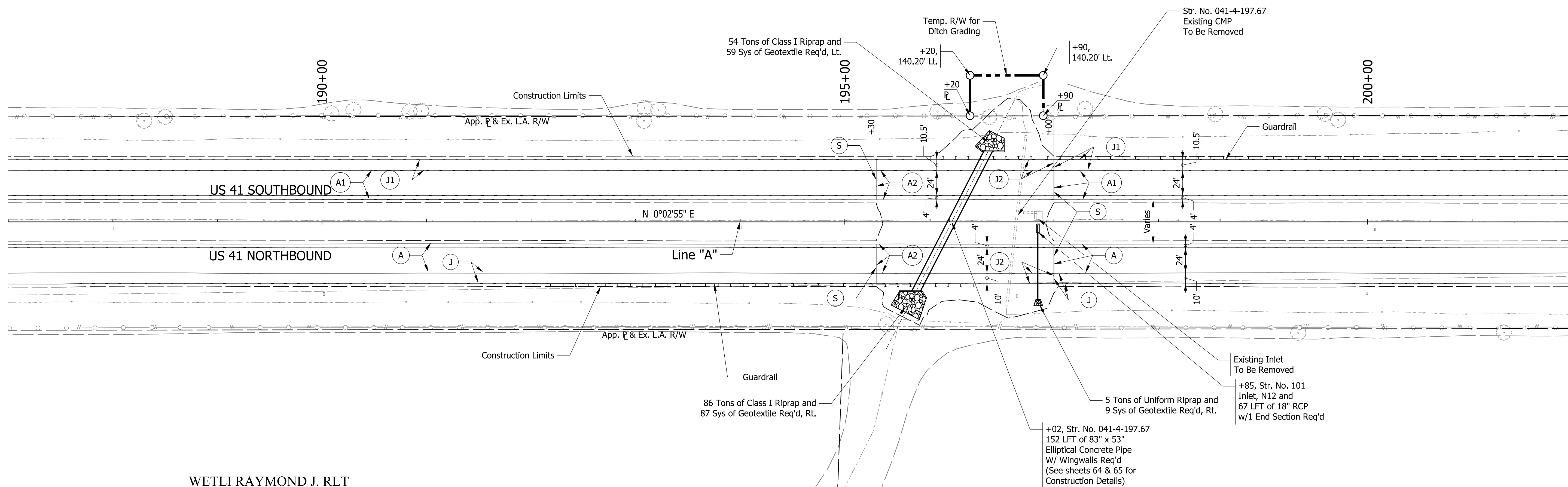
PLAN SHEET
LINE "A"
STA. 172+00 TO STA. 187+00

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	31 of 162
CONTRACT	PROJECT
R-32258	0710399

Section 36, T25N, R9W
Parish Grove Township
Benton County, IN



EDMONDS MARJORIE H. TRUST



WETLI RAYMOND J. RLT

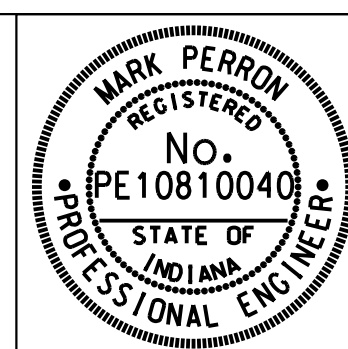
WETLI WILLIAM L. TRUST

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (S) Sawcut
- (B) Begin L.A. R/W
- (E) End L.A. R/W

Section 31, T25N, R8W
Center Township
Benton County, IN

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.
 - For Profile information, see sheets 53 & 54.



RECOMMENDED FOR APPROVAL
Mark Perron
DESIGN ENGINEER
10/04/2013
DATE

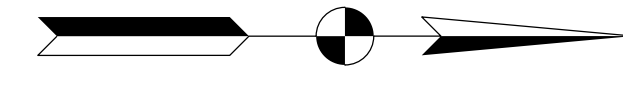
DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LINE "A"
STA. 187+00 TO STA. 202+00

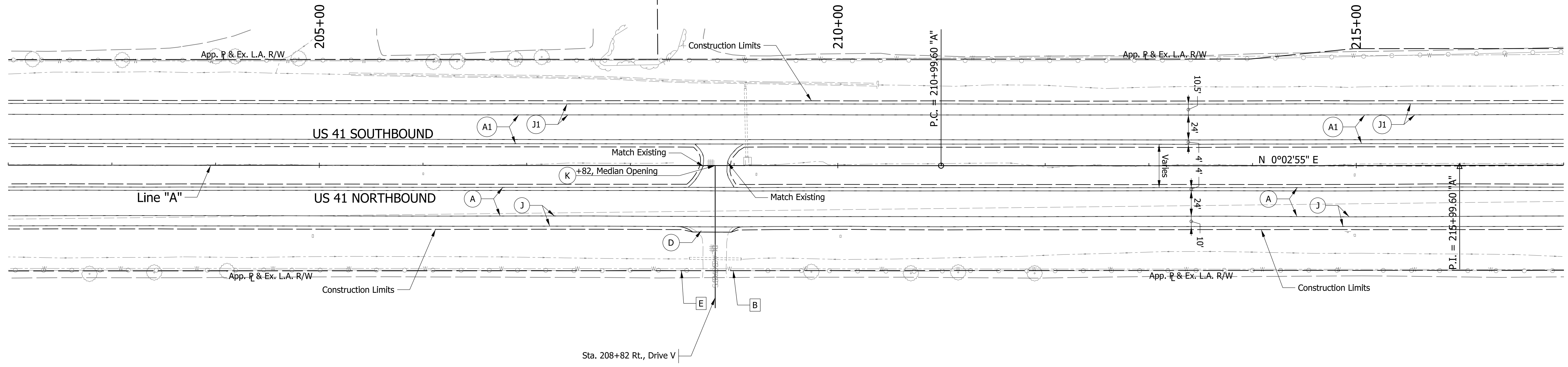
SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 32 of 162
CONTRACT R-32258	PROJECT 0710399

Section 36, T25N, R9W
Parish Grove Township
Benton County, IN



EDMONDS MARJORIE H. TRUST

WETLI JAMES E. TRUST



LEGEND

WETLI WILLIAM L. TRUST

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- * See Typical Cross Section for cross slope correction pavement design.
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on

- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base

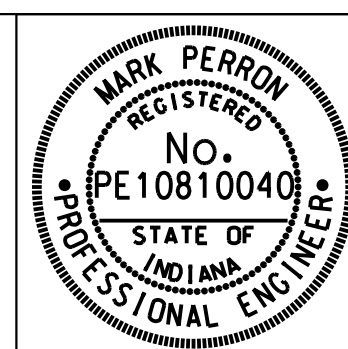
- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth

- (B) Begin L.A. R/W
- (E) End L.A. R/W

Section 31, T25N, R8W
Center Township
Benton County, IN

CURVE DATA
PI = 215+99.60 "A"
Delta = 0°16'00" Lt.
D = 0°01'36"
R = 214949.73 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.58 ft
SE = N.C.

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

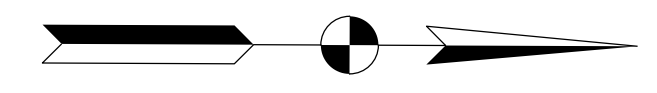
DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET LINE "A" STA. 202+00 TO STA. 217+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 33 of 162
CONTRACT R-32258	PROJECT 0710399

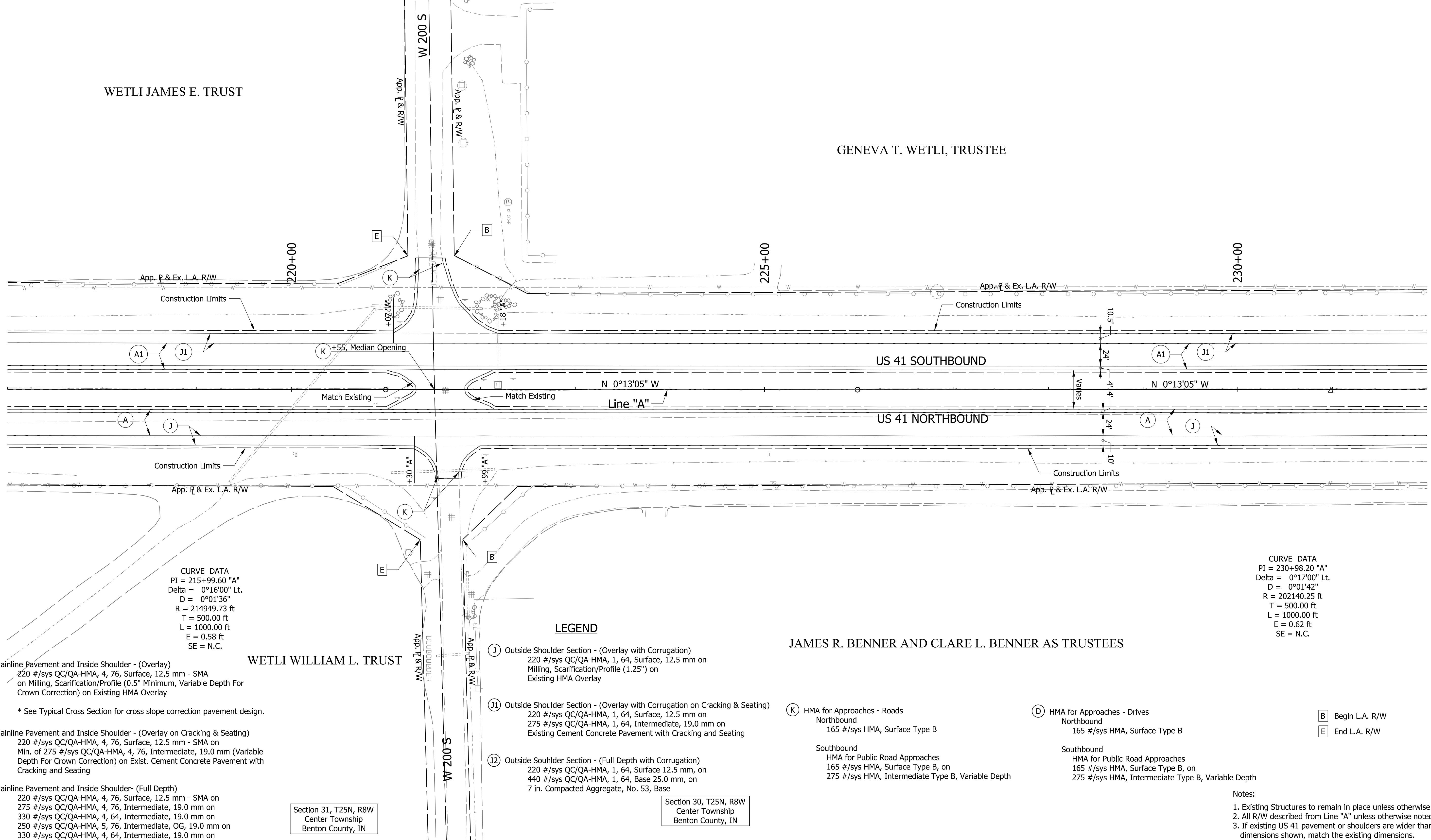
Section 36, T25N, R9W
Parish Grove Township
Benton County, IN

Section 25, T25N, R9W
Parish Grove Township
Benton County, IN



WETLI JAMES E. TRUST

GENEVA T. WETLI, TRUSTEE



CURVE DATA
PI = 215+99.60 "A"
Delta = 0°16'00" Lt.
D = 0°01'36"
R = 214949.73 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.58 ft
SE = N.C.

CURVE DATA
PI = 230+98.20 "A"
Delta = 0°17'00" Lt.
D = 0°01'42"
R = 202140.25 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.62 ft
SE = N.C.

LEGEND

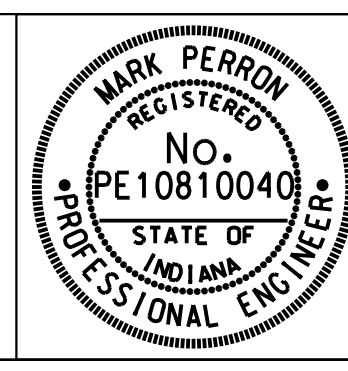
- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (B) Begin L.A. R/W
- (E) End L.A. R/W

* See Typical Cross Section for cross slope correction pavement design.

- Notes:
1. Existing Structures to remain in place unless otherwise noted.
 2. All R/W described from Line "A" unless otherwise noted.
 3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

Section 31, T25N, R8W
Center Township
Benton County, IN

Section 30, T25N, R8W
Center Township
Benton County, IN



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

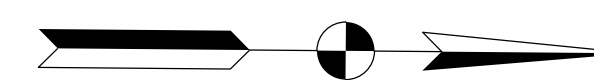
DESIGNED: DCK DRAWN: SJG
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

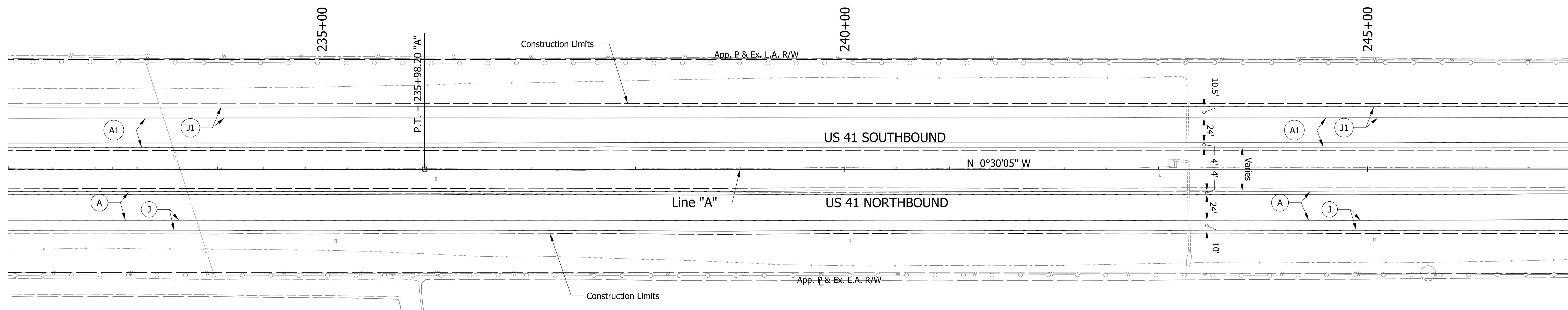
PLAN SHEET LINE "A" STA. 217+00 TO STA. 232+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 34 of 162
CONTRACT R-32258	PROJECT 0710399

Section 25, T25N, R9W
Parish Grove Township
Benton County, IN



GENEVA T. WETLI, TRUSTEE



CURVE DATA
 PI = 230+98.20 "A"
 Delta = 0°17'00" Lt.
 D = 0°01'42"
 R = 202140.25 ft
 T = 500.00 ft
 L = 1000.00 ft
 E = 0.62 ft
 SE = N.C.

JAMES R. BENNER AND CLARE L. BENNER AS TRUSTEES

Section 30, T25N, R8W
Center Township
Benton County, IN

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- * See Typical Cross Section for cross slope correction pavement design.
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on

- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base

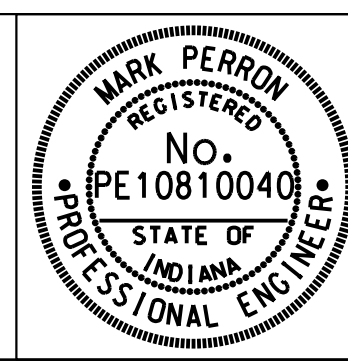
LEGEND

- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth

- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth

- (B) Begin L.A. R/W
- (E) End L.A. R/W

- Notes:**
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.



RECOMMENDED FOR APPROVAL *Mark Perron* 10/04/2013
DESIGN ENGINEER DATE

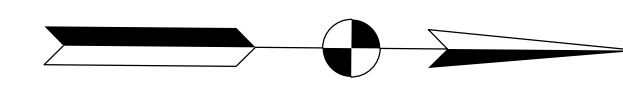
DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LINE "A"
STA. 232+00 TO STA. 247+00

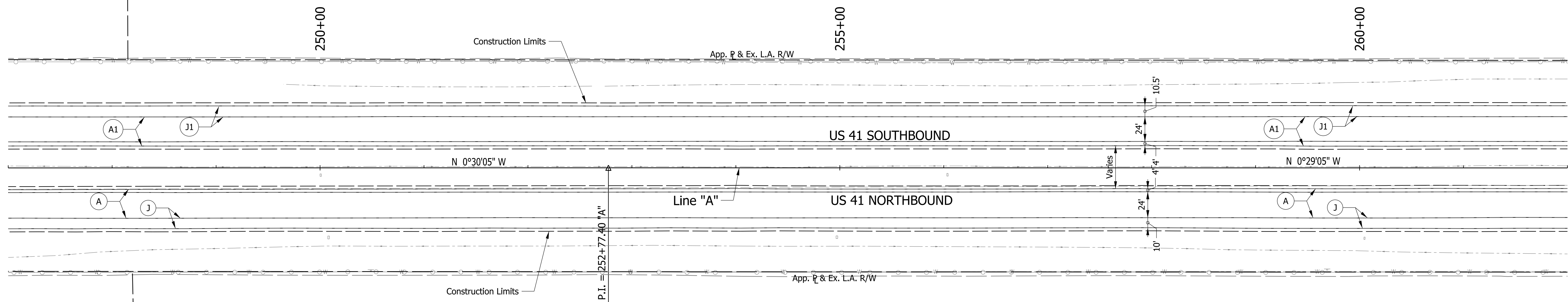
SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 35 of 162
CONTRACT R-32258	PROJECT 0710399

Section 25, T25N, R9W
Parish Grove Township
Benton County, IN



GENEVA T. WETLI,
TRUSTEE

MAXINE M. WETLI, TRUSTEE



JAMES R. BENNER AND CLARE L. BENNER AS TRUSTEES

LEGEND

Section 30, T25N, R8W
Center Township
Benton County, IN

(A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5\"/>

* See Typical Cross Section for cross slope correction pavement design.

(A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating

(A2) Mainline Pavement and Inside Shoulder (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on

(J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25\"/>

(J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating

(J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base

(K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B

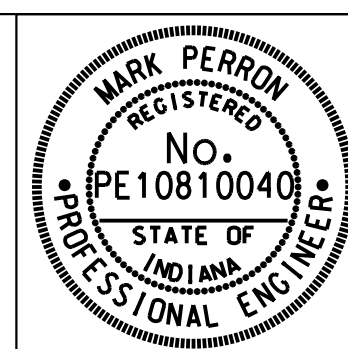
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

(D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B

Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

(B) Begin L.A. R/W
(E) End L.A. R/W

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.



RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013	DATE
DESIGNED:	DCK	DRAWN:	SJC	
CHECKED:	MDP	CHECKED:	DCK	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LINE "A"
STA. 247+00 TO STA. 262+00

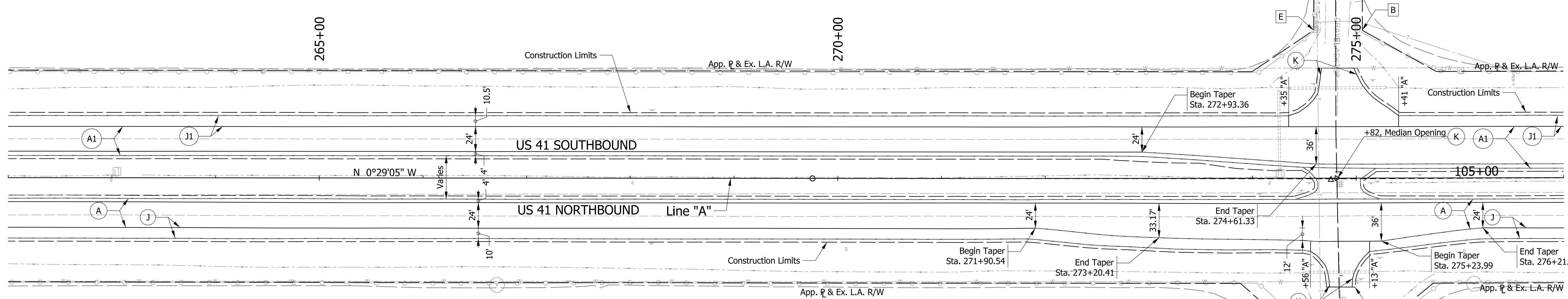
SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	36 of 162
CONTRACT	PROJECT
R-32258	0710399

Section 25, T25N, R9W
Parish Grove Township
Benton County, IN

Section 24, T25N, R9W
Parish Grove Township
Benton County, IN

MAXINE M. WETLI, TRUSTEE

STEPHEN, DENNIS W. ET AL.



JAMES R. BENNER AND CLARE L. BENNER AS TRUSTEES

F & L FARMS FAMILY
LIMITED PARTNERSHIP

LEGEND

(A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For
Crown Correction) on Existing HMA Overlay

(J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25") on
Existing HMA Overlay

* See Typical Cross Section for cross slope correction pavement design.

(A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating

(J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating

(A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on

(J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base

(K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B

Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

(D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B

Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on
275 #/sys HMA, Intermediate Type B, Variable Depth

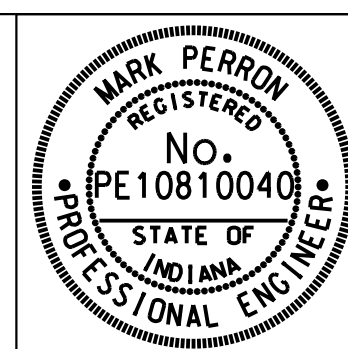
(B) Begin L.A. R/W
(E) End L.A. R/W

Section 30, T25N, R8W
Center Township
Benton County, IN

CURVE DATA
PI = 274+75.59 "A"
Delta = 0°18'30" Lt.
D = 0°01'51"
R = 185756.47 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.67 ft
SE = N.C.

Notes:

- Existing Structures to remain in place unless otherwise noted.
- All R/W described from Line "A" unless otherwise noted.
- If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.



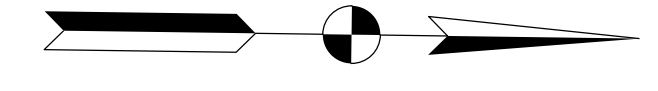
RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013
DESIGNED:	DCK	DRAWN:	SJC
CHECKED:	MDP	CHECKED:	DCK

INDIANA
DEPARTMENT OF TRANSPORTATION

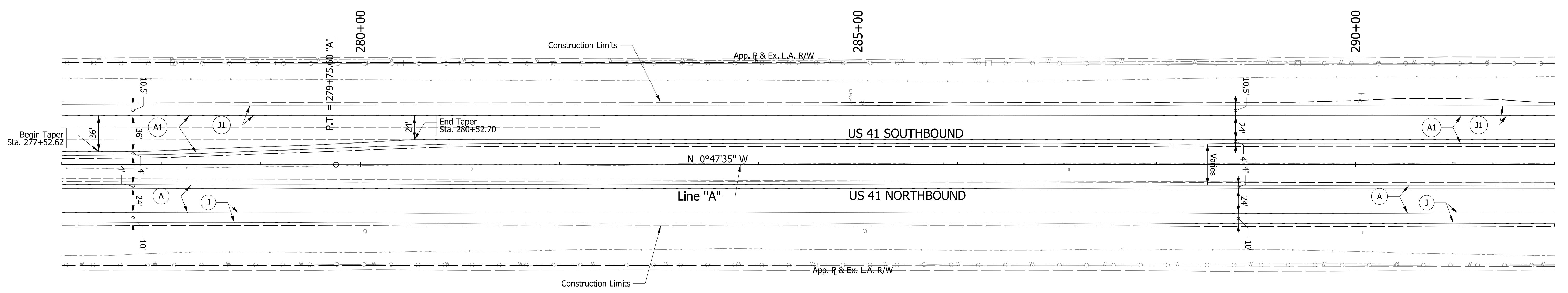
PLAN SHEET
LINE "A"
STA. 262+00 TO STA. 277+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 37 of 162
CONTRACT R-32258	PROJECT 0710399

Section 24, T25N, R9W
Parish Grove Township
Benton County, IN



STEPHEN, DENNIS W. ET AL.



CURVE DATA
PI = 274+75.59 "A"
Delta = 0°18'30" Lt.
D = 0°01'51"
R = 185756.47 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.67 ft
SE = N.C.

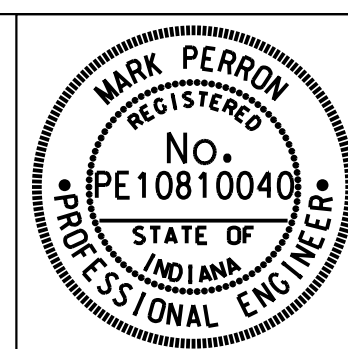
F & L FARMS FAMILY LIMITED PARTNERSHIP

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder- (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Souhlder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (K) HMA for Approaches - Roads
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (D) HMA for Approaches - Drives
Northbound
165 #/sys HMA, Surface Type B
Southbound
HMA for Public Road Approaches
165 #/sys HMA, Surface Type B, on 275 #/sys HMA, Intermediate Type B, Variable Depth
- (B) Begin L.A. R/W
- (E) End L.A. R/W

Section 19, T25N, R8W
Center Township
Benton County, IN

- Notes:**
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

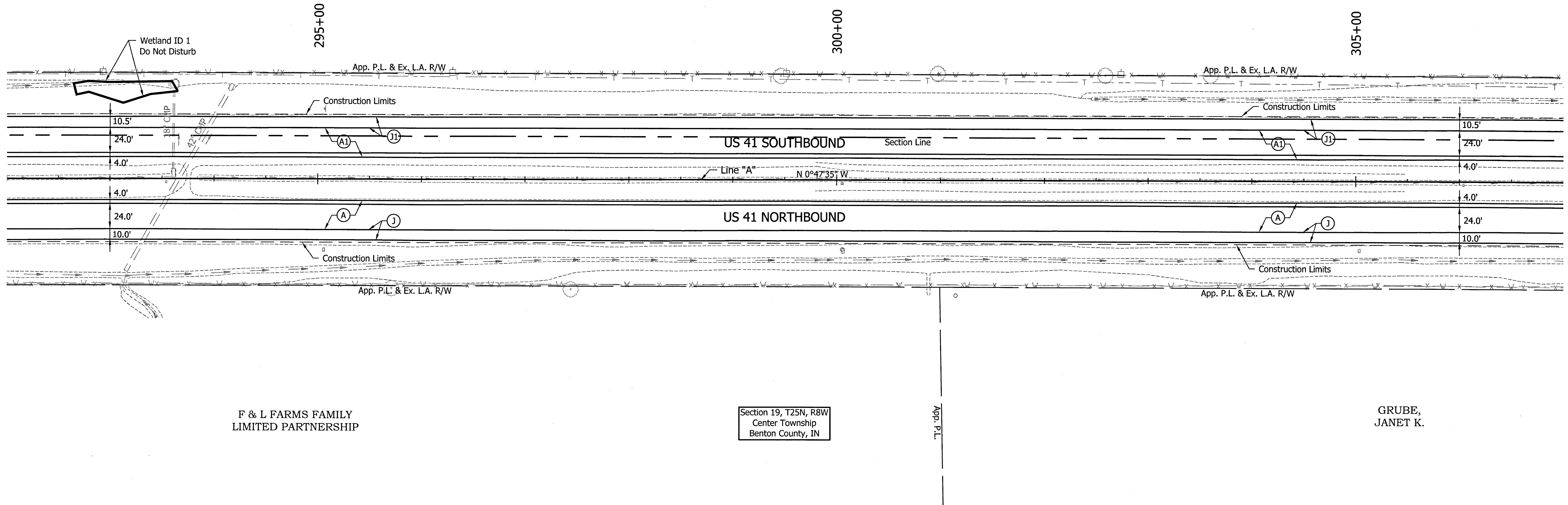
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LINE "A"
STA. 277+00 TO STA. 292+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 38 of 162
CONTRACT R-32258	PROJECT 0710399

Section 24, T25N, R9W
Parish Grove Township
Benton County, IN

STEPHEN, DENNIS W. ET AL.



F & L FARMS FAMILY
LIMITED PARTNERSHIP

Section 19, T25N, R8W
Center Township
Benton County, IN

GRUBE,
JANET K.

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For
Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating

- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25") on
Existing HMA Overlay

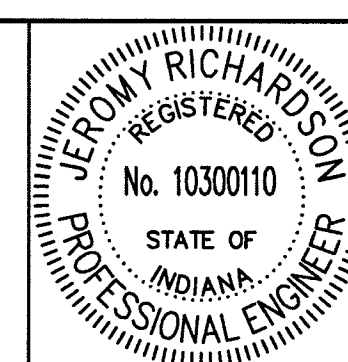
LEGEND

- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm, on
Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay
- (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (S) Sawcut
- (B) Begin L.A. R/W
- (E) End L.A. R/W

NOTES

1. Existing structures to remain in place unless otherwise noted.
2. All R/W described from line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

File Name: \\s04\road\roadbeam3\CD\12-404-02\Road\Draw\Plan US 41.dwg Plot Date: 10/25/2013 Plotted By: Minz, John

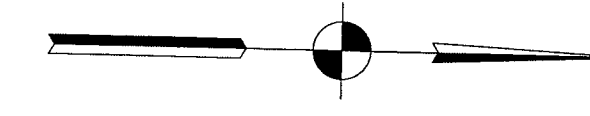


RECOMMENDED FOR APPROVAL	<i>Jeromy A. Richardson</i>	10-25-13
DESIGNED:	HEK	DRAWN: JNII
CHECKED:	WRC	CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET LINE "A"
STA. 292+00 TO STA. 307+00

SCALE	BRIDGE FILE
1" = 50'	-
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
-	39 of 162
CONTRACT	PROJECT
R-32258	0710399



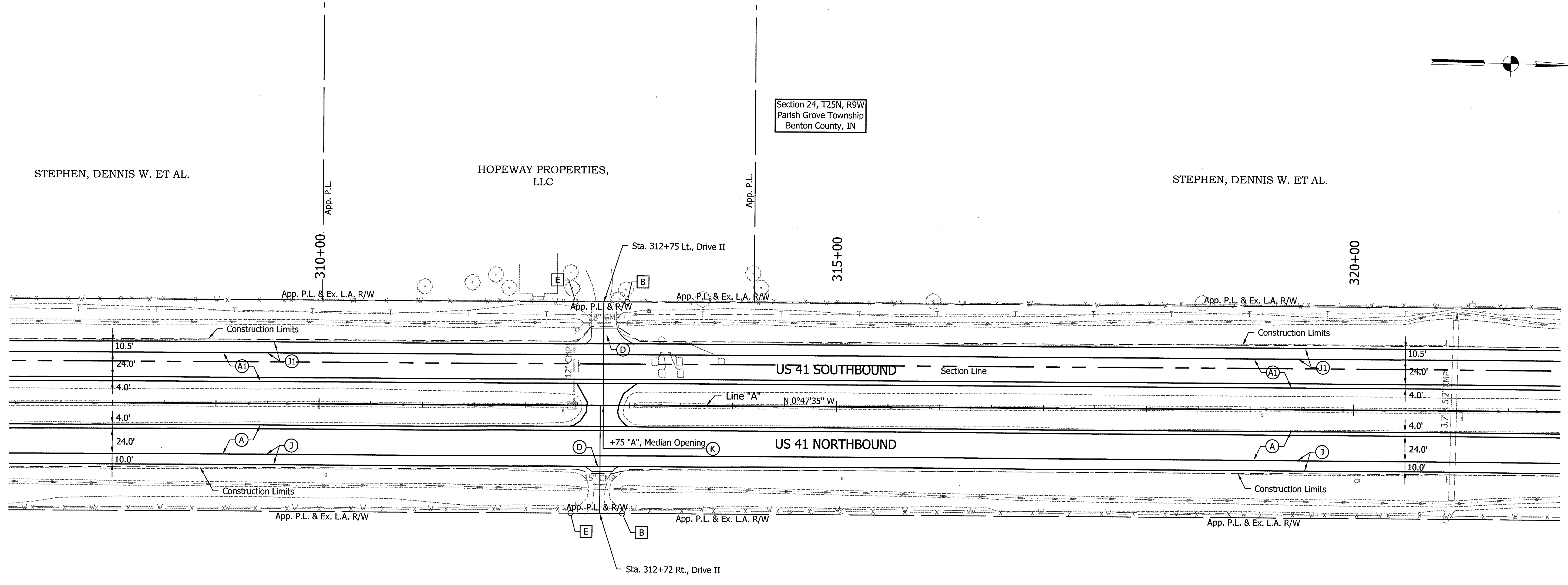
STEPHEN, DENNIS W. ET AL.

HOPEWAY PROPERTIES, LLC

STEPHEN, DENNIS W. ET AL.

Section 24, T25N, R9W
Parish Grove Township
Benton County, IN

Section 19, T25N, R8W
Center Township
Benton County, IN



GRUBE, JANET K.

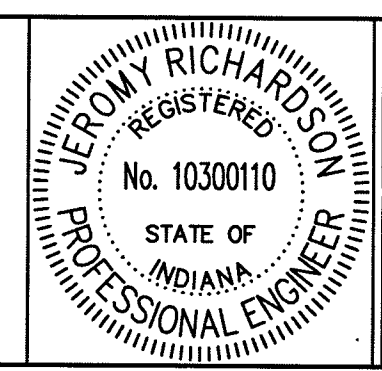
LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (S) Sawcut
- (B) Begin L.A. R/W
- (E) End L.A. R/W

NOTES

1. Existing structures to remain in place unless otherwise noted.
2. All R/W described from line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

File Name: \\ucd046\road\road\road\road\road\CBD\12-104-104\Road\Draw\Plan\US41.dwg Plot Date: 10/25/2013 Plotted By: Minz, John



RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 10-25-13
DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET LINE "A"
STA. 307+00 TO STA. 322+00

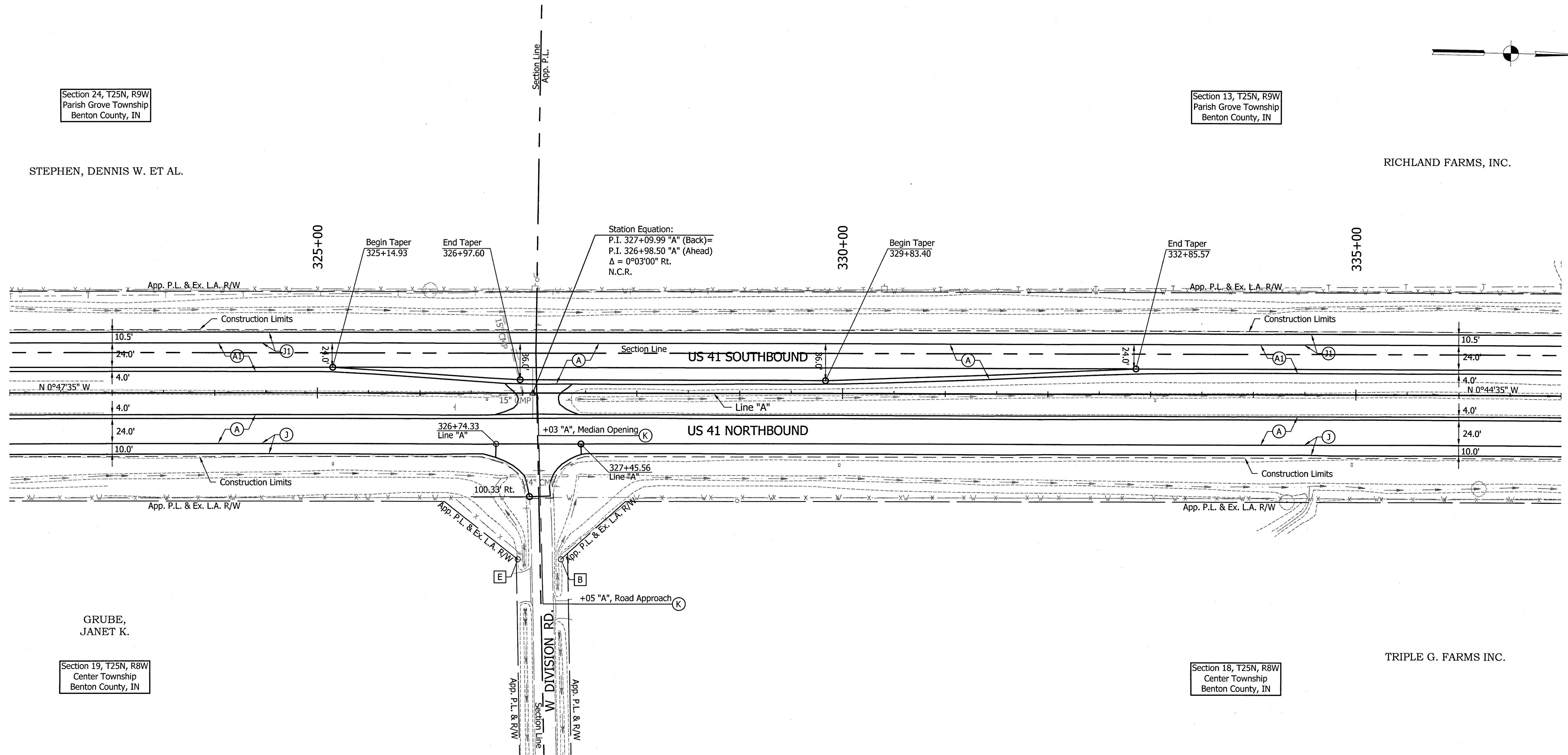
SCALE 1" = 50'	BRIDGE FILE -
	DESIGNATION 0710399
SURVEY BOOK -	SHEETS 40 of 162
CONTRACT R-32258	PROJECT 0710399

Section 24, T25N, R9W
Parish Grove Township
Benton County, IN

Section 13, T25N, R9W
Parish Grove Township
Benton County, IN

STEPHEN, DENNIS W. ET AL.

RICHLAND FARMS, INC.



GRUBE,
JANET K.

Section 19, T25N, R8W
Center Township
Benton County, IN

Section 18, T25N, R8W
Center Township
Benton County, IN

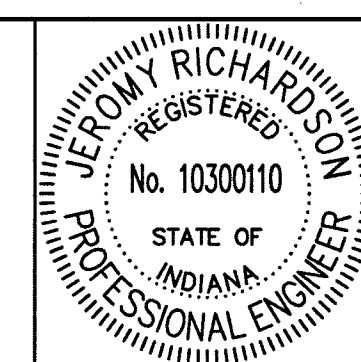
TRIPLE G. FARMS INC.

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For
Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25") on
Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay
- (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (S) Sawcut
- (B) Begin L.A. R/W
- (E) End L.A. R/W

NOTES

1. Existing structures to remain in place unless otherwise noted.
2. All R/W described from line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the
proposed dimensions shown, match the existing dimensions.



RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 10-25-13
DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

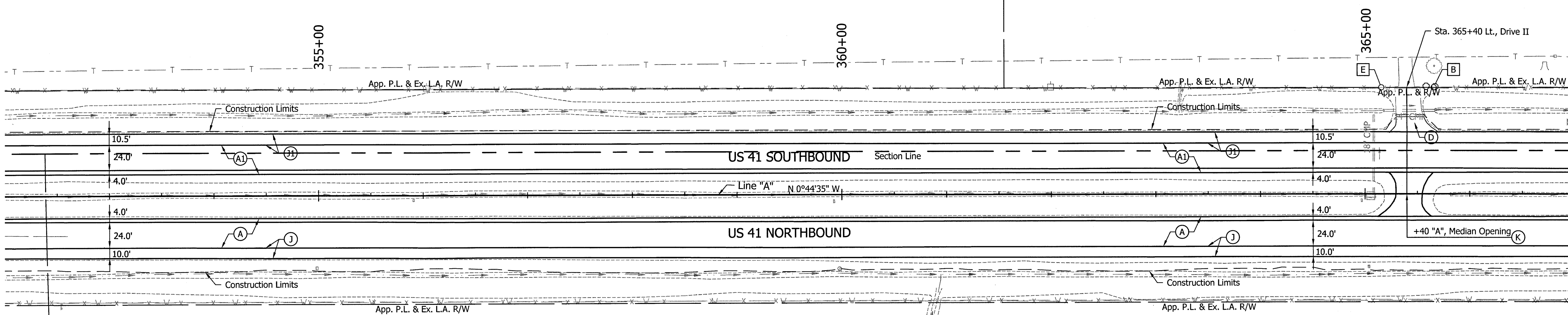
PLAN SHEET LINE "A"
STA. 322+00 TO STA. 337+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS
	41 of 162
CONTRACT R-32258	PROJECT 0710399

Section 13, T25N, R9W
Parish Grove Township
Benton County, IN

GERALD P. BUDREAU TRUST

RICHLAND FARMS, INC.



TRIPLE G. FARMS INC.
App. P.L.

BUDREAU ALICE J. TRUST

Section 18, T25N, R8W
Center Township
Benton County, IN

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For
Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating

- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25") on
Existing HMA Overlay

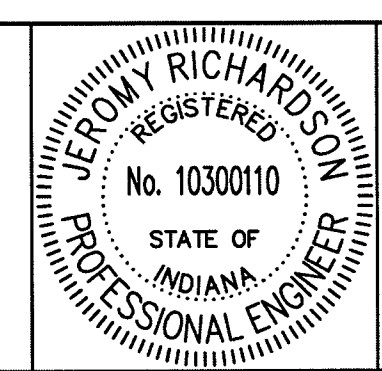
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay

- (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth

- (S) Sawcut
- (B) Begin L.A. R/W
- (E) End L.A. R/W

NOTES

1. Existing structures to remain in place unless otherwise noted.
2. All R/W described from line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.



RECOMMENDED FOR APPROVAL	<i>Jeromy Richardson</i> 10-25-13 DESIGN ENGINEER DATE
DESIGNED: HEK	DRAWN: JNII
CHECKED: WRC	CHECKED: WRC

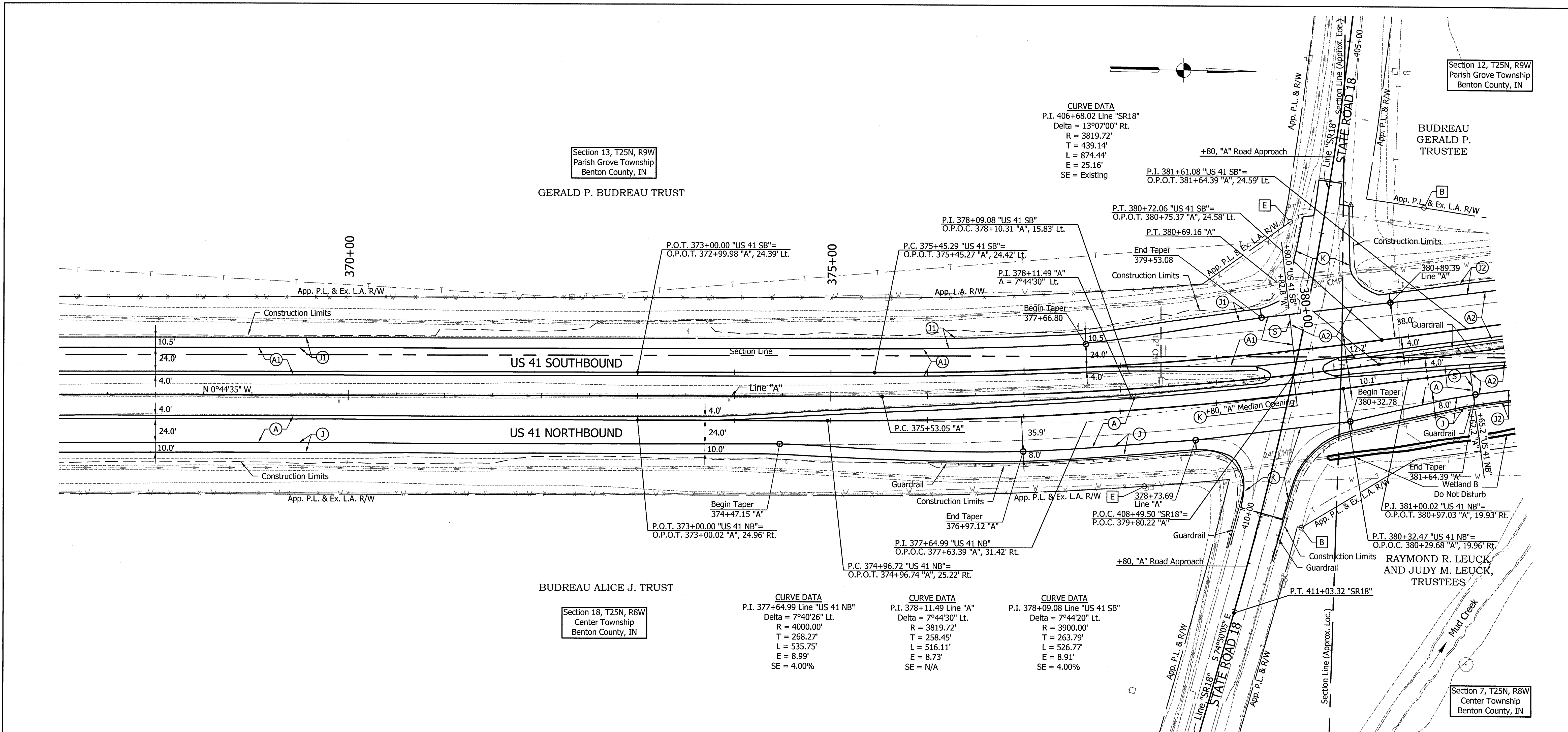
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET LINE "A"
STA. 352+00 TO STA. 367+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 43 of 162
CONTRACT R-32258	PROJECT 0710399

File Name: \\usca0461\road\roadbeam3\C3012-404-102\Road\Draw\Plan\US41.dwg Plot Date: 10/25/2013 Plotted By: Nlmz, John

File Name: \\us04m61\corporate\road\road\plan\12-404-02\road\Draw\Plan_US41.dwg Plot Date: 10/25/2013 Plotted By: Nema, John



Section 13, T25N, R9W
Parish Grove Township
Benton County, IN

GERALD P. BUDREAU TRUST

Section 12, T25N, R9W
Parish Grove Township
Benton County, IN

BUDREAU
GERALD P.
TRUSTEE

BUDREAU ALICE J. TRUST

Section 18, T25N, R8W
Center Township
Benton County, IN

RAYMOND R. LEUCK
AND JUDY M. LEUCK,
TRUSTEES

Section 7, T25N, R8W
Center Township
Benton County, IN

CURVE DATA
P.I. 406+68.02 Line "SR18"
Delta = 13°07'00" Rt.
R = 3819.72'
T = 439.14'
L = 874.44'
E = 25.16'
SE = Existing

CURVE DATA
P.I. 377+64.99 Line "US 41 NB"
Delta = 7°40'26" Lt.
R = 4000.00'
T = 268.27'
L = 535.75'
E = 8.99'
SE = 4.00%

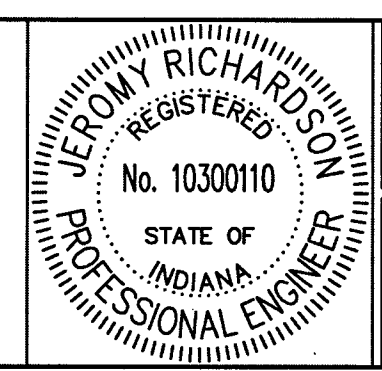
CURVE DATA
P.I. 378+11.49 Line "A"
Delta = 7°44'30" Lt.
R = 3819.72'
T = 258.45'
L = 516.11'
E = 8.73'
SE = N/A

CURVE DATA
P.I. 378+09.08 Line "US 41 SB"
Delta = 7°44'20" Lt.
R = 3900.00'
T = 263.79'
L = 526.77'
E = 8.91'
SE = 4.00%

LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (S) Sawcut
- (B) Begin L.A. R/W
- (E) End L.A. R/W

- NOTES**
- Existing structures to remain in place unless otherwise noted.
 - All R/W described from line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

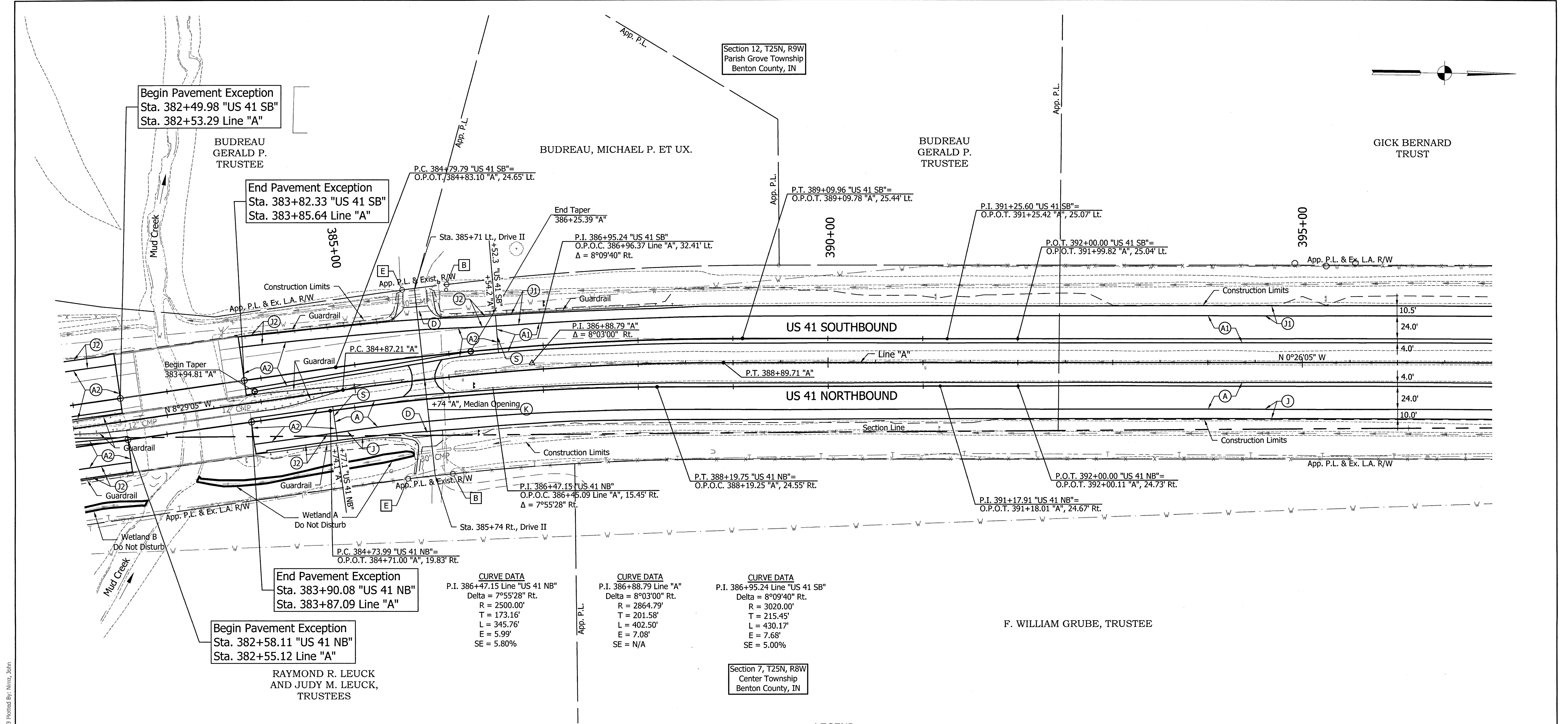


RECOMMENDED FOR APPROVAL: *Jerom Richardson* 10-25-13
DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET LINE "A", "US 41 NB" & "US 41 SB"
STA. 367+00 TO STA. 382+00

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	44 of 162
CONTRACT	PROJECT
R-32258	0710399



- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating

- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay

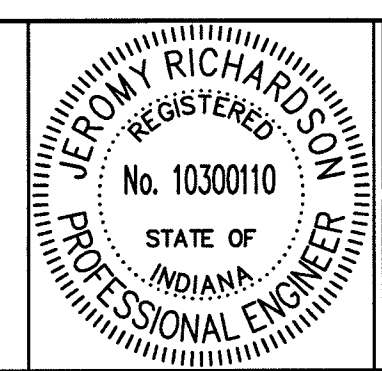
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay

- (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (S) Sawcut
- (B) Begin L.A. R/W
- (E) End L.A. R/W

NOTES

- Existing structures to remain in place unless otherwise noted.
- All R/W described from line "A" unless otherwise noted.
- If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

File Name: \\us04\p04\road\road\beam3\CD012-404-02\Road\Draw\Plans\Plan US41.dwg Plot Date: 10/25/2013 Plotted By: Nintz, John



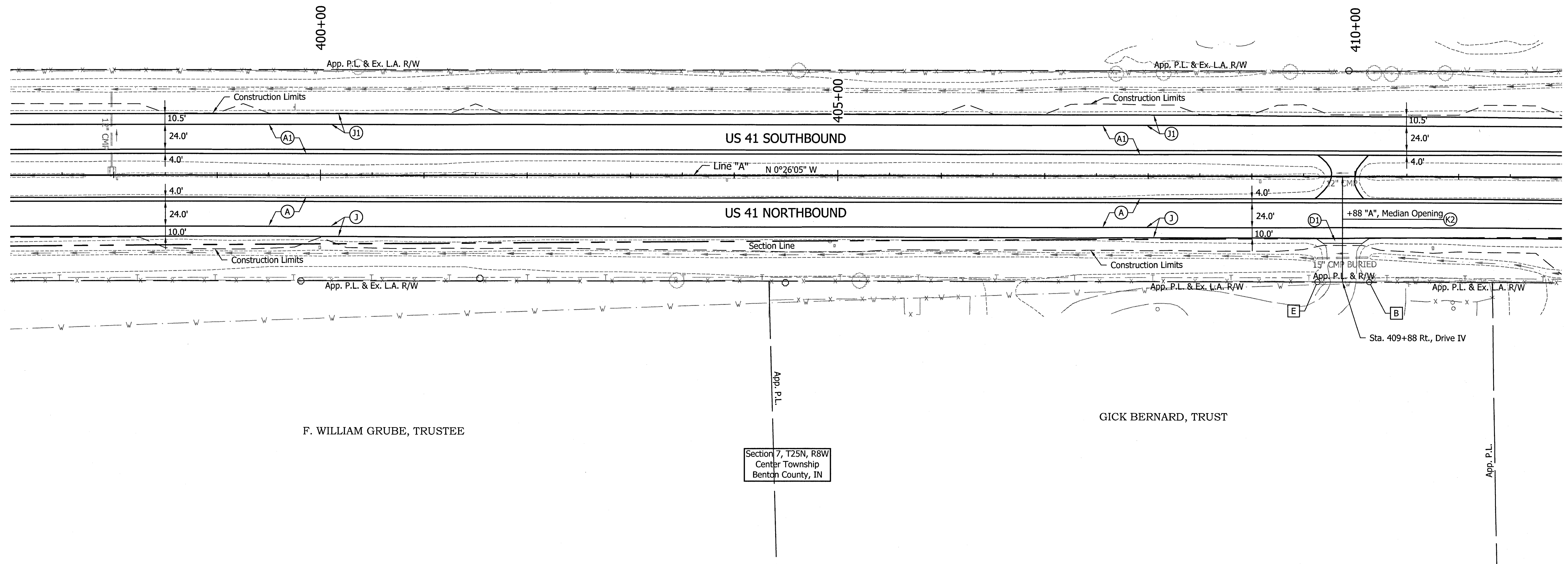
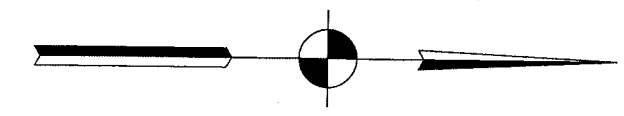
RECOMMENDED FOR APPROVAL	<i>Leroy M. Richardson</i>	DATE	10-25-13
DESIGNED:	HEK	DRAWN:	JNII
CHECKED:	WRC	CHECKED:	WRC

INDIANA
DEPARTMENT OF TRANSPORTATION
PLAN SHEET LINE "A", "US 41 NB" & "US 41 SB"
STA. 382+00 TO STA. 397+00

SCALE	BRIDGE FILE
1" = 50'	-
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
-	45 of 162
CONTRACT	PROJECT
R-32258	0710399

Section 12, T25N, R9W
Parish Grove Township
Benton County, IN

GICK BERNARD
TRUST



F. WILLIAM GRUBE, TRUSTEE

GICK BERNARD, TRUST

Section 7, T25N, R8W
Center Township
Benton County, IN

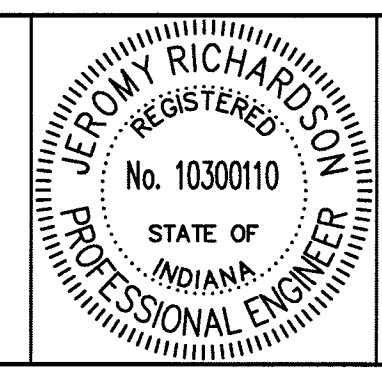
LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
- (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (S) Sawcut
- (B) Begin L.A. R/W
- (E) End L.A. R/W

NOTES

1. Existing structures to remain in place unless otherwise noted.
2. All R/W described from line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

File Name: \\usd046\road\roadbeam3\CD\12-404-02\Road\Plan\US41.dwg Plot Date: 10/25/2013 Plotted By: Jhm, jhm



RECOMMENDED FOR APPROVAL
Jeremy A. Richardson 10-25-13
DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
CHECKED: WRC CHECKED: WRC

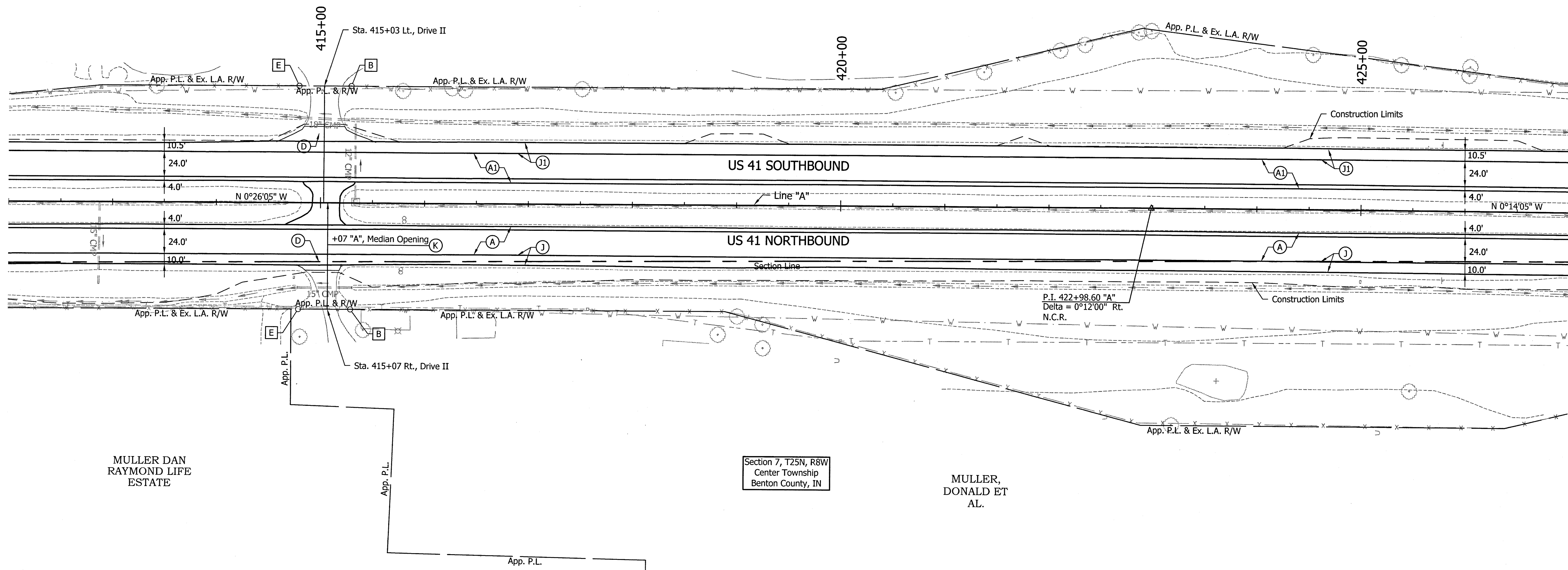
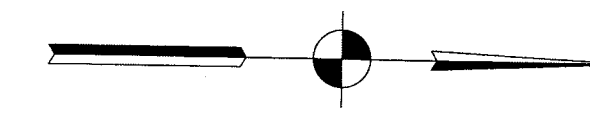
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET LINE "A"
STA. 397+00 TO STA. 412+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 46 of 162
CONTRACT R-32258	PROJECT 0710399

Section 12, T25N, R9W
Parish Grove Township
Benton County, IN

GICK BERNARD
TRUST



MULLER DAN
RAYMOND LIFE
ESTATE

Section 7, T25N, R8W
Center Township
Benton County, IN

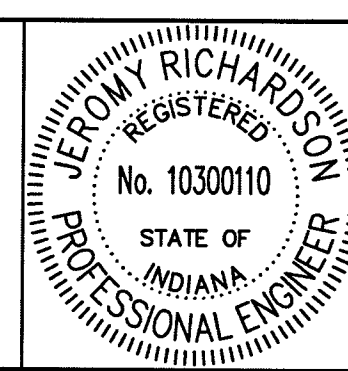
MULLER,
DONALD ET
AL.

- LEGEND**
- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
 - (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
 - (A2) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
 - (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
 - (A3) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
 - (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
 - (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
 - (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
 - (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
 - (S) Sawcut
 - (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
 - (B) Begin L.A. R/W
 - (E) End L.A. R/W

NOTES

1. Existing structures to remain in place unless otherwise noted.
2. All R/W described from line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

File Name: \\usd\hwy\road\roadbeam3\CID\12-404-02\Road\Draw\Plans\Plan_US11.dwg Plot Date: 10/25/2013 Plotted By: Nimz, John



RECOMMENDED FOR APPROVAL	<i>Jeremy Richardson</i>	10-25-13
DESIGNED:	HEK	DRAWN: JNII
CHECKED:	WRC	CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET LINE "A"
STA. 412+00 TO STA. 427+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 47 of 162
CONTRACT R-32258	PROJECT 0710399

Section 12, T25N, R9W
Parish Grove Township
Benton County, IN

GICK BERNARD TRUST

Section 1, T25N, R9W
Parish Grove Township
Benton County, IN

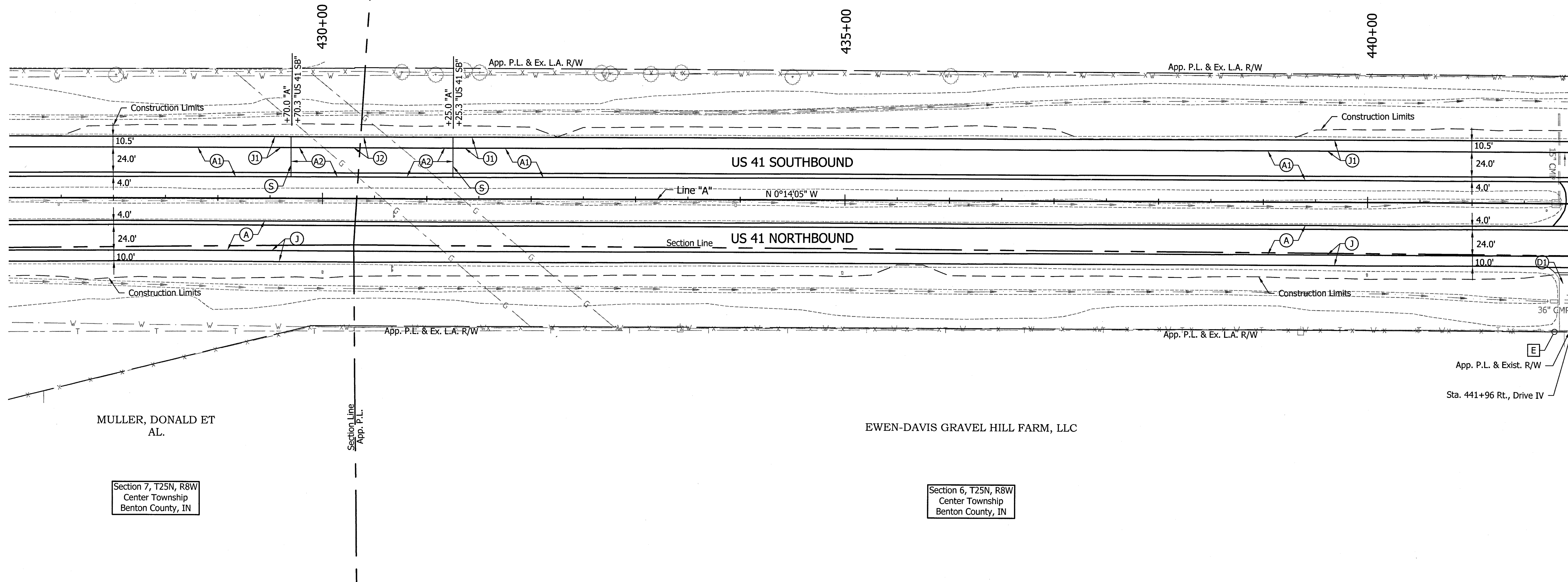
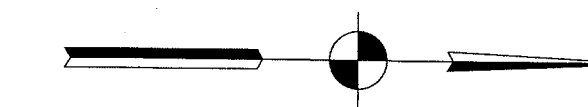
JANE ANN SCHLOTMAN AND
MARK J. HEINEN,
CO-TRUSTEES

MULLER, DONALD ET AL.

Section 7, T25N, R8W
Center Township
Benton County, IN

EWEN-DAVIS GRAVEL HILL FARM, LLC

Section 6, T25N, R8W
Center Township
Benton County, IN



(A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5\"/>

(A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating

(A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm

(A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5\"/>

(J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25\"/>

LEGEND

(J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating

(J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base

(J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5\"/>

(K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B

Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth

(D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B

Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth

(S) Sawcut

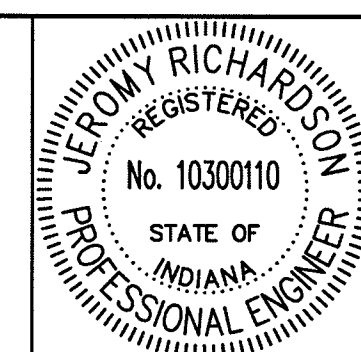
(B) Begin L.A. R/W

(E) End L.A. R/W

NOTES

- Existing structures to remain in place unless otherwise noted.
- All R/W described from line "A" unless otherwise noted.
- If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

File Name: \\us04h5\road\road\hazam3\CDD\12-404-00\Road\Draw\Plans\Plan_US41.dwg Plot Date: 10/25/2013 Plotted By: Nima, John



RECOMMENDED FOR APPROVAL	<i>Jeremy Richardson</i> 10-25-13
DESIGN ENGINEER	DATE
DESIGNED: HEK	DRAWN: JNII
CHECKED: WRC	CHECKED: WRC

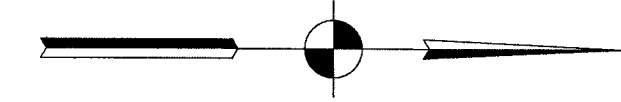
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN SHEET LINE "A"
STA. 427+00 TO STA. 442+00

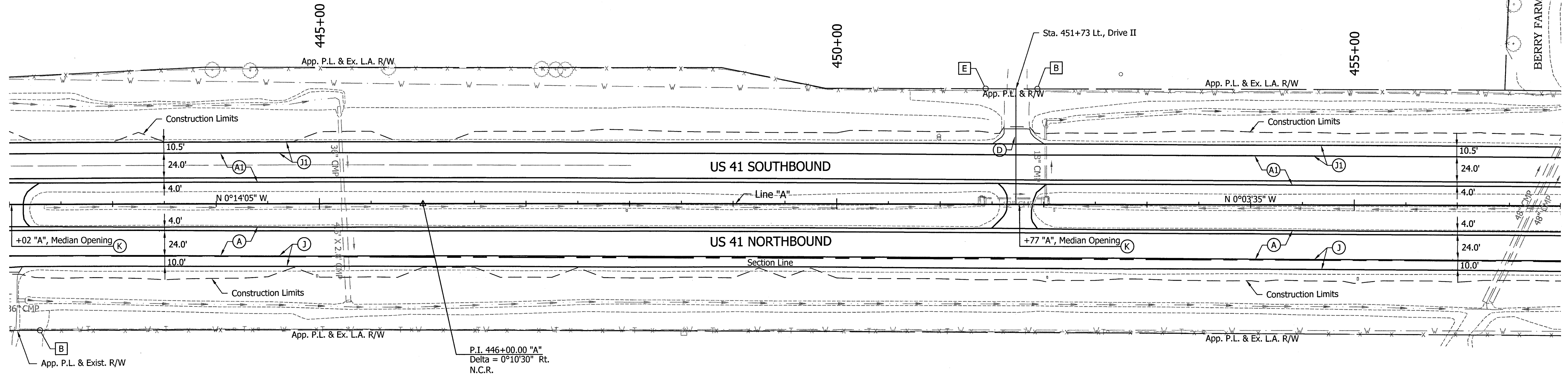
SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	48 of 162
CONTRACT	PROJECT
R-32258	0710399

Section 1, T25N, R9W
Parish Grove Township
Benton County, IN

JANE ANN
SCHLOTMAN AND
MARK J. HEINEN,
CO-TRUSTEES



BERRY FARMS OF FOWLER INC.



P.I. 446+00.00 "A"
Delta = 0°10'30" Rt.
N.C.R.

EWEN-DAVIS GRAVEL HILL FARM, LLC

Section 6, T25N, R8W
Center Township
Benton County, IN

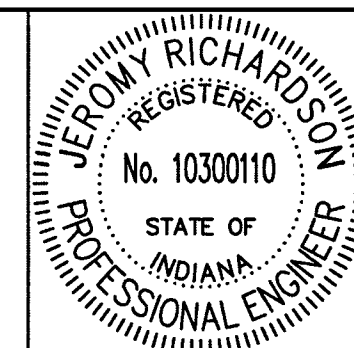
LEGEND

- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For
Crown Correction) on Existing HMA Overlay
- (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating
- (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
- (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay
- (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25") on
Existing HMA Overlay
- (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating
- (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base
- (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay
- (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
- (S) Sawcut
- (B) Begin L.A. R/W
- (E) End L.A. R/W

NOTES

1. Existing structures to remain in place unless otherwise noted.
2. All R/W described from line "A" unless otherwise noted.
3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

File Name: \\ves045\road\proj\beam3\CD\12-404-02\Road\Draw\Plan US41.dwg Plot Date: 10/25/2013 Plotted By: Nincz, John

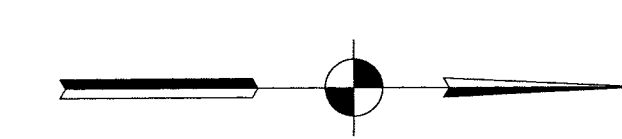


RECOMMENDED FOR APPROVAL	<i>Jeromy Richardson</i> 10-25-13
DESIGN ENGINEER	DATE
DESIGNED: HEK	DRAWN: JNII
CHECKED: WRC	CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET LINE "A"
STA. 442+00 TO STA. 457+00

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	49 of 162
CONTRACT	PROJECT
R-32258	0710399



Section 1, T25N, R9W
Parish Grove Township
Benton County, IN

Section 36, T26N, R9W
Richland Township
Benton County, IN

H & I BUDREAU
FAMILY FARMS, LLC

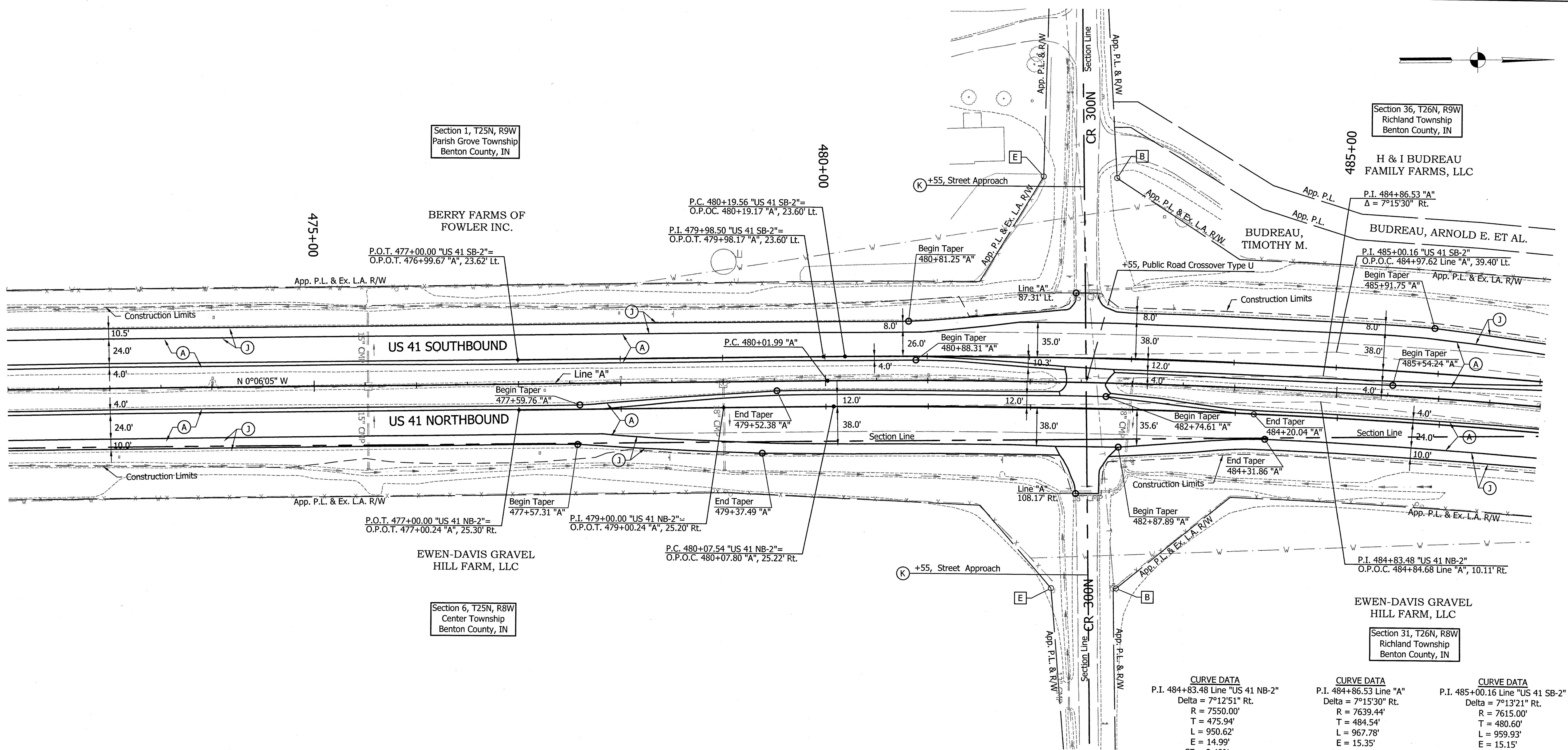
BUDREAU,
TIMOTHY M.

BUDREAU, ARNOLD E. ET AL.

EWEN-DAVIS GRAVEL
HILL FARM, LLC

EWEN-DAVIS GRAVEL
HILL FARM, LLC

Section 31, T26N, R8W
Richland Township
Benton County, IN



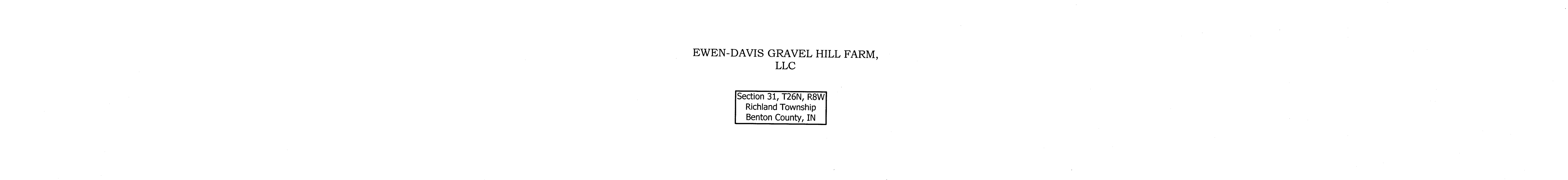
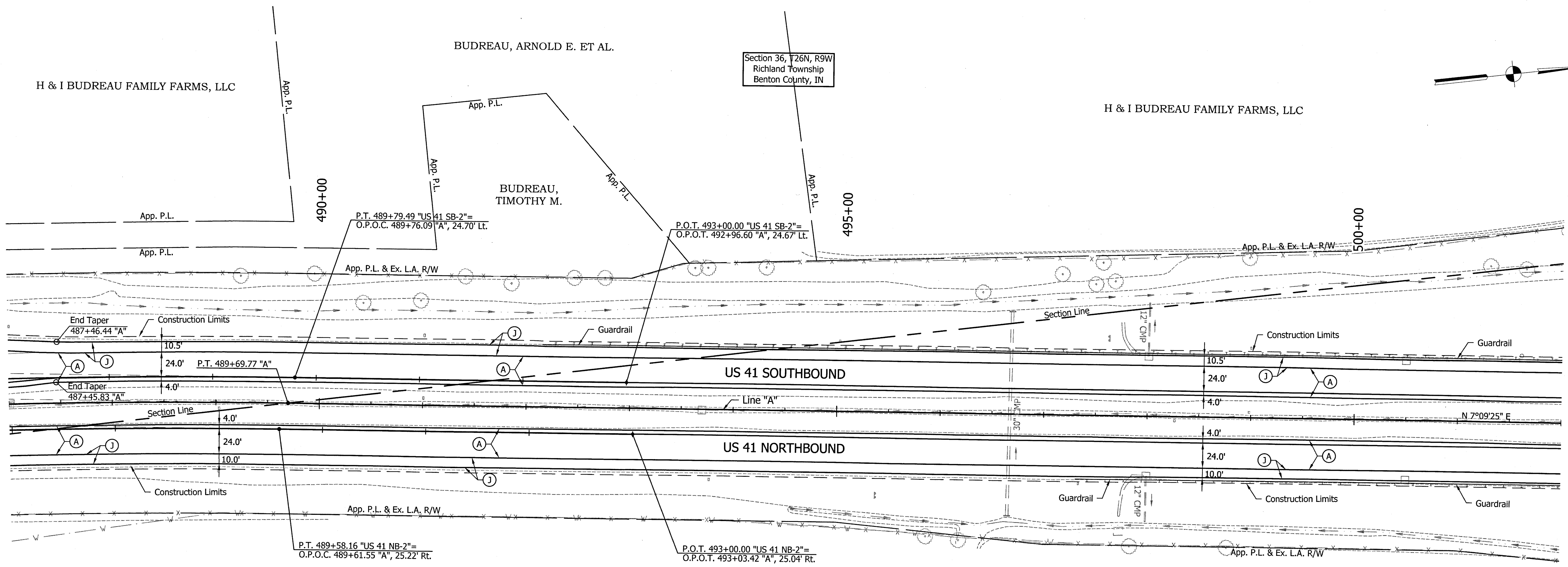
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P.I. 484+83.48 Line "US 41 NB-2" Delta = 7°12'51" Rt. R = 7550.00' T = 475.94' L = 950.62' E = 14.99' SE = 2.40%	P.I. 484+86.53 Line "A" Delta = 7°15'30" Rt. R = 7639.44' T = 484.54' L = 967.78' E = 15.35' SE = N/A	P.I. 485+00.16 Line "US 41 SB-2" Delta = 7°13'21" Rt. R = 7615.00' T = 480.60' L = 959.93' E = 15.15' SE = 2.40%

- LEGEND**
- (A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
 - (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
 - (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
 - (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
 - (J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
 - (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
 - (J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
 - (J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
 - (K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B
Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
 - (D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B
Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth
 - (S) Sawcut
 - (B) Begin L.A. R/W
 - (E) End L.A. R/W

- NOTES**
- Existing structures to remain in place unless otherwise noted.
 - All R/W described from line "A" unless otherwise noted.
 - If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

File Name: \\usd04feyoadroad\road\am3\CD\12-04-02\Road\Draw\Plans\Plan_US41.dwg Plot Date: 10/25/2013 Plotted By: Nimz, John

	RECOMMENDED FOR APPROVAL <i>Jerry M. Richardson</i> 10-25-13 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION PLAN SHEET LINE "A", "US41 NB-2", & "US41 SB-2" STA. 472+00 TO STA. 487+00	SCALE 1" = 50'	BRIDGE FILE
	DESIGNED: HEK DRAWN: JNII		SURVEY BOOK	SHEETS
CHECKED: WRC CHECKED: WRC	CONTRACT R-32258	51 of 162	PROJECT 0710399	



- LEGEND**
- (A) Mainline Pavement and Inside Shoulder - (Overlay)
 - 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For Crown Correction) on Existing HMA Overlay
 - (A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
 - 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth For Crown Correction) on Exist. Cement Concrete Pavement with Cracking and Seating
 - (A2) Mainline Pavement and Inside Shoulder - (Full Depth)
 - 220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on 250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on 330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm
 - (A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
 - 220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
 - (J) Outside Shoulder Section - (Overlay with Corrugation)
 - 220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on Milling, Scarification/Profile (1.25") on Existing HMA Overlay
 - (J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
 - 220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on Existing Cement Concrete Pavement with Cracking and Seating
 - (J2) Outside Shoulder Section - (Full Depth with Corrugation)
 - 220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on 440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on 7 in. Compacted Aggregate, No. 53, Base
 - (J3) Outside Shoulder Section - (Overlay with Corrugation)
 - 220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm (Variable Depth) on Milling, Scarification/Profile (0.5") on Existing HMA Overlay
 - (K) HMA For Approaches - Roads
 - Northbound 165 #/sys HMA, Surface, Type B
 - Southbound and Median Openings 220 #/sys HMA, Surface, Type B 275 #/sys HMA, Intermediate, Type B, Variable Depth
 - (D) HMA For Approaches - Drives
 - Northbound 165 #/sys HMA, Surface, Type B
 - Southbound 220 #/sys HMA, Surface, Type B 275 #/sys HMA, Intermediate, Type B, Variable Depth
 - (S) Sawcut
 - (B) Begin L.A. R/W
 - (E) End L.A. R/W

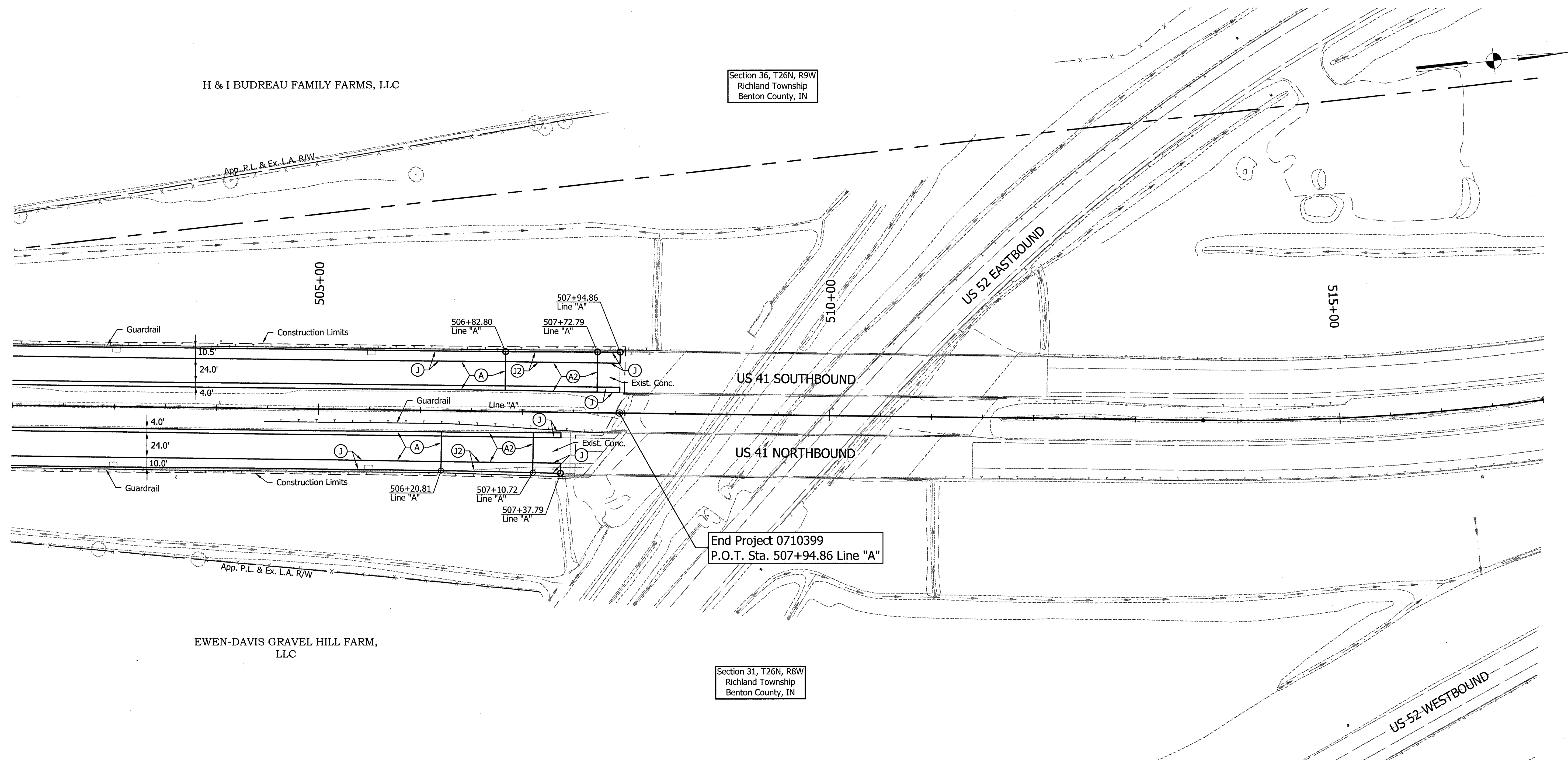
- NOTES**
1. Existing structures to remain in place unless otherwise noted.
 2. All R/W described from line "A" unless otherwise noted.
 3. If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

	RECOMMENDED FOR APPROVAL		10-25-13	INDIANA DEPARTMENT OF TRANSPORTATION		SCALE 1" = 50'	BRIDGE FILE
	DESIGNED: HEK	DRAWN: JNII	DATE	PLAN SHEET LINE "A", "US41 NB-2", & "US41 SB-2" STA. 487+00 TO STA. 502+00		SURVEY BOOK	SHEETS
CHECKED: WRC	CHECKED: WRC			CONTRACT	PROJECT	52 of 162	0710399
				R-32258			0710399

File Name: \\usd\dfs\road\projects\31266\04-04-04\Road\Draw\Plans\Plan_L511.dwg Plot Date: 10/25/2013 10:13:30 AM Plotted By: Nimz, John

H & I BUDREAU FAMILY FARMS, LLC

Section 36, T26N, R9W
Richland Township
Benton County, IN



EWEN-DAVIS GRAVEL HILL FARM, LLC

Section 31, T26N, R8W
Richland Township
Benton County, IN

End Project 0710399
P.O.T. Sta. 507+94.86 Line "A"

(A) Mainline Pavement and Inside Shoulder - (Overlay)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA
on Milling, Scarification/Profile (0.5" Minimum, Variable Depth For
Crown Correction) on Existing HMA Overlay

(A1) Mainline Pavement and Inside Shoulder - (Overlay on Cracking & Seating)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Min. of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm (Variable
Depth For Crown Correction) on Exist. Cement Concrete Pavement with
Cracking and Seating

(A2) Mainline Pavement and Inside Shoulder - (Full Depth)
220 #/sys QC/QA-HMA, 4, 76 Surface, 12.5 mm - SMA on
275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm on
250 #/sys QC/QA-HMA, 5, 76, Intermediate, OG, 19.0 mm on
330 #/sys QC/QA-HMA, 4, 64, Intermediate, 19.0 mm

(A3) Mainline Pavement and Inside Shoulder - (Superelevation Correction)
220 #/sys QC/QA-HMA, 4, 76, Surface, 12.5 mm - SMA on
Minimum of 275 #/sys QC/QA-HMA, 4, 76, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay

(J) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
Milling, Scarification/Profile (1.25") on
Existing HMA Overlay

(J1) Outside Shoulder Section - (Overlay with Corrugation on Cracking & Seating)
220 #/sys QC/QA-HMA, 1, 64, Surface, 12.5 mm on
275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm on
Existing Cement Concrete Pavement with Cracking and Seating

(J2) Outside Shoulder Section - (Full Depth with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
440 #/sys QC/QA-HMA, 1, 64, Base, 25.0 mm, on
7 in. Compacted Aggregate, No. 53, Base

(J3) Outside Shoulder Section - (Overlay with Corrugation)
220 #/sys QC/QA-HMA, 1, 64, Surface 12.5 mm, on
Minimum of 275 #/sys QC/QA-HMA, 1, 64, Intermediate, 19.0 mm
(Variable Depth) on Milling, Scarification/Profile (0.5") on
Existing HMA Overlay

(K) HMA For Approaches - Roads
Northbound
165 #/sys HMA, Surface, Type B

Southbound and Median Openings
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth

(D) HMA For Approaches - Drives
Northbound
165 #/sys HMA, Surface, Type B

Southbound
220 #/sys HMA, Surface, Type B
275 #/sys HMA, Intermediate, Type B, Variable Depth

(S) Sawcut

(B) Begin L.A. R/W

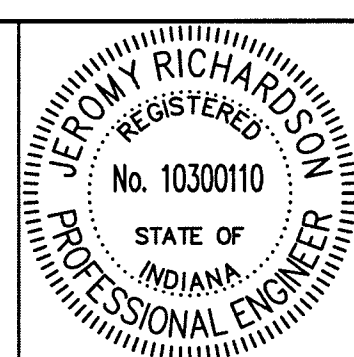
(E) End L.A. R/W

LEGEND

NOTES

- Existing structures to remain in place unless otherwise noted.
- All R/W described from line "A" unless otherwise noted.
- If existing US 41 pavement or shoulders are wider than the proposed dimensions shown, match the existing dimensions.

File Name: \\usd\hfs\road\roadbeam3\C31012-404-02\road\Draw\Plan\US41.dwg Plot Date: 11/4/2013 Plotted By: Nimz, John

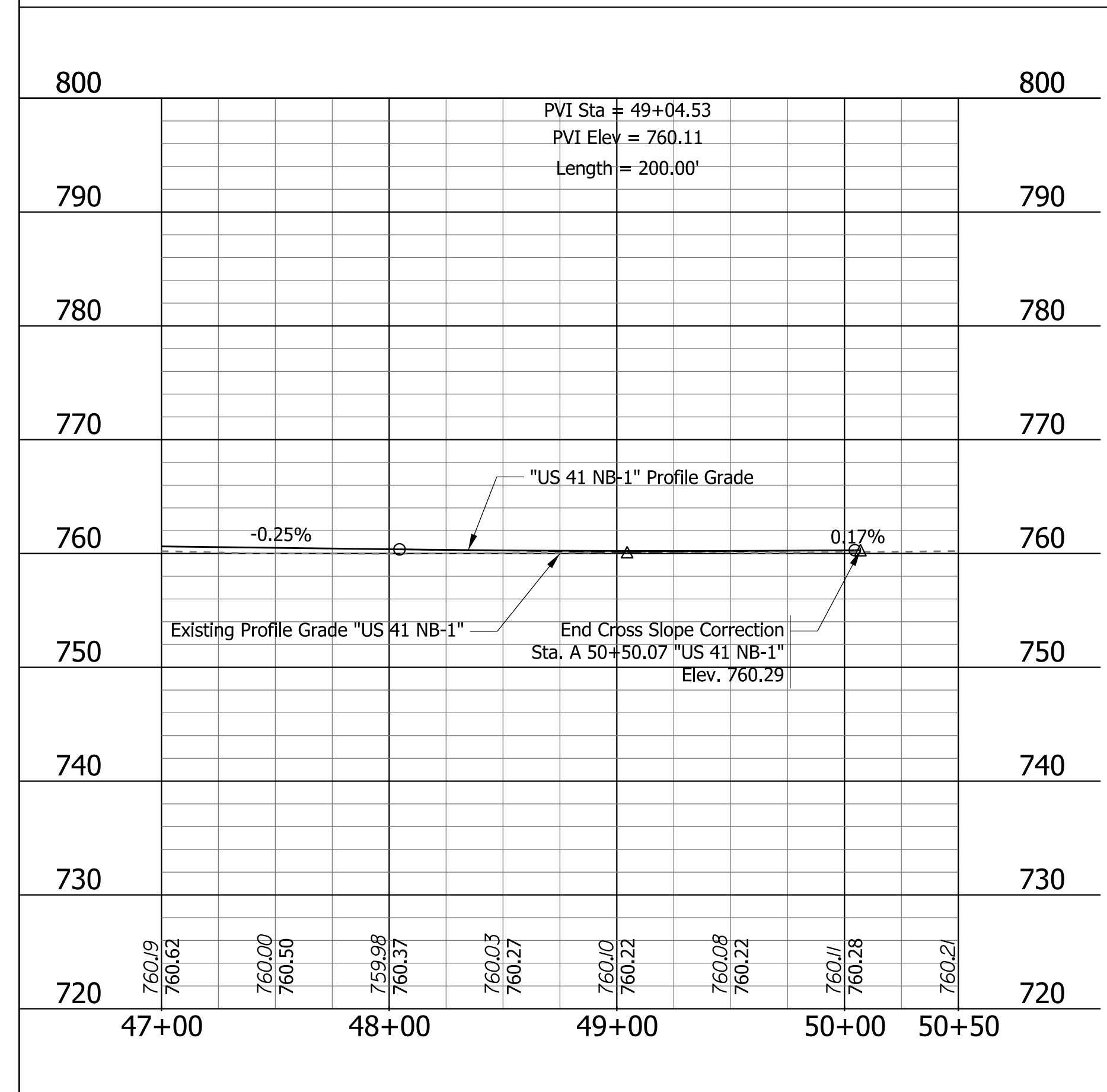
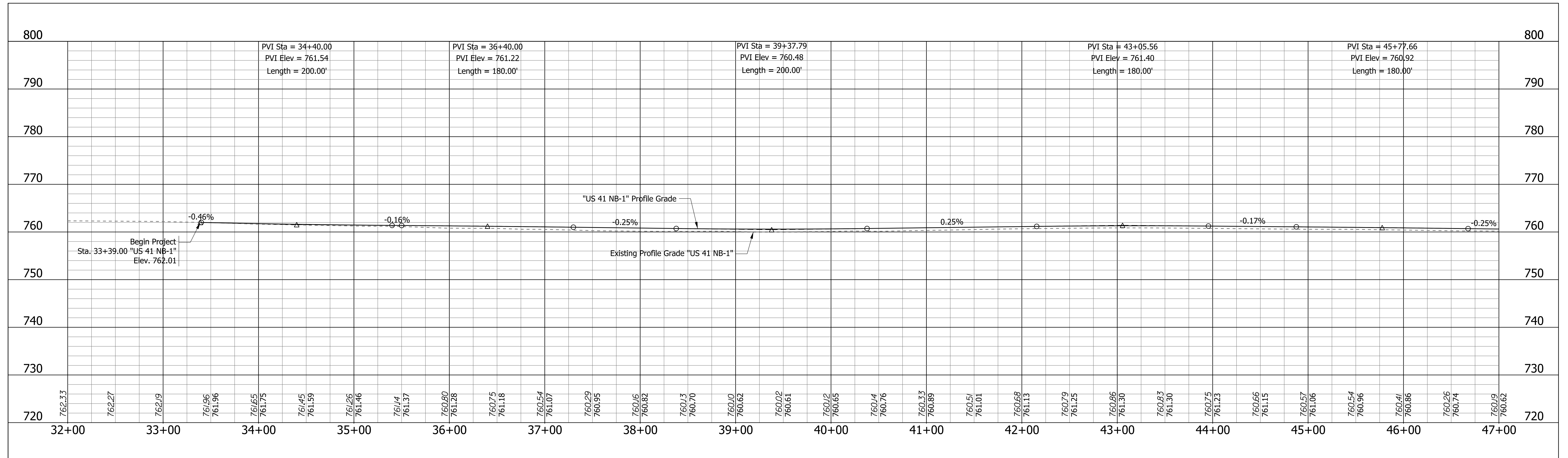


RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 11-4-13
DESIGN/ENGINEER DATE

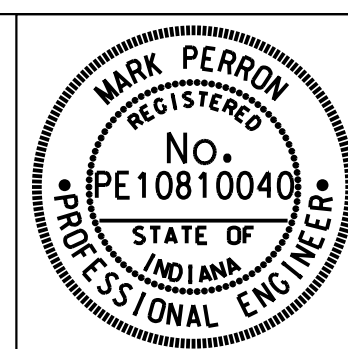
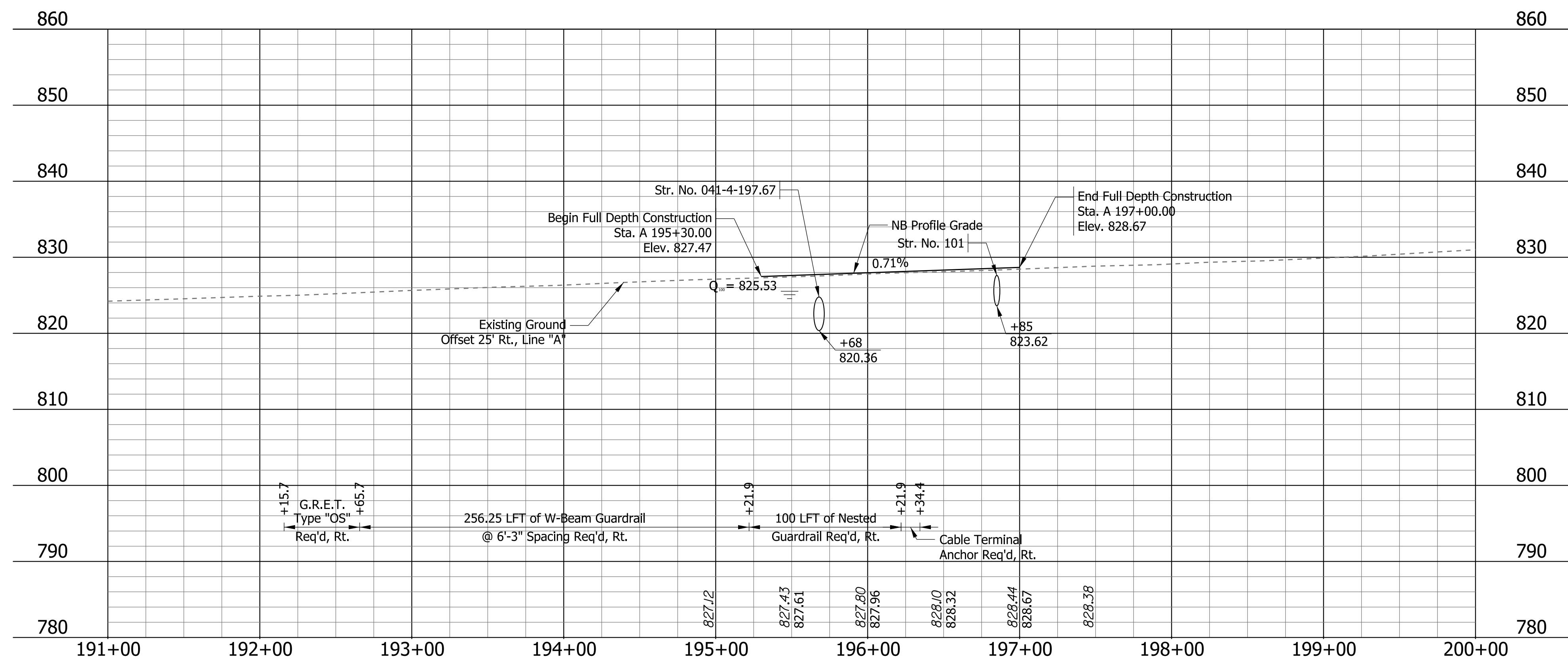
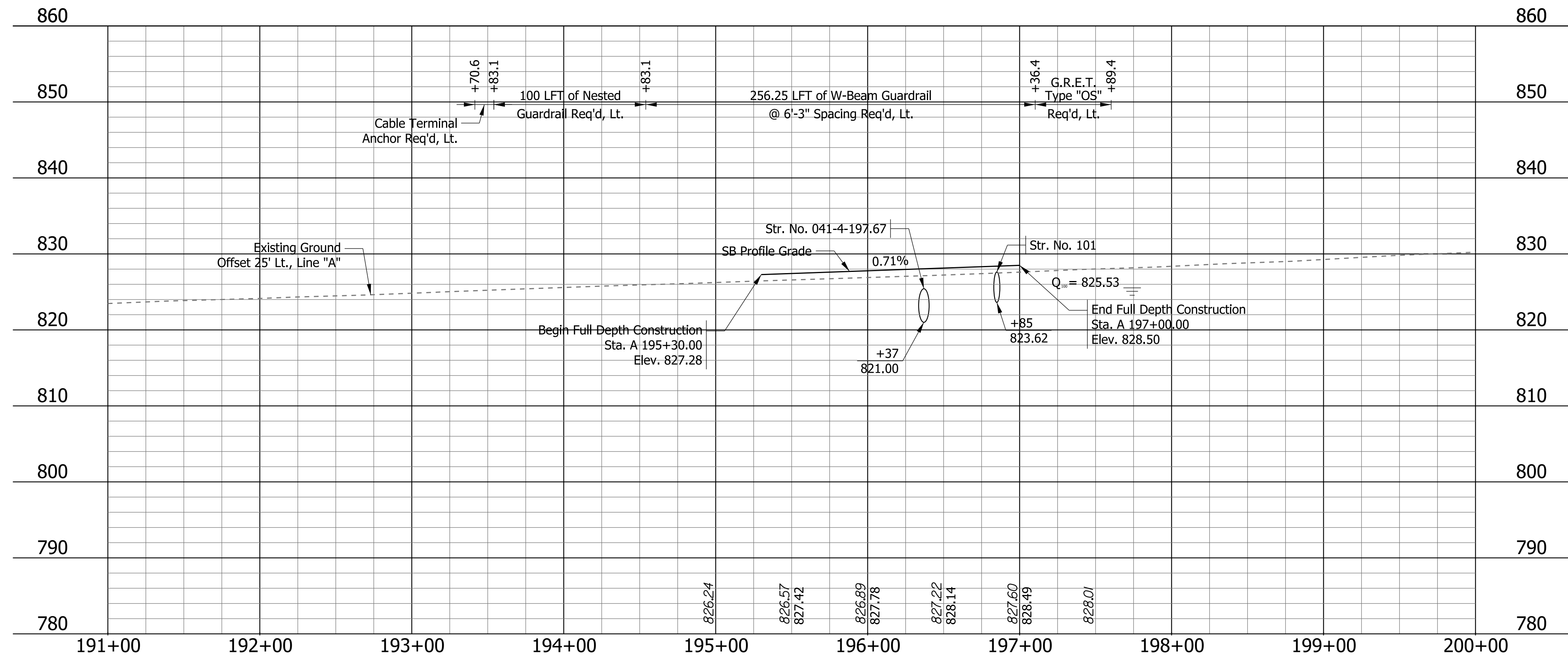
DESIGNED: HEK DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET LINE "A"
STA. 502+00 TO STA. 517+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	53 of 162
CONTRACT	PROJECT
R-32258	0710399



	RECOMMENDED FOR APPROVAL <i>Mark Perron</i> DESIGN ENGINEER 10/04/2013 DATE	INDIANA DEPARTMENT OF TRANSPORTATION PROFILE SHEET LINE "US 41 NB-1"	SCALE 1" = 50' 1" = 10'	BRIDGE FILE DESIGNATION 0710399
	DESIGNED: DCK DRAWN: SJC CHECKED: MDP CHECKED: DCK		SURVEY BOOK CONTRACT R-32258	SHEETS 54 of 162 PROJECT 0710399



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

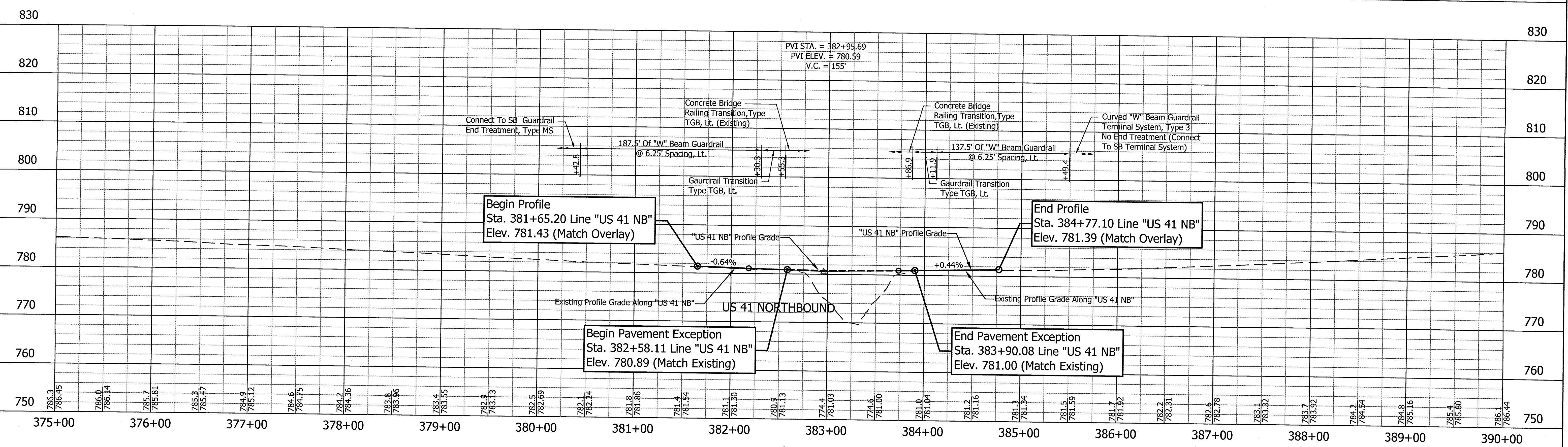
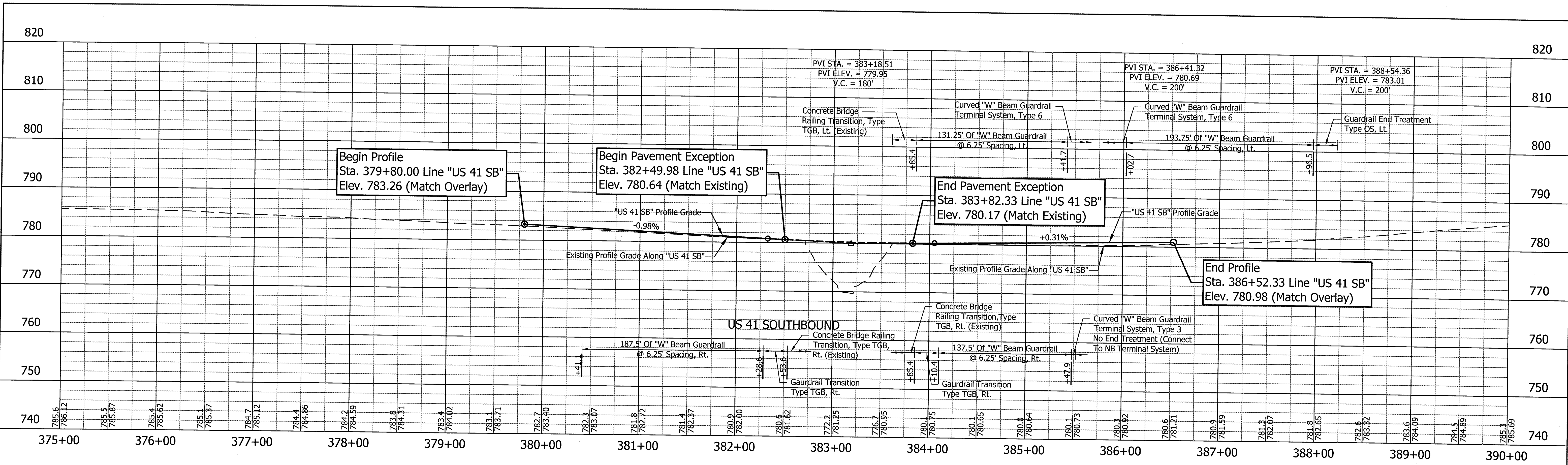
DESIGNED: DCK DRAWN: SJC

CHECKED: MDP CHECKED: DCK

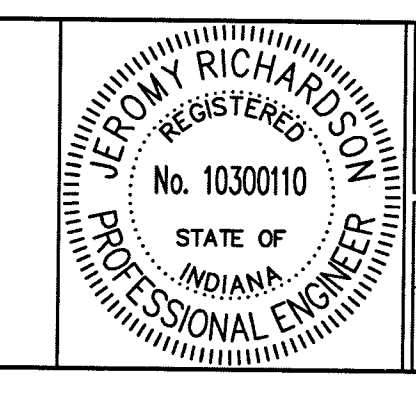
INDIANA DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
NB & SB LINE "A"
STA. 195+30 TO STA. 197+00

SCALE 1" = 50' 1" = 10'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 55 of 162
CONTRACT R-32258	PROJECT 0710399



File Name: \\us045\road\roadname\3\CD\12-404-02\road\Draw\Plan\Profile US 41.dwg Plot Date: 10/25/2013 Printed By: Nitez, John



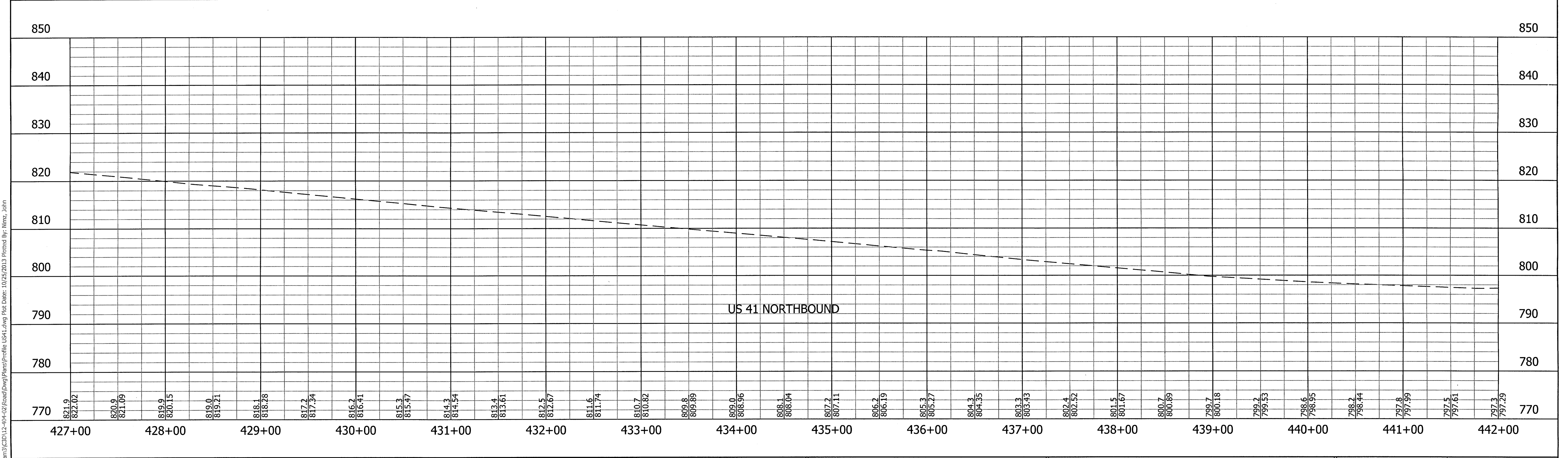
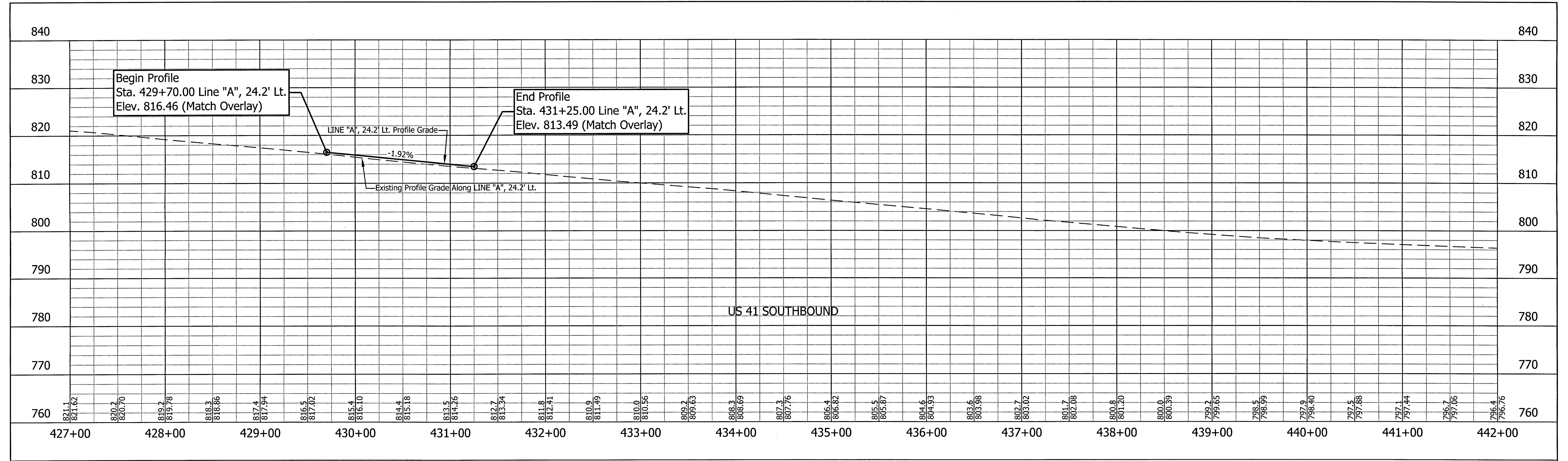
RECOMMENDED FOR APPROVAL: *Jeremy A. Richardson* 10-25-13
 DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

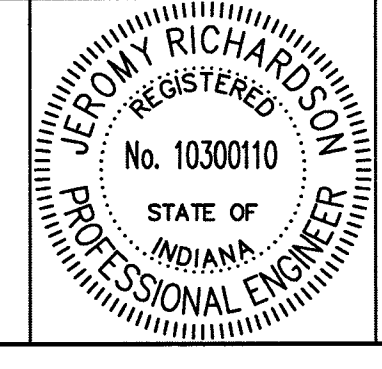
INDIANA DEPARTMENT OF TRANSPORTATION

PROFILE LINE "US 41 NB" & "US-41-SB"
 STA. 375+00 TO STA. 390+00

HORIZONTAL SCALE 1"=50'	BRIDGE FILE
VERTICAL SCALE 1"=10'	DESIGNATION 0710399
SURVEY BOOK	SHEETS
CONTRACT R-32258	56 of 162
	PROJECT 0710399



File Name: \\us05\fsys\road\msh\stream3\CD\112-404-02\road\Draw\Profile\US41.dwg Plot Date: 10/25/2013 Printed By: Hrmz, John



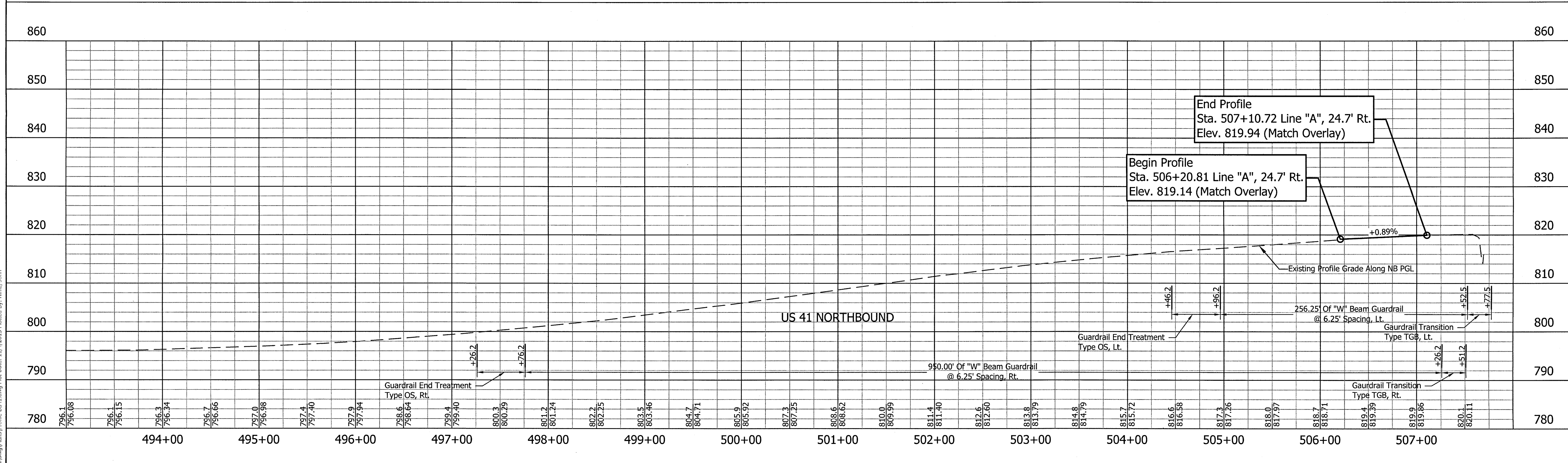
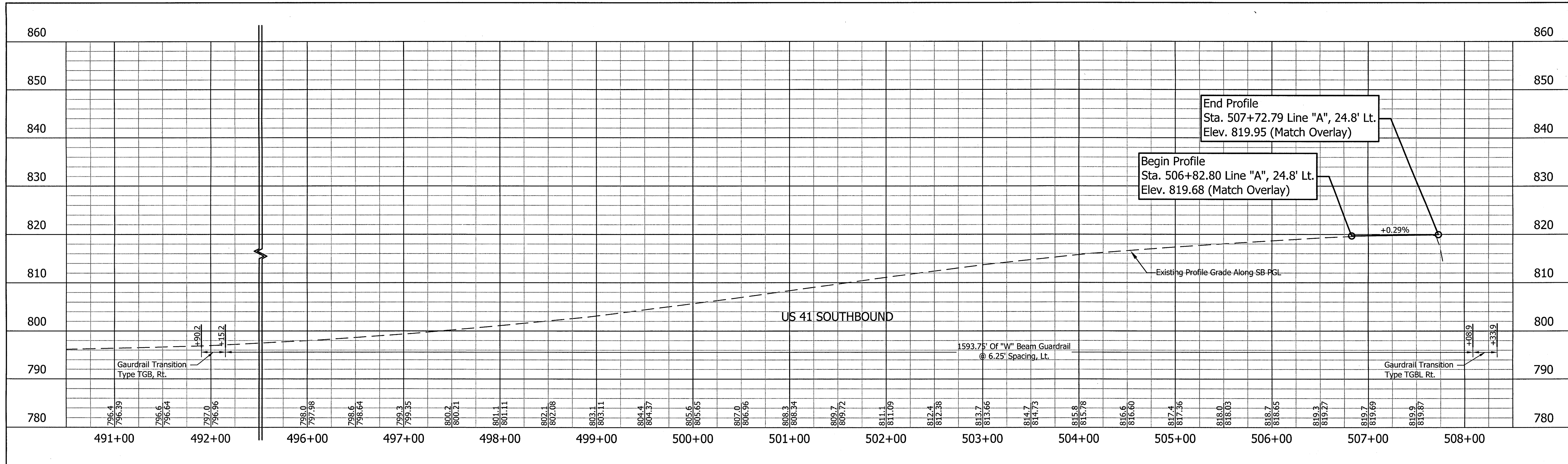
RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 10-25-13
 DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

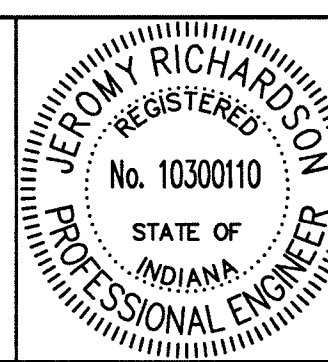
INDIANA DEPARTMENT OF TRANSPORTATION

PROFILE LINE "A"
 STA. 427+00 TO STA. 442+00

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 0710399
SURVEY BOOK	SHEETS 57 of 162
CONTRACT R-32258	PROJECT 0710399



File Name: P:\CSD\12-404-02\Road\Draw\Profile US 41.dwg Plot Date: 11/19/2013 Plotted By: Rima, John



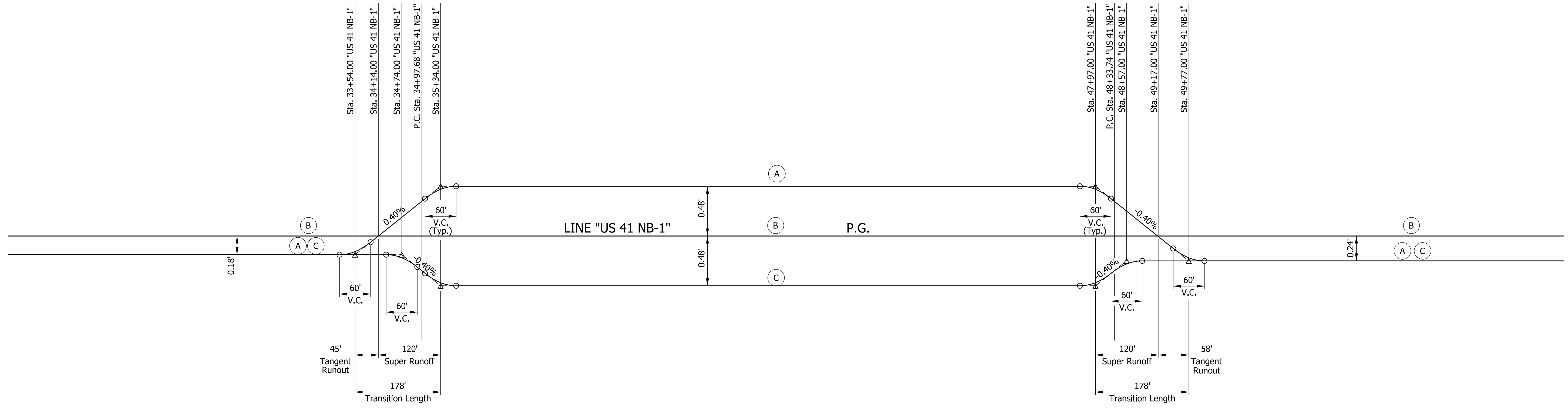
RECOMMENDED FOR APPROVAL
Jeromy Richardson 11-4-13
 DESIGN ENGINEER DATE

DESIGNED: HEK DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

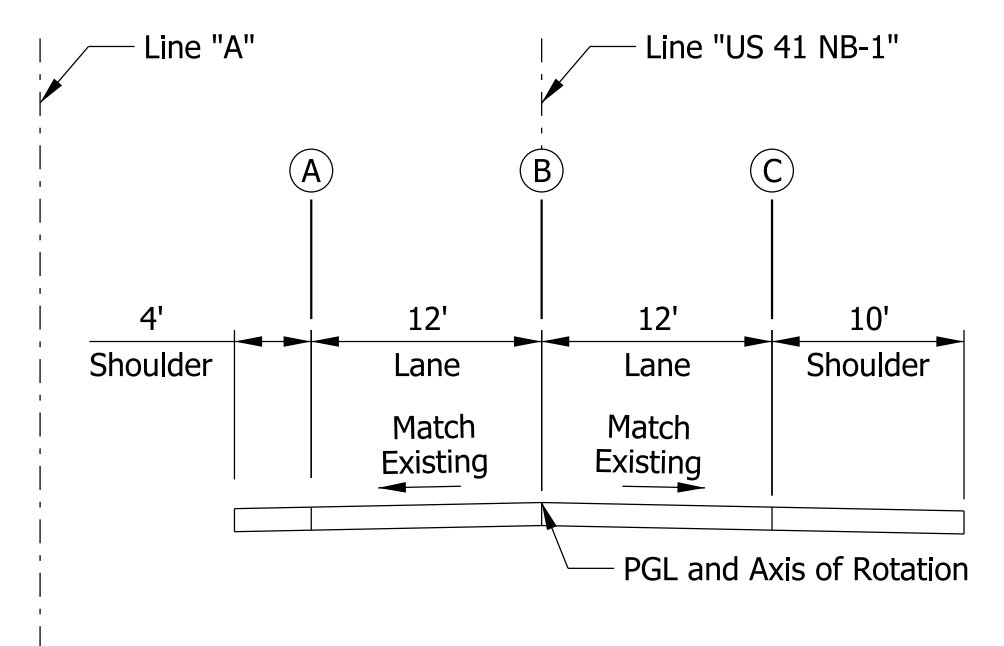
INDIANA
 DEPARTMENT OF TRANSPORTATION

PROFILE LINE "A"
 STA. 502+00 TO STA. 517+00

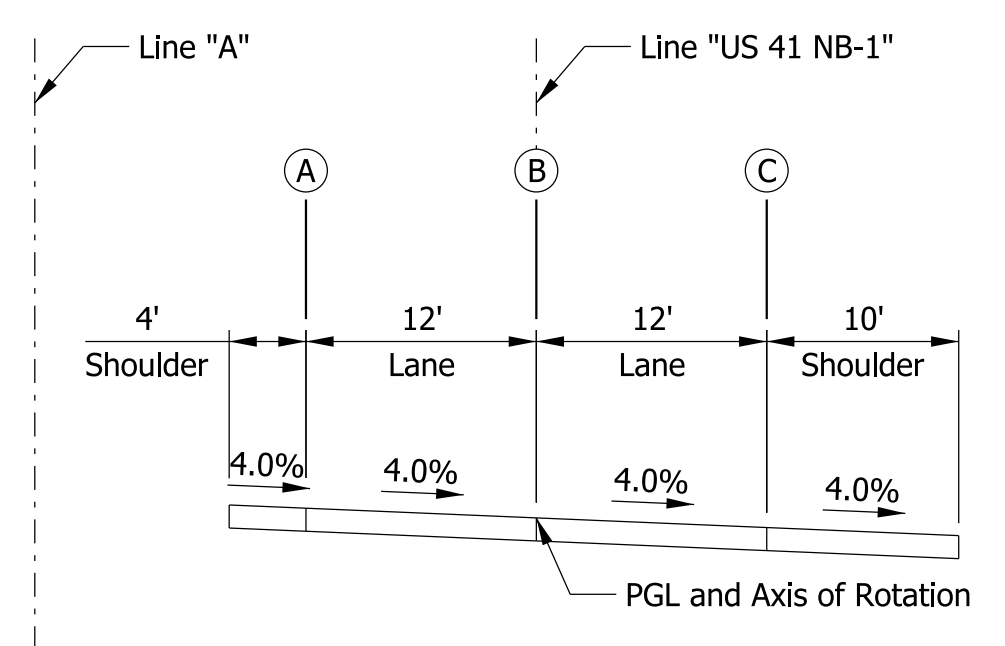
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
1" = 10'	0710399
SURVEY BOOK	SHEETS
-	58 of 162
CONTRACT	PROJECT
R-32258	0710399



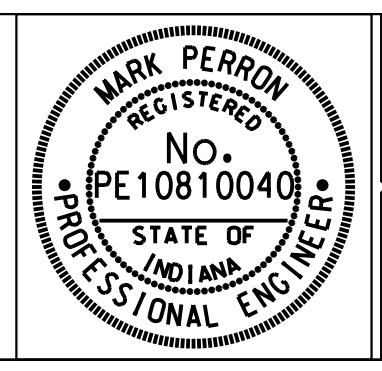
CURVE DATA
 PI = 41+71.84 "US 41 NB-1"
 Delta = 18°54'29" Rt.
 D = 1°24'55"
 R = 4048.56 ft
 T = 674.16 ft
 L = 1336.06 ft
 E = 55.75 ft



US 41 NORTHBOUND
 NORMAL CROWN CORRECTION



US 41 NORTHBOUND
 SUPELEVATION SECTION - CROWN CORRECTION



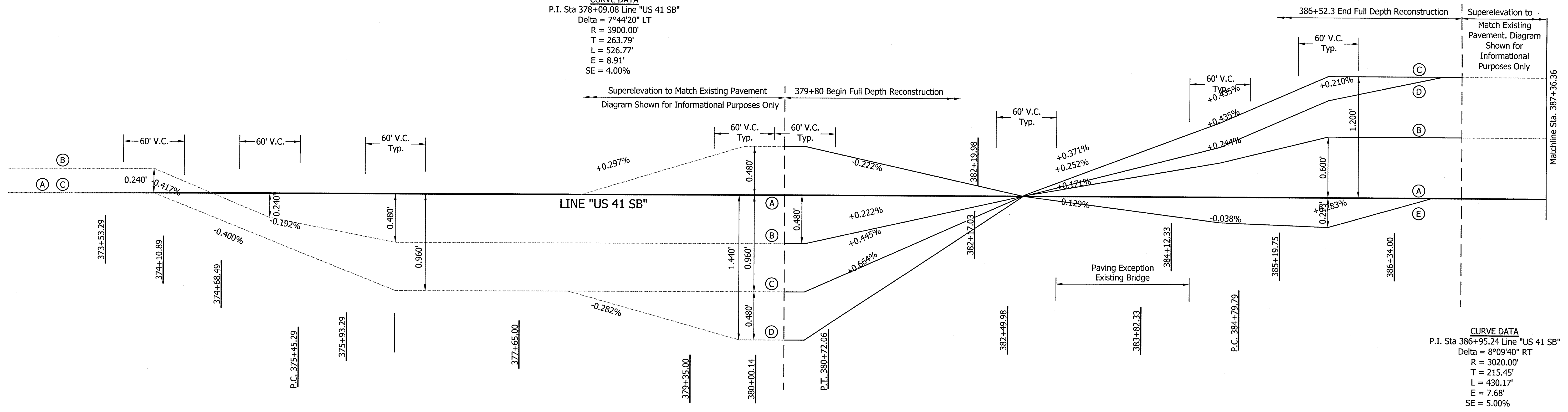
RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
 DESIGNED: DCK DRAWN: SJC
 CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION
 SUPERELEVATION DETAIL
 LINE "US 41 NB-1"

SCALE	BRIDGE FILE
1" = 100'	
1" = 0.5'	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	59 of 162
CONTRACT	PROJECT
R-32258	0710399

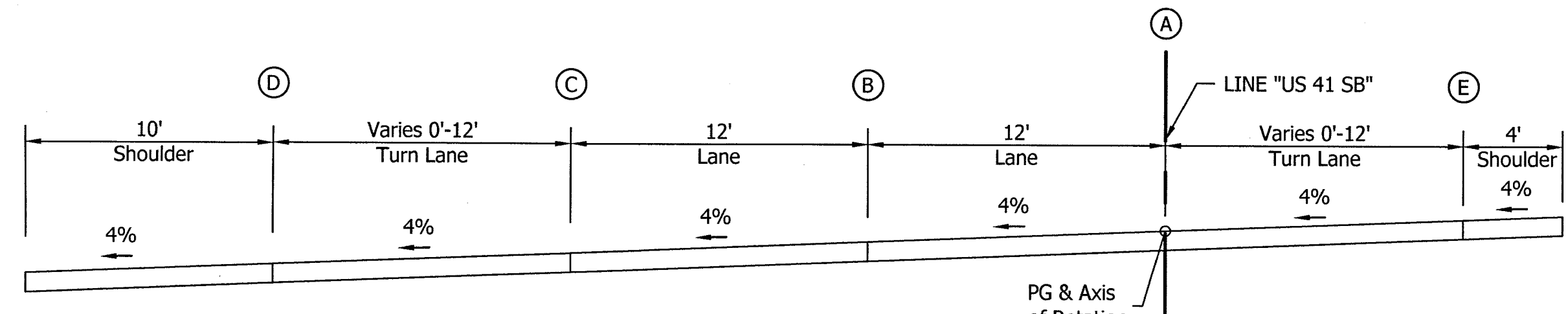
File Name: \\uscfh6\cadd\road\road\3\380\12-494-02\Road\Draw\Plans\Superelev Diagrams.dwg Plot Date: 10/25/2013 Plotted By: Nima, John

CURVE DATA
 P.I. Sta 378+09.08 Line "US 41 SB"
 Delta = 7°44'20" LT
 R = 3900.00'
 T = 263.79'
 L = 526.77'
 E = 8.91'
 SE = 4.00%

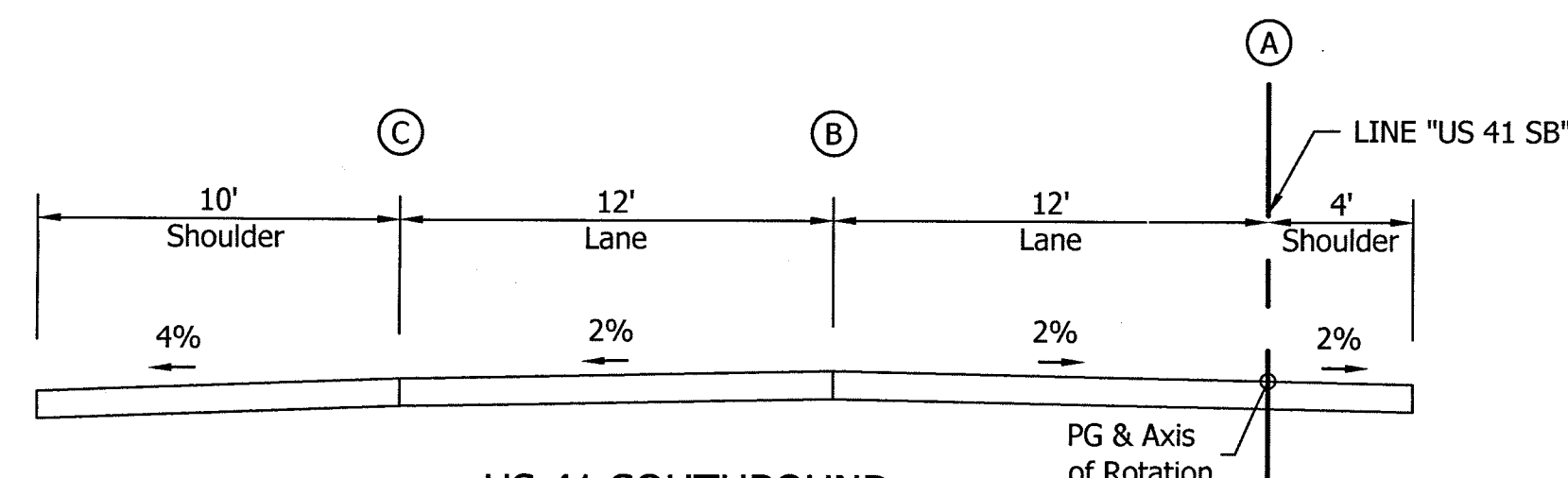


CURVE DATA
 P.I. Sta 386+95.24 Line "US 41 SB"
 Delta = 8°09'40" RT
 R = 3020.00'
 T = 215.45'
 L = 430.17'
 E = 7.68'
 SE = 5.00%

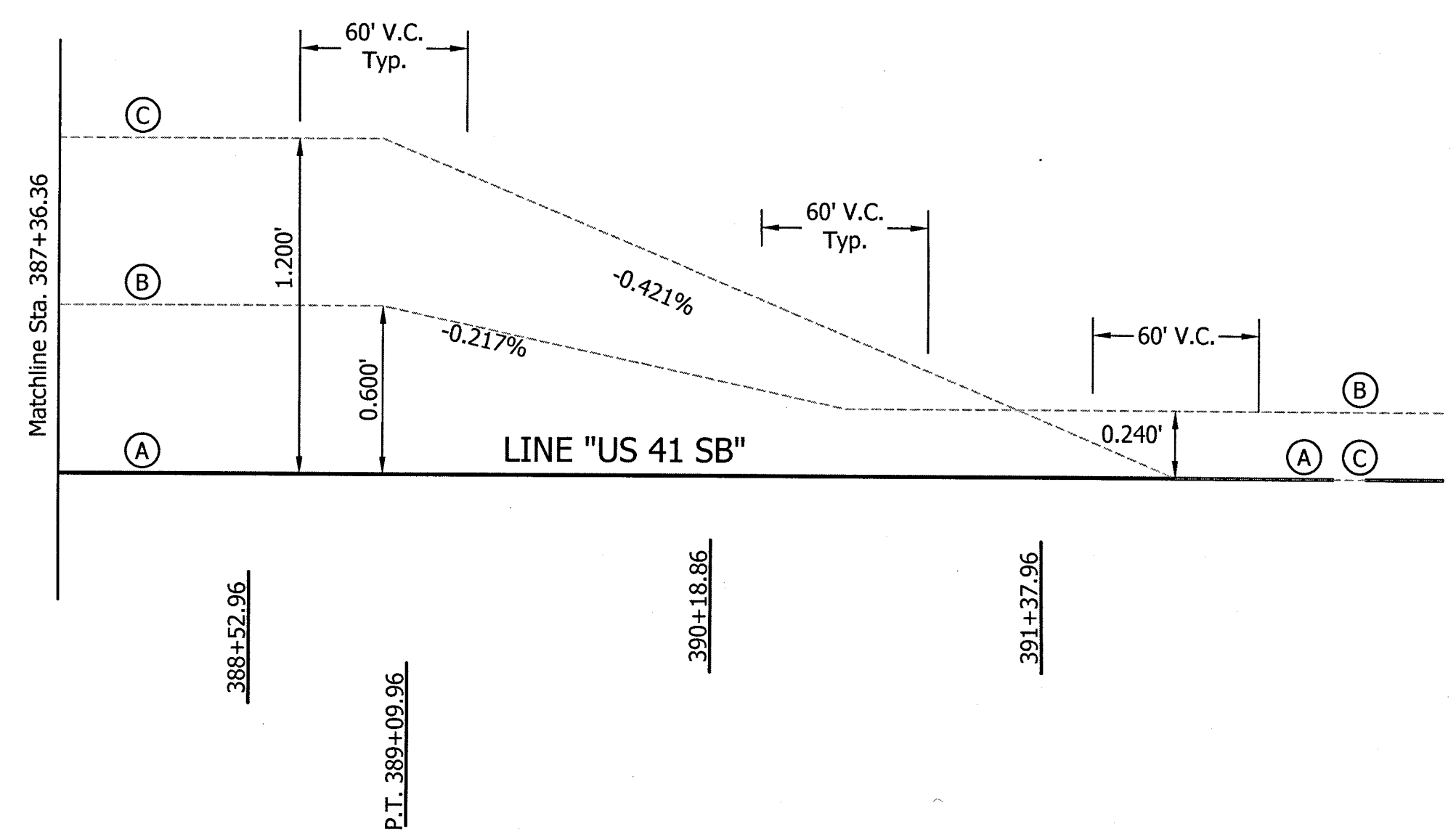
US 41 SOUTHBOUND



US 41 SOUTHBOUND
 Superelevation Section
 (Reverse as Necessary)

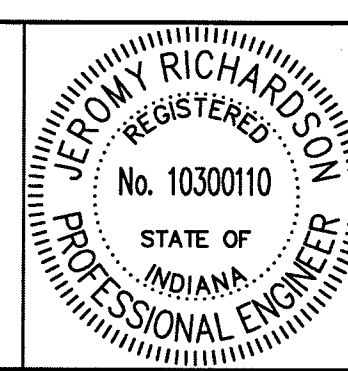


US 41 SOUTHBOUND
 Normal Crown Section



GENERAL NOTES

All superelevation detail stations are based on Line "US 41 SB". Please see plan sheets for location and information on additional alignments.

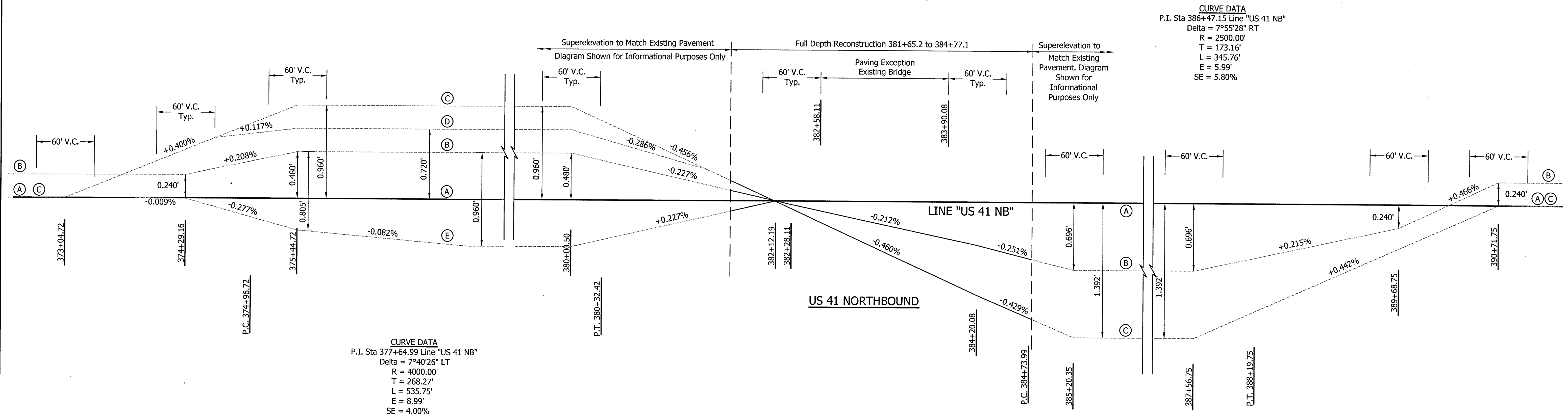


RECOMMENDED FOR APPROVAL: *Jeremy A. Richardson* 10-25-13
 DESIGN ENGINEER DATE
 DESIGNED: HEK DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION
SUPERELEVATION DETAIL
 LINE "US 41 SB"

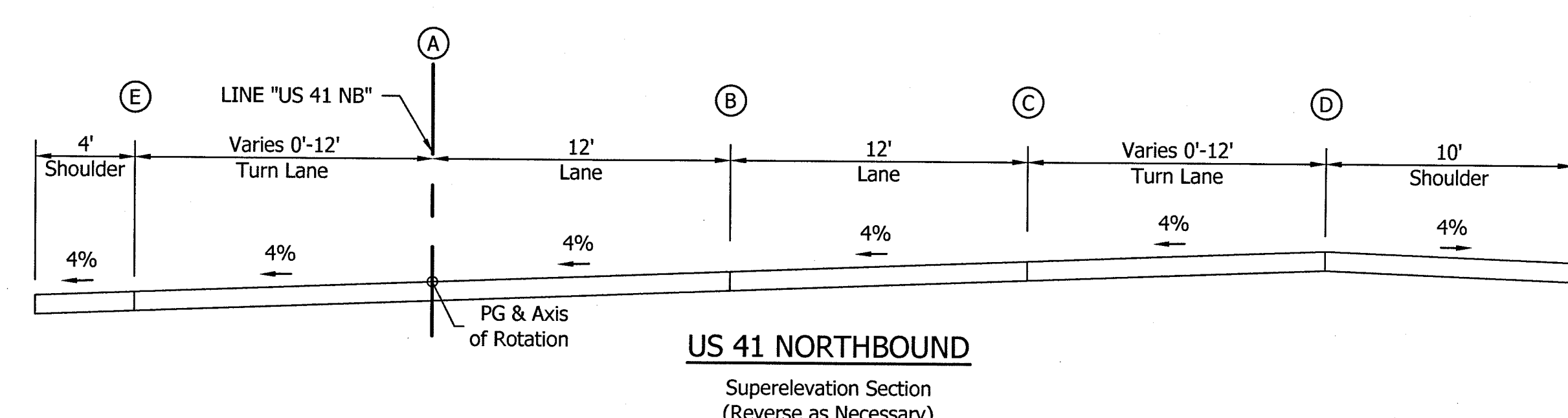
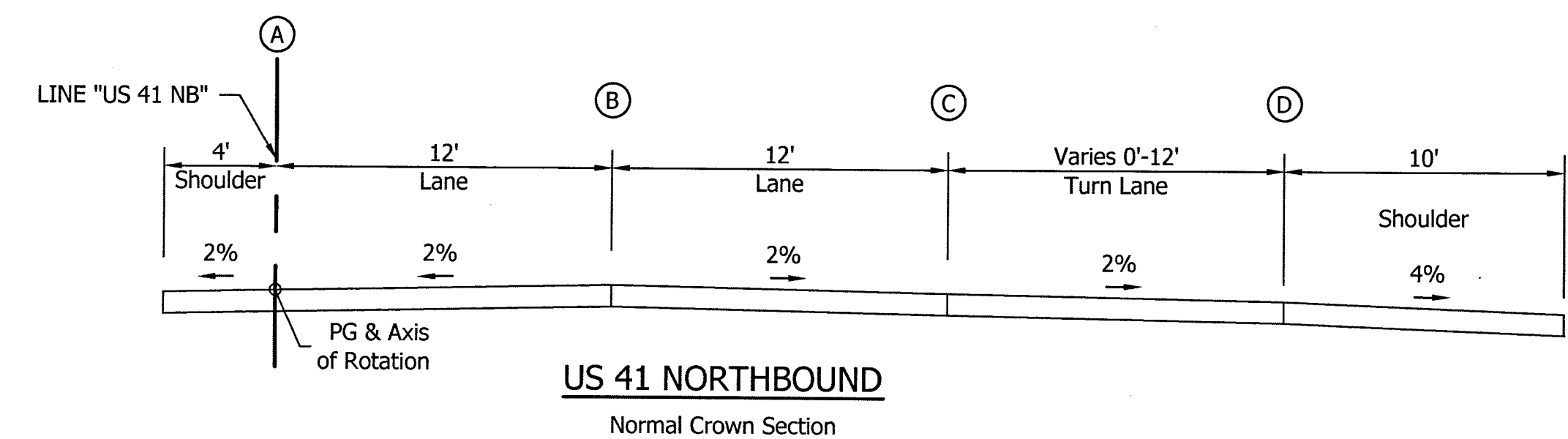
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
1" = 0.5'	0710399
SURVEY BOOK	SHEETS
-	60 of 162
CONTRACT	PROJECT
R-32258	0710399

File Name: P:\C31012-404-02\Road\Diagrams\Superelev Diagrams.dwg Plot Date: 10/25/2013 Plotted By: Nina, John

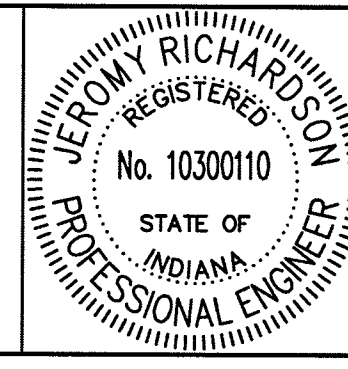


CURVE DATA
P.I. Sta 377+64.99 Line "US 41 NB"
Delta = 7°40'26" LT
R = 4000.00'
T = 268.27'
L = 535.75'
E = 8.99'
SE = 4.00%

CURVE DATA
P.I. Sta 386+47.15 Line "US 41 NB"
Delta = 7°55'28" RT
R = 2500.00'
T = 173.16'
L = 345.76'
E = 5.99'
SE = 5.80%



GENERAL NOTES
All superelevation detail stations are based on Line "US 41 NB". Please see plan sheets for location and information on additional alignments.

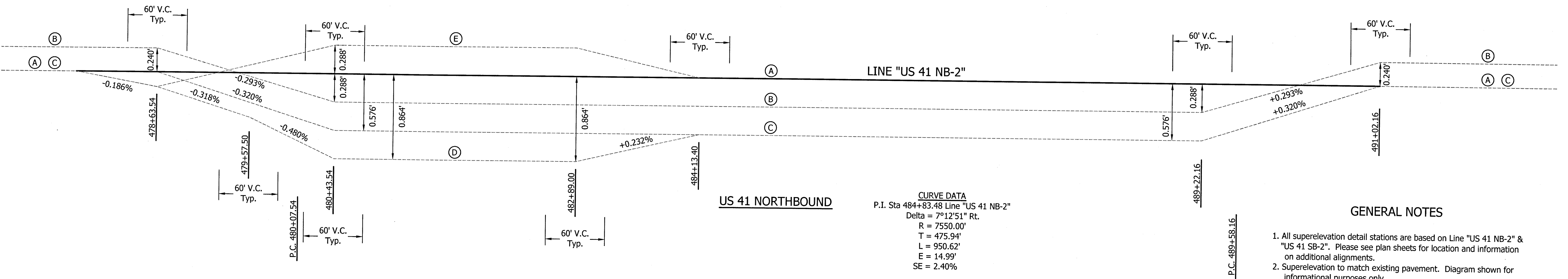
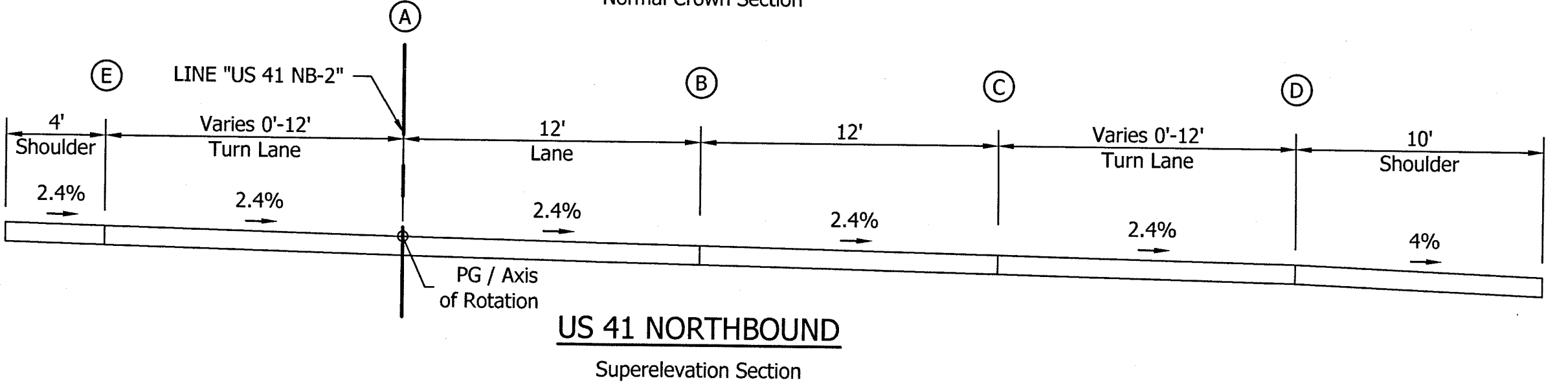
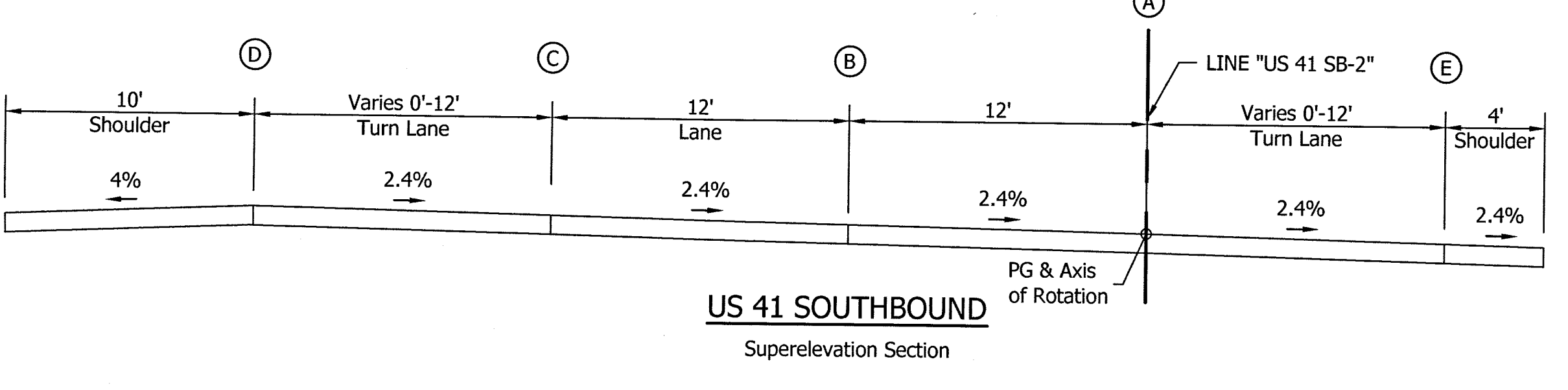
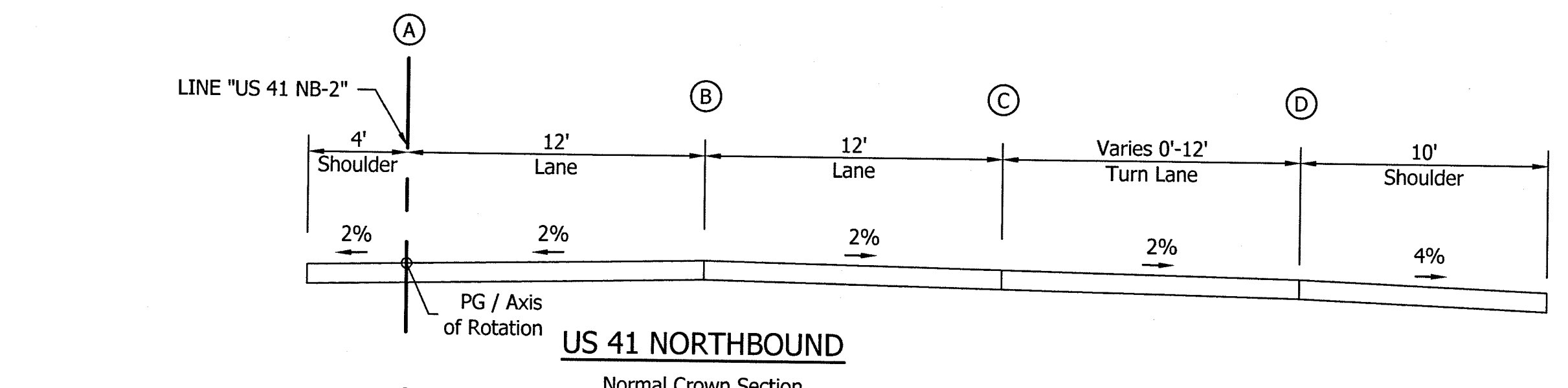
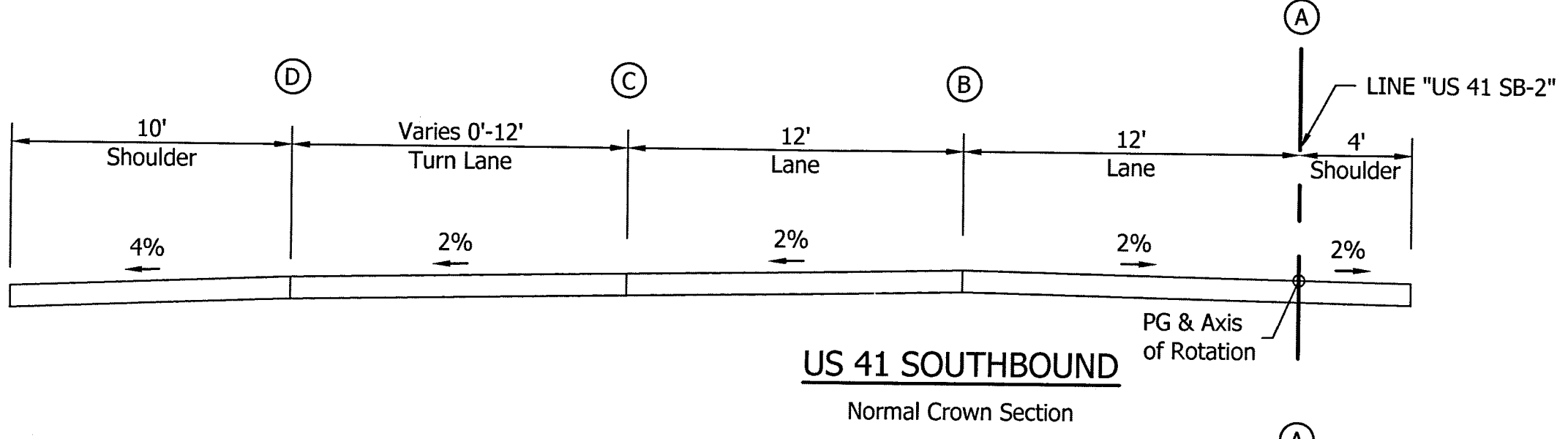
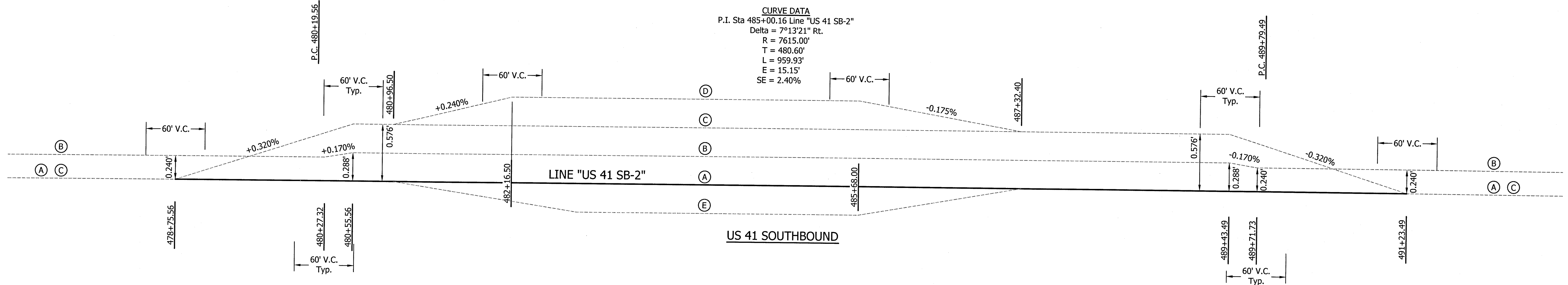


RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 10-25-13
DESIGN ENGINEER DATE
DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION
SUPERELEVATION DETAIL
LINE "US 41 NB"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 0.5'	DESIGNATION 0710399
SURVEY BOOK	SHEETS
CONTRACT R-32258	61 of 162 PROJECT 0710399

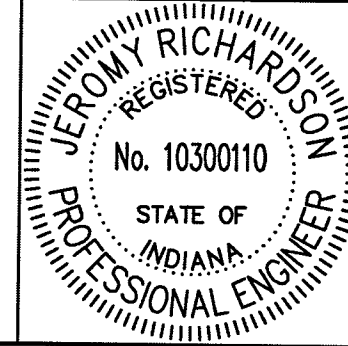
CURVE DATA
 P.I. Sta 485+00.16 Line "US 41 SB-2"
 Delta = 7°13'21" Rt.
 R = 7615.00'
 T = 480.60'
 L = 959.93'
 E = 15.15'
 SE = 2.40%



CURVE DATA
 P.I. Sta 484+83.48 Line "US 41 NB-2"
 Delta = 7°12'51" Rt.
 R = 7550.00'
 T = 475.94'
 L = 950.62'
 E = 14.99'
 SE = 2.40%

- GENERAL NOTES**
- All superelevation detail stations are based on Line "US 41 NB-2" & "US 41 SB-2". Please see plan sheets for location and information on additional alignments.
 - Superelevation to match existing pavement. Diagram shown for informational purposes only.

File Name: \\ves05\road\mch\beam3\CD\12-40+02\Road\Draw\SUPERLEV.Dwg Plot Date: 10/25/2013 Plotted By: Nemo, John

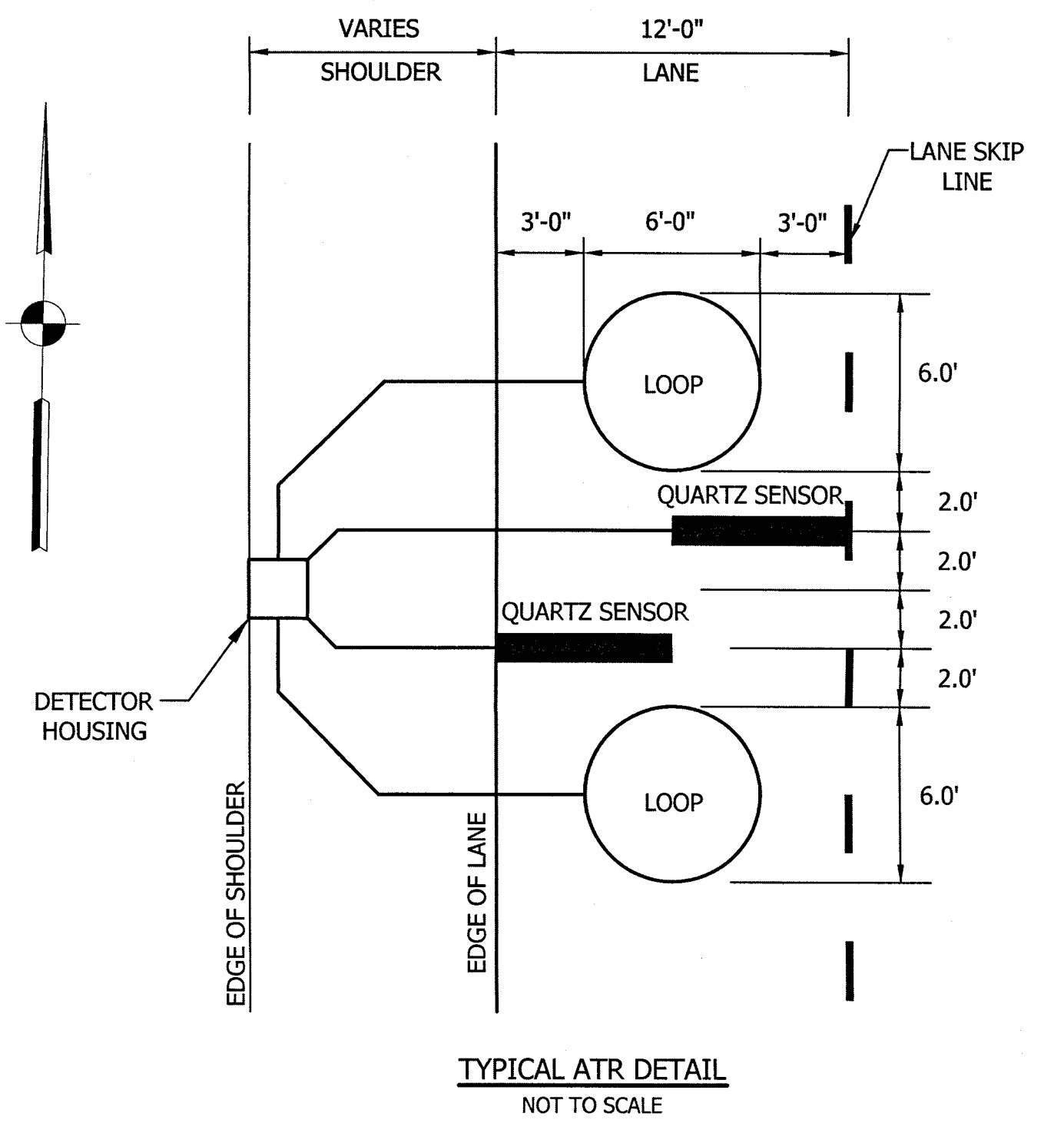
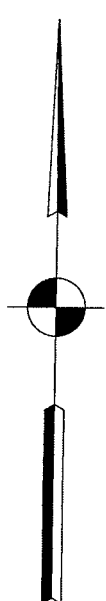
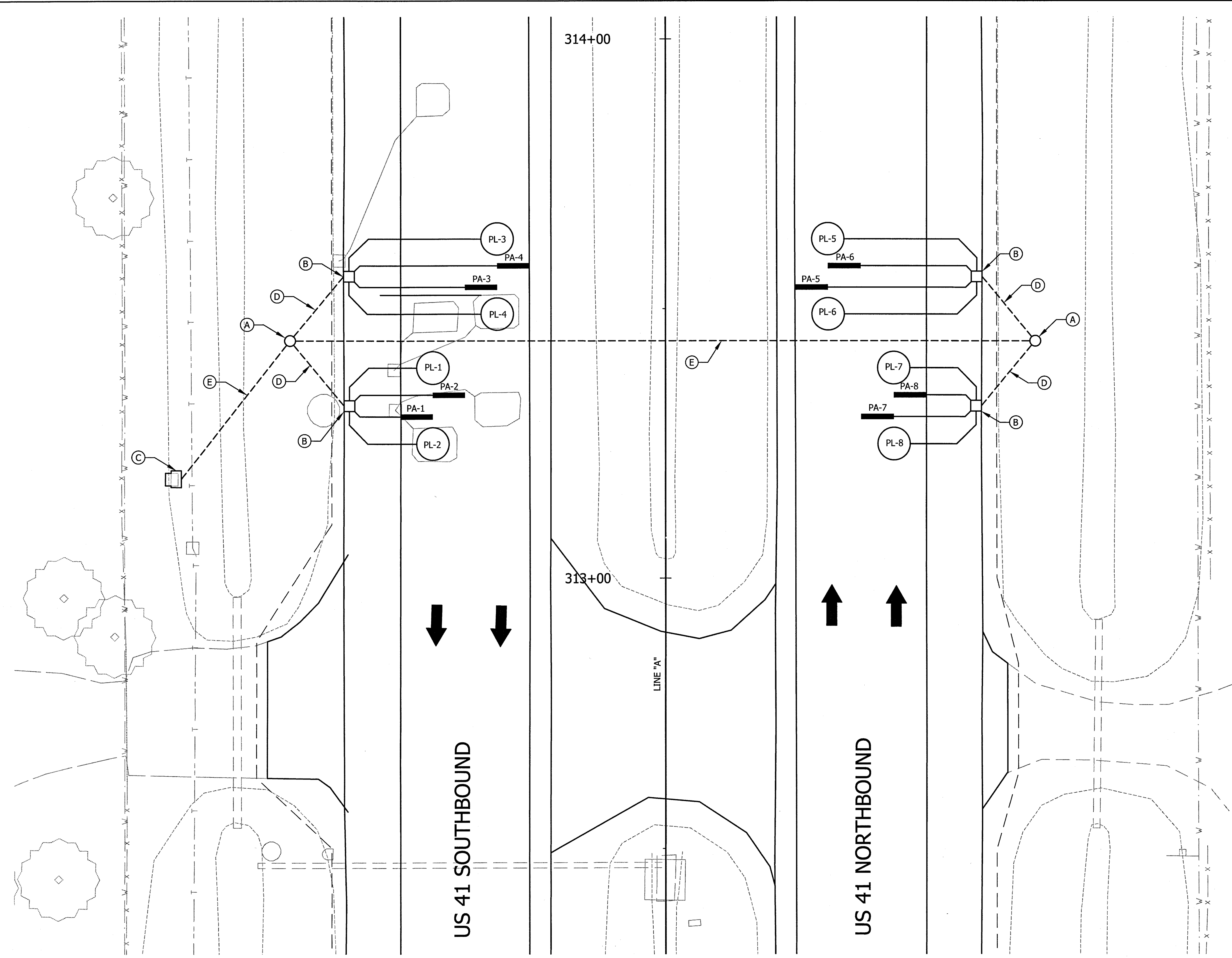


RECOMMENDED FOR APPROVAL	<i>Gregory R. Richardson</i>	10-25-13
DESIGNED:	HEK	DRAWN: JNII
CHECKED:	WRC	CHECKED: WRC

INDIANA
 DEPARTMENT OF TRANSPORTATION
SUPERELEVATION DETAIL
 LINE "US 41 SB-2" & "US 41 NB-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
1" = 0.5'	0710399
SURVEY BOOK	SHEETS
-	62 of 162
CONTRACT	PROJECT
R-32258	0710399

File Name: \\ucsd\p4\road\road\subam3\CBD\12-404-02\Road\Draw\Plans\ATR DETAIL US41.dwg Plot Date: 10/25/2013 Plotted By: Nimgz, John



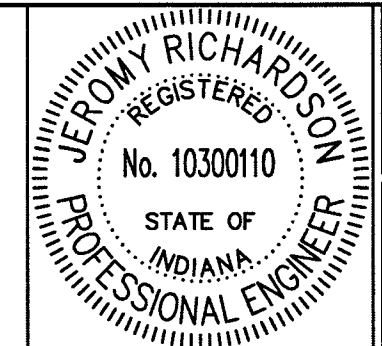
LEGEND:

- (A) TRAFFIC MONITORING HANDHOLE
- (B) TRAFFIC MONITORING DETECTOR HOUSING
- (C) EXISTING ITS CABINET AND FOUNDATION (TO REMAIN IN PLACE)
- (D) PROPOSED 2 in. PVC CONDUIT
- (E) PROPOSED 3 in. PVC CONDUIT

PL-X = PROPOSED LOOP #X
 PA-X = PROPOSED AXIAL #X

NOTES:

1. ALL LOOP DETECTORS SHALL BE 6 ft. CIRCULAR LOOPS WITH 4 WRAPS OF WIRE.
2. AXLE SENSORS IN BITUMINOUS PAVEMENT ARE 6 ft. CLASS/QUARTZ SENSORS.
3. HIGH DENSITY POLYETHYLENE EHMW PIPE MAY BE USED IN PLACE OF PVC CONDUIT. SIZE SHALL BE AS SHOWN.
4. ALL ITEMS ON THIS SHEET PAID FOR AS "ATR, LUMP SUM" UNLESS OTHERWISE NOTED.
5. REMOVE ALL EXISTING ATR EQUIPMENT UNLESS OTHERWISE NOTED.
6. CABINET TO HANDHOLE AND HANDHOLE TO HANDHOLE CONDUIT SHALL BE 3 in. MINIMUM. ALL OTHER CONDUITS SHALL BE 2 in. MINIMUM.
7. ITS SERVICE POINT SHALL BE MAINTAINED.



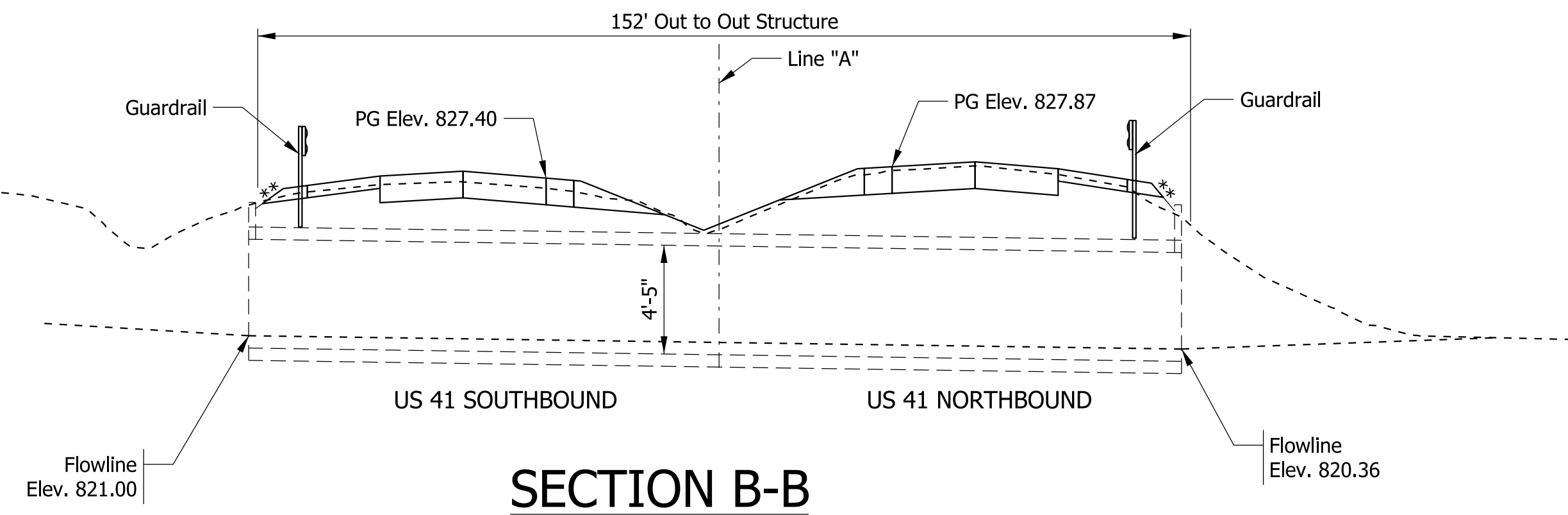
RECOMMENDED FOR APPROVAL: *Jeremy Richardson* 10-25-13
 DESIGN ENGINEER DATE

DESIGNED: BWS DRAWN: DJZ
 CHECKED: JAR CHECKED: BWS

INDIANA DEPARTMENT OF TRANSPORTATION

WIM INSTALLATION
 STA. 313+44, LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	63 of 162
CONTRACT	PROJECT
R-32258	0710399



HYDRAULIC DATA

Drainage Area	= 0.14 Sq. Miles
Design Discharge	= 154.54 Cfs.
Low Structure elevation	= 824.28 Ft. Downstream
	= 824.92 Ft. Upstream
Q100 Highwater Elevation	= 825.53 Ft.
Serviceability Freeboard	= 1.76 Ft.
Outlet Velocity @ Q100	= 9.08 Fps.
Backwater	= 3.10 Ft.
Skew	= 27°15'07"

NOTES:

- * - Indicates Dimensions to be Determined by the Precast Unit Manufacturer.
 - ** - See Roadway Cross Sections for Slopes.
- See Sheet 32 for limits for pavement removal.

DESIGN DATA

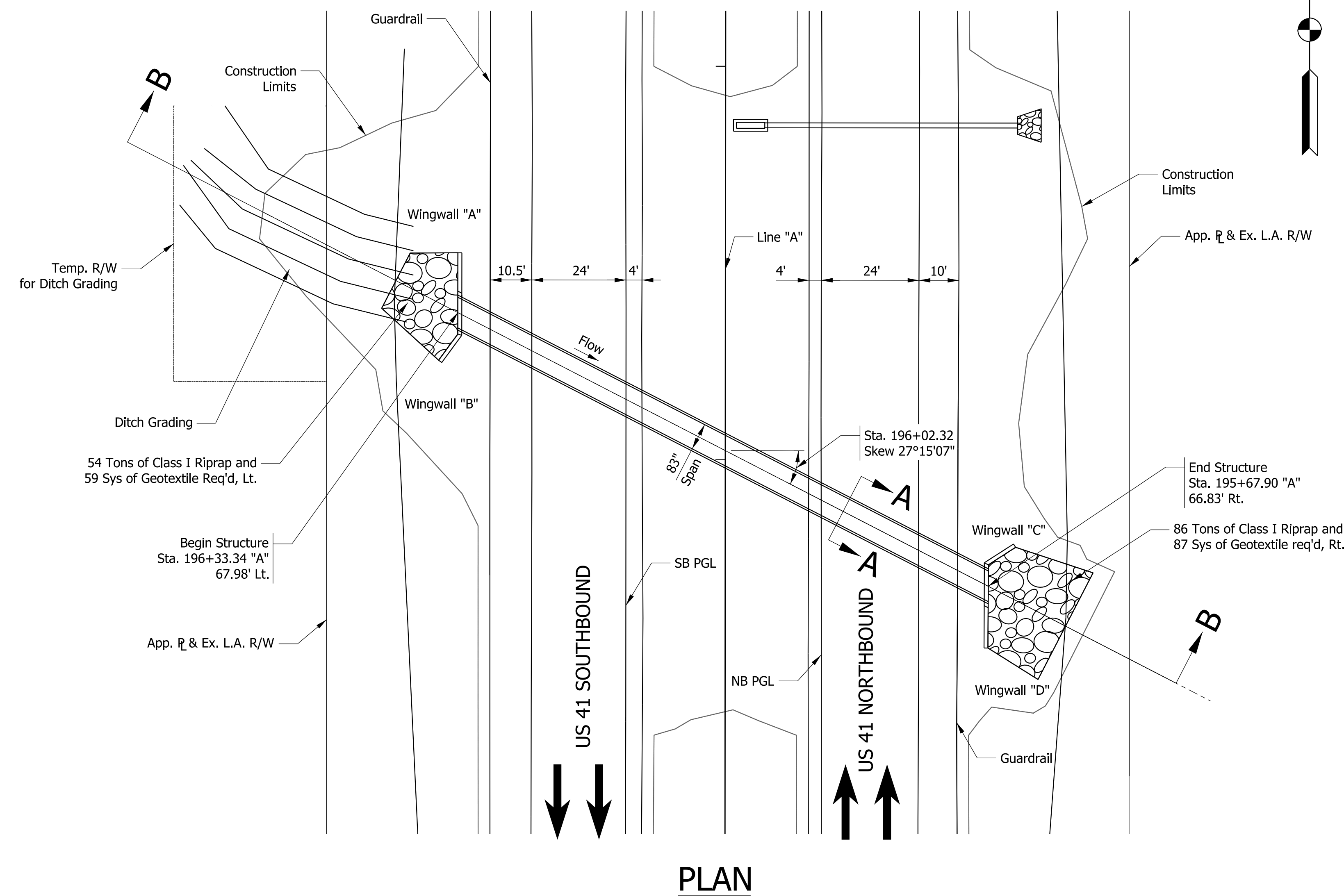
Designed for HL93 Loading in Accordance with AASHTO LRFD Bridge Design Specifications, Fifth Edition, and ALL Subsequent Interims. Dead Loads Increased 35 psf for Future Wearing Surface.

DESIGN STRENGTHS

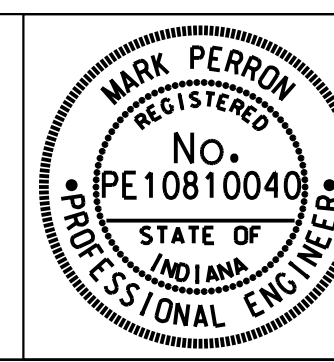
The Minimum Design Concrete Compressive Strength for Structure Sections shall be 5,000 psi. For Headwalls, Wingwalls, and Spandrel Walls it shall be 4,000 psi.

WINGWALL SOIL PARAMETERS

Angle of Friction between Wingwall Footing and Foundation Soil (δ)	= 21°
Angle of Internal Friction of the Foundation Soil (ϕ)	= 0°
Ultimate Cohesion of Foundation Soil (C)	= 700 psf
Ultimate Adhesion between Foundation Soil and Concrete (C)	= 600 psf



US 41
CONCRETE ELLIPTICAL PIPE
1 Span @ 83"
Skew: 27°15'07" Rt.
Span: 53"

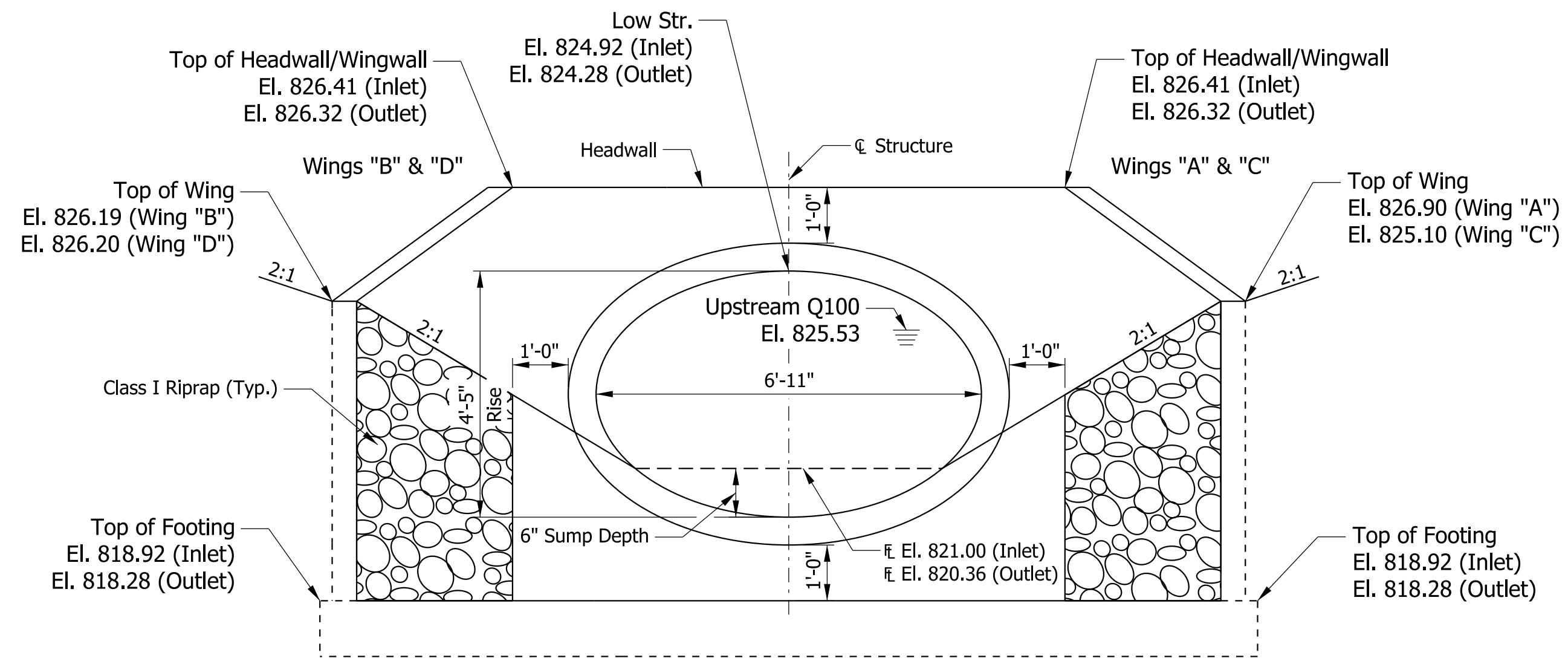


RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013	DATE
DESIGNED:	DCK	DRAWN:	SJC	
CHECKED:	MDP	CHECKED:	DCK	

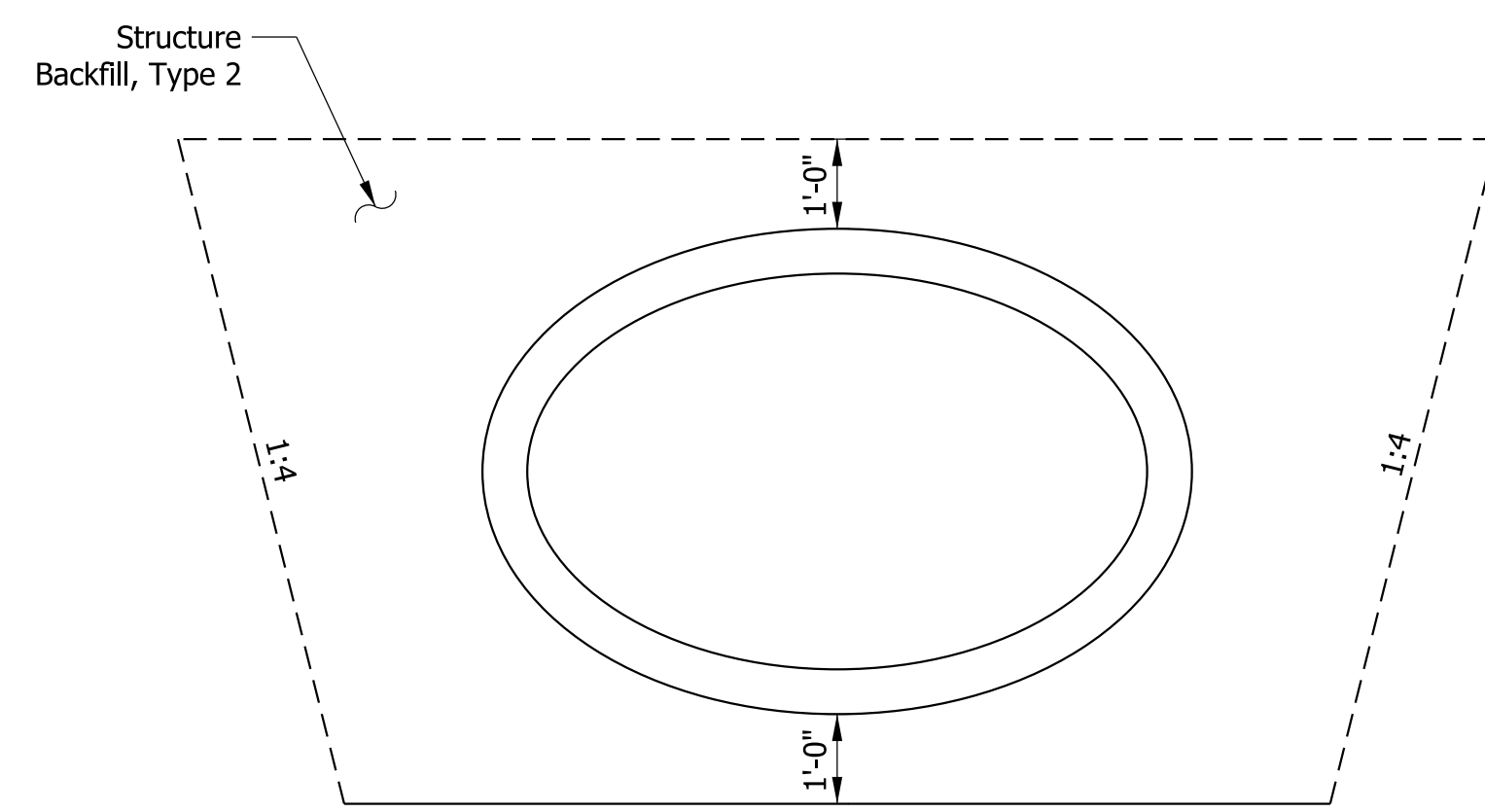
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STR. 041-4-197.67

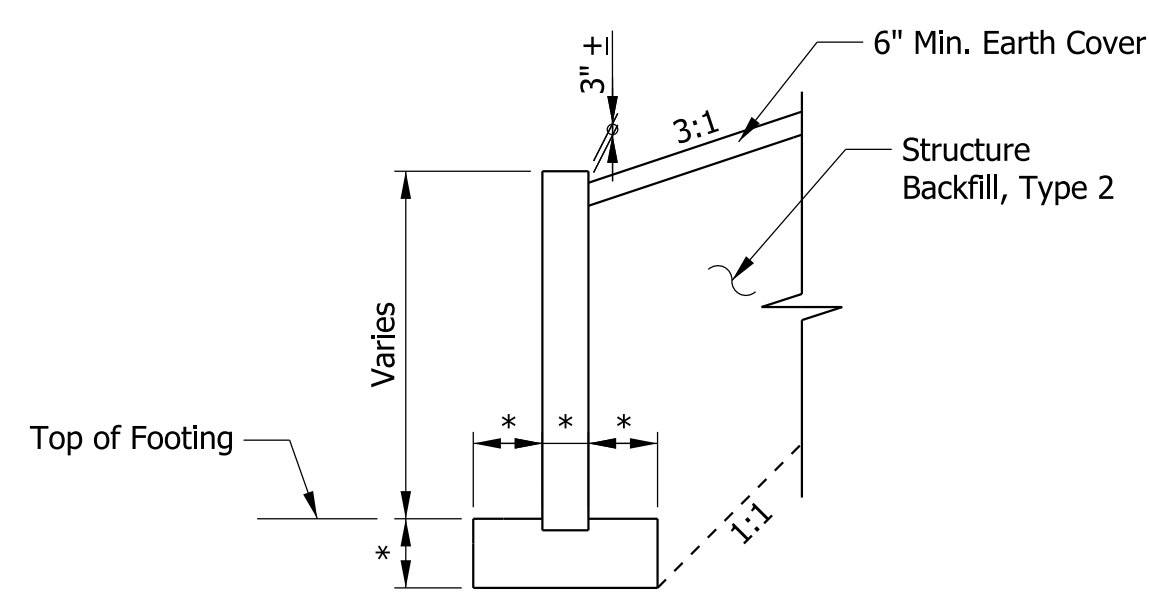
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1" = 20'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	64 of 162
CONTRACT	PROJECT
R-32258	0710399



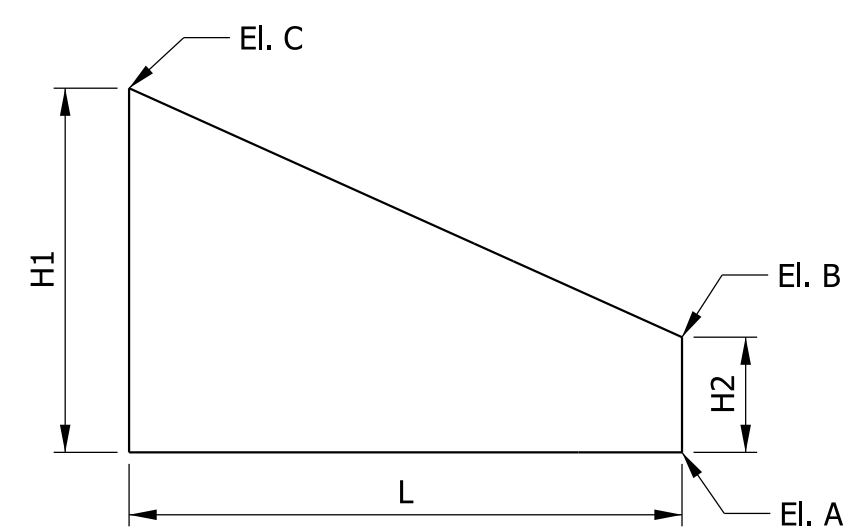
END ELEVATION
Not to scale



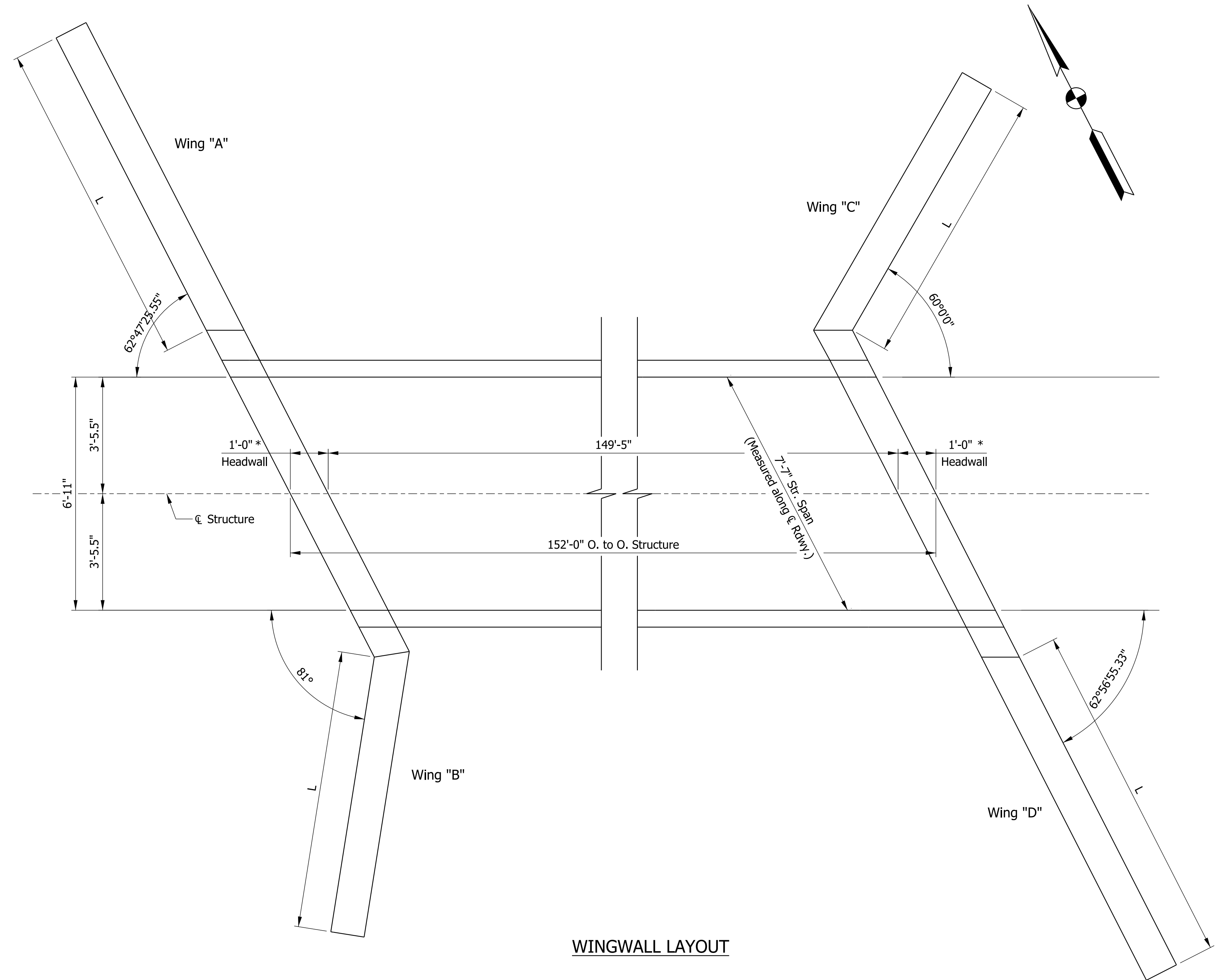
SECTION A-A
Not to scale



WINGWALL TYPICAL SECTION
Not to scale



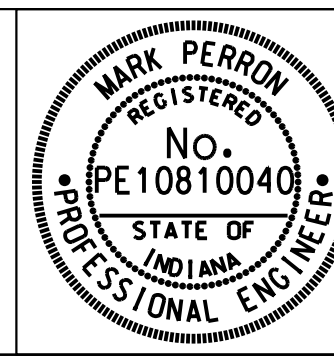
WINGWALL ELEVATION
Not to scale



WINGWALL LAYOUT

Location	WINGWALL			
	"A"	"B"	"C"	"D"
Elev.				
A	818.92	818.92	818.28	818.28
B	826.90	826.19	825.10	826.20
C	826.41	826.41	826.32	826.32
Dim.				
H1	7.49'	7.49'	8.04'	8.04'
H2	7.98'	7.27'	6.82'	7.92'
L	19.00'	15.50'	15'	21'
Area	147 sft	115 sft	112 sft	168 sft

Note:
Contractor shall verify the existing
flowline elevation to set the appropriate sump depth.



RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013	DATE
DESIGNED:	DCK	DRAWN:	SJC	
CHECKED:	MDP	CHECKED:	DCK	

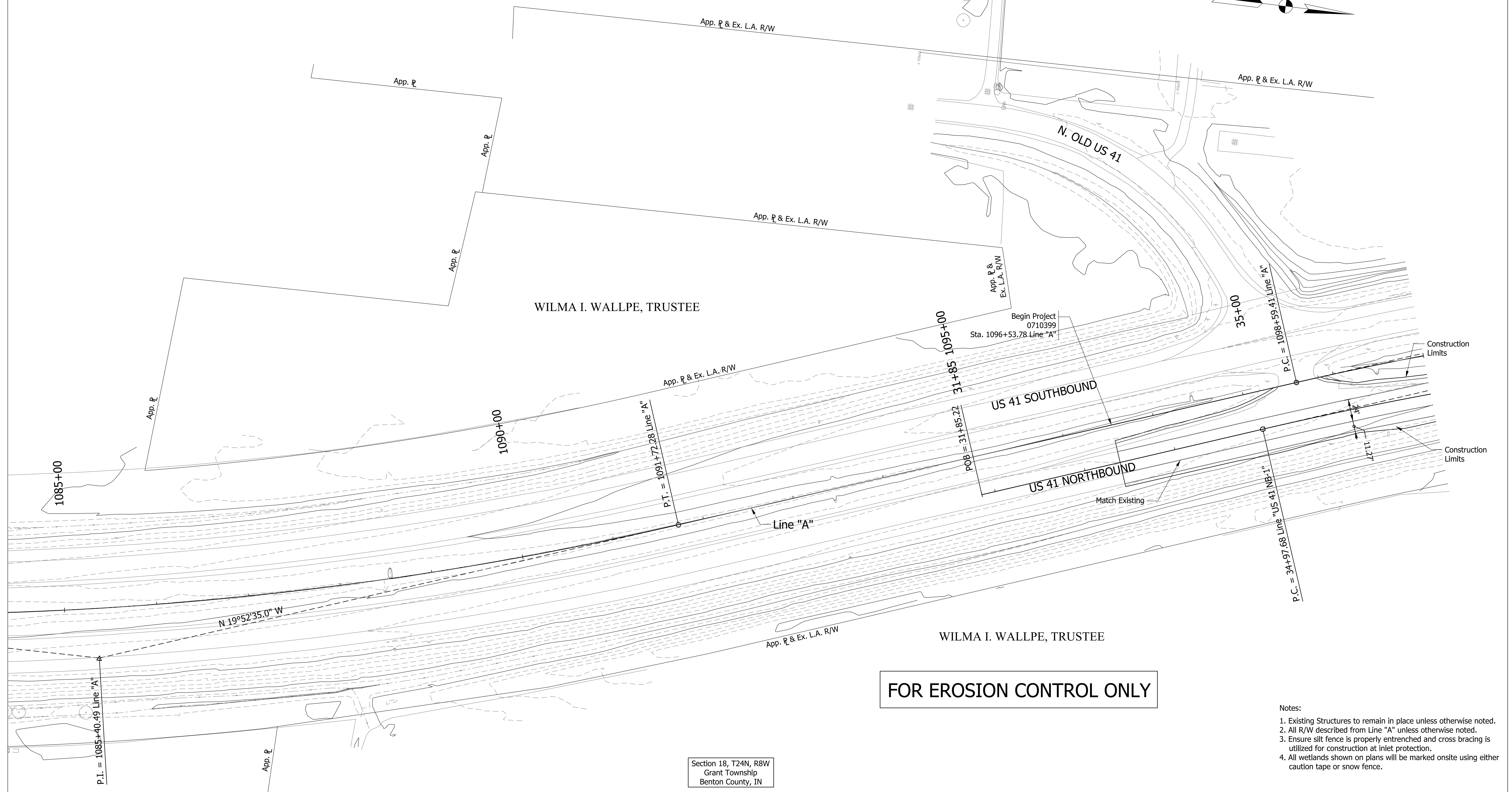
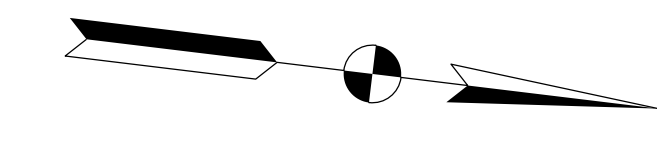
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STR. 041-4-197.67

SCALE	BRIDGE FILE
1" = 20'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	65 of 162
CONTRACT	PROJECT
R-32258	0710399

CURVE DATA
 PI = 1085+40.49 "US 41"
 Delta = 19°08'00" Lt.
 D = 1°30'00"
 R = 3819.72 ft
 T = 643.77 ft
 L = 1275.56 ft
 E = 53.87 ft
 SE = NA

Section 13, T24N, R9W
 Grant Township
 Benton County, IN

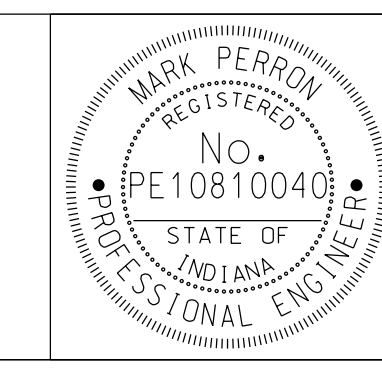


FOR EROSION CONTROL ONLY

- Notes:
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 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

- SF- Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T

Section 18, T24N, R8W
 Grant Township
 Benton County, IN



RECOMMENDED FOR APPROVAL: *Mark Perron*
 DESIGN ENGINEER
 DATE: 10/04/2013

DESIGNED: DCK DRAWN: SJC
 CHECKED: MDP CHECKED: DCK

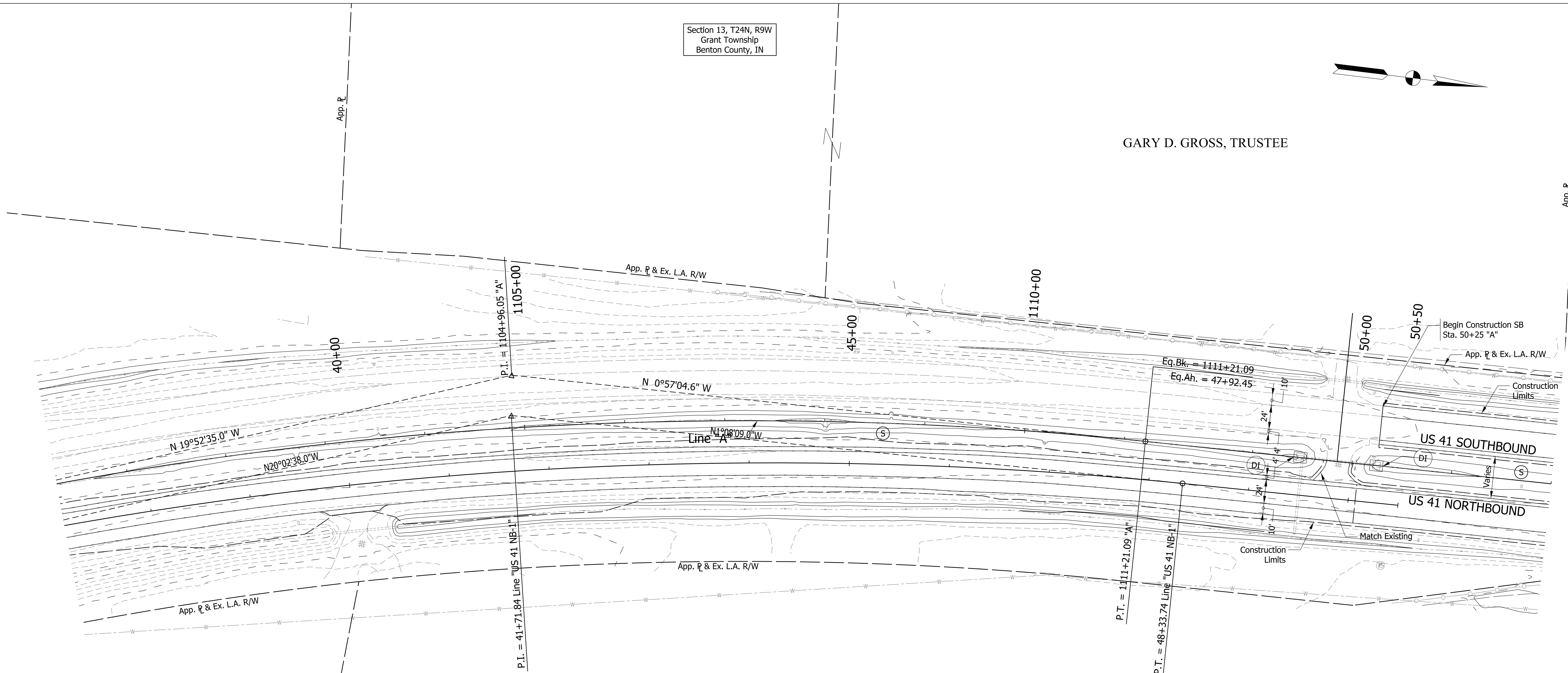
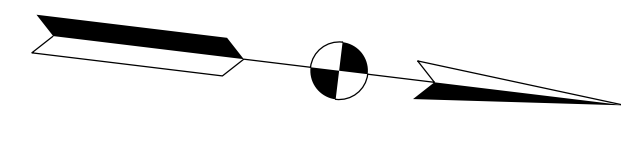
INDIANA
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
 LINE "A"
 STA. 1095+00 TO STA. 1110+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 66 of 162
CONTRACT R-32258	PROJECT 0710399

Section 13, T24N, R9W
Grant Township
Benton County, IN

GARY D. GROSS, TRUSTEE



CURVE DATA
 PI = 1104+96.05 "A"
 Delta = 18°55'30" Rt.
 D = 1°30'00"
 R = 3819.72 ft
 T = 636.64 ft
 L = 1261.67 ft
 E = 52.69 ft
 SE = NA

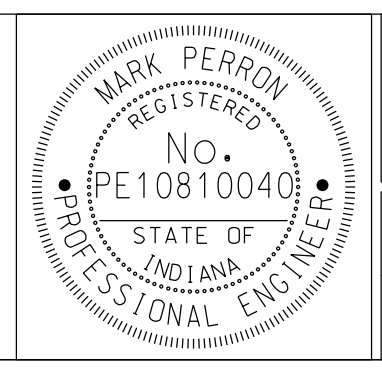
WILMA I. WALLPE, TRUSTEE

FOR EROSION CONTROL ONLY

Section 18, T24N, R8W
Grant Township
Benton County, IN

- Notes:
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- SF— Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



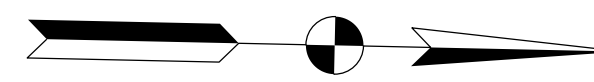
RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013
DESIGNED:	DCK	DRAWN:	SJC
CHECKED:	MDP	CHECKED:	DCK

INDIANA
DEPARTMENT OF TRANSPORTATION

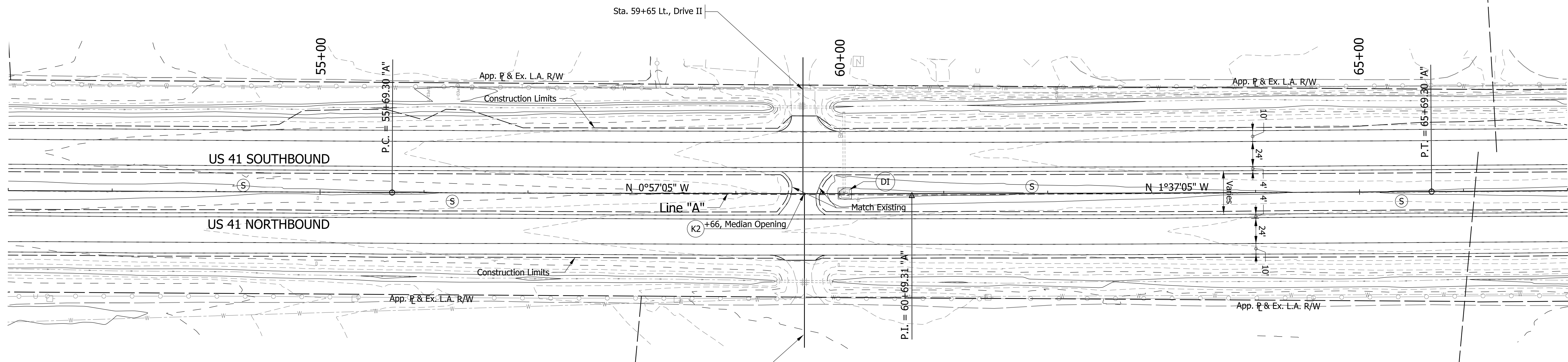
**EROSION CONTROL PLAN
LINE "A"
STA. 1110+00 TO STA. 52+00**

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 67 of 162
CONTRACT R-32258	PROJECT 0710399

Section 13, T24N, R9W
Grant Township
Benton County, IN



KIRSCH, GERALD W.



WILMA I. WALLPE, TRUSTEE

BUCHANAN, BRUCE A.

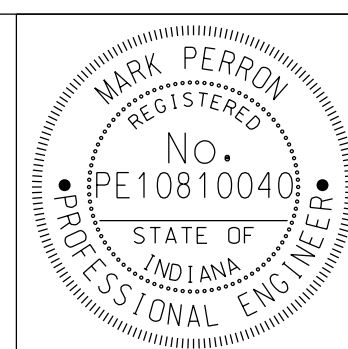
CURVE DATA
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 Delta = 0°40'00" Lt.
 D = 0°04'00"
 R = 85943.67 ft
 T = 500.01 ft
 L = 1000.00 ft
 E = 1.45 ft
 SE = N.C.

FOR EROSION CONTROL ONLY

- Notes:
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Section 18, T24N, R8W
Grant Township
Benton County, IN

- SF— Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

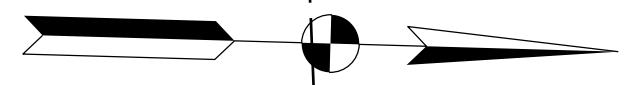
DESIGNED: DCK DRAWN: SJC
 CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN
 LINE "A"
 STA. 52+00 TO STA. 67+00**

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 68 of 162
CONTRACT R-32258	PROJECT 0710399

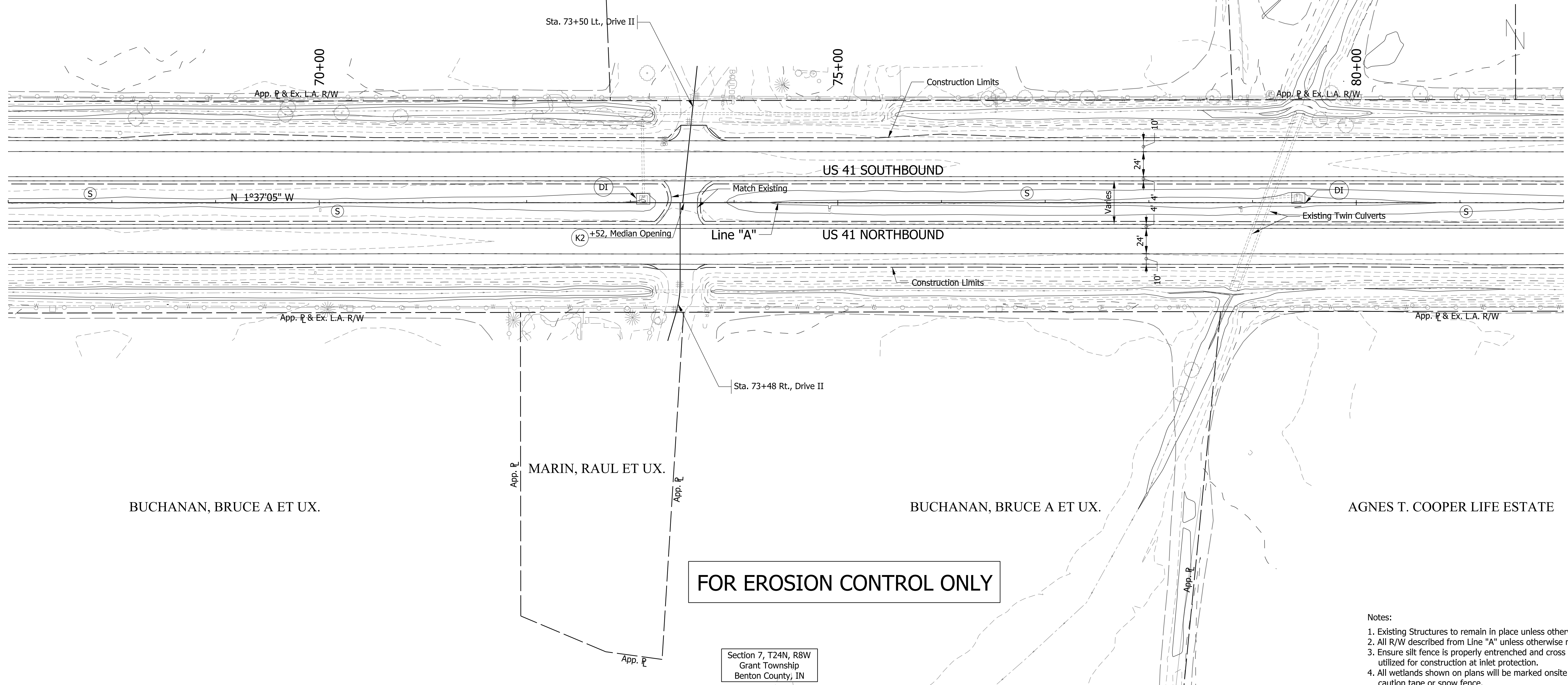
Section 12, T24N, R9W
Grant Township
Benton County, IN



AGNES T. COOPER LIFE ESTATE

COOPER, DEAN SCOTT ET UX.

RAYMOND J. WETLI, TRUSTEE



FOR EROSION CONTROL ONLY

Section 7, T24N, R8W
Grant Township
Benton County, IN

- Notes:
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- (RRM) Check Dam Modified
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- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013	DATE
DESIGNED:	DCK	DRAWN:	SJC	
CHECKED:	MDP	CHECKED:	DCK	

INDIANA
DEPARTMENT OF TRANSPORTATION

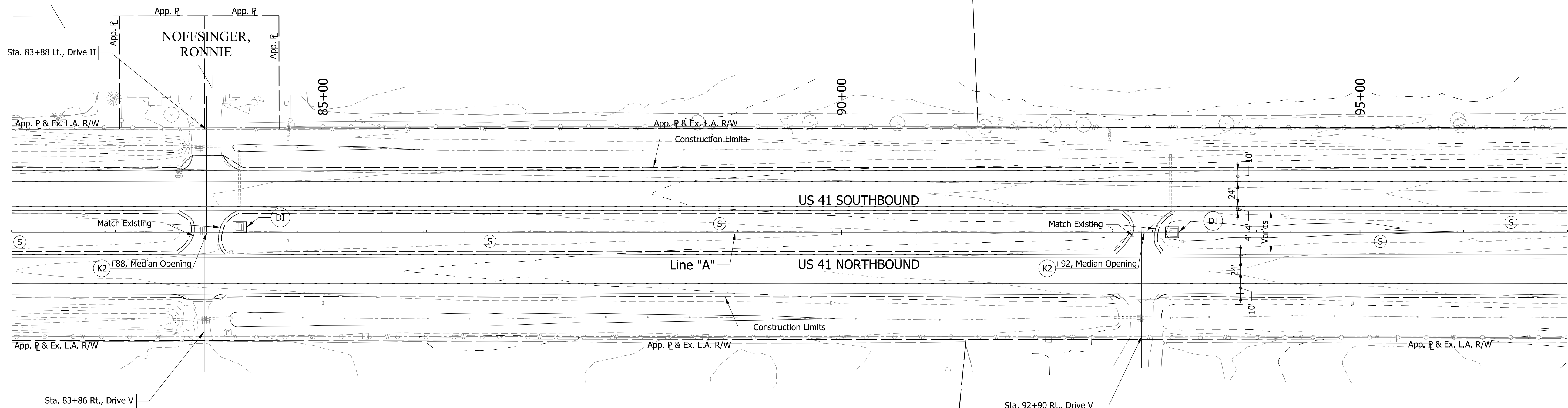
EROSION CONTROL PLAN
LINE "A"
STA. 67+00 TO STA. 82+00

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	69 of 162
CONTRACT	PROJECT
R-32258	0710399

Section 12, T24N, R9W
Grant Township
Benton County, IN



RAYMOND J. WETLI, TRUSTEE



AGNES T. COOPER LIFE ESTATE

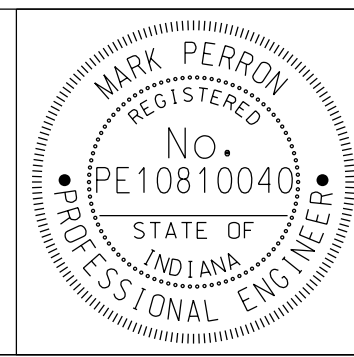
STEMBEL, JOHN LARM ET AL.

FOR EROSION CONTROL ONLY

Section 7, T24N, R8W
Grant Township
Benton County, IN

- Notes:
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- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL: *Mark Perron*
DESIGN ENGINEER
DATE: 10/04/2013

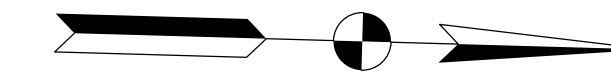
DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE "A"
STA. 82+00 TO STA. 97+00

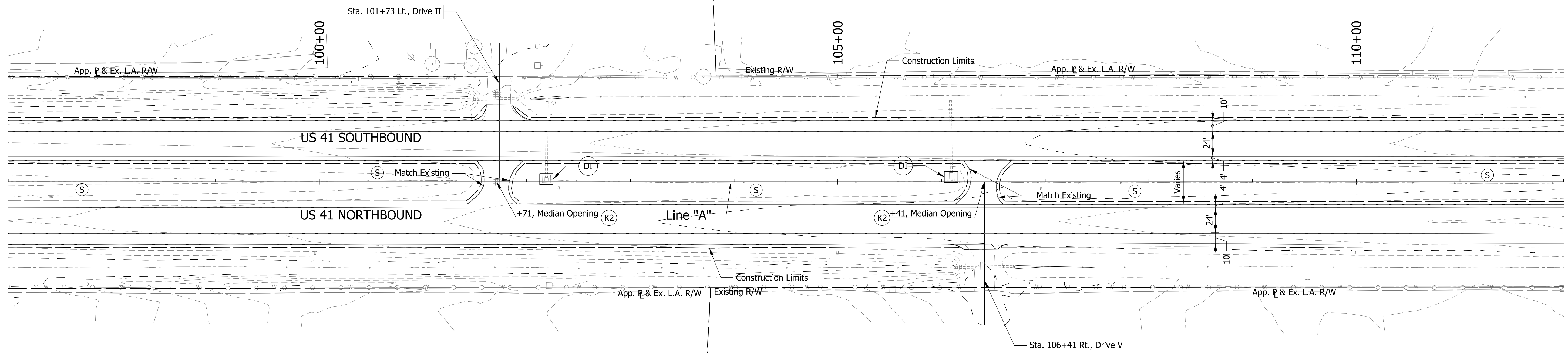
SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 70 of 162
CONTRACT R-32258	PROJECT 0710399

Section 12, T24N, R9W
Grant Township
Benton County, IN



RAYMOND J. WETLI, TRUSTEE

WETLI GROVE FARMS LLC



STEMBEL, JOHN LARM ET AL.

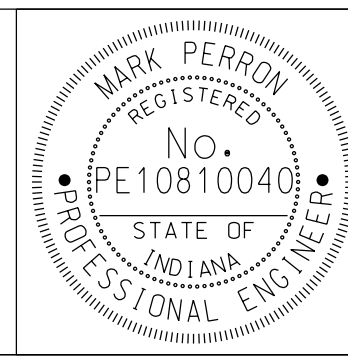
McDANIEL, IDA E. TRUST

FOR EROSION CONTROL ONLY

Section 7, T24N, R8W
Grant Township
Benton County, IN

- Notes:
- Existing Structures to remain in place unless otherwise noted.
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- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: DCK DRAWN: SJC

CHECKED: MDP CHECKED: DCK

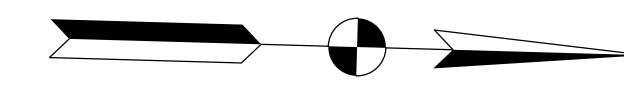
INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE "A"
STA. 97+00 TO STA. 112+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 71 of 162
CONTRACT R-32258	PROJECT 0710399

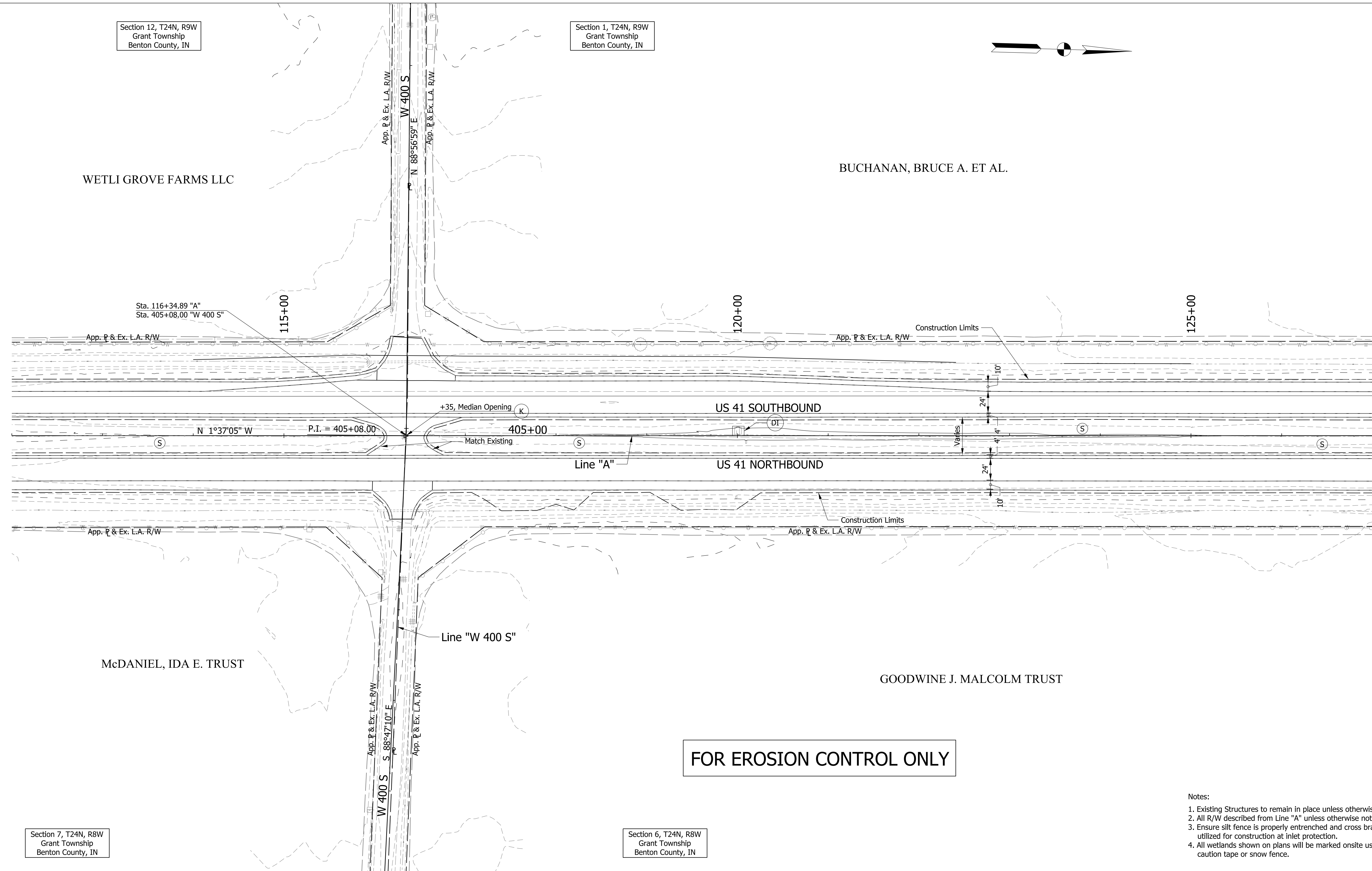
Section 12, T24N, R9W
Grant Township
Benton County, IN

Section 1, T24N, R9W
Grant Township
Benton County, IN



WETLI GROVE FARMS LLC

BUCHANAN, BRUCE A. ET AL.



McDANIEL, IDA E. TRUST

GOODWINE J. MALCOLM TRUST

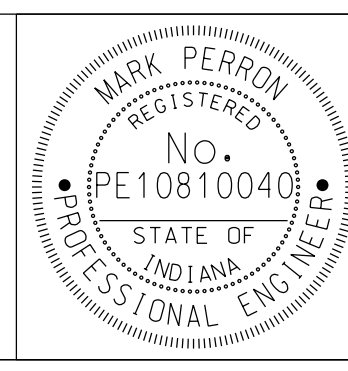
FOR EROSION CONTROL ONLY

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- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T

Section 7, T24N, R8W
Grant Township
Benton County, IN

Section 6, T24N, R8W
Grant Township
Benton County, IN



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: DCK DRAWN: SJC

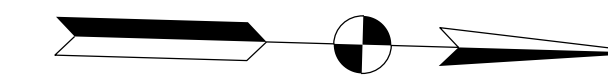
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

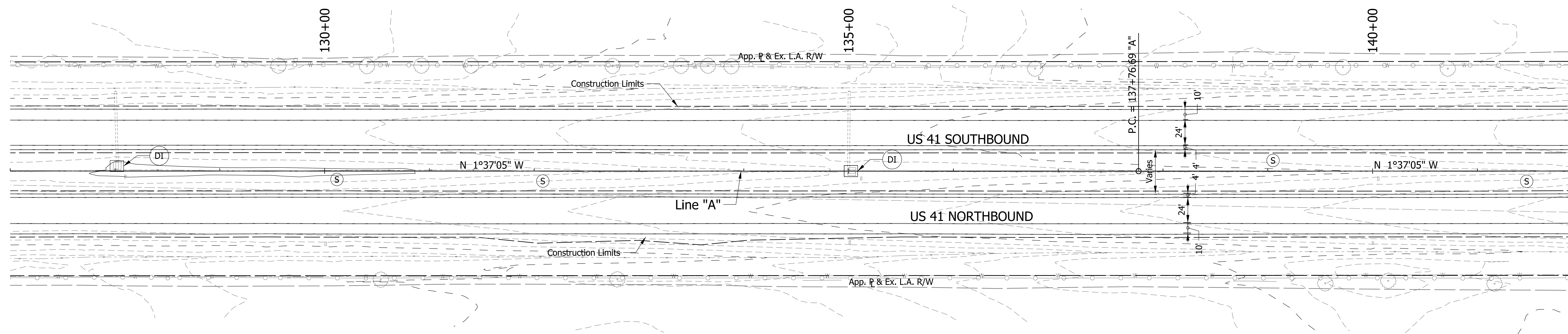
EROSION CONTROL PLAN
LINE "A"
STA. 112+00 TO STA. 127+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 72 of 162
CONTRACT R-32258	PROJECT 0710399

Section 1, T24N, R9W
Grant Township
Benton County, IN



BUCHANAN, BRUCE A. ET AL.



CURVE DATA
PI = 142+76.69 "A"
Delta = 0°10'00" Lt.
D = 0°01'00"
R = 343543.11 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.36 ft
SE = N.C.

GOODWINE J. MALCOLM TRUST

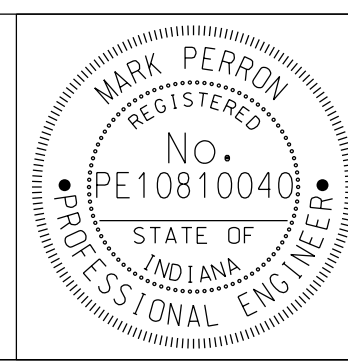
FOR EROSION CONTROL ONLY

Notes:

- Existing Structures to remain in place unless otherwise noted.
- All R/W described from Line "A" unless otherwise noted.
- Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
- All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

Section 6, T24N, R8W
Grant Township
Benton County, IN

- SF— Silt Fence
- ⊙(RRM) Check Dam Modified
- ⊙(DI) Temporary Ditch Inlet Protection
- ⊙(S) Seed Mixture, T



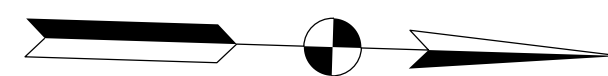
RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013	DATE
DESIGNED:	DCK	DRAWN:	SJC	
CHECKED:	MDP	CHECKED:	DCK	

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE "A"
STA. 127+00 TO STA. 142+00

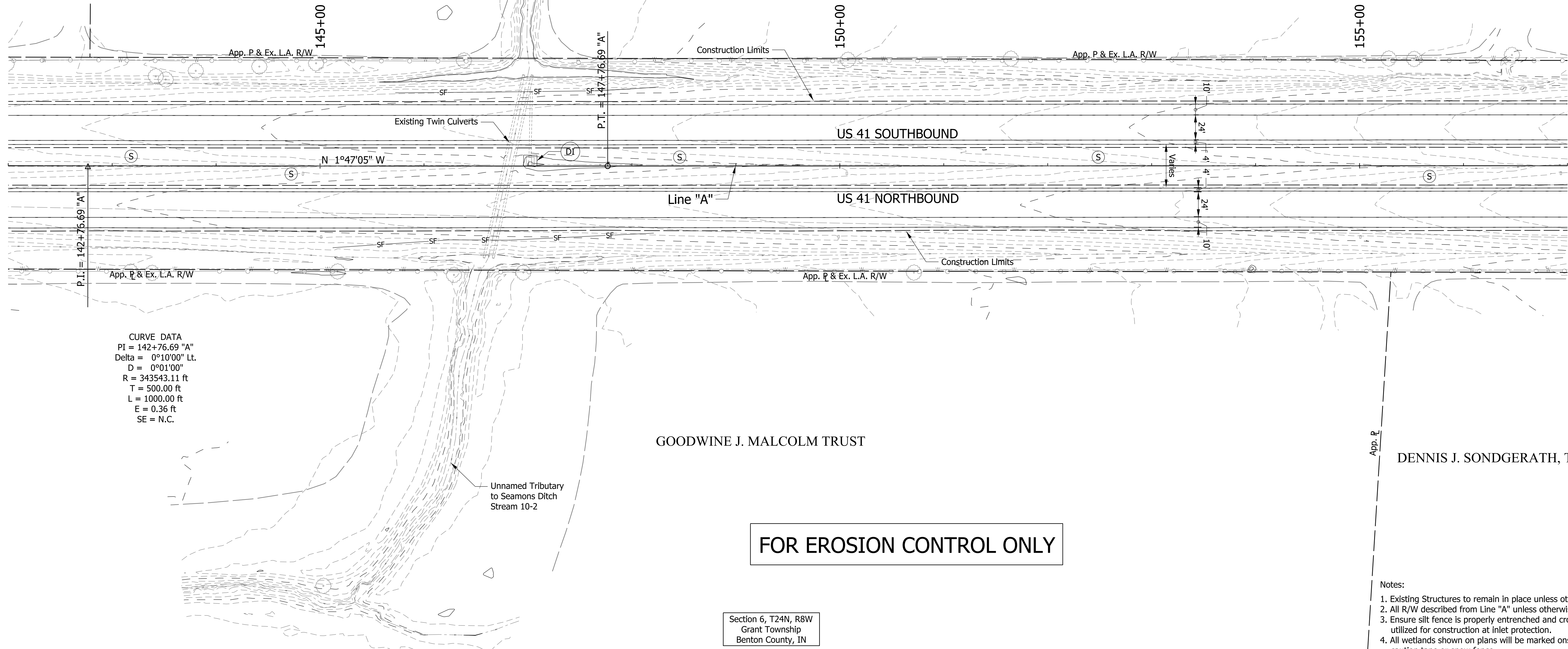
SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	73 of 162
CONTRACT	PROJECT
R-32258	0710399

Section 1, T24N, R9W
Grant Township
Benton County, IN



BUCHANAN,
BRUCE A.
ET AL.

MILES, MITCHELL LEE ET UX.



CURVE DATA
PI = 142+76.69 "A"
Delta = 0°10'00" Lt.
D = 0°01'00"
R = 343543.11 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.36 ft
SE = N.C.

GOODWINE J. MALCOLM TRUST

DENNIS J. SONDBERATH, TRUSTEE

FOR EROSION CONTROL ONLY

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

- SF— Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: DCK DRAWN: SJG
CHECKED: MDP CHECKED: DCK

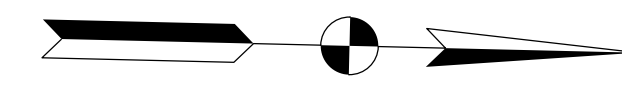
INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE "A"
STA. 142+00 TO STA. 157+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 74 of 162
CONTRACT R-32258	PROJECT 0710399

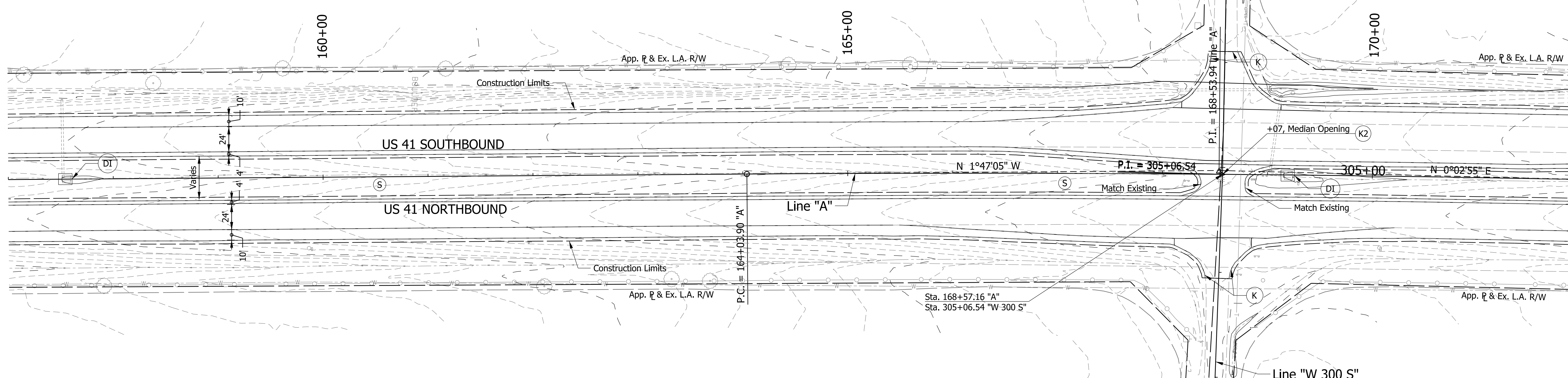
Section 1, T24N, R9W
Grant Township
Benton County, IN

Section 36, T25N, R9W
Parish Grove Township
Benton County, IN



MILES, MITCHELL LEE ET UX.

EDMONDS MARJORIE H. TRUST



DENNIS J. SONDBERATH, TRUSTEE

WETLI RAYMOND J. RL T

CURVE DATA
 PI = 168+53.93 "A"
 Delta = 1°50'00" Rt.
 D = 0°12'13"
 R = 28127.02 ft
 T = 450.04 ft
 L = 900.00 ft
 E = 3.60 ft
 SE = N.C.

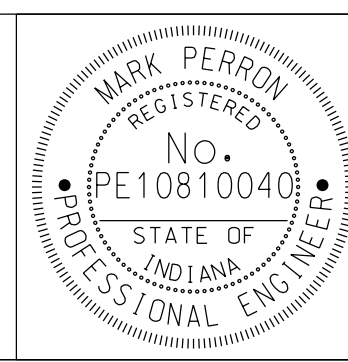
FOR EROSION CONTROL ONLY

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

Section 31, T25N, R8W
Center Township
Benton County, IN

Section 6, T24N, R8W
Grant Township
Benton County, IN

- SF- Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

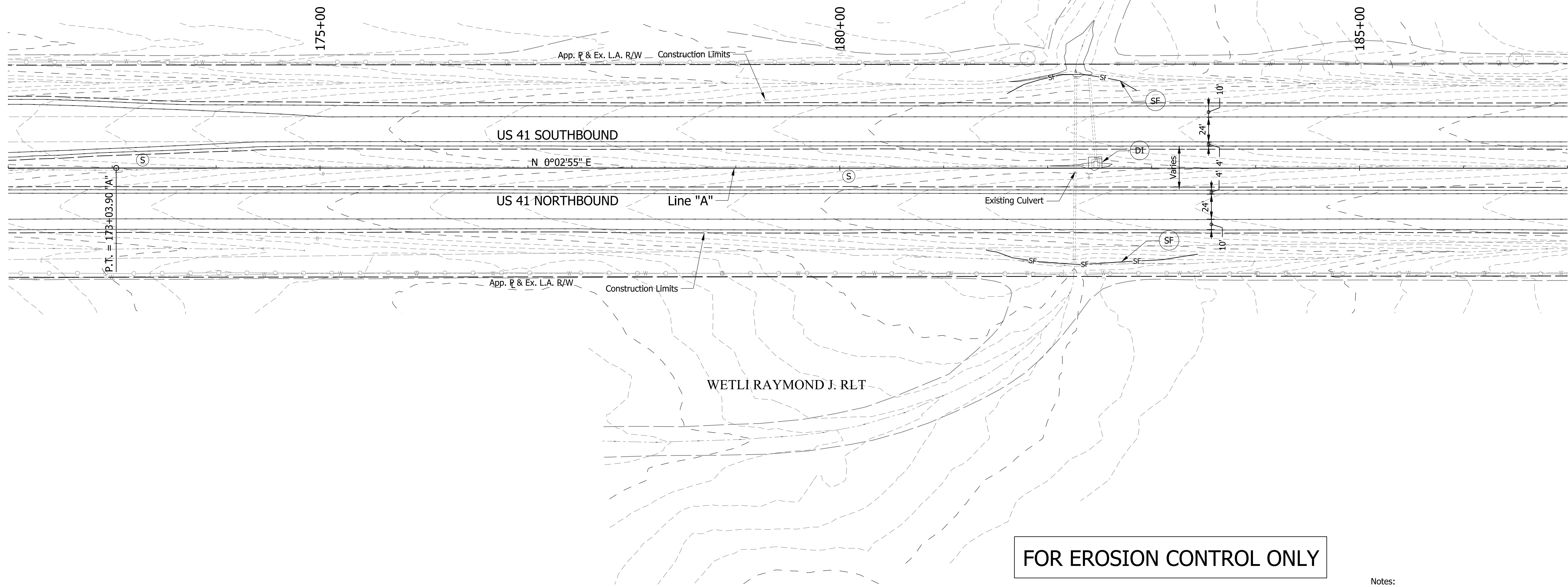
DESIGNED: DCK DRAWN: SJC
 CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION
 EROSION CONTROL PLAN
 LINE "A"
 STA. 157+00 TO STA. 172+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 75 of 162
CONTRACT R-32258	PROJECT 0710399

Section 36, T25N, R9W
Parish Grove Township
Benton County, IN

EDMONDS MARJORIE H. TRUST



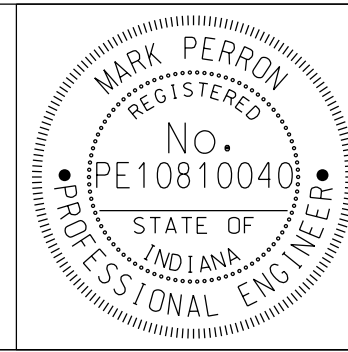
WETLI RAYMOND J. RLTY

FOR EROSION CONTROL ONLY

Section 31, T25N, R8W
Center Township
Benton County, IN

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

- SF— Silt Fence
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T
- (RRM) Check Dam Modified



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

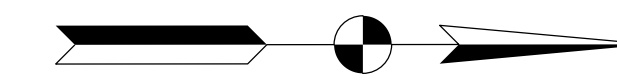
DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

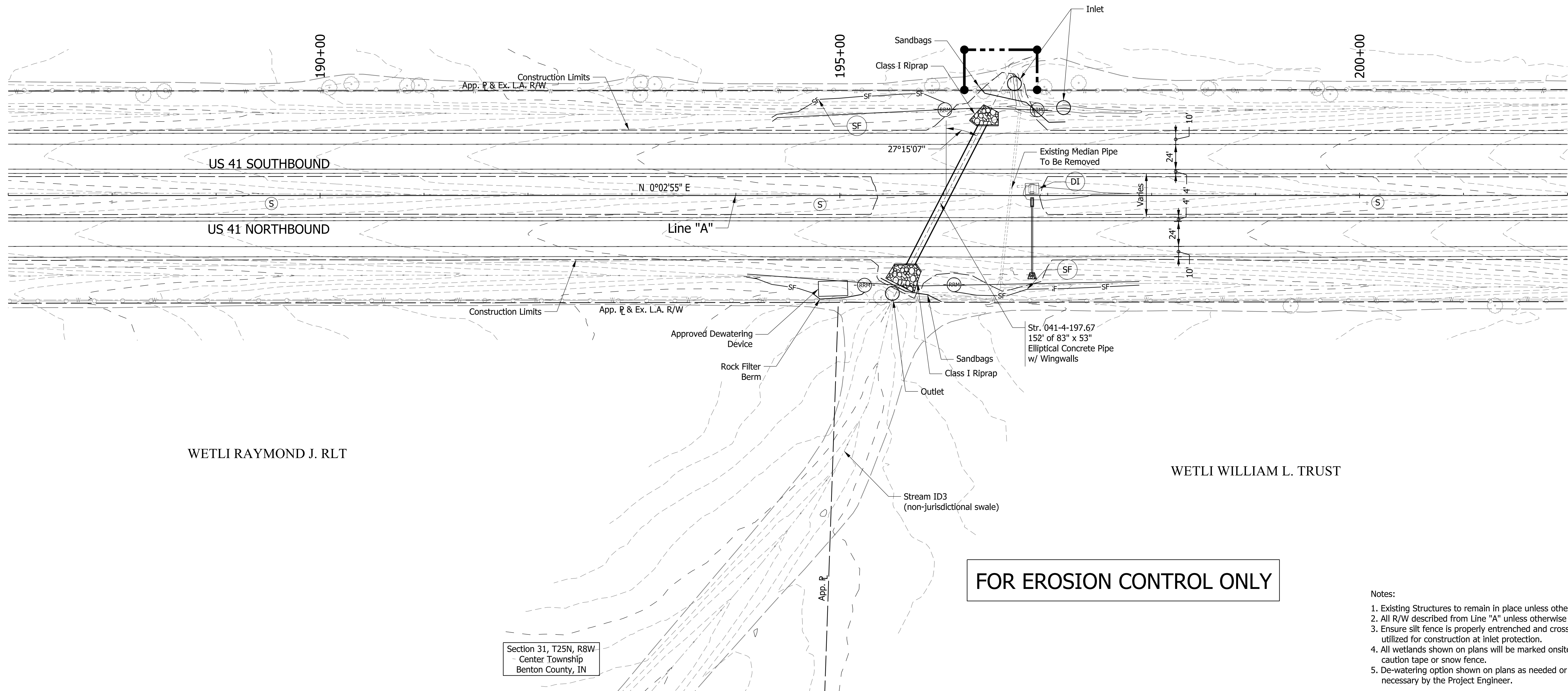
**EROSION CONTROL PLAN
LINE "A"
STA. 172+00 TO STA. 187+00**

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 76 of 162
CONTRACT R-32258	PROJECT 0710399

Section 36, T25N, R9W
Parish Grove Township
Benton County, IN



EDMONDS MARJORIE H. TRUST



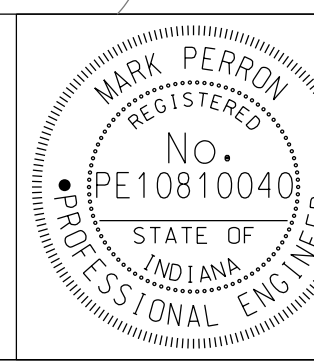
WETLI RAYMOND J. RLT

WETLI WILLIAM L. TRUST

FOR EROSION CONTROL ONLY

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.
 - De-watering option shown on plans as needed or deemed necessary by the Project Engineer.

- SF— Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

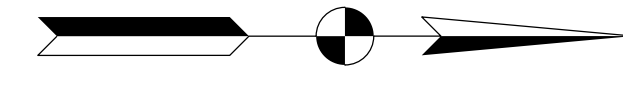
DESIGNED: DCK DRAWN: SJG
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE "A"
STA. 187+00 TO STA. 202+00

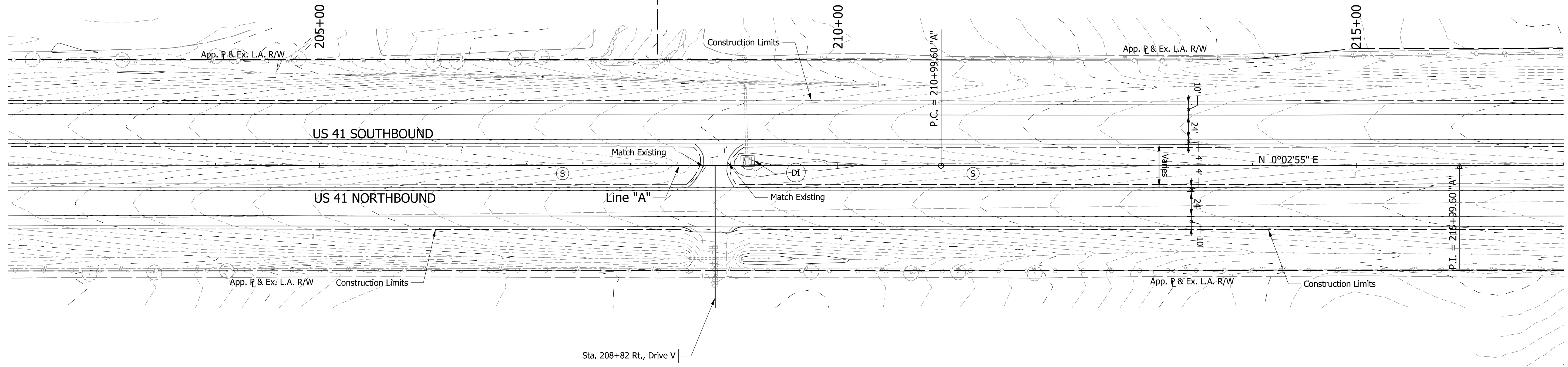
SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 77 of 162
CONTRACT R-32258	PROJECT 0710399

Section 36, T25N, R9W
Parish Grove Township
Benton County, IN



EDMONDS MARJORIE H. TRUST

WETLI JAMES E. TRUST



Sta. 208+82 Rt., Drive V

WETLI WILLIAM L. TRUST

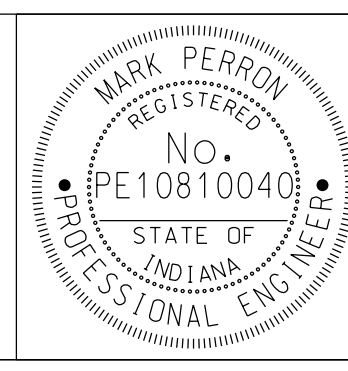
FOR EROSION CONTROL ONLY

CURVE DATA
 P.I. = 215+99.60 "A"
 Delta = 0°16'00" Lt.
 D = 0°01'36"
 R = 214949.73 ft
 T = 500.00 ft
 L = 1000.00 ft
 E = 0.58 ft
 SE = N.C.

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

Section 31, T25N, R8W
Center Township
Benton County, IN

- SF- Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

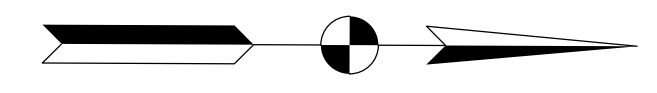
DESIGNED: DCK DRAWN: SJC
 CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION
 EROSION CONTROL PLAN
 LINE "A"
 STA. 202+00 TO STA. 217+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 78 of 162
CONTRACT R-32258	PROJECT 0710399

Section 36, T25N, R9W
Parish Grove Township
Benton County, IN

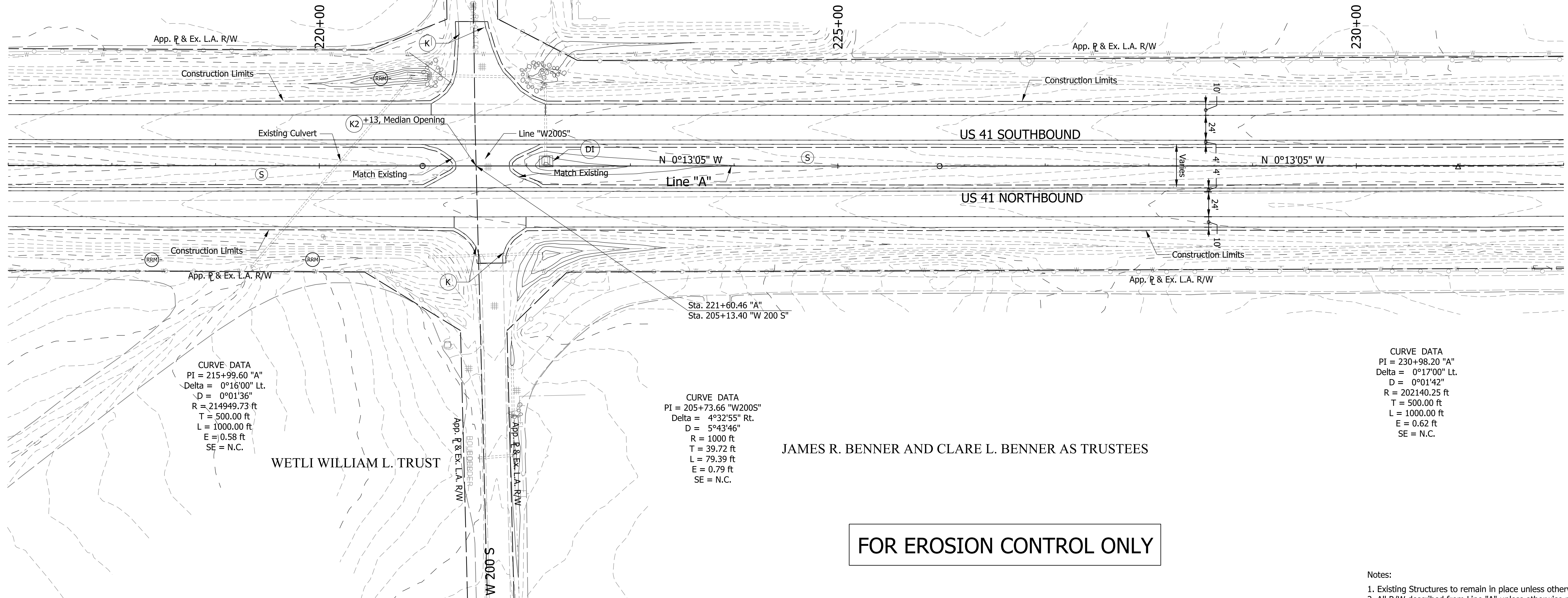
Section 25, T25N, R9W
Parish Grove Township
Benton County, IN



CURVE DATA
PI = 203+65.34 "W200S"
Delta = 5°29'01" Lt.
D = 9°32'57"
R = 600 ft
T = 28.73 ft
L = 57.42 ft
E = 0.69 ft
SE = N.C.

WETLI JAMES E. TRUST

GENEVA T. WETLI, TRUSTEE



CURVE DATA
PI = 215+99.60 "A"
Delta = 0°16'00" Lt.
D = 0°01'36"
R = 214949.73 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.58 ft
SE = N.C.

CURVE DATA
PI = 205+73.66 "W200S"
Delta = 4°32'55" Rt.
D = 5°43'46"
R = 1000 ft
T = 39.72 ft
L = 79.39 ft
E = 0.79 ft
SE = N.C.

CURVE DATA
PI = 230+98.20 "A"
Delta = 0°17'00" Lt.
D = 0°01'42"
R = 202140.25 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.62 ft
SE = N.C.

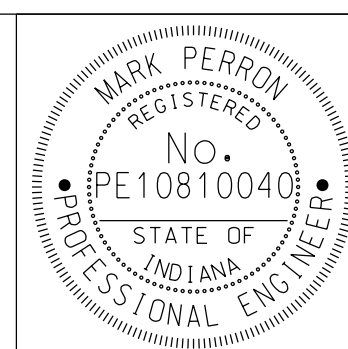
FOR EROSION CONTROL ONLY

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

Section 31, T25N, R8W
Center Township
Benton County, IN

Section 30, T25N, R8W
Center Township
Benton County, IN

- SF— Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL: *Mark Perron* DESIGN ENGINEER, 10/04/2013 DATE

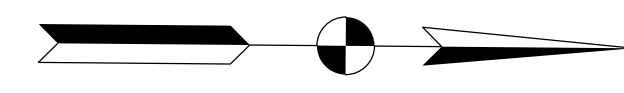
DESIGNED: DCK DRAWN: SJG
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

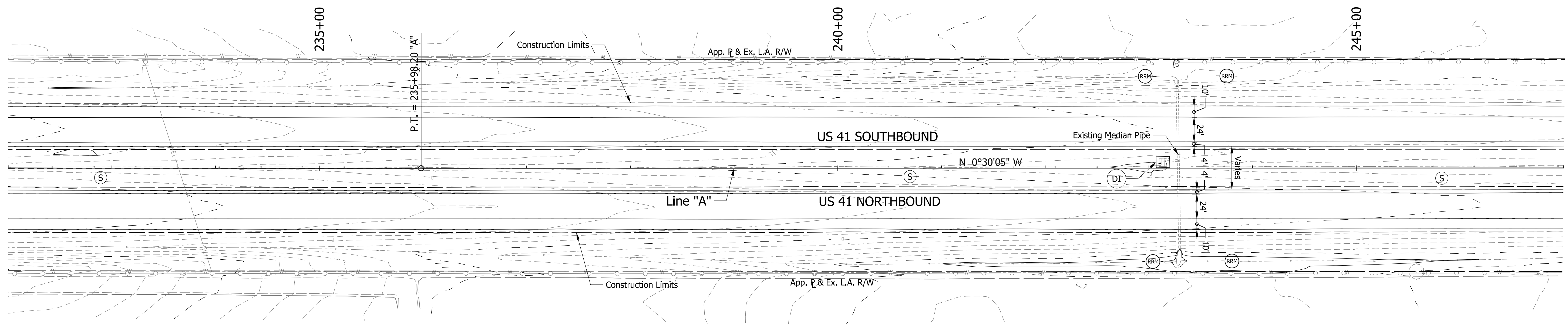
EROSION CONTROL PLAN
LINE "A"
STA. 217+00 TO STA. 232+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 79 of 162
CONTRACT R-32258	PROJECT 0710399

Section 25, T25N, R9W
Parish Grove Township
Benton County, IN



GENEVA T. WETLI, TRUSTEE



CURVE DATA
PI = 230+98.20 "A"
Delta = 0°17'00" Lt.
D = 0°01'42"
R = 202140.25 ft
T = 500.00 ft
L = 1000.00 ft
E = 0.62 ft
SE = N.C.

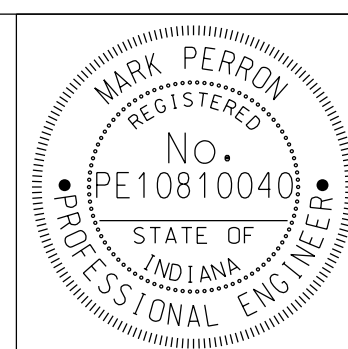
JAMES R. BENNER AND CLARE L. BENNER AS TRUSTEES

FOR EROSION CONTROL ONLY

Section 30, T25N, R8W
Center Township
Benton County, IN

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

- SF— Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

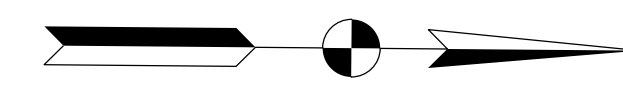
DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE "A"
STA. 232+00 TO STA. 247+00

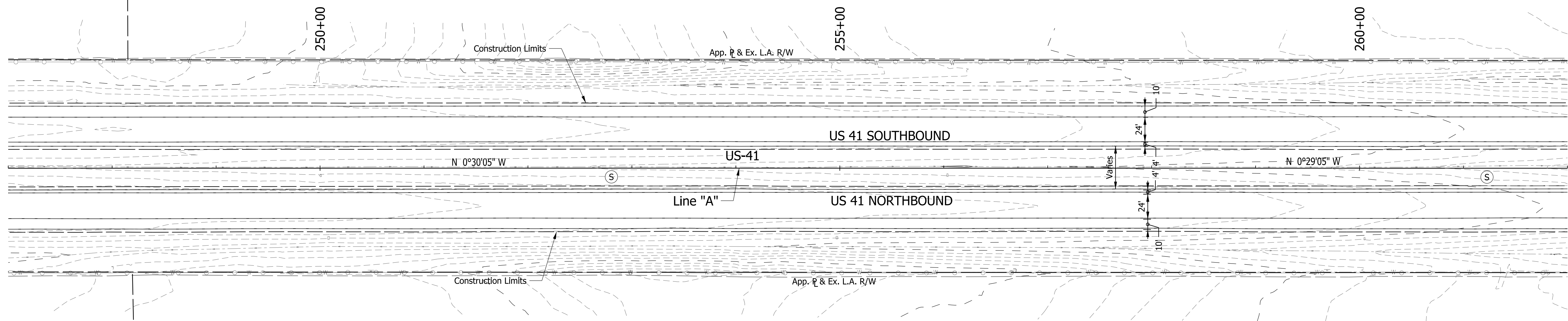
SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 80 of 162
CONTRACT R-32258	PROJECT 0710399

Section 25, T25N, R9W
Parish Grove Township
Benton County, IN



GENEVA T. WETLI,
TRUSTEE

MAXINE M. WETLI, TRUSTEE



JAMES R. BENNER AND CLARE L. BENNER AS TRUSTEES

FOR EROSION CONTROL ONLY

Section 30, T25N, R8W
Center Township
Benton County, IN

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

- SF— Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: DCK DRAWN: SJC

CHECKED: MDP CHECKED: DCK

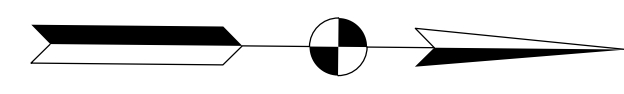
INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE "A"
STA. 247+00 TO STA. 262+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 81 of 162
CONTRACT R-32258	PROJECT 0710399

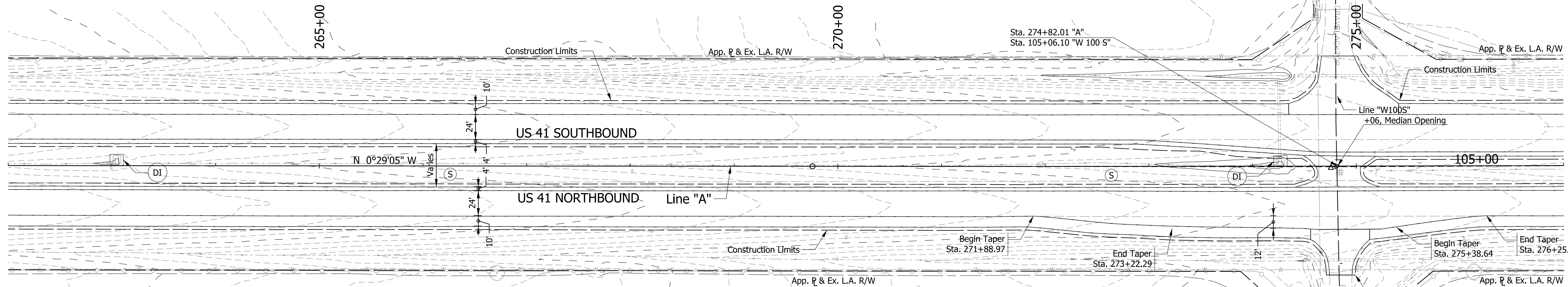
Section 25, T25N, R9W
Parish Grove Township
Benton County, IN

Section 24, T25N, R9W
Parish Grove Township
Benton County, IN



MAXINE M. WETLI, TRUSTEE

STEPHEN, DENNIS W. ET AL.



JAMES R. BENNER AND CLARE L. BENNER AS TRUSTEES

F & L FARMS FAMILY LIMITED PARTNERSHIP

FOR EROSION CONTROL ONLY

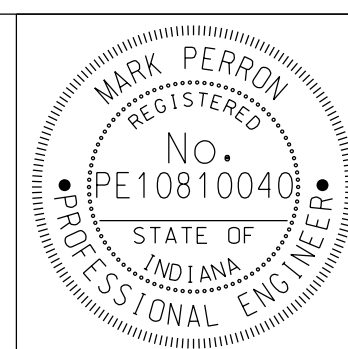
CURVE DATA
 PI = 274+75.59 "A"
 Delta = 0°18'30" Lt.
 D = 0°01'51"
 R = 185756.47 ft
 T = 500.00 ft
 L = 1000.00 ft
 E = 0.67 ft
 SE = N.C.

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

Section 30, T25N, R8W
Center Township
Benton County, IN

Section 19, T25N, R8W
Center Township
Benton County, IN

- SF— Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



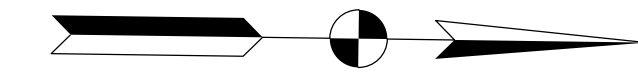
RECOMMENDED FOR APPROVAL: *Mark Perron*
 DESIGN ENGINEER DATE: 10/04/2013

DESIGNED: DCK DRAWN: SJC
 CHECKED: MDP CHECKED: DCK

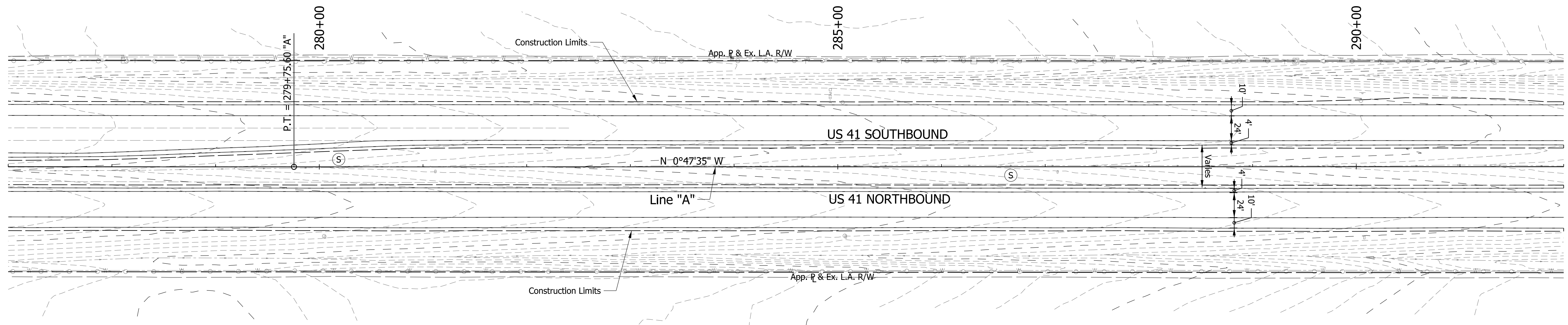
INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
LINE "A"
STA. 262+00 TO STA. 277+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 82 of 162
CONTRACT R-32258	PROJECT 0710399

Section 24, T25N, R9W
 Parish Grove Township
 Benton County, IN



STEPHEN, DENNIS W. ET AL.



CURVE DATA
 PI = 274+75.59 "A"
 Delta = 0°18'30" Lt.
 D = 0°01'51"
 R = 185756.47 ft
 T = 500.00 ft
 L = 1000.00 ft
 E = 0.67 ft
 SE = N.C.

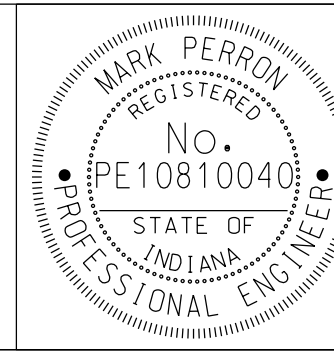
F & L FARMS FAMILY LIMITED PARTNERSHIP

FOR EROSION CONTROL ONLY

Section 19, T25N, R8W
 Center Township
 Benton County, IN

- Notes:
- Existing Structures to remain in place unless otherwise noted.
 - All R/W described from Line "A" unless otherwise noted.
 - Ensure silt fence is properly entrenched and cross bracing is utilized for construction at inlet protection.
 - All wetlands shown on plans will be marked onsite using either caution tape or snow fence.

- SF— Silt Fence
- (RRM) Check Dam Modified
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: DCK DRAWN: SJC
 CHECKED: MDP CHECKED: DCK

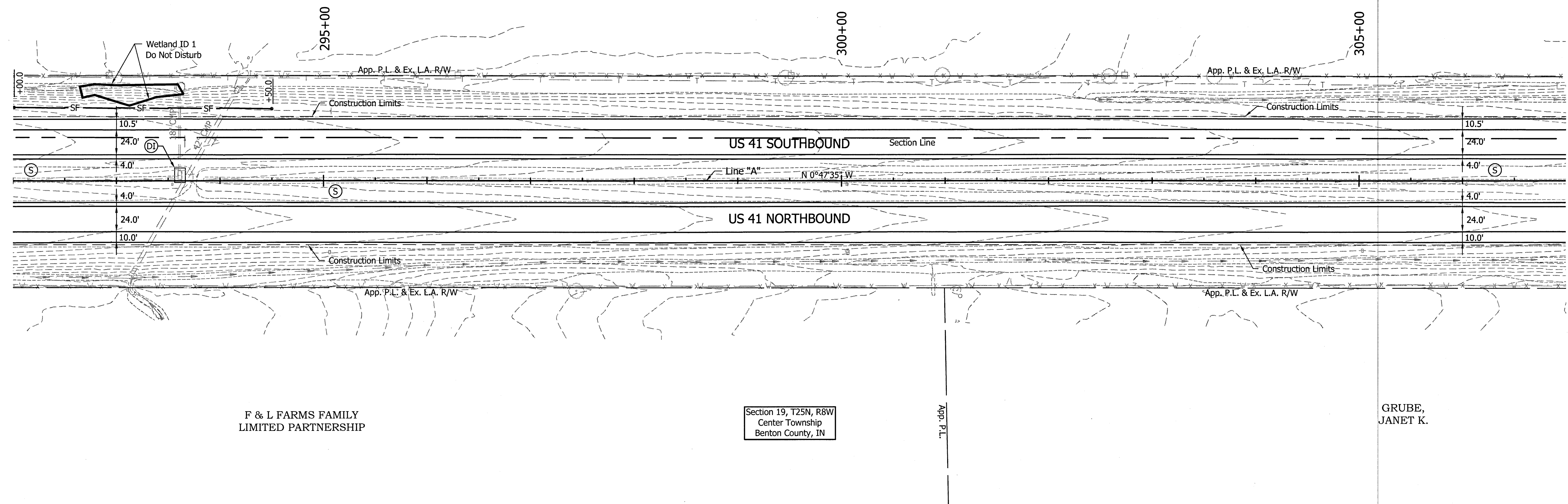
INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
 LINE "A"
 STA. 277+00 TO STA. 292+00

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 83 of 162
CONTRACT R-32258	PROJECT 0710399

Section 24, T25N, R9W
Parish Grove Township
Benton County, IN

STEPHEN, DENNIS W. ET AL.



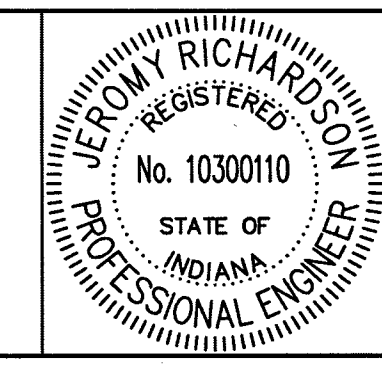
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- ⓓ Temporary Ditch Inlet Protection
- Ⓢ Seed Mixture, T

FOR EROSION CONTROL ONLY

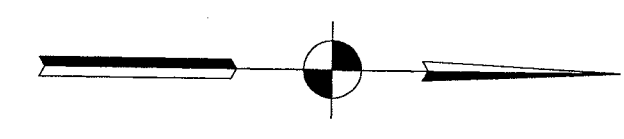


RECOMMENDED FOR APPROVAL *Jeromy Richardson* 11-1-13
DESIGN ENGINEER DATE
DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
STA. 292+00 TO STA. 307+00

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 0710399
SURVEY BOOK	SHEETS
	84 of 162
CONTRACT R-32258	PROJECT 0710399

File Name: P:\CD\12-06-02\Road\Draw\Plan\Plan US41 - Erosion Control.dwg Plot Date: 11/1/2013 Plotted By: Nino, John



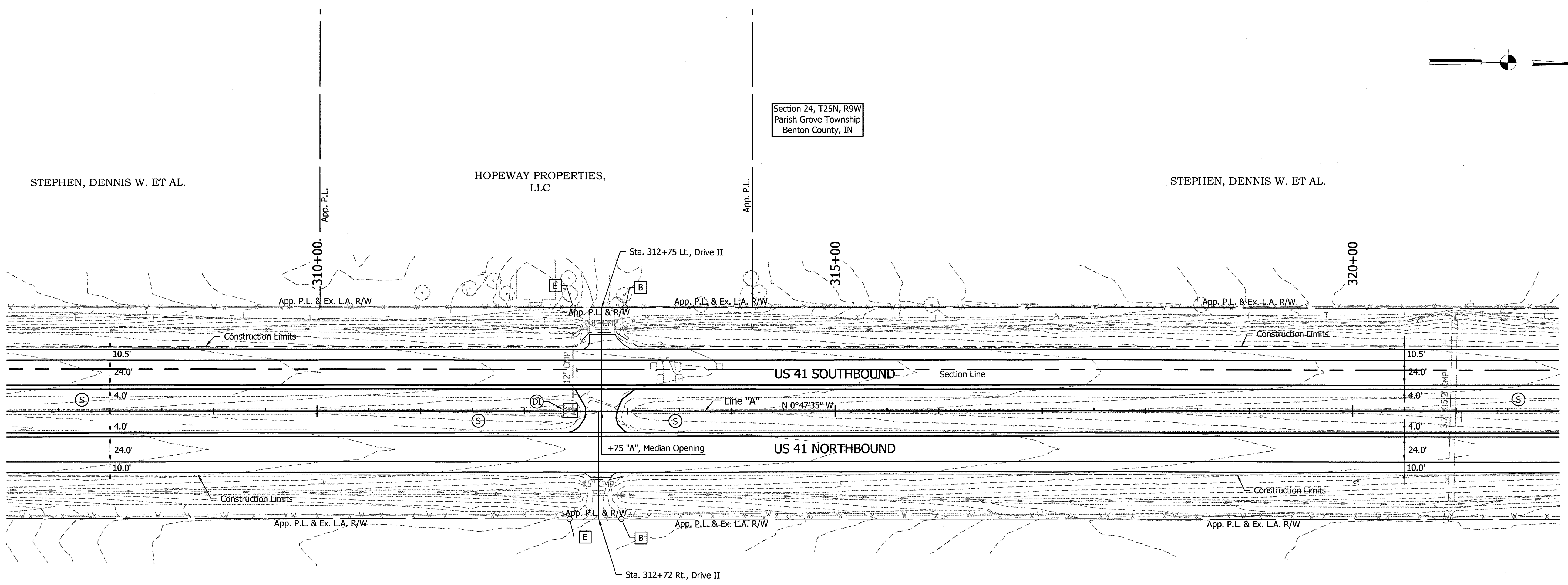
STEPHEN, DENNIS W. ET AL.

HOPEWAY PROPERTIES, LLC

STEPHEN, DENNIS W. ET AL.

Section 24, T25N, R9W
Parish Grove Township
Benton County, IN

Section 19, T25N, R8W
Center Township
Benton County, IN



FOR EROSION CONTROL ONLY

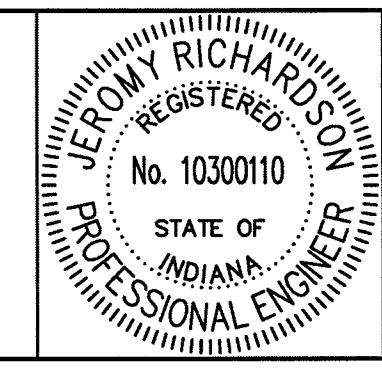
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T

File Name: P:\CSD\12-404-02\Road\Draw\Plans\Plan US41 - Erosion Control.dwg Plot Date: 11/17/2013 Plotted By: Nirmz, John



RECOMMENDED FOR APPROVAL: *Jeffrey Richardson* 11-1-13
DESIGN ENGINEER DATE

DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 307+00 TO STA. 322+00

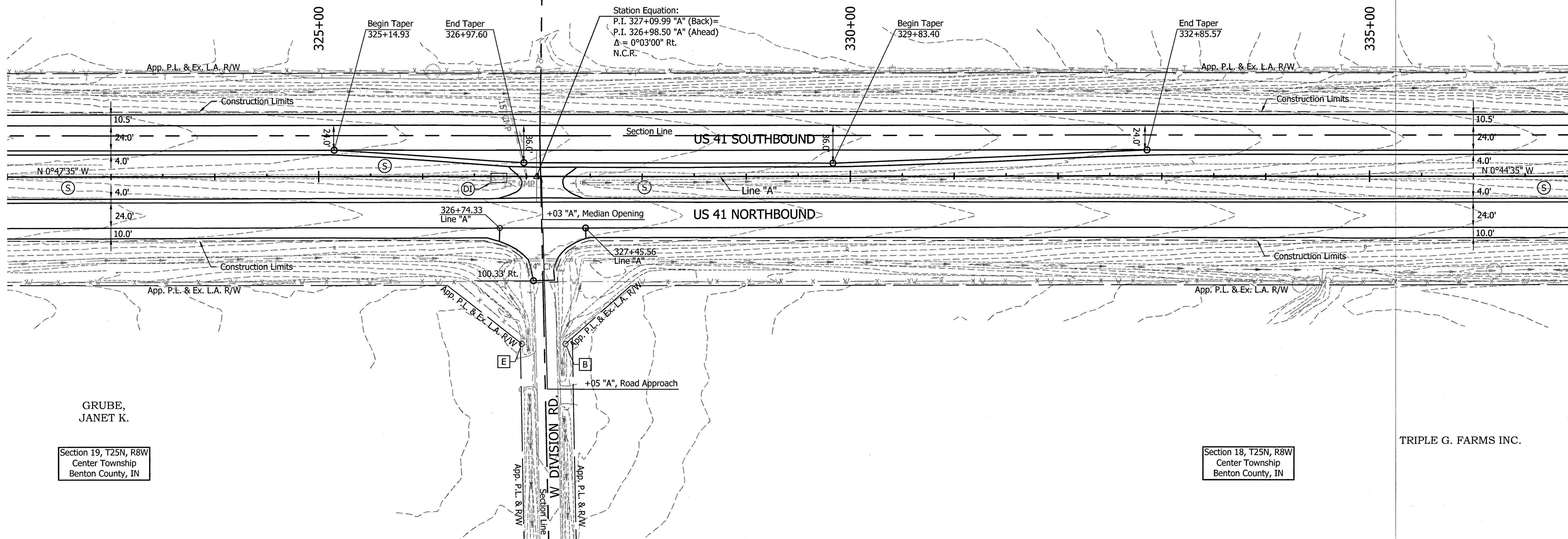
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 0710399
SURVEY BOOK	SHEETS 85 of 162
CONTRACT R-32258	PROJECT 0710399

Section 24, T25N, R9W
Parish Grove Township
Benton County, IN

Section 13, T25N, R9W
Parish Grove Township
Benton County, IN

STEPHEN, DENNIS W. ET AL.

RICHLAND FARMS, INC.



GRUBE,
JANET K.

Section 19, T25N, R8W
Center Township
Benton County, IN

Section 18, T25N, R8W
Center Township
Benton County, IN

TRIPLE G. FARMS INC.

EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

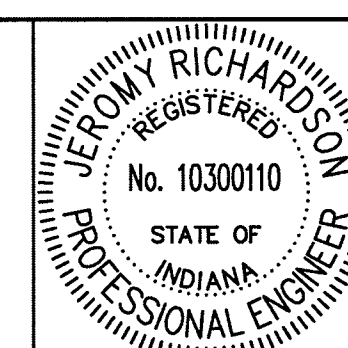
- SF — Silt Fence
- ⓓ Temporary Ditch Inlet Protection
- Ⓢ Seed Mixture, T

FOR EROSION CONTROL ONLY

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 322+00 TO STA. 337+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	86 of 162
CONTRACT	PROJECT
R-32258	0710399



RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 11-1-13
DESIGN ENGINEER DATE

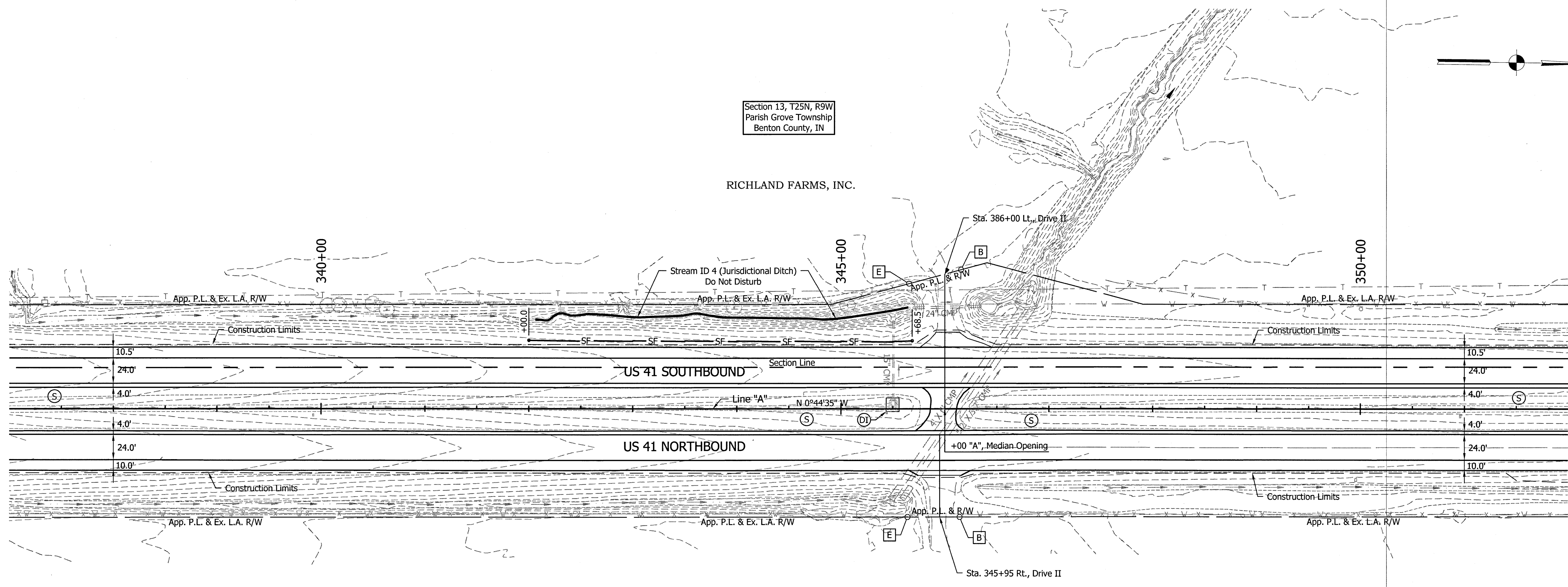
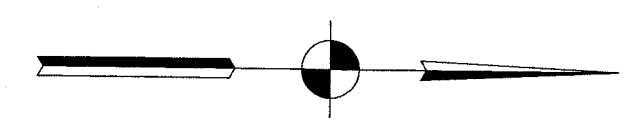
DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

Section 13, T25N, R9W
Parish Grove Township
Benton County, IN

RICHLAND FARMS, INC.

TRIPLE G. FARMS INC.

Section 18, T25N, R8W
Center Township
Benton County, IN



FOR EROSION CONTROL ONLY

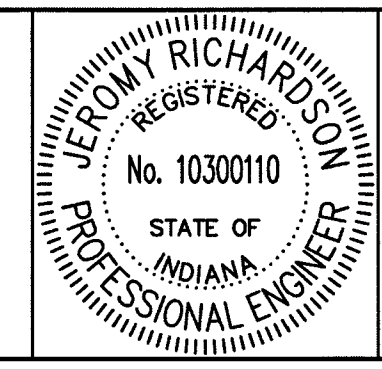
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T

File Name: P:\C1012-40-402(Road)\Dwg\Plans\Plan US51 - Erosion Control.dwg Plot Date: 11/17/2013 Plotted By: Nimz, John



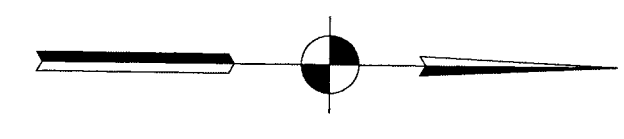
RECOMMENDED FOR APPROVAL
Jeremy Richardson 11-1-13
DESIGN ENGINEER DATE

DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 337+00 TO STA. 352+00

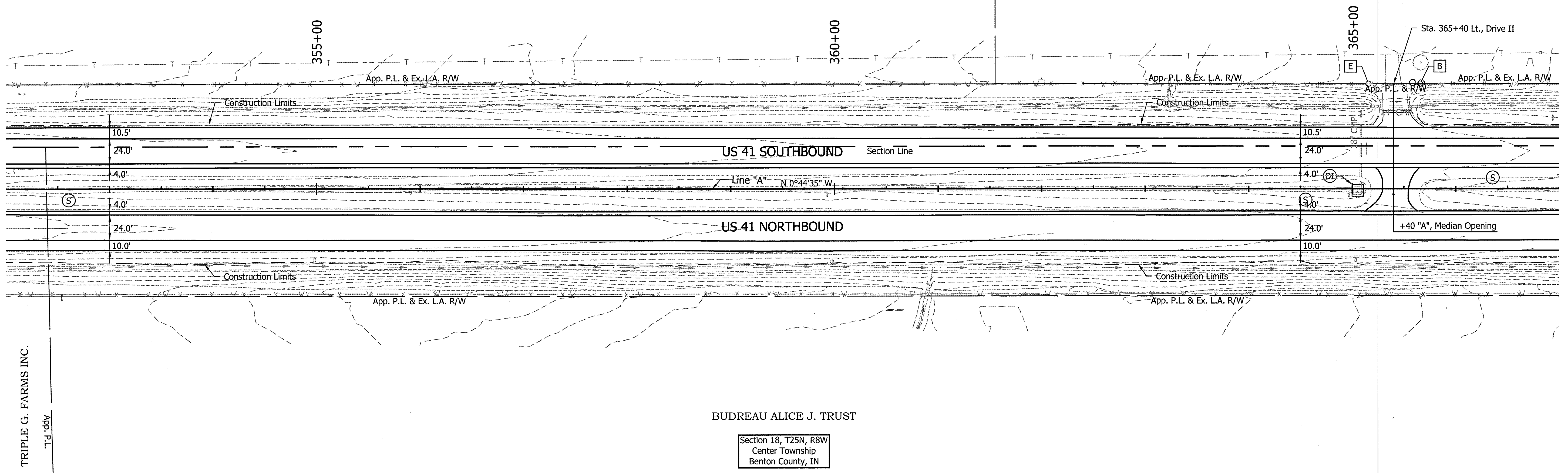
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE -
VERTICAL SCALE N/A	DESIGNATION 0710399
SURVEY BOOK -	SHEETS 87 of 162
CONTRACT R-32258	PROJECT 0710399



Section 13, T25N, R9W
Parish Grove Township
Benton County, IN

RICHLAND FARMS, INC.

GERALD P. BUDREAU TRUST



TRIPLE G. FARMS INC.
App. P.L.

BUDREAU ALICE J. TRUST

Section 18, T25N, R8W
Center Township
Benton County, IN

FOR EROSION CONTROL ONLY

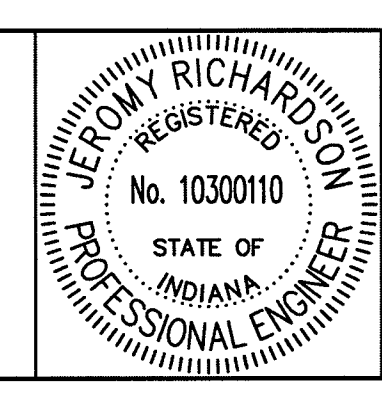
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- ⓓ Temporary Ditch Inlet Protection
- Ⓢ Seed Mixture, T

File Name: P:\CSD\12-404-02\Road\Draw\Plans\Plan US41 - Erosion Control.dwg Plot Date: 11/17/2013 Printed By: Ninoz, John



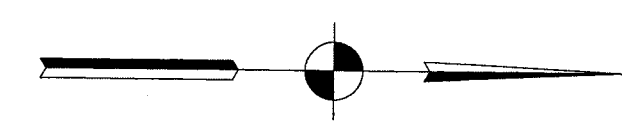
RECOMMENDED FOR APPROVAL *Jeromy Richardson* 11-1-13
DESIGN ENGINEER DATE

DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 352+00 TO STA. 367+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	88 of 162
CONTRACT	PROJECT
R-32258	0710399



Section 13, T25N, R9W
Parish Grove Township
Benton County, IN

GERALD P. BUDREAU TRUST

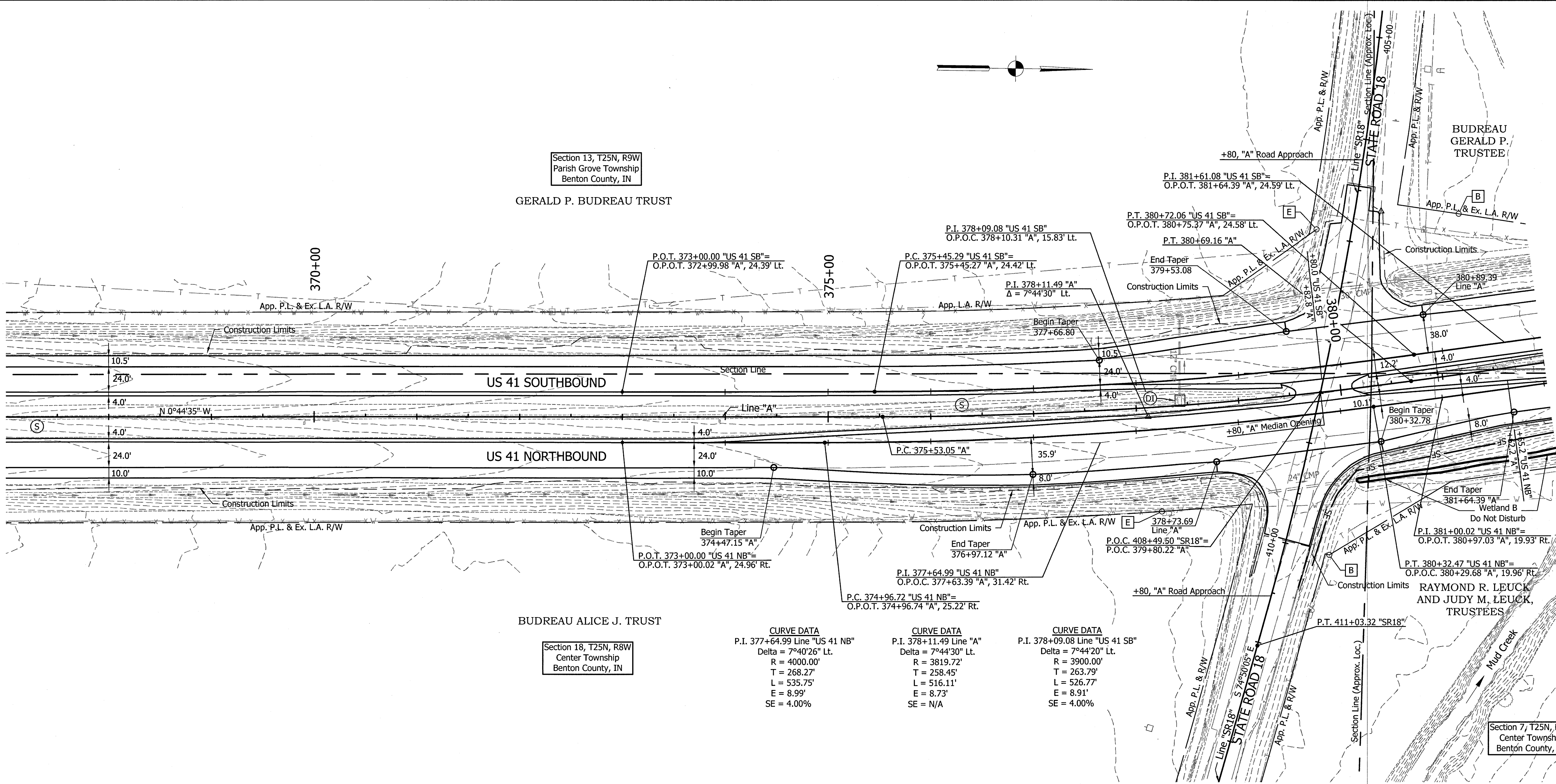
Section 18, T25N, R8W
Center Township
Benton County, IN

BUDREAU ALICE J. TRUST

BUDREAU
GERALD P.
TRUSTEE

RAYMOND R. LEUCK
AND JUDY M. LEUCK,
TRUSTEES

Section 7, T25N, R8W
Center Township
Benton County, IN



CURVE DATA	CURVE DATA	CURVE DATA
P.I. 377+64.99 Line "US 41 NB"	P.I. 378+11.49 Line "A"	P.I. 378+09.08 Line "US 41 SB"
Delta = 7°40'26" Lt.	Delta = 7°44'30" Lt.	Delta = 7°44'20" Lt.
R = 4000.00'	R = 3819.72'	R = 3900.00'
T = 268.27'	T = 258.45'	T = 263.79'
L = 535.75'	L = 516.11'	L = 526.77'
E = 8.99'	E = 8.73'	E = 8.91'
SE = 4.00%	SE = N/A	SE = 4.00%

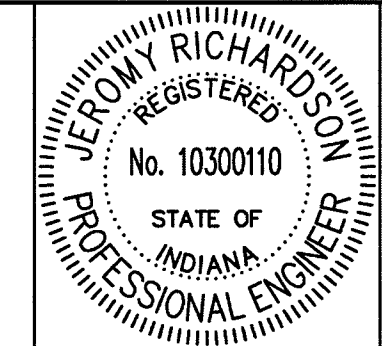
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- Ⓧ Temporary Ditch Inlet Protection
- Ⓢ Seed Mixture, T

FOR EROSION CONTROL ONLY



RECOMMENDED FOR APPROVAL
Jeremy Richardson 11-1-13
DESIGN ENGINEER DATE

DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

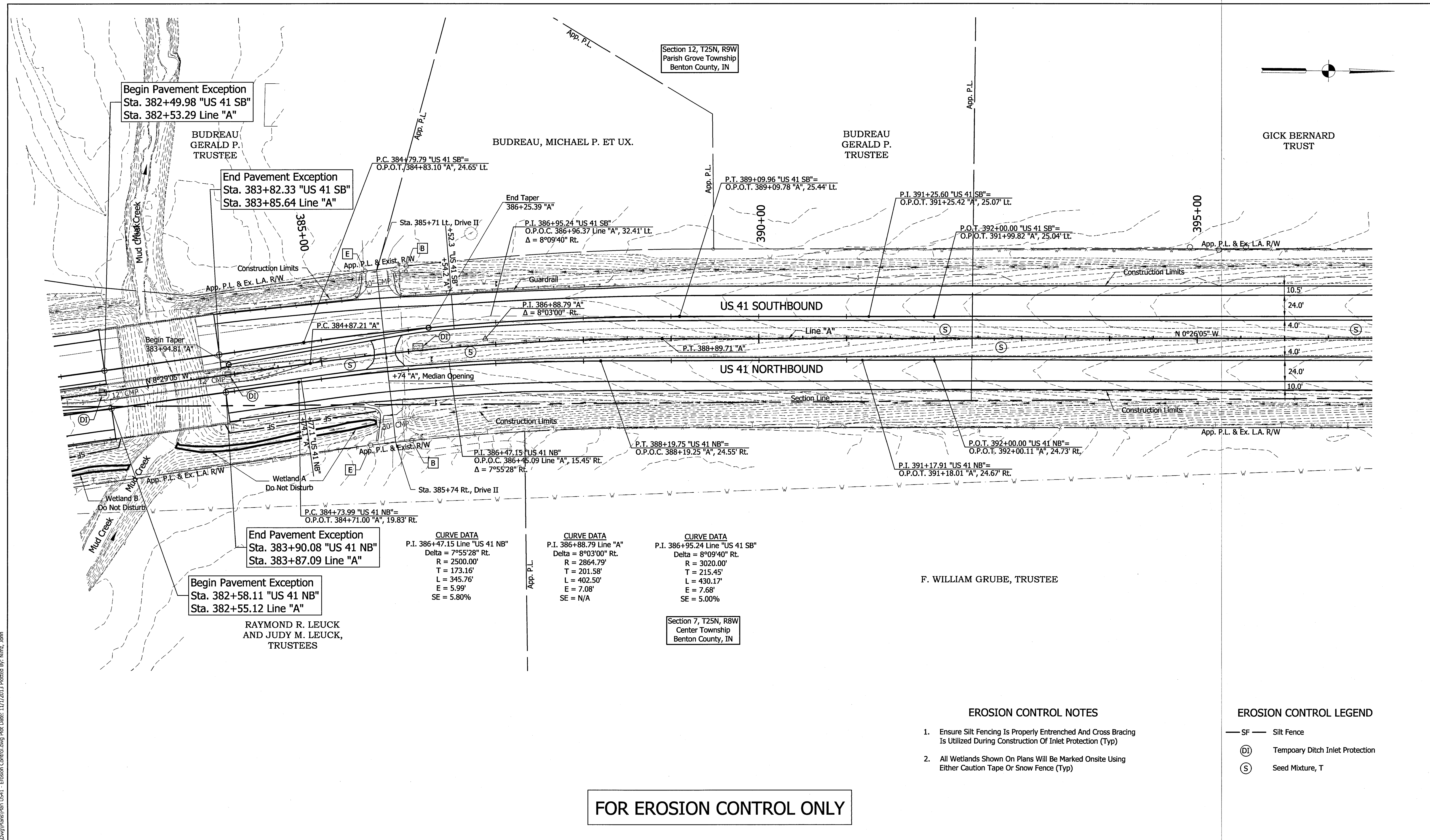
INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 367+00 TO STA. 382+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	89 of 162
CONTRACT	PROJECT
R-32258	0710399

File Name: P:\CD0112-404-001\Road\Draw\Plans\Plan US41 - Erosion Control.dwg Plot Date: 11/17/2013 Plotted By: Nimz, John

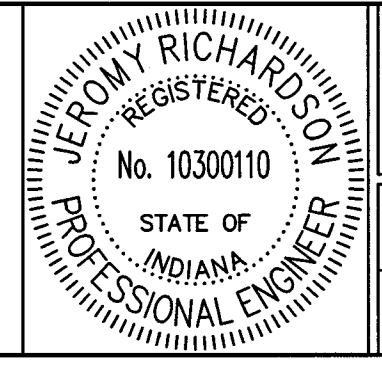
File Name: P:\CD\12-404-02\Road\Draw\Plans\1541 - Erosion Control.dwg Plot Date: 11/17/2013 Plotted By: Nirmz, John



FOR EROSION CONTROL ONLY

- EROSION CONTROL NOTES**
1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
 2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

- EROSION CONTROL LEGEND**
- SF — Silt Fence
 - (DI) Temporary Ditch Inlet Protection
 - (S) Seed Mixture, T



RECOMMENDED FOR APPROVAL: *Jeremy Richardson* 11-1-13
 DESIGN-ENGINEER DATE

DESIGNED: CCR DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

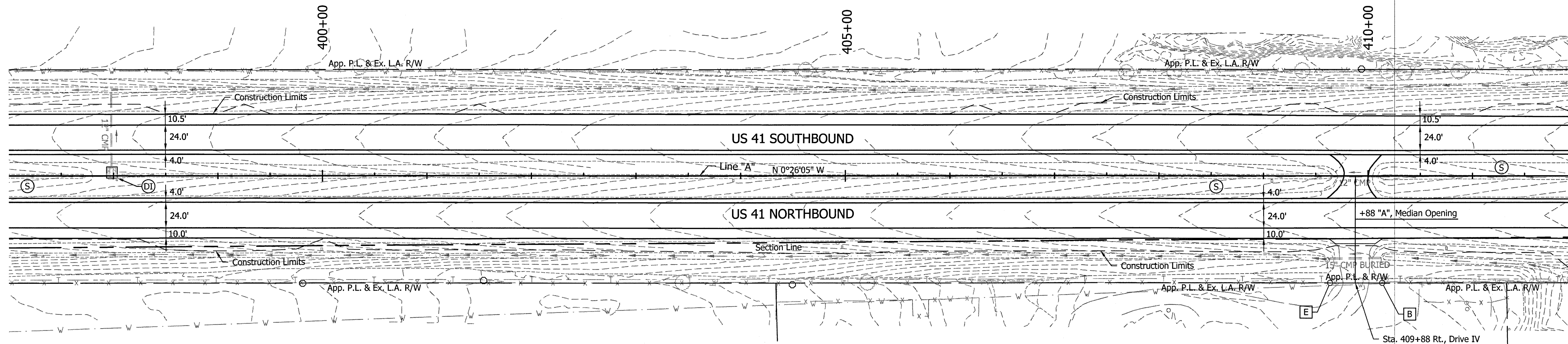
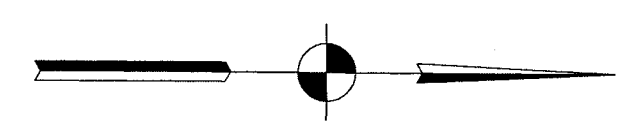
INDIANA
 DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN
 STA. 382+00 TO STA. 397+00**

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	90 of 162
CONTRACT	PROJECT
R-32258	0710399

Section 12, T25N, R9W
Parish Grove Township
Benton County, IN

GICK BERNARD
TRUST



F. WILLIAM GRUBE, TRUSTEE

Section 7, T25N, R8W
Center Township
Benton County, IN

GICK BERNARD, TRUST

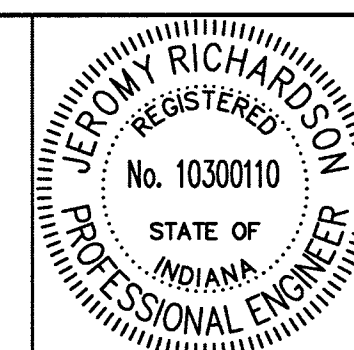
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T

FOR EROSION CONTROL ONLY



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE: 11-13

DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

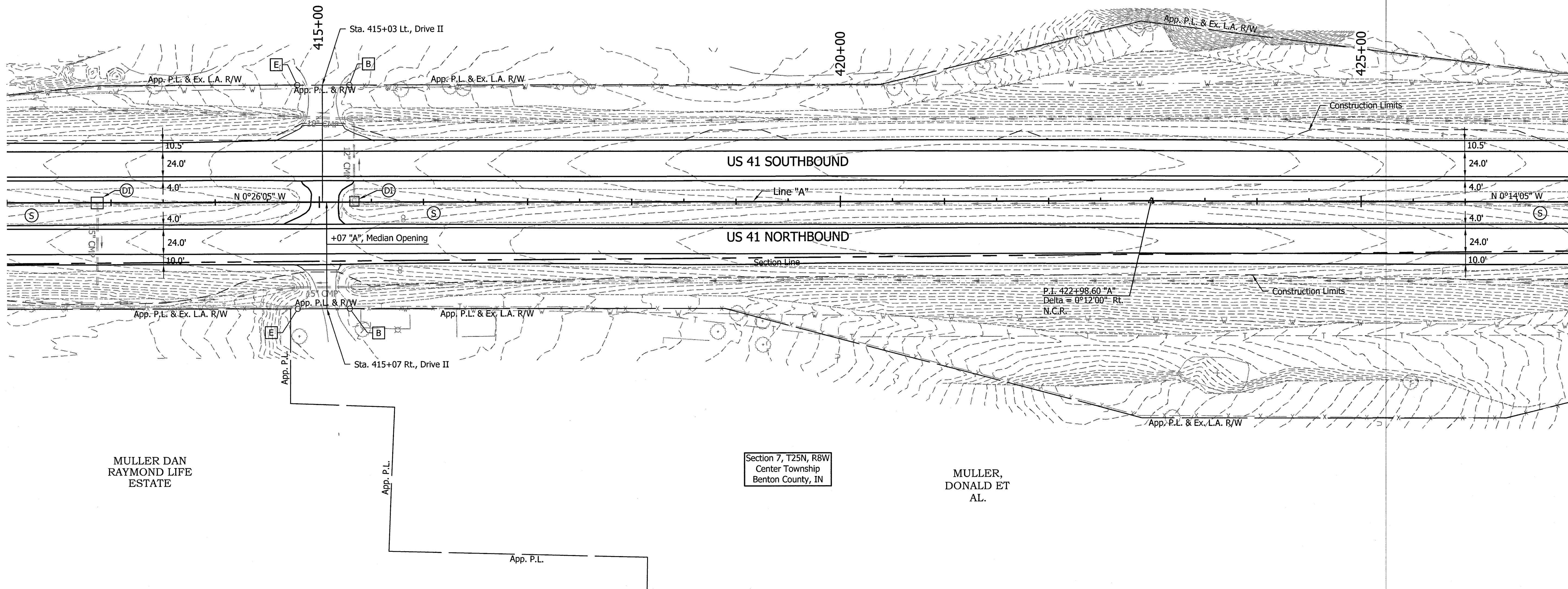
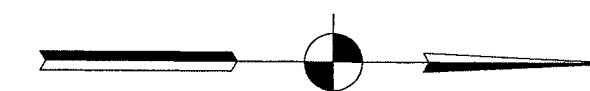
INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 397+00 TO STA. 412+00

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 0710399
SURVEY BOOK	SHEETS
CONTRACT R-32258	91 of 162 PROJECT 0710399

Section 12, T25N, R9W
Parish Grove Township
Benton County, IN

GICK BERNARD
TRUST



MULLER DAN
RAYMOND LIFE
ESTATE

Section 7, T25N, R8W
Center Township
Benton County, IN

MULLER,
DONALD ET
AL.

EROSION CONTROL NOTES

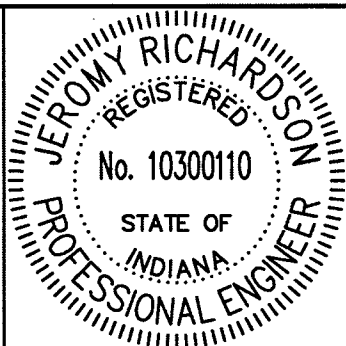
1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- ⓓ Temporary Ditch Inlet Protection
- Ⓢ Seed Mixture, T

FOR EROSION CONTROL ONLY

File Name: P:\CD\12-40-02\02\02a\02a\Plan US41 - Erosion Control.dwg Plot Date: 11/17/2013 Plotted By: Nima, John



RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 11-1-13
DESIGN ENGINEER DATE

DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 412+00 TO STA. 427+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	92 of 162
CONTRACT	PROJECT
R-32258	0710399

Section 12, T25N, R9W
Parish Grove Township
Benton County, IN

GICK BERNARD
TRUST

Section 1, T25N, R9W
Parish Grove Township
Benton County, IN

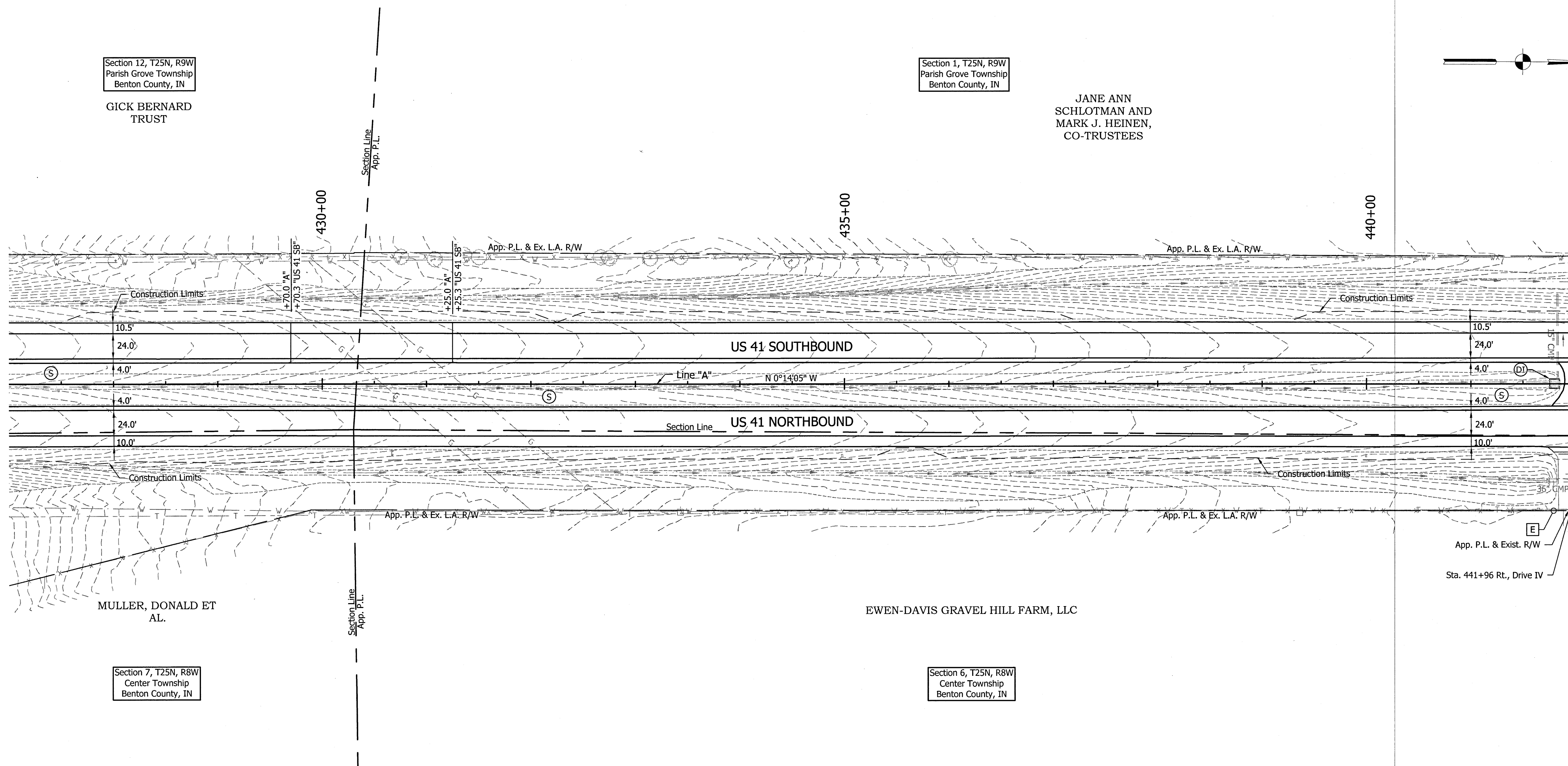
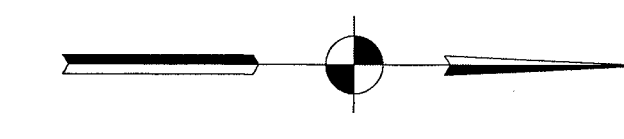
JANE ANN
SCHLOTMAN AND
MARK J. HEINEN,
CO-TRUSTEES

MULLER, DONALD ET
AL.

Section 7, T25N, R8W
Center Township
Benton County, IN

EWEN-DAVIS GRAVEL HILL FARM, LLC

Section 6, T25N, R8W
Center Township
Benton County, IN



FOR EROSION CONTROL ONLY

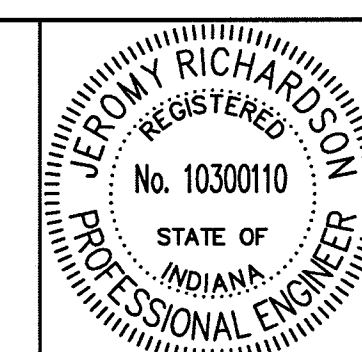
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T

File Name: P:\C3D\12-04-02\Road\Draw\Plans\Plan US41 - Erosion Control.dwg Plot Date: 11/17/2013 Plotted By: Nimz, John



RECOMMENDED FOR APPROVAL	<i>Jeromy Richard Sowden</i>	11-1-13
	DESIGN ENGINEER	DATE
DESIGNED: CCR	DRAWN: JNII	
CHECKED: WRC	CHECKED: WRC	

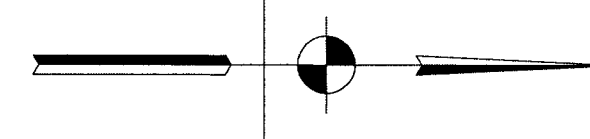
INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 427+00 TO STA. 442+00

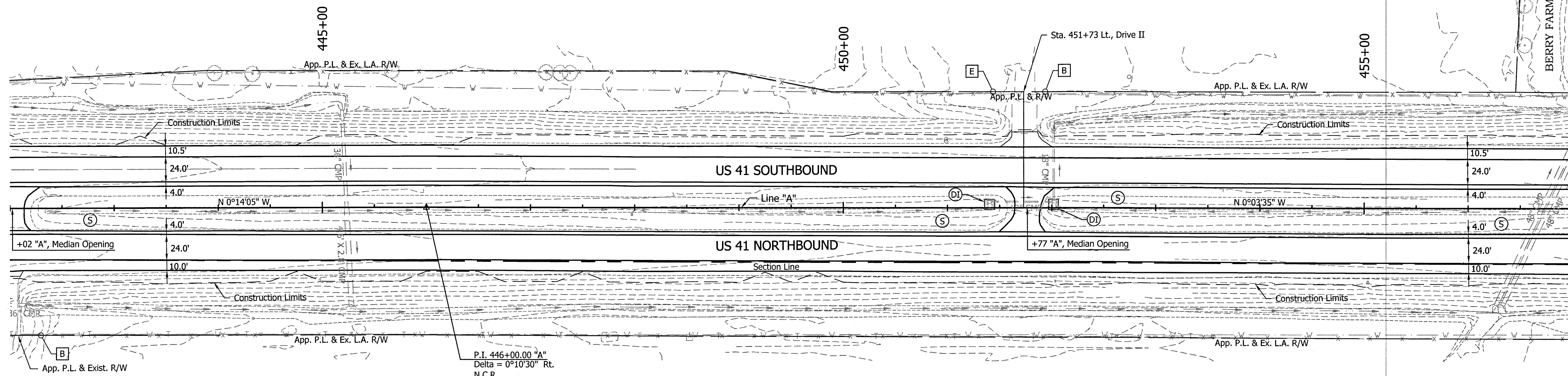
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	93 of 162
CONTRACT	PROJECT
R-32258	0710399

Section 1, T25N, R9W
Parish Grove Township
Benton County, IN

JANE ANN
SCHLOTMAN AND
MARK J. HEINEN,
CO-TRUSTEES



App. P.L.
BERRY FARMS OF FOWLER INC.



EWEN-DAVIS GRAVEL HILL FARM, LLC

Section 6, T25N, R8W
Center Township
Benton County, IN

FOR EROSION CONTROL ONLY

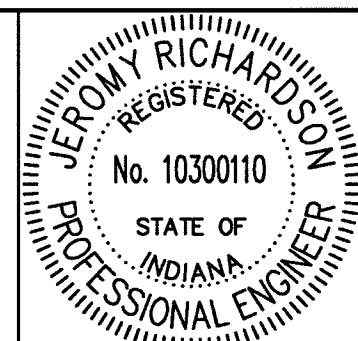
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T

File Name: P:\2013\12-461-05\Road\Draw\Plans\Plan 1251 - Erosion Control.dwg Plot Date: 11/17/2013 Plotted By: Nlmz, jhm



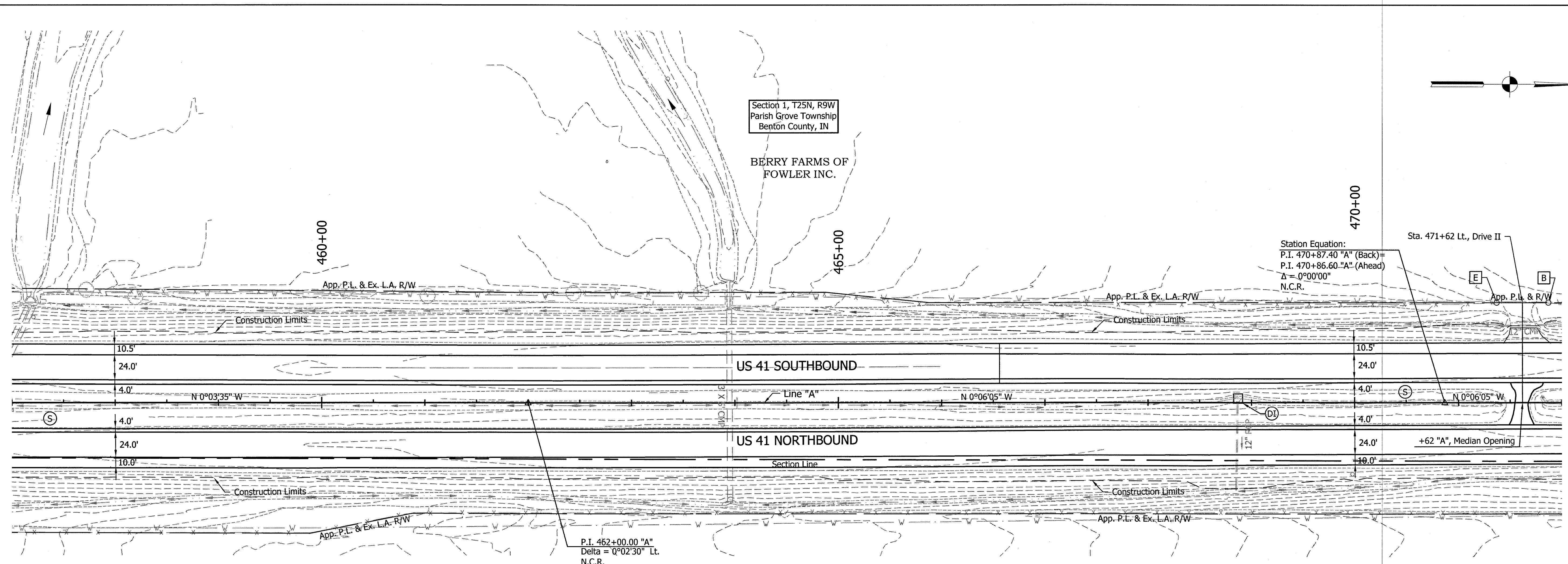
RECOMMENDED FOR APPROVAL	<i>Jeromy Richardson</i>	11-1-13
DESIGNED:	CCR	DRAWN: JNII
CHECKED:	WRC	CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 442+00 TO STA. 457+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	94 of 162
CONTRACT	PROJECT
R-32258	0710399

File Name: P:\CDD\12-404-02\Road\Draw\Plans\Plan US41 - Erosion Control.dwg Plot Date: 11/1/2013 Plotted By: Nimz, John



EWEN-DAVIS GRAVEL HILL FARM, LLC

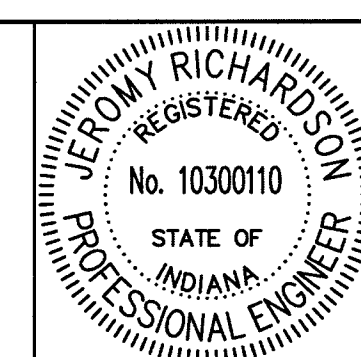
FOR EROSION CONTROL ONLY

EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- (DI) — Temporary Ditch Inlet Protection
- (S) — Seed Mixture, T

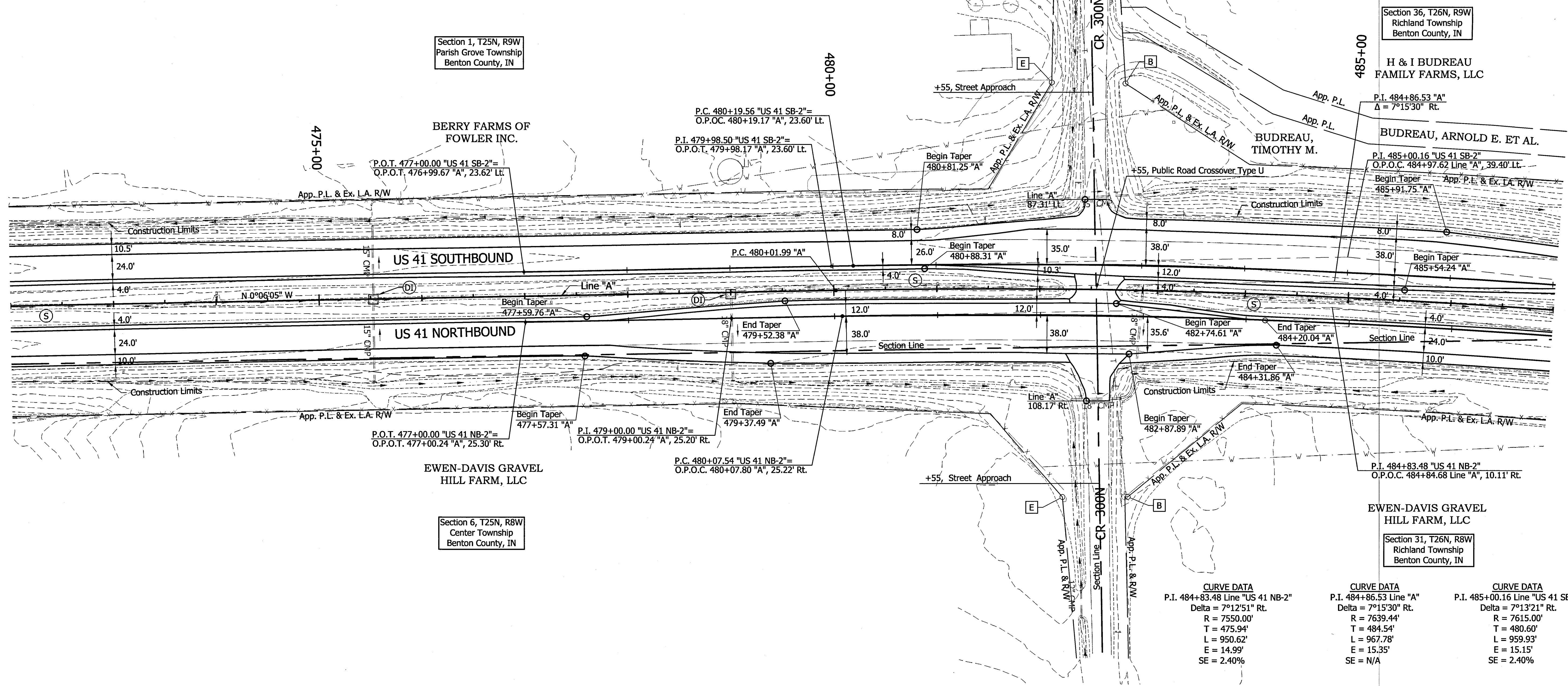
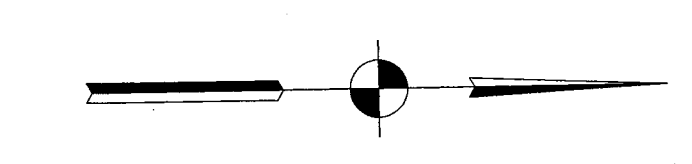


RECOMMENDED FOR APPROVAL	<i>Jeromy A. Richard</i>	11-1-13	
	DESIGN ENGINEER	DATE	
DESIGNED: CCR	DRAWN: JNII		
CHECKED: WRC	CHECKED: WRC		

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 457+00 TO STA. 472+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	95 of 162
CONTRACT	PROJECT
R-32258	0710399



Section 36, T26N, R9W
Richland Township
Benton County, IN

H & I BUDREAU
FAMILY FARMS, LLC

P.I. 484+86.53 "A"
Delta = 7°15'30" Rt.

BUDREAU, ARNOLD E. ET AL.

P.I. 485+00.16 "US 41 SB-2"
O.P.O.C. 484+97.62 Line "A", 39.40' Lt.

Begin Taper 485+91.75 "A"
App. P.E. & Ex. L.A. R/W

Begin Taper 485+54.24 "A"

Section Line

End Taper 484+31.86 "A"

Section Line

End Taper 484+20.04 "A"

Section Line

End Taper 484+31.86 "A"

Section Line

End Taper 484+20.04 "A"

Section Line

End Taper 484+31.86 "A"

Section Line

End Taper 484+20.04 "A"

Section Line

End Taper 484+31.86 "A"

Section Line

End Taper 484+20.04 "A"

Section Line

End Taper 484+31.86 "A"

Section Line

End Taper 484+20.04 "A"

Section Line

CURVE DATA
P.I. 484+83.48 Line "US 41 NB-2"
Delta = 7°12'51" Rt.
R = 7550.00'
T = 475.94'
L = 950.62'
E = 14.99'
SE = 2.40%

CURVE DATA
P.I. 484+86.53 Line "A"
Delta = 7°15'30" Rt.
R = 7639.44'
T = 484.54'
L = 967.78'
E = 15.35'
SE = N/A

CURVE DATA
P.I. 485+00.16 Line "US 41 SB-2"
Delta = 7°13'21" Rt.
R = 7615.00'
T = 480.60'
L = 959.93'
E = 15.15'
SE = 2.40%

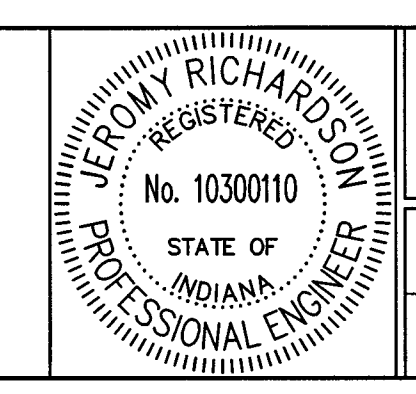
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- (DI) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T

FOR EROSION CONTROL ONLY



RECOMMENDED FOR APPROVAL: *Jeromy Richardson* 11-1-13
DESIGN ENGINEER DATE
DESIGNED: CCR DRAWN: JNII
CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
STA. 472+00 TO STA. 487+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	96 of 162
CONTRACT	PROJECT
R-32258	0710399

File Name: P:\CADD\12-404-02\Road\Draw\Plans\Plan_US41 - Erosion Control.dwg Plot Date: 11/1/2013 Plotted By: Nlmz, John

H & I BUDREAU FAMILY FARMS, LLC

BUDREAU, ARNOLD E. ET AL.

Section 36, T26N, R9W
Richland Township
Benton County, IN

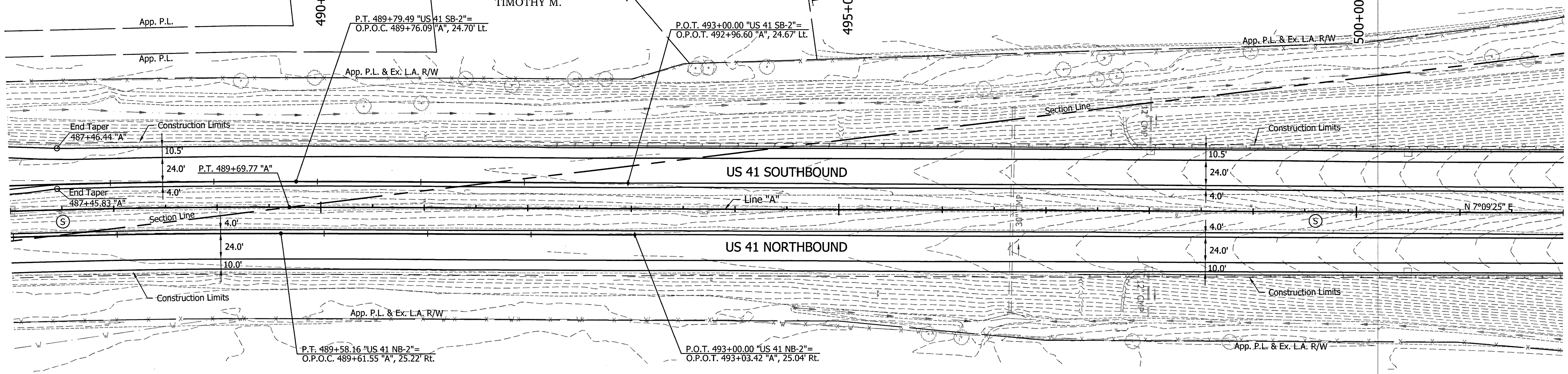
H & I BUDREAU FAMILY FARMS, LLC

BUDREAU,
TIMOTHY M.

490+00

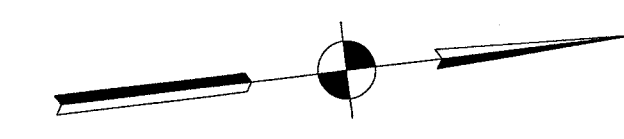
495+00

500+00



EWEN-DAVIS GRAVEL HILL FARM,
LLC

Section 31, T26N, R8W
Richland Township
Benton County, IN



FOR EROSION CONTROL ONLY

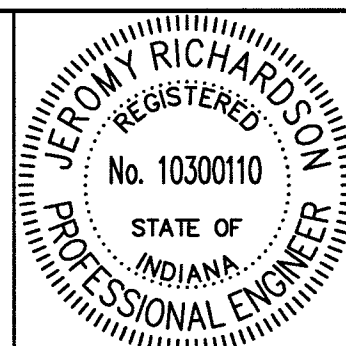
EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- (D) Temporary Ditch Inlet Protection
- (S) Seed Mixture, T

File Name: F:\CD\12-464-02\Road\Draw\Plans\Plan US41 - Erosion Control.dwg Plot Date: 11/17/2013 Plotted By: Nims, John



RECOMMENDED FOR APPROVAL *Jeromy Richardson* 11-1-13
DESIGN ENGINEER DATE

DESIGNED: CCR DRAWN: JNII

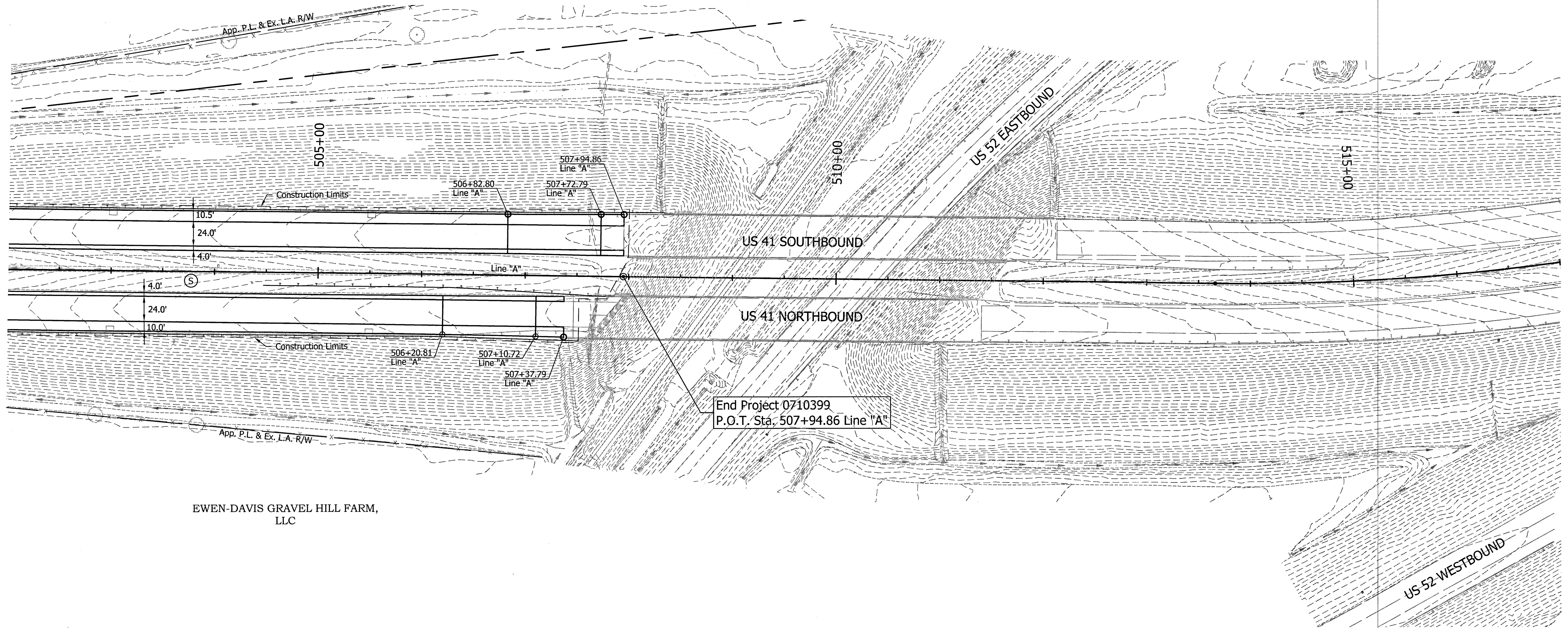
CHECKED: WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 487+00 TO STA. 502+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	97 of 162
CONTRACT	PROJECT
R-32258	0710399

File Name: \\us204615001\resources\CD\12-404-02\local\Draw\Plans\Plan US41 - Erosion Control.dwg (Plot Date: 11/1/2013) Plotted By: Nima, John



EWEN-DAVIS GRAVEL HILL FARM,
LLC

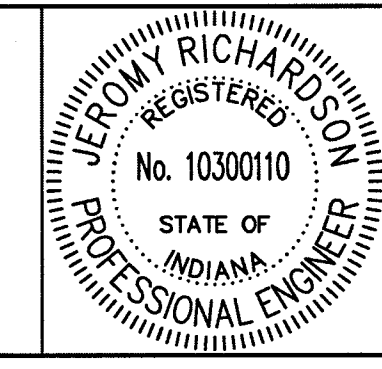
FOR EROSION CONTROL ONLY

EROSION CONTROL NOTES

1. Ensure Silt Fencing Is Properly Entrenched And Cross Bracing Is Utilized During Construction Of Inlet Protection (Typ)
2. All Wetlands Shown On Plans Will Be Marked Onsite Using Either Caution Tape Or Snow Fence (Typ)

EROSION CONTROL LEGEND

- SF — Silt Fence
- ⓓ Temporary Ditch Inlet Protection
- Ⓢ Seed Mixture, T

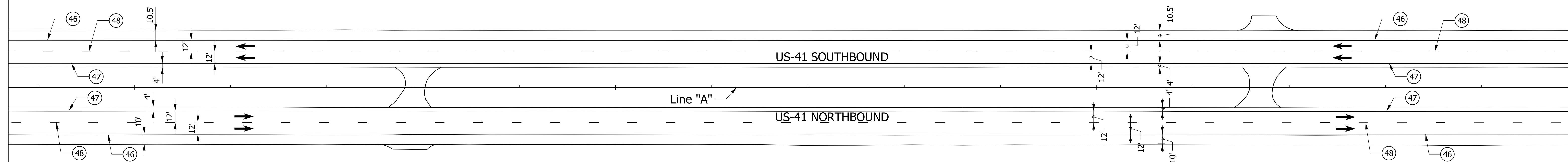


RECOMMENDED FOR APPROVAL	<i>Jeromy Richardson</i> 11-1-13	DESIGN ENGINEER	DATE
DESIGNED:	HEK	DRAWN:	JNII
CHECKED:	WRC	CHECKED:	WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STA. 502+00 TO STA. 517+00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	98 of 162
CONTRACT	PROJECT
R-32258	0710399



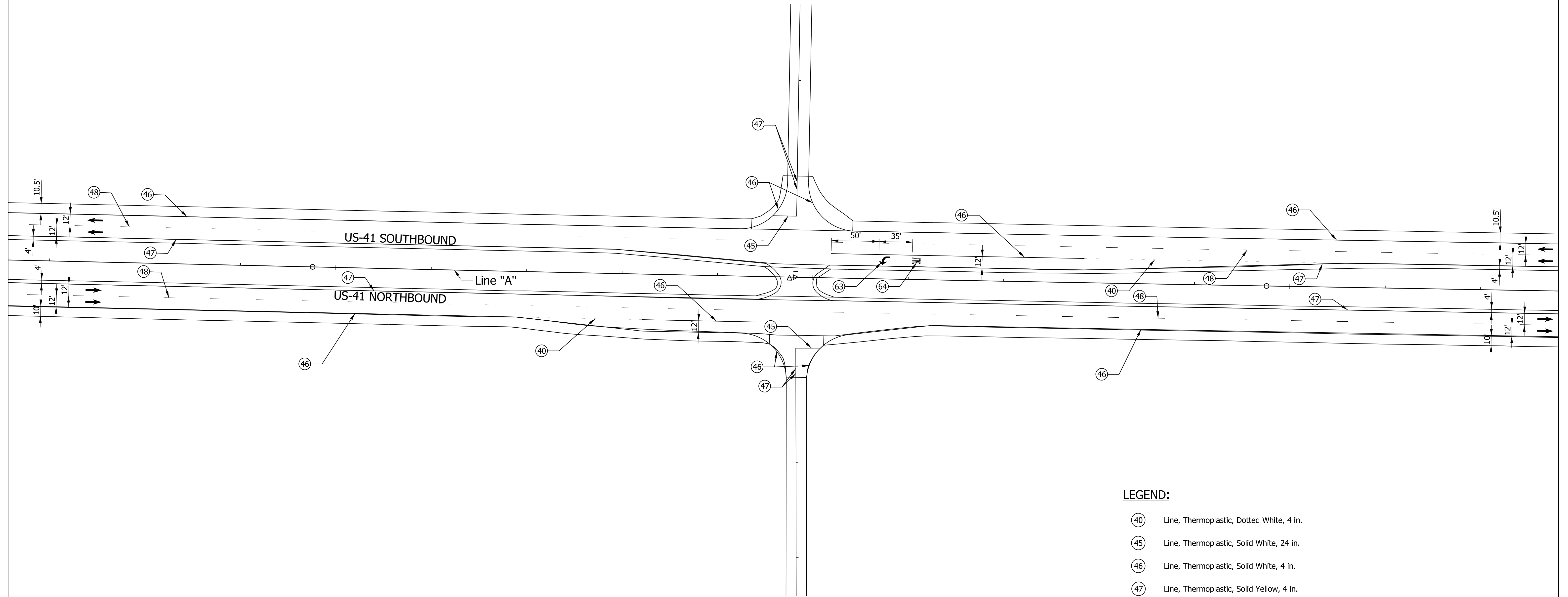
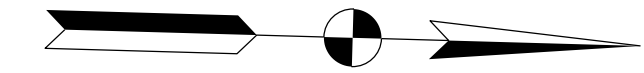
LEGEND:

- ④⑥ Line, Thermoplastic, Solid White, 4 in.
- ④⑦ Line, Thermoplastic, Solid Yellow, 4 in.
- ④⑧ Line, Thermoplastic, Broken White, 4 in.
- * Snowplowable Raised Pavement Marker

Notes:

1. Snowplowable raised pavement markers shall be placed in accordance to the INDOT standards.

	RECOMMENDED FOR APPROVAL DESIGN ENGINEER	10/04/2013 DATE	INDIANA DEPARTMENT OF TRANSPORTATION	SCALE 1" = 50'	BRIDGE FILE
	DESIGNED: DCK CHECKED: MDP	DRAWN: SJC CHECKED: DCK		STANDARD PAVEMENT MARKING DETAIL	SURVEY BOOK CONTRACT R-32258

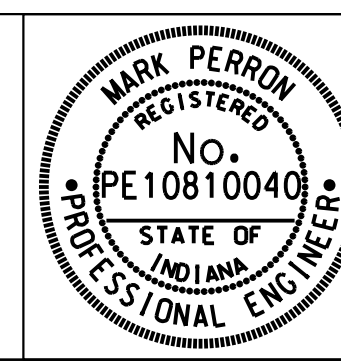


LEGEND:

- ④① Line, Thermoplastic, Dotted White, 4 in.
 - ④⑤ Line, Thermoplastic, Solid White, 24 in.
 - ④⑥ Line, Thermoplastic, Solid White, 4 in.
 - ④⑦ Line, Thermoplastic, Solid Yellow, 4 in.
 - ④⑧ Line, Thermoplastic, Broken White, 4 in.
 - ⑥③ Pavement Message Markings, Thermoplastic, Lane Indication Arrow
 - ⑥④ Pavement Message Markings, Thermoplastic, "ONLY"
- * Snowplowable Raised Pavement Marker

Notes:

1. Snowplowable raised pavement markers shall be placed in accordance to the INDOT standards.



RECOMMENDED FOR APPROVAL	<i>Mark Perron</i>	DESIGN ENGINEER	10/04/2013	DATE
DESIGNED:	DCK	DRAWN:	SJC	
CHECKED:	MDP	CHECKED:	DCK	

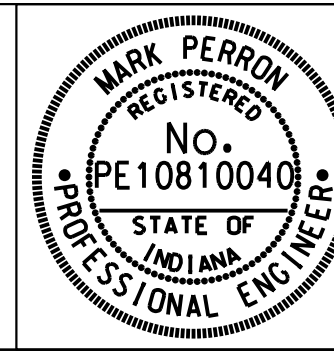
INDIANA
DEPARTMENT OF TRANSPORTATION

**STANDARD TURN LANES
PAVEMENT MARKING DETAIL**

SCALE	BRIDGE FILE
1" = 50'	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	100 of 162
CONTRACT	PROJECT
R-32258	0710399

STRUCTURE DATA																																										
STRUCTURE NUMBER	LOCATION				SIZE		DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH		VIDEO INSPECTION LENGTH	SKEW	FLOW LINE			SERVICE LIFE YRS	SITE DESIGNATION	pH	METHOD	STRUCTURE BACKFILL CYC	TYPE	FLOWABLE BACKFILL CYC	TYPE	GEOTEXTILES SYS	REVETMENT RIPRAP TON	SCOUR PROTECTION				CONCRETE CLASS A, FOR STR.	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR.	REMARKS			
	STATION	LEFT	RIGHT	CROSS	OFFSET	FT		IN.	LFT			LFT	COVER LFT	UP STREAM ELEV.											DOWN STREAM ELEV.	SUMP DEPTH IN.	GEOTEXTILE SYS.	RIPRAP TYPE				RIPRAP TONS	LFT	EA.	TYPE	SLOPE	EA.			TYPE	SLOPE	EA.
041-4-197.67	196+02			X		83 x 53						1	821.00	820.36	75	NA	7	1	236	1					6	146	1	139.4								Proposed Structure						
101	196+85		X			18	2					2.5	823.62	823.30	75	NA	7	1	34	1						9	UNI	4.4							Proposed Inlet							

BARRIER SUMMARY TABLE																																							
LOCATION		W-BEAM GUARDRAIL LENGTH												CURVED W-BEAM GUARDRAIL SYSTEM								REMARKS																	
FROM STATION	TO STATION	LEFT	MEDIAN LEFT	MEDIAN RIGHT	RIGHT	STANDARD POST AT 6 FT 3 IN. SPA.	STANDARD POST AT 3 FT 1.5 IN. SPA.	DOUBLE FACED AT 6 FT 3 IN. SPA.	DOUBLE FACED AT 3 FT 1.5 IN. SPA.		SHOP CURVED AT ____ FT. SPA.	NESTING GUARDRAIL	GUARDRAIL FLARE RATE	GUARDRAIL TRANSITION TYPE TGB	GUARDRAIL TRANSITION TYPE ____	GUARDRAIL END TREATMENT TYPE MS	GUARDRAIL END TREATMENT TYPE OS	RAILING, CONCRETE, FT	TERMINAL SYSTEM		CONNECTOR SYSTEM		GUARDRAIL REMOVE	GUARDRAIL RESET	IMPACT ATTENUATOR TYPE ____	IMPACT ATTENUATOR TYPE ____													
																			LFT	LFT	LFT						LFT	LFT	LFT	EACH	EACH	EACH	EACH	LFT	TYPE	EACH	TYPE	EACH	LFT
Line "A"																																							
102+15.66	192+65.66				X												1																						
192+65.66	195+21.91				X	256.25																																	
195+21.91	196+21.91				X							1																											
195+70.62	195+83.12	X																		Cable Anchor	1																		
195+83.12	196+83.11	X										1																											
196+21.91	196+34.41				X															Cable Anchor	1																		
196+83.11	199+36.36	X				256.25																																	
199+36.36	199+89.35	X																																					
380+41.10	382+28.60		X			187.50							1		1																								
380+42.80	382+30.30			X		187.50							1																										
384+10.40	385+47.90		X			137.50							1																										
384+11.90	385+49.40			X		137.50							1																										
384+10.40	385+41.70	X				131.25							1										3	1															
386+02.70	387+96.50	X				193.75							1			1						3	1																
492+15.20	508+08.90	X				1618.80							1																										
497+31.30	507+26.20			X		1025.00							1																										
504+46.30	507+52.50		X			331.30							1																										
380+57.60	381+02.20		X																																			44.60	
381+02.20	382+58.70		X																																		157.30		
381+02.20	382+55.40			X																																	153.20		
381+65.20	382+58.80				X																																93.60		
383+83.00	385+56.90	X																																			194.10		
383+83.40	385+53.20				X																																205.30		
383+84.30	385+08.00		X																																		123.90		
383+86.90	385+08.00			X																																	122.00		
385+08.00	385+52.60			X																																	44.60		
385+91.00	386+52.00	X																																			83.70		
492+17.40	508+33.90	X																																			1616.50		
502+07.30	507+51.20				X																																543.90		
504+47.30	507+77.50			X																																	330.20		
TOTALS						4462.60						2.00		8.00		1.00	3.00										4.00									3712.90			



RECOMMENDED FOR APPROVAL
Mark Perron
DESIGN ENGINEER
10/04/2013
DATE

DESIGNED: DCK DRAWN: SJC
CHECKED: MDP CHECKED: DCK

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS TABLE

SCALE	BRIDGE FILE
N/A	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	104 of 162
CONTRACT	PROJECT
R-32258	0710399

		101		STRUCTURE NUMBER															
PIPE TYPE / SHAPE		2																	
SMOOTH PIPE SIZE		18																	
CORRUGATED PIPE SIZE																			
RCP/RCHP (S)	CLASS	II																	
	D _{min} RATING	1000																	
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK																	
CORRUGATED PE PIPE, TYPE S (S)*		OK																	
RIBBED PE PIPE (S)*		OK																	
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR		OK/26																	
PROFILE WALL PVC PIPE (S)		OK																	
SMOOTH WALL PVC PIPE (S)*		OK																	
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		OK																	
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS	2 2/3" x 1/2" 0.109																
	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																	
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS																	
	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS																	
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE THICKNESS	2 2/3" x 1/2" 0.109																
	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS																	
	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS																	
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS																	
	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS																	
	STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE THICKNESS																	
	STR. PLATE ALUMINUM ALLOY PLATE W/ CFP (C)	CORR. PROFILE THICKNESS																	
	STR. PLATE STEEL PIPE (C)	CORR. PROFILE THICKNESS **																	
	STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE THICKNESS **																	

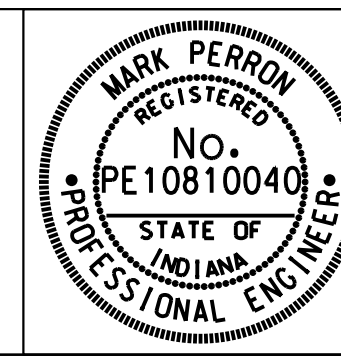
		STRUCTURE NUMBER															
PIPE TYPE / SHAPE																	
SMOOTH PIPE SIZE																	
CORRUGATED PIPE SIZE																	
RCP/RCHP (S)	CLASS																
	D _{min} RATING																
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																	
CORRUGATED PE PIPE, TYPE S (S)*																	
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)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	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															
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS															
	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS															
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE THICKNESS															
	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS															
	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS															
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS															
	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS															
	STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE THICKNESS															
	STR. PLATE ALUMINUM ALLOY PLATE 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
- CIR- Circular Pipe
- DEF- Deformed Pipe
- (S)- Smooth Pipe Material
- (C)- Corrugated Pipe Material
- OK- Acceptable for Use
- (LS)- Lock Seam Pipe Required

*- Refer to Standard Drawings 715-PHCL-18 and -19 for nominal diameter appropriate for pay item diameter.

**- Tabulated thickness refers to top and side plates. Bottom plates shall be of next greater available thickness.



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
 DESIGNED: DCK DRAWN: SJC
 CHECKED: MDP CHECKED: DCK

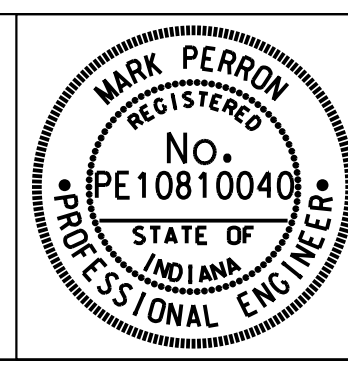
INDIANA DEPARTMENT OF TRANSPORTATION

PIPE MATERIALS TABLE

SCALE	BRIDGE FILE
N/A	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	105 of 162
CONTRACT	PROJECT
R-32258	0710399

UNDERDRAIN TABLE

UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE										OUTLET PIPE								OUTLET PROTECTORS				REMARKS											
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS SYS	AGGREGATE FOR UNDERDRAINS CYS	HMA FOR UNDERDRAINS TONS	SPECIAL GRADE %	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE LFT	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. _____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO. _____	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL, TYPE I CYS	HMA FOR UNDERDRAINS TONS	OUTLET PROTECTOR NO. _____	OUTLET PROTECTOR TYPE		Location										
	4"	6"																						OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT							
LFT	LFT																																	
Line "A" SB Outside																																		
112+02		373	208.9	16.1	23.9	0.20	768.82	Y		2.00	20	112+01	768.75	OP - SB - 20	765.94			0.5	0.7	OP - SB - 20	3	X												
115+75							769.57	N																										
117+01		399	223.5	17.2	25.6	0.20	768.80	Y		2.00	13	117+00	768.75	OP - SB - 21	766.74			0.5	0.7	OP - SB - 21	3	X												
121+00							769.60	N																										
121+02		398	222.9	17.2	25.5	0.20	768.72	Y		2.00	16	121+01	768.67	OP - SB - 22	766.92			0.5	0.7	OP - SB - 22	3	X												
125+00							769.52	N																										
125+03		297	166.4	12.8	19.1	0.20	769.03	Y		2.00	22	125+02	768.83	OP - SB - 24	767.41			0.5	0.7	OP - SB - 24	3	X												
128+00							769.63	N																										
128+02		398	222.9	17.2	25.5		769.64	Y		2.00	22	128+01	769.58	OP - SB - 25	768.00			0.5	0.7	OP - SB - 25	3	X												
132+00							770.76	N																										
132+03		397	222.4	17.1	25.5		770.77	Y		2.00	22	132+02	770.60	OP - SB - 27	769.26			0.5	0.7	OP - SB - 27	3	X												
136+00							773.06	N																										
136+02		398	222.9	17.2	25.5		773.08	Y		2.00	24	136+01	773.01	OP - SB - 29	771.73			0.5	0.7	OP - SB - 29	3	X												
140+00							775.31	N																										
140+03		397	222.4	17.1	25.5		775.33	Y		2.00	22	140+02	775.19	OP - SB - 31	773.80			0.5	0.7	OP - SB - 31	3	X												
144+00							777.62	N																										
144+03		397	222.4	17.1	25.5		777.64	Y		2.00	23	144+02	777.42	OP - SB - 33	775.81			0.5	0.7	OP - SB - 33	3	X												
148+00							779.71	N																										
148+02		398	222.9	17.2	25.5		779.71	Y		2.00	23	148+01	779.64	OP - SB - 35	774.77			0.5	0.7	OP - SB - 35	3	X												
152+00							782.24	N																										
152+03		397	222.4	17.1	25.5		782.26	Y		2.00	23	152+02	782.08	OP - SB - 37	778.83			0.5	0.7	OP - SB - 37	3	X												
156+00							786.10	N																										
156+03		397	222.4	17.1	25.5		786.13	Y		2.00	22	156+02	785.94	OP - SB - 38	781.60			0.5	0.7	OP - SB - 38	3	X												
160+00							790.49	N																										
160+03		397	222.4	17.1	25.5		790.52	Y		2.00	21	160+02	790.45	OP - SB - 39	786.05			0.5	0.7	OP - SB - 39	3	X												
164+00							794.89	N																										
164+03		397	222.4	17.1	25.5		794.92	Y		2.00	22	164+02	794.72	OP - SB - 41	791.26			0.5	0.7	OP - SB - 41	3	X												
168+00							799.05	N																										
169+51		249	139.5	10.8	16.0		800.92	Y		2.00	13	169+50	800.67	OP - SB - 43	799.27			0.5	0.7	OP - SB - 43	3	X												
172+00							803.61	N																										
172+03		397	222.4	17.1	25.5		803.65	Y		2.00	13	172+02	803.52	OP - SB - 44	801.90			0.5	0.7	OP - SB - 44	3	X												
176+00							808.24	N																										
176+03		397	222.4	17.1	25.5		808.27	Y		2.00	23	176+02	808.14	OP - SB - 46	806.65			0.5	0.7	OP - SB - 46	3	X												
180+00							812.59	N																										
180+03		397	222.4	17.1	25.5		812.62	Y		2.00	25	180+02	812.44	OP - SB - 48	811.24			0.5	0.7	OP - SB - 48	3	X												
184+00							816.43	N																										
184+02		398	222.9	17.2	25.5		816.45	Y		2.00	25	184+01	816.38	OP - SB - 49	814.03			0.5	0.7	OP - SB - 49	3	X												
188+00							819.30	N																										



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: JWG DRAWN: SJC



CHECKED: HKH CHECKED: HKH

INDIANA DEPARTMENT OF TRANSPORTATION

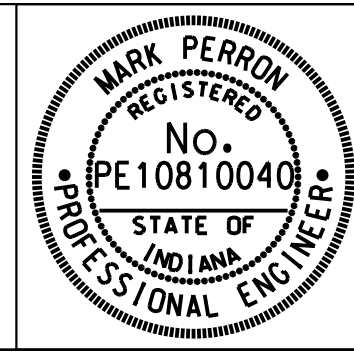
UNDERDRAIN TABLE

SCALE N/A	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 107 of 162
CONTRACT R-32258	PROJECT 0710399

UNDERDRAIN TABLE																												
UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE											OUTLET PIPE							OUTLET PROTECTORS				REMARKS					
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS SYS	AGGREGATE FOR UNDERDRAINS CYS	HMA FOR UNDERDRAINS TONS	% SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE		OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO. ____	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL TYPE I CYS	HMA FOR UNDERDRAINS TONS	OUTLET PROTECTOR NO. ____		OUTLET PROTECTOR TYPE	Location			
	4"	6"										LFT	LFT												OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT
Line "A" SB Outside																												
188+02							819.31	Y				2.00	23	188+01	819.24	OP - SB - 51	818.19			0.5	0.7	OP - SB - 51	3	X				
192+00			398	222.9	17.2	25.5	822.15	N																				
192+03							822.18	Y				2.00	24	192+02	822.02	OP - SB - 53	821.51			0.5	0.7	OP - SB - 53	3	X				
195+28							824.48	N																				
195+31							824.51	Y				2.00	26	195+30	824.32	OP - SB - 55	824.05					OP - SB - 55	3	X				
196+03							825.00	N																				
196+60							825.39	Y				2.00	30	196+59	825.15	OP - SB - 56	824.04					OP - SB - 56	3	X				
197+00							825.72	N																				
197+03							825.75	Y				2.00	24	197+02	825.50	OP - SB - 57	823.16			0.5	0.7	OP - SB - 57	3	X				
200+00							828.25	N																				
200+03							828.28	Y				2.00	23	200+02	828.15	OP - SB - 59	825.76			0.5	0.7	OP - SB - 59	3	X				
204+00							834.34	N																				
204+02							834.38	Y				2.00	21	204+01	834.32	OP - SB - 61	828.58			0.5	0.7	OP - SB - 61	3	X				
208+00							841.61	N																				
208+03							841.67	Y				2.00	22	208+02	841.46	OP - SB - 63	837.57			0.5	0.7	OP - SB - 63	3	X				
212+00							848.21	N																				
212+02							848.24	Y				2.00	47	212+01	848.06	OP - SB - 64	847.43			1.3	1.9	OP - SB - 64	3		X			
216+00							852.99	N																				
216+02							853.01	Y				2.00	24	216+01	852.94	OP - SB - 65	852.71			0.5	0.7	OP - SB - 65	3	X				
221+00							856.81	Y				2.00	23	221+01	856.58	OP - SB - 67	851.17			0.5	0.7	OP - SB - 67	3	X				
222+51							858.07	Y				2.00	22	222+50	857.87	OP - SB - 68	854.51			0.5	0.7	OP - SB - 68	3	X				
226+50							861.12	N																				
226+53							861.13	Y				2.00	24	226+52	860.87	OP - SB - 70	860.40			0.5	0.7	OP - SB - 70	3	X				
230+52							863.45	N																				
230+53							863.45	N																				
233+00							862.67	Y				2.00	21	233+01	862.61	OP - SB - 71	861.99			0.5	0.7	OP - SB - 71	3	X				
233+02							862.66	N																				
236+99							860.84	Y				2.00	25	237+00	860.61	OP - SB - 73	858.65			0.5	0.7	OP - SB - 73	3	X				
237+02							860.82	N																				
240+99							858.84	Y				2.00	25	241+00	858.55	OP - SB - 75	853.47			0.5	0.7	OP - SB - 75	3	X				
241+02							858.82	N																				
244+99							857.35	Y				2.00	23	245+00	857.03	OP - SB - 76	854.76			0.5	0.7	OP - SB - 76	3	X				
245+02							857.34	N																				
248+99							856.48	Y				2.00	24	249+00	856.25	OP - SB - 77	854.54			0.5	0.7	OP - SB - 77	3	X				
249+02							856.47	N																				
252+99							855.85	Y				2.00	27	253+00	855.66	OP - SB - 78	855.41			0.5	0.7	OP - SB - 78	3	X				
253+02							855.84	N																				
256+99							855.13	Y				2.00	23	257+00	854.89	OP - SB - 79	854.29			0.5	0.7	OP - SB - 79	3	X				

	RECOMMENDED FOR APPROVAL  DESIGN ENGINEER	10/04/2013 DATE	INDIANA DEPARTMENT OF TRANSPORTATION		SCALE N/A	BRIDGE FILE
	DESIGNED: JWG DRAWN: SJC	UNDERDRAIN TABLE		SURVEY BOOK	SHEETS 108 of 162	
	CHECKED: HKH CHECKED: HKH			CONTRACT R-32258	PROJECT 0710399	

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE											OUTLET PIPE							OUTLET PROTECTORS				REMARKS				
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO. _____	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. _____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO. _____	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL, TYPE I	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. _____	OUTLET PROTECTOR TYPE		Location			
	4"	6"																						LFT	LFT	SYS	CYS
Line "A" SB Median																											
50+25							758.01	N																			
50+85		60	33.6	2.6	3.9	0.20	757.81	Y			2.00	48	50+86	757.66	OP - SB - 1	756.37			1.6	2.4	OP - SB - 1a	3	X				Connect to existing underdrain
50+88							757.80	Y			2.00	48	50+87	757.66	OP - SB - 1	756.37			1.6	2.4	OP - SB - 1	3	X				
53+48		260	145.6	11.2	16.7		758.08	N																			
53+50							758.08	Y			2.00	49	53+49	757.94	OP - SB - 2	756.49			1.6	2.4	OP - SB - 2	3	X				
56+48							759.12	N																			
56+50							759.13	Y			2.00	47	56+49	758.99	OP - SB - 3	756.02			1.6	2.4	OP - SB - 3	3	X				
60+00		350	196.0	15.1	22.4		760.43	N																			
60+02							760.44	Y			2.00	50	60+01	760.29	OP - SB - 4	756.92			1.6	2.4	OP - SB - 4	3	X				
62+98		296	165.8	12.8	19.0		761.21	N																			
63+00							761.21	Y			2.00	50	62+99	761.06	OP - SB - 5	757.00			1.6	2.4	OP - SB - 5	3	X				
65+95		295	165.2	12.7	18.9		761.81	N																			
65+96							761.81	N																			
66+99		103	57.7	4.5	6.6		761.70	Y			2.00	50	67+00	761.55	OP - SB - 6	756.95			1.6	2.4	OP - SB - 6	3	X				
67+01							761.69	N																			
71+00		399	223.5	17.2	25.6	-0.20	760.89	Y			2.00	48	71+01	760.75	OP - SB - 7	756.40			1.6	2.4	OP - SB - 7	3	X				
71+03							761.44	Y			2.00	48	71+02	760.75	OP - SB - 7	756.40			1.6	2.4	OP - SB - 7	3	X				
76+00		497	278.4	21.4	31.9	-0.20	760.45	Y			2.00	48	76+01	760.31	OP - SB - 8	760.32			1.6	2.4	OP - SB - 8	3	X				
76+02							760.90	N																			
78+25		223	124.9	9.6	14.3	-0.20	760.45	Y			2.00	52	78+26	760.29	OP - SB - 10	756.05			1.6	2.4	OP - SB - 10	3	X				
78+28							760.69	Y			2.00	52	78+27	760.29	OP - SB - 10	756.05			1.6	2.4	OP - SB - 10	3	X				
80+99		271	151.8	11.7	17.4		761.00	N																			
81+01							761.00	Y			2.00	50	81+00	760.85	OP - SB - 12	756.67			1.6	2.4	OP - SB - 12	3	X				
84+99		398	222.9	17.2	25.5		762.15	N																			
85+01							762.16	Y			2.00	51	85+00	762.01	OP - SB - 13	759.38			1.6	2.4	OP - SB - 13	3	X				
88+99		398	222.9	17.2	25.5		763.17	N																			
89+01							763.18	Y			2.00	49	89+00	763.04	OP - SB - 14	761.35			1.6	2.4	OP - SB - 14	3	X				
91+99		298	166.9	12.9	19.1		764.07	N																			
92+01							764.07	Y			2.00	48	92+00	763.93	OP - SB - 15	762.22			1.6	2.4	OP - SB - 15	3	X				
95+99		398	222.9	17.2	25.5		765.09	N																			
96+01							765.09	Y			2.00	48	96+00	764.95	OP - SB - 16	763.13			1.6	2.4	OP - SB - 16	3	X				
99+99		398	222.9	17.2	25.5		766.00	N																			
100+01							766.00	Y			2.00	49	100+00	765.86	OP - SB - 17	764.37			1.6	2.4	OP - SB - 17	3	X				
103+99		398	222.9	17.2	25.5		767.27	N																			
104+01							767.28	Y			2.00	48	104+00	767.14	OP - SB - 18	765.27			1.6	2.4	OP - SB - 18	3	X				
107+99		398	222.9	17.2	25.5		768.22	N																			
108+01							768.22	Y			2.00	50	108+00	768.07	OP - SB - 19	765.59			1.6	2.4	OP - SB - 19	3	X				
111+99		398	222.9	17.2	25.5		769.16	N																			

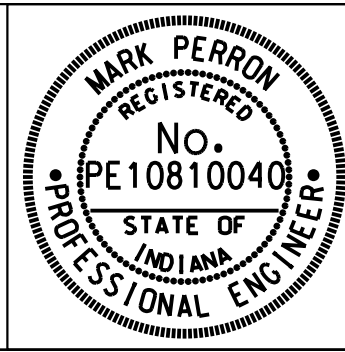


RECOMMENDED FOR APPROVAL *Mark Perron* 10/04/2013 DATE
DESIGN ENGINEER
DESIGNED: JWG DRAWN: SJC
CHECKED: HKH CHECKED: HKH

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE

SCALE	BRIDGE FILE
N/A	DESIGNATION 0710399
SURVEY BOOK	SHEETS 110 of 162
CONTRACT R-32258	PROJECT 0710399

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE											OUTLET PIPE								OUTLET PROTECTORS					REMARKS		
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. _____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO. _____	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL, TYPE I	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. _____	OUTLET PROTECTOR TYPE	Location				
	4"	6"																					LFT	LFT		SYS	CYS
Line "A" SB Median																											
112+01						768.90	Y			2.00	49	112+00	768.75	OP - SB - 20	765.94			1.6	2.4	OP - SB - 20	3	X					
115+75		374	209.5	16.1	24.0	769.65	N																				
117+00						768.90	Y			2.00	52	116+99	768.74	OP - SB - 21	766.74			1.6	2.4	OP - SB - 21	3	X					
121+00		400	224.0	17.2	25.6	769.70	N																				
121+02						768.76	Y			2.00	21	121+01	768.70	OP - SB - 23	769.29			0.2	0.2	OP - SB - 23	3		X				
125+00		398	222.9	17.2	25.5	769.56	N																				
125+02						768.98	Y			2.00	49	125+01	768.83	OP - SB - 24	767.41			1.6	2.4	OP - SB - 24	3	X					
128+00		298	166.9	12.9	19.1	769.58	N																				
128+02						769.58	Y			2.00	18	128+01	769.53	OP - SB - 26	768.72			0.2	0.2	OP - SB - 26	3		X				
132+00		398	222.9	17.2	25.5	770.72	N																				
132+02						770.74	Y			2.00	49	132+01	770.60	OP - SB - 27	769.26			1.6	2.4	OP - SB - 27	3	X					
136+00		398	222.9	17.2	25.5	773.06	N																				
136+02						773.07	Y			2.00	22	136+01	773.01	OP - SB - 30	772.75			0.2	0.2	OP - SB - 30	3		X				
140+00		398	222.9	17.2	25.5	775.32	N																				
140+02						775.33	Y			2.00	49	140+01	775.19	OP - SB - 31	773.80			1.6	2.4	OP - SB - 31	3	X					
144+00		398	222.9	17.2	25.5	777.56	N																				
144+02						777.57	Y			2.00	50	144+01	777.42	OP - SB - 33	775.81			1.6	2.4	OP - SB - 33	3	X					
148+00		398	222.9	17.2	25.5	779.63	N																				
148+02						779.64	Y			2.00	19	148+01	779.59	OP - SB - 36	778.83			0.2	0.2	OP - SB - 36	3		X				
152+00		398	222.9	17.2	25.5	782.22	N																				
152+02						782.23	Y			2.00	50	152+01	782.08	OP - SB - 37	778.83			1.6	2.4	OP - SB - 37	3	X					
156+00		398	222.9	17.2	25.5	786.05	N																				
156+02						786.08	Y			2.00	49	156+01	785.94	OP - SB - 38	781.60			1.6	2.4	OP - SB - 38	3	X					
160+00		398	222.9	17.2	25.5	790.57	N																				
160+02						790.59	Y			2.00	48	160+01	790.45	OP - SB - 39	786.05			1.6	2.4	OP - SB - 39	3	X					
164+00		398	222.9	17.2	25.5	794.84	N																				
164+02						794.86	Y			2.00	49	164+01	794.72	OP - SB - 41	791.26			1.6	2.4	OP - SB - 41	3	X					
168+00		398	222.9	17.2	25.5	799.13	N																				
169+50						800.86	Y			2.00	65	169+49	800.67	OP - SB - 43	799.27			1.6	2.4	OP - SB - 43	3	X					
172+00		250	140.0	10.8	16.0	803.69	N																				
172+02						803.71	Y			2.00	63	172+01	803.52	OP - SB - 44	801.90			1.6	2.4	OP - SB - 44	3	X					
176+00		398	222.9	17.2	25.5	808.27	N																				
176+02						808.29	Y			2.00	50	176+01	808.14	OP - SB - 46	806.65			1.6	2.4	OP - SB - 46	3	X					
180+00		398	222.9	17.2	25.5	812.57	N																				
180+02						812.60	Y			2.00	53	180+01	812.44	OP - SB - 48	811.24			1.6	2.4	OP - SB - 48	3	X					
184+00		398	222.9	17.2	25.5	816.38	N																				
184+02						816.40	Y			2.00	20	184+01	816.34	OP - SB - 50	815.63			0.2	0.2	OP - SB - 50	3		X				
188+00		398	222.9	17.2	25.5	819.24	N																				



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER DATE 10/04/2013
 DESIGNED: JWG DRAWN: SJC
 CHECKED: HKH CHECKED: HKH

INDIANA DEPARTMENT OF TRANSPORTATION
 UNDERDRAIN TABLE

SCALE: N/A BRIDGE FILE
 DESIGNATION: 0710399
 SURVEY BOOK SHEETS
 111 of 162
 CONTRACT PROJECT
 R-32258 0710399

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE											OUTLET PIPE							OUTLET PROTECTORS						REMARKS		
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS SYS	AGGREGATE FOR UNDERDRAINS CYS	HMA FOR UNDERDRAINS TONS	SPECIAL GRADE %	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE LFT	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO.	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL TYPE I CYS	HMA FOR UNDERDRAINS TONS	OUTLET PROTECTOR NO.	OUTLET PROTECTOR TYPE	Location				
	4" LFT	6" LFT																					OUTSIDE LEFT	MEDIAN LEFT		MEDIAN RIGHT	OUTSIDE RIGHT
Line "A" SB Median																											
188+02		398	222.9	17.2	25.5	819.26	Y			2.00	20	188+01	819.20	OP - SB - 52	818.78			0.2	0.2	OP - SB - 52	3		X				
192+00						822.16	N																				
192+02		326	182.6	14.1	20.9	822.17	Y			2.00	50	192+01	822.02	OP - SB - 53	821.51			1.6	2.4	OP - SB - 53	3	X					
195+28						824.48	N																				
195+30		73	62.8	6.6		824.49	Y			2.00	58	195+29	824.32	OP - SB - 55	824.05					OP - SB - 55	3	X					
196+03						824.96	N																				
196+59		41	35.3	3.7		825.32	Y			2.00	59	196+58	825.15	OP - SB - 56	824.04					OP - SB - 56	3	X					
197+00						825.63	N																				
197+02		298	166.9	12.9	19.1	825.65	Y			2.00	51	197+01	825.50	OP - SB - 57	823.16			1.6	2.4	OP - SB - 57	3	X					
200+00						828.27	N																				
200+02		398	222.9	17.2	25.5	828.29	Y			2.00	49	200+01	828.15	OP - SB - 59	825.76			1.6	2.4	OP - SB - 59	3	X					
204+00						834.22	N																				
204+02		398	222.9	17.2	25.5	834.26	Y			2.00	21	204+01	834.20	OP - SB - 62	833.44			0.2	0.2	OP - SB - 62	3		X				
208+00						841.56	N																				
208+02		398	222.9	17.2	25.5	841.60	Y			2.00	49	208+01	841.46	OP - SB - 63	837.57			1.6	2.4	OP - SB - 63	3	X					
212+00						848.16	N																				
212+03		397	222.4	17.1	25.5	848.20	Y			2.00	47	212+02	848.06	OP - SB - 64	847.43			0.2	0.2	OP - SB - 64	3		X				
216+00						852.93	N																				
216+02		499	279.5	21.5	32.0	852.95	Y			2.00	19	216+01	852.90	OP - SB - 66	852.32			0.2	0.2	OP - SB - 66	3		X				
221+01						856.73	Y			2.00	50	221+02	856.58	OP - SB - 67	851.17			1.6	2.4	OP - SB - 67	3	X					
222+50		400	224.0	17.2	25.6	858.01	Y			2.00	49	222+49	857.87	OP - SB - 68	854.51			1.6	2.4	OP - SB - 68	3	X					
226+50						861.01	N																				
226+52		400	224.0	17.2	25.6	861.02	Y			2.00	52	226+51	860.87	OP - SB - 70	860.40			1.6	2.4	OP - SB - 70	3	X					
230+52						863.30	N																				
230+53		247	138.4	10.7	15.9	863.30	N																				
233+00						862.63	Y			2.00	20	233+01	862.57	OP - SB - 72	862.33			0.2	0.2	OP - SB - 72	3		X				
233+02		398	222.9	17.2	25.5	862.63	N																				
237+00						860.76	Y			2.00	52	237+01	860.61	OP - SB - 73	858.65			1.6	2.4	OP - SB - 73	3	X					
237+02		398	222.9	17.2	25.5	860.74	N																				
241+00						858.70	Y			2.00	52	241+01	858.55	OP - SB - 75	853.47			1.6	2.4	OP - SB - 75	3	X					
241+02		398	222.9	17.2	25.5	858.69	N																				
245+00						857.18	Y			2.00	52	245+01	857.03	OP - SB - 76	854.76			1.6	2.4	OP - SB - 76	3	X					
245+02		398	222.9	17.2	25.5	857.18	N																				
249+00						856.40	Y			2.00	51	249+01	856.25	OP - SB - 77	854.54			1.6	2.4	OP - SB - 77	3	X					
249+02		398	222.9	17.2	25.5	856.39	N																				
253+00						855.82	Y			2.00	54	253+01	855.66	OP - SB - 78	855.41			1.6	2.4	OP - SB - 78	3	X					
253+02		398	222.9	17.2	25.5	855.81	N																				
257+00						855.04	Y			2.00	51	257+01	854.89	OP - SB - 79	854.29			1.6	2.4	OP - SB - 79	3	X					



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE

DESIGNED: JWG DRAWN: SJC
 CHECKED: HKH CHECKED: HKH

INDIANA DEPARTMENT OF TRANSPORTATION

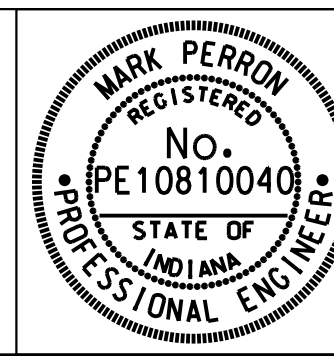
UNDERDRAIN TABLE

SCALE N/A	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 112 of 162
CONTRACT R-32258	PROJECT 0710399

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE										OUTLET PIPE								OUTLET PROTECTORS				REMARKS				
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. _____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO. _____	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL, TYPE 1	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. _____	OUTLET PROTECTOR TYPE		Location			
	4"	6"																						LFT	LFT	SYS	CYS
Line "A" SB Median																											
257+02		398	222.9	17.2	25.5		855.04	N																			
261+00							852.84	Y		2.00	51	261+01	852.69	OP - SB - 80	849.89				1.6	2.4	OP - SB - 80	3	X				
261+02		398	222.9	17.2	25.5		852.83	N																			
265+00							849.57	Y		2.00	51	265+01	849.42	OP - SB - 82	845.30				1.6	2.4	OP - SB - 82	3	X				
265+02		398	222.9	17.2	25.5		849.55	N																			
269+00							846.40	Y		2.00	50	269+01	846.25	OP - SB - 83	841.03				1.6	2.4	OP - SB - 83	3	X				
269+03		526	294.6	22.7	33.7		846.37	Y		2.00	50	269+02	846.25	OP - SB - 83	841.03				1.6	2.4	OP - SB - 83	3	X				
274+29							841.89	Y		2.00	51	274+30	841.74	OP - SB - 84	837.30				1.6	2.4	OP - SB - 84	3	X				
275+42		156	87.4	6.8	10.0		840.94	N																			
276+98							839.61	Y		2.00	62	276+99	839.43	OP - SB - 85	835.35				1.6	2.4	OP - SB - 85	3	X				
277+00		400	224.0	17.2	25.6		839.59	N																			
281+00							836.49	Y		2.00	50	281+01	836.34	OP - SB - 86	833.20				1.6	2.4	OP - SB - 86	3	X				
281+02		398	222.9	17.2	25.5		836.48	N																			
285+00							833.10	Y		2.00	53	285+01	832.94	OP - SB - 87	829.97				1.6	2.4	OP - SB - 87	3	X				
285+02		398	222.9	17.2	25.5		833.08	N																			
289+00							829.75	Y		2.00	52	289+01	829.60	OP - SB - 89	825.32				1.6	2.4	OP - SB - 89	3	X				
289+02		297	166.4	12.8	19.1		829.73	N																			
291+99							827.36	Y		2.00	50	292+00	827.21	OP - SB - 90	821.09				1.6	2.4	OP - SB - 90	3	X				

Note:

Outlet Protectors No. OP-SB-9, OP-SB-11, OP-SB-28, OP-SB-32, OP-SB-34, OP-SB-40, OP-SB-42, OP-SB-45, OP-SB-47, OP-SB-54, OP-SB-58, OP-SB-60, OP-SB-69, OP-SB-74, OP-SB-81 and OP-SB-88 were removed.



RECOMMENDED FOR APPROVAL *Mark Perron* 10/04/2013
DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: SJC
CHECKED: HKH CHECKED: HKH

INDIANA DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE

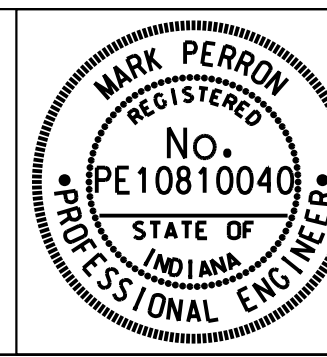
SCALE: N/A BRIDGE FILE

DESIGNATION: 0710399

SURVEY BOOK: SHEETS 113 of 162

CONTRACT: R-32258 PROJECT: 0710399

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE												OUTLET PIPE							OUTLET PROTECTORS				REMARKS			
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	% SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO.	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL, TYPE I	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO.	OUTLET PROTECTOR TYPE	Location				
	4"	6"																					OUTSIDE LEFT		MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT
	LFT	LFT	SYS	CYS	TONS							LFT															
Line "A" NB Outside																											
156+02						786.17	Y			2.00	22	156+01	786.11	OP - NB - 36	783.57			0.5	1.1	OP - NB - 36	3				X		
160+00	398		243.2	10.4	24.3	790.44	N																				
160+02						790.46	Y			2.00	24	160+01	790.34	OP - NB - 37	787.42			0.5	1.1	OP - NB - 37	3				X		
164+00	398		243.2	10.4	24.3	794.76	N																				
164+02						794.78	Y			2.00	23	164+01	794.66	OP - NB - 38	791.67			0.5	1.1	OP - NB - 38	3				X		
168+00	398		243.2	10.4	24.3	799.04	N																				
169+50						800.81	Y			2.00	27	169+49	800.73	OP - NB - 39	799.98			0.5	1.1	OP - NB - 39	3				X		
172+00	250		152.8	6.5	15.3	803.74	N																				
172+02						803.76	Y			2.00	24	172+01	803.64	OP - NB - 41	802.93			0.5	1.1	OP - NB - 41	3				X		
176+00	398		243.2	10.4	24.3	808.31	N																				
176+02						808.33	Y			2.00	24	176+01	808.21	OP - NB - 43	805.83			0.5	1.1	OP - NB - 43	3				X		
180+00	398		243.2	10.4	24.3	812.64	N																				
180+02						812.66	Y			2.00	24	180+01	812.50	OP - NB - 44	810.60			0.5	1.1	OP - NB - 44	3				X		
184+00	398		243.2	10.4	24.3	816.83	N																				
184+02						816.84	Y			2.00	21	184+01	816.78	OP - NB - 46	811.01			0.5	1.1	OP - NB - 46	3				X		
188+00	398		243.2	10.4	24.3	819.56	N																				
188+02						819.57	Y			2.00	23	188+01	819.47	OP - NB - 47	818.25			0.5	1.1	OP - NB - 47	3				X		
192+00	398		243.2	10.4	24.3	822.34	N																				
192+02						822.35	Y			2.00	22	192+01	822.29	OP - NB - 48	821.37			0.5	1.1	OP - NB - 48	3				X		
195+28	326		199.2	8.5	19.9	824.81	N																				
195+30						824.82	Y			2.00	22	195+29	824.71	OP - NB - 49	822.76						OP - NB - 49	3				X	
195+65		35	30.1	3.2		825.03	N																				
195+90						825.21	Y			2.00	22	195+89	825.12	OP - NB - 50	821.70						OP - NB - 50	3				X	
197+00		110	94.6	9.9		826.01	N																				
197+02						826.02	Y			2.00	22	197+01	825.88	OP - NB - 51	822.60			0.5	1.1	OP - NB - 51	3				X		
200+00	298		182.1	7.8	18.2	828.48	N																				
200+02						828.50	Y			2.00	21	200+01	828.43	OP - NB - 52	824.86			0.5	1.1	OP - NB - 52	3				X		
204+00	398		243.2	10.4	24.3	834.72	N																				
204+02						834.75	Y			2.00	22	204+01	834.69	OP - NB - 53	829.96			0.5	1.1	OP - NB - 53	3				X		
208+00	398		243.2	10.4	24.3	841.89	N																				
208+02						841.92	Y			2.00	23	208+01	841.72	OP - NB - 55	836.48			0.5	1.1	OP - NB - 55	3				X		
212+00	398		243.2	10.4	24.3	848.32	N																				
212+02						848.35	Y			2.00	22	212+01	848.22	OP - NB - 56	844.49			0.5	1.1	OP - NB - 56	3				X		
216+00	398		243.2	10.4	24.3	853.08	N																				
216+02						853.09	Y			2.00	23	216+01	852.86	OP - NB - 57	850.08			0.5	1.1	OP - NB - 57	3				X		
221+00	498		304.3	13.0	30.4	857.16	Y			2.00	22	221+01	857.05	OP - NB - 58	850.80			0.5	1.1	OP - NB - 58	3				X		
222+50						858.34	Y			2.00	20	222+49	858.17	OP - NB - 59	854.80			0.5	1.1	OP - NB - 59	3				X		
226+50	400		244.4	10.4	24.4	861.37	N																				



RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
 DESIGNED: JWG DRAWN: SJC
 CHECKED: HKH CHECKED: HKH

INDIANA DEPARTMENT OF TRANSPORTATION

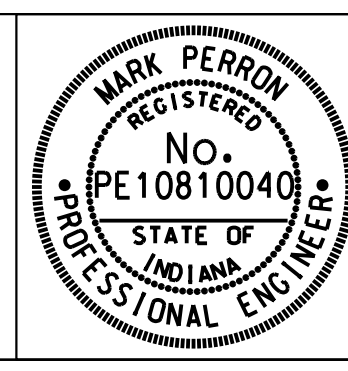
UNDERDRAIN TABLE

SCALE	BRIDGE FILE
N/A	
	DESIGNATION
	0710399
SURVEY BOOK	SHEETS
	116 of 162
CONTRACT	PROJECT
R-32258	0710399

UNDERDRAIN TABLE

UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE											OUTLET PIPE								OUTLET PROTECTORS				REMARKS			
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO. _____	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. _____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO. _____	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL, TYPE I	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. _____	OUTLET PROTECTOR TYPE	Location				
	4"	6"																					OUTSIDE LEFT		MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT
LFT	LFT	SYS	CYS	TONS	%						LFT																
Line "A" NB Outside																											
226+52	400		244.4	10.4	24.4		861.38	Y		2.00	23	226+51	861.17	OP - NB - 60	860.40				0.5	1.1	OP - NB - 60	3				X	
230+52							863.63	N																			
230+53	247		151.0	6.5	15.1		863.63	N																			
233+00							862.92	Y		2.00	23	233+01	862.74	OP - NB - 61	862.03				0.5	1.1	OP - NB - 61	3				X	
233+02	398		243.2	10.4	24.3		862.92	N																			
237+00							861.08	Y		2.00	23	237+01	860.88	OP - NB - 62	858.68				0.5	1.1	OP - NB - 62	3				X	
237+02	398		243.2	10.4	24.3		861.07	N																			
241+00							859.10	Y		2.00	22	241+01	858.99	OP - NB - 63	853.99				0.5	1.1	OP - NB - 63	3				X	
241+02	398		243.2	10.4	24.3		859.10	N																			
245+00							857.57	Y		2.00	22	245+01	857.51	OP - NB - 64	853.53				0.5	1.1	OP - NB - 64	3				X	
245+02	398		243.2	10.4	24.3		857.57	N																			
249+00							856.74	Y		2.00	22	249+01	856.65	OP - NB - 65	855.51				0.5	1.1	OP - NB - 65	3				X	
249+02	398		243.2	10.4	24.3		856.73	N																			
253+00							856.06	Y		2.00	22	253+01	855.98	OP - NB - 66	855.33				0.5	1.1	OP - NB - 66	3				X	
253+02	398		243.2	10.4	24.3		856.05	N																			
257+00							855.32	Y		2.00	23	257+01	855.10	OP - NB - 67	854.09				0.5	1.1	OP - NB - 67	3				X	
257+02	398		243.2	10.4	24.3		855.31	N																			
261+00							853.08	Y		2.00	24	261+01	852.84	OP - NB - 68	850.96				0.5	1.1	OP - NB - 68	3				X	
261+02	398		243.2	10.4	24.3		853.06	N																			
265+00							849.85	Y		2.00	23	265+01	849.62	OP - NB - 69	846.71				0.5	1.1	OP - NB - 69	3				X	
265+02	398		243.2	10.4	24.3		849.83	N																			
269+00							846.61	Y		2.00	24	269+01	846.41	OP - NB - 70	842.76				0.5	1.1	OP - NB - 70	3				X	
269+03	526		321.4	13.7	32.1		846.58	Y		2.00	24	269+02	846.41	OP - NB - 70	842.76				0.5	1.1	OP - NB - 70	3				X	
274+29							842.08	Y		2.00	20	274+30	842.02	OP - NB - 71	838.14				0.5	1.1	OP - NB - 71	3				X	
274+31	267		163.2	7.0	16.3		842.06	N																			
276+98							840.09	Y		2.00	24	276+99	839.92	OP - NB - 72	835.66				0.5	1.1	OP - NB - 72	3				X	
277+00	400		244.4	10.4	24.4		840.07	N																			
281+00							836.77	Y		2.00	23	281+01	836.63	OP - NB - 73	833.31				0.5	1.1	OP - NB - 73	3				X	
281+02	398		243.2	10.4	24.3		836.75	N																			
285+00							833.29	Y		2.00	22	285+01	833.19	OP - NB - 74	830.23				0.5	1.1	OP - NB - 74	3				X	
285+02	398		243.2	10.4	24.3		833.27	N																			
289+00							829.65	Y		2.00	24	289+01	829.53	OP - NB - 75	826.62				0.5	1.1	OP - NB - 75	3				X	
289+02	297		181.5	7.8	18.2		829.64	N																			
291+99							827.21	Y		2.00	23	292+00	827.14	OP - NB - 76	821.22				0.5	1.1	OP - NB - 76	3				X	

Note:
Outlet Protectors No. OP-SB-41 and OP-SB-43 were removed.

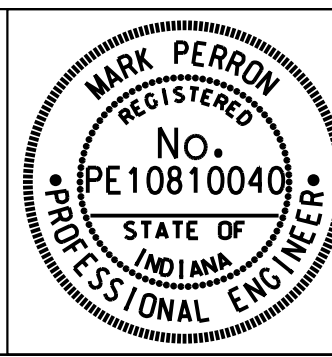


RECOMMENDED FOR APPROVAL *Mark Perron* DESIGN ENGINEER 10/04/2013 DATE
 DESIGNED: JWG DRAWN: SJC
 CHECKED: HKH CHECKED: HKH

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE

SCALE	BRIDGE FILE
N/A	
DESIGNATION	
0710399	
SURVEY BOOK	SHEETS
	117 of 162
CONTRACT	PROJECT
R-32258	0710399

UNDERDRAIN TABLE																												
UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE										OUTLET PIPE								OUTLET PROTECTORS				REMARKS					
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO.	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL, TYPE I	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO.	OUTLET PROTECTOR TYPE		Location				
	4"	6"																						OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	
	LFT	LFT																						SYS	CYS	TONS	%	LFT
Line "A" NB Median																												
1096+54						759.52	N																					
1097+18	64		39.2	1.7	4.0	759.05	Y			2.00	51	1097+18	758.80	OP - NB - 1a	754.15			1.5	3.7	OP - NB - 1a	3				X	Connect to existing underdrain		
1097+18						759.05	N																					
1101+00	382		233.5	10.0	23.4	758.44	Y			2.00	49	1101+01	757.25	OP - NB - 1	754.43			1.5	3.7	OP - NB - 1	3					X		
1101+02						758.44	N																					
1101+91	89		54.4	2.4	5.5	758.23	Y			2.00	46	1101+92	757.08	OP - NB - 2	754.49			1.5	3.7	OP - NB - 2	3					X		
1101+94						758.23	Y			2.00	46	1101+93	757.07	OP - NB - 2	754.49			1.5	3.7	OP - NB - 2	3					X		
1105+00	306		187.0	8.0	18.7	758.61	N																					
1105+02						758.62	Y			2.00	48	1105+01	757.58	OP - NB - 3	754.98			1.5	3.7	OP - NB - 3	3					X		
1106+55	153		93.5	4.0	9.4	758.74	N																					
1106+56						758.74	N																					
1110+50	394		240.8	10.3	24.1	758.09	Y			2.00	47	1110+51	757.12	OP - NB - 4	755.38			1.5	3.7	OP - NB - 4	3					X		
1110+52						758.09	N																					
48+13	90		55.0	2.4	5.5	757.98	Y			2.00	48	48+14	757.35	OP - NB - 5	757.08			1.5	3.7	OP - NB - 5	3					X		
48+16						757.50	Y			2.00	48	48+15	757.35	OP - NB - 5	757.08			1.5	3.7	OP - NB - 5	3					X		
49+49	133		81.3	3.5	8.2	757.76	N																					
49+50						757.76	N																					
50+48	98		84.3	8.9	6.0	757.68	Y			2.00	49	50+49	757.43	OP - NB - 6	755.90			1.5	3.7	OP - NB - 6	3					X		
50+50						757.68	N																					
50+85	35		21.4	1.0	2.2	757.61	Y			2.00	48	50+86	757.43	OP - NB - 7	756.08			1.5	3.7	OP - NB - 7	3					X		
50+88						757.61	Y			2.00	49	50+87	757.47	OP - NB - 7	756.08			1.5	3.7	OP - NB - 7	3					X		
53+48	260		158.9	6.8	15.9	758.16	N																					
53+50						758.17	Y			2.00	48	53+49	758.03	OP - NB - 8	756.50			1.5	3.7	OP - NB - 8	3					X		
56+48	298		182.1	7.8	18.2	759.21	N																					
56+50						759.21	Y			2.00	48	56+49	759.07	OP - NB - 9	756.00			1.5	3.7	OP - NB - 9	3					X		
60+00	350		213.9	9.1	21.4	760.49	N																					
60+02						760.50	Y			2.00	49	60+01	760.36	OP - NB - 10	757.85			1.5	3.7	OP - NB - 10	3					X		
62+98	296		180.9	7.7	18.1	761.32	N																					
63+00						761.32	Y			2.00	48	62+99	761.18	OP - NB - 11	757.70			1.5	3.7	OP - NB - 11	3					X		
65+95	295		180.3	7.7	18.0	761.87	N																					
65+96						761.86	N																					
66+99	103		63.0	2.7	6.3	761.74	Y			2.00	47	67+00	761.60	OP - NB - 12	756.48			1.5	3.7	OP - NB - 12	3					X		
67+01						761.73	N																					
71+00	399		243.8	10.4	24.4	760.93	Y			2.00	48	71+01	760.79	OP - NB - 13	756.15			1.5	3.7	OP - NB - 13	3					X		
71+03						761.40	Y			2.00	49	71+02	760.79	OP - NB - 13	756.15			1.5	3.7	OP - NB - 13	3					X		
76+00	497		303.7	13.0	30.4	760.41	Y			2.00	49	76+01	760.26	OP - NB - 14	756.47			1.5	3.7	OP - NB - 14	3					X		
76+02						760.81	N																					
78+25	223		136.3	5.8	13.7	760.36	Y			2.00	50	78+26	760.20	OP - NB - 15	755.97			1.5	3.7	OP - NB - 15	3					X		
78+28						760.66	Y			2.00	50	78+27	760.51	OP - NB - 15	755.97			1.5	3.7	OP - NB - 15	3					X		
80+99	271		165.6	7.1	16.6	761.01	N																					

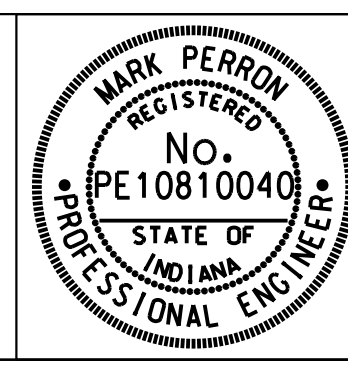


RECOMMENDED FOR APPROVAL *Mark Perron* 10/04/2013
 DESIGN ENGINEER DATE
 DESIGNED: JWG DRAWN: SJC
 CHECKED: HKH CHECKED: HKH

INDIANA DEPARTMENT OF TRANSPORTATION
 UNDERDRAIN TABLE

SCALE	BRIDGE FILE
N/A	
DESIGNATION	
0710399	
SURVEY BOOK	SHEETS
	118 of 162
CONTRACT	PROJECT
R-32258	0710399

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE										OUTLET PIPE								OUTLET PROTECTORS				REMARKS				
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	45 DEG ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO.	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	STRUCTURE RACKET, TYPE 1	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO.	OUTLET PROTECTOR TYPE		Location			
	4"	6"																						LFT	LFT	SYS	CYS
Line "A" NB Median																											
81+01																											
84+99	398		243.2	10.4	24.3		761.02	Y		2.00	49	81+00	760.81	OP - NB - 16	756.67				1.5	3.7	OP - NB - 16	3				X	
							762.03	N																			
85+01																											
88+99	398		243.2	10.4	24.3		762.03	Y		2.00	49	85+00	761.89	OP - NB - 17	758.72				1.5	3.7	OP - NB - 17	3				X	
							762.98	N																			
89+01																											
91+99	298		182.1	7.8	18.2		762.99	Y		2.00	49	89+00	762.84	OP - NB - 18	759.45				1.5	3.7	OP - NB - 18	3				X	
							763.91	N																			
92+01																											
95+99	398		243.2	10.4	24.3		763.91	Y		2.00	48	92+00	763.75	OP - NB - 19	760.14				1.5	3.7	OP - NB - 19	3				X	
							764.94	N																			
96+01																											
99+99	398		243.2	10.4	24.3		764.94	Y		2.00	49	96+00	764.79	OP - NB - 20	761.85				1.5	3.7	OP - NB - 20	3				X	
							765.96	N																			
100+01																											
103+99	398		243.2	10.4	24.3		765.97	Y		2.00	49	100+00	765.74	OP - NB - 21	762.79				1.5	3.7	OP - NB - 21	3				X	
							767.48	N																			
104+01																											
107+99	398		243.2	10.4	24.3		767.48	Y		2.00	47	104+00	767.34	OP - NB - 22	763.85				1.5	3.7	OP - NB - 22	3				X	
							768.57	N																			
108+01																											
111+99	398		243.2	10.4	24.3		768.57	Y		2.00	47	108+00	768.43	OP - NB - 23	765.35				1.5	3.7	OP - NB - 23	3				X	
							769.41	N																			
112+01																											
115+75	374		228.6	9.8	22.9	0.20	769.22	Y		2.00	46	112+00	769.08	OP - NB - 24	765.78				1.5	3.7	OP - NB - 24	3				X	
							769.96	N																			
117+00																											
121+00	400		244.4	10.4	24.4	0.20	769.29	Y		2.00	48	116+99	769.15	OP - NB - 25	766.75				1.5	3.7	OP - NB - 25	3				X	
							770.09	N																			
121+02																											
125+00	398		243.2	10.4	24.3	0.20	769.18	Y		2.00	46	121+01	768.99	OP - NB - 26	766.96				1.5	3.7	OP - NB - 26	3				X	
							769.97	N																			
125+02																											
128+00	298		182.1	7.8	18.2	0.20	769.43	Y		2.00	48	125+01	769.28	OP - NB - 27	767.86				1.5	3.7	OP - NB - 27	3				X	
							770.02	N																			
128+02																											
132+00	398		243.2	10.4	24.3		770.02	Y		2.00	47	128+01	769.88	OP - NB - 28	767.60				1.5	3.7	OP - NB - 28	3				X	
							771.13	N																			
132+02																											
136+00	398		243.2	10.4	24.3		771.14	Y		2.00	48	132+01	770.95	OP - NB - 29	768.84				1.5	3.7	OP - NB - 29	3				X	
							773.28	N																			
136+02																											
140+00	398		243.2	10.4	24.3		773.30	Y		2.00	48	136+01	773.16	OP - NB - 30	771.61				1.5	3.7	OP - NB - 30	3				X	
							775.60	N																			
140+02																											
144+00	398		243.2	10.4	24.3		775.62	Y		2.00	21	140+01	775.56	OP - NB - 32	775.12				0.2	0.4	OP - NB - 32	3			X		
							777.83	N																			
144+02																											
148+00	398		243.2	10.4	24.3		777.84	Y		2.00	48	144+01	777.70	OP - NB - 33	775.95				1.5	3.7	OP - NB - 33	3				X	
							779.99	N																			
148+02																											
152+00	398		243.2	10.4	24.3		780.01	Y		2.00	48	148+01	779.87	OP - NB - 34	775.67				1.5	3.7	OP - NB - 34	3				X	
							782.43	N																			
152+02																											
156+00	398		243.2	10.4	24.3		782.45	Y		2.00	48	152+01	782.31	OP - NB - 35	778.91				1.5	3.7	OP - NB - 35	3				X	
							786.24	N																			



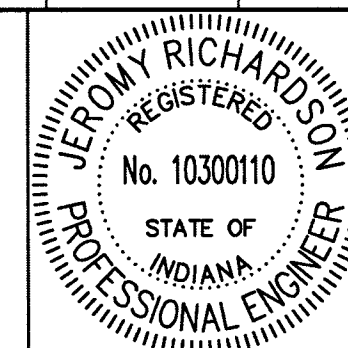
RECOMMENDED FOR APPROVAL: *Mark Perron* 10/04/2013
DESIGN ENGINEER DATE
DESIGNED: JWG DRAWN: SJC
CHECKED: HKH CHECKED: HKH

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE

SCALE N/A	BRIDGE FILE
	DESIGNATION 0710399
SURVEY BOOK	SHEETS 119 of 162
CONTRACT R-32258	PROJECT 0710399

UNDERDRAIN TABLE

UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE							OUTLET PIPE										OUTLET PROTECTORS				REMARKS				
	TYPE 4 PIPE		AGGREGATE FOR UNDERDRAINS	GEOTEXTILES FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOWLINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT TO STRUCTURE NO.	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED	Y-CONNECTORS REQUIRED	6 in. OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	DITCH FLOW LINE ELEVATION @ OUTLET	CONNECT OUTLET PIPE TO STR. NO.	STRUCTURE BACKFILL TYPE I	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO.	OUTLET PROTECTOR TYPE		LOCATION			
	4 in.	6 in.																					OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT
	ft	ft	cyd	sys	ton	%	(Y/N)	each	each	ft				cys	ton											
Line "A" SB Outside (Cont.)																										
						802.69	Y			2		24.0	500+00.0	802.62	791.71		1.2	0.7	OP-106	1	X					
		400.0	36.0	364.0	48.0	813.31																				
						813.31	Y			2		24.0	504+00.0	813.24	786.68		1.2	0.7	OP-107	1	X					
		282.8	25.5	257.3	33.9	817.14																				
						817.14																				
		90.0	8.1	81.9	10.8	816.54	Y			2		24.0	507+72.8	816.47	785.89		1.2	0.7	OP-108	1	X					
Line "A" SB Median																										
						826.83																				
		400.0	36.0	364.0	48.0	824.23	Y			2		50.0	296+00.0	824.08	817.75		1.2	2.5	OP-1	1		X				
						824.23																				
		400.0	36.0	364.0	48.0	821.98	Y			2		50.0	300+00.0	821.83	818.52		1.2	2.5	OP-2	2		X				
						822.48																				
		400.0	36.0	364.0	48.0	820.69	Y			2		50.0	304+00.0	820.54	820.48		1.2	2.5	OP-3	3		X				
						820.69																				
		400.0	36.0	364.0	48.0	818.81	Y			2		50.0	308+00.0	818.66	818.4		1.2	2.5	OP-4	3		X				
						818.31																				
		400.0	36.0	364.0	48.0	816.16	Y			2		50.0	312+00.0	816.01	815.74		1.2	2.5	OP-5	3		X				
						816.16																				
		400.0	36.0	364.0	48.0	814.18	Y			2		50.0	316+00.0	814.03	812.62		1.2	2.5	OP-6	3		X				
						814.18																				
		400.0	36.0	364.0	48.0	812.19	Y			2		50.0	320+00.0	812.04	809.59		1.2	2.5	OP-7	3		X				
						812.19																				
		400.0	36.0	364.0	48.0	810.21	Y			2		50.0	324+00.0	810.06	808.66		1.2	2.5	OP-8	3		X				
						810.21																				
		400.0	36.0	364.0	48.0	808.00	Y			2		50.0	328+00.0	807.85	806.86		1.2	2.5	OP-9	3		X				
						808.00																				
		400.0	36.0	364.0	48.0	804.90	Y			2		50.0	332+00.0	804.75	803.34		1.2	2.5	OP-10	3		X				
						804.90																				
		400.0	36.0	364.0	48.0	801.80	Y			2		50.0	336+00.0	801.65	798.62		1.2	2.5	OP-11	2		X				
						801.80																				
		400.0	36.0	364.0	48.0	798.69	Y			2		50.0	340+00.0	798.54	794.76		1.2	2.5	OP-12	2		X				
						798.69																				
		400.0	36.0	364.0	48.0	795.60	Y			2		50.0	344+00.0	795.45	790.35		1.2	2.5	OP-13	1		X				
						795.60																				
		400.0	36.0	364.0	48.0	793.52	Y			2		50.0	348+00.0	793.37	791.63		1.2	2.5	OP-14	3		X				
						793.52																				
		6372.8	573.6	5799.2	764.7							772.0	348+00.0	793.37	791.63		20.4	37.1								



RECOMMENDED FOR APPROVAL
Jeromy Richardson 10-25-13
 DESIGN ENGINEER DATE
 DESIGNED: CCR DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

INDIANA
 DEPARTMENT OF TRANSPORTATION

 UNDERDRAIN
 TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	125 of 162
CONTRACT	PROJECT
R-32258	0710399

UNDERDRAIN TABLE

UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE							OUTLET PIPE											OUTLET PROTECTORS				REMARKS				
	TYPE 4 PIPE		AGGREGATE FOR UNDERDRAINS	GEOTEXTILES FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOWLINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT TO STRUCTURE NO.	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED	Y-CONNECTORS REQUIRED	6 in. OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	DITCH FLOW LINE ELEVATION @ OUTLET	CONNECT OUTLET PIPE TO STR. NO.	STRUCTURE BACKFILL TYPE I	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO.	OUTLET PROTECTOR TYPE	LOCATION					
	4 in. ft	6 in. ft																				cyd		sys	ton	%	each
Line "A" NB Median																											
292+00.0							828.06																				
296+00.0	400.0		24.0	344.0	28.0		824.57	Y				2	50.0	296+00.0	824.42	823.11				OP-53	3					X	
296+00.0							824.57																				
300+00.0	400.0		24.0	344.0	28.0		822.61	Y				2	50.0	300+00.0	822.46	822.13				OP-54	3					X	
300+00.0							822.61																				
304+00.0	400.0		24.0	344.0	28.0		820.38	Y				2	50.0	304+00.0	820.23	820.02				OP-55	3					X	
304+00.0							820.38																				
308+00.0	400.0		24.0	344.0	28.0		818.66	Y				2	50.0	308+00.0	818.51	818.22				OP-56	3					X	
308+00.0							818.66																				
312+00.0	400.0		24.0	344.0	28.0		816.43	Y				2	50.0	312+00.0	816.28	815.25				OP-57	3					X	
312+00.0							816.43																				
316+00.0	400.0		24.0	344.0	28.0		814.83	Y				2	50.0	316+00.0	814.68	812.28				OP-58	3					X	
316+00.0							814.83																				
320+00.0	400.0		24.0	344.0	28.0		812.81	Y				2	50.0	320+00.0	812.66	809.34				OP-59	2					X	
320+00.0							812.81																				
324+00.0	400.0		24.0	344.0	28.0		810.86	Y				2	50.0	324+00.0	810.71	809.78				OP-60	3					X	
324+00.0							810.86																				
328+00.0	400.0		24.0	344.0	28.0		808.56	Y				2	50.0	328+00.0	808.41	806.71				OP-61	3					X	
328+00.0							808.56																				
332+00.0	400.0		24.0	344.0	28.0		805.62	Y				2	50.0	332+00.0	805.47	802.94				OP-62	3					X	
332+00.0							805.62																				
336+00.0	400.0		24.0	344.0	28.0		802.36	Y				2	50.0	336+00.0	802.21	797.97				OP-63	1					X	
336+00.0							802.36																				
340+00.0	400.0		24.0	344.0	28.0		799.32	Y				2	50.0	340+00.0	799.17	794.33				OP-64	1					X	
340+00.0							799.32																				
344+00.0	400.0		24.0	344.0	28.0		796.18	Y				2	50.0	344+00.0	796.03	790.98				OP-65	1					X	
344+00.0							796.18																				
348+00.0	400.0		24.0	344.0	28.0		794.20	Y				2	50.0	348+00.0	794.05	793.83				OP-66	3					X	
348+00.0							794.20																				
352+00.0	400.0		24.0	344.0	28.0	-0.20%	793.40	Y				2	50.0	352+00.0	793.25	792.89				OP-67	3					X	
352+00.0							793.43																				
356+00.0	400.0		24.0	344.0	28.0	-0.20%	792.63	Y				2	50.0	356+00.0	792.48	792.11				OP-68	3					X	
356+00.0							792.90																				
360+00.0	400.0		24.0	344.0	28.0		792.01	Y				2	50.0	360+00.0	791.86	791.19				OP-69	3					X	
360+00.0							792.01																				
364+00.0	400.0		24.0	344.0	28.0		790.70	Y				2	50.0	364+00.0	790.55	789.92				OP-70	3					X	
Subtotals	7200.0		432.0	6192.0	504.0								900.0					21.6	45.0								

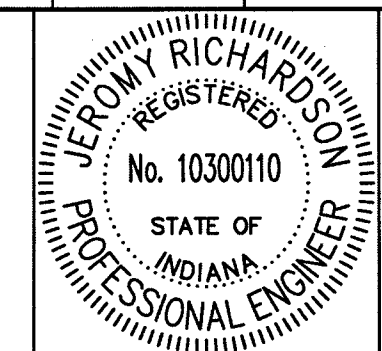
	RECOMMENDED FOR APPROVAL	<i>Jeromy Richardson</i> 10-25-13 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION UNDERDRAIN TABLE	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: CCR	DRAWN: JNII		N/A	-
	CHECKED: WRC	CHECKED: WRC		VERTICAL SCALE	DESIGNATION
				N/A	0710399
				SURVEY BOOK	SHEETS
				-	129 of 162
				CONTRACT	PROJECT
				R-32258	0710399

File Name: P:\CS\12-404-02\Road\Drawings\Plan\Underdrain.dwg Plot Date: 10/25/2013 Plotted By: Mima, John

UNDERDRAIN TABLE

UNDERDRAIN PIPE								OUTLET PIPE										OUTLET PROTECTORS				REMARKS					
UNDERDRAIN PIPE LIMITS		TYPE 4 PIPE		AGGREGATE FOR UNDERDRAINS	GEOTEXTILES FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOWLINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT TO STRUCTURE NO.	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED	Y-CONNECTORS REQUIRED	6 in. OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	DITCH FLOW LINE ELEVATION @ OUTLET	CONNECT OUTLET PIPE TO STR. NO.	STRUCTURE BACKFILL TYPE I	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO.		OUTLET PROTECTOR TYPE	LOCATION			
		4 in.	6 in.																					cyd	sys	ton	%
		ft	ft									each	each	ft					cys	ton				OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT
Line "A" NB Median (Cont.)																											
	500+00.0							803.06	Y			2		50.0	500+00.0	802.91	789.55		1.2	2.5	OP-110	1			X		
	504+00.0	400.0		24.0	344.0	28.0		813.15																			
	504+00.0							813.15	Y			2		50.0	504+00.0	813.00	791.01		1.2	2.5	OP-111	1			X		
	506+20.8	220.8		13.2	189.9	15.5		816.35																			
	506+20.8							816.35	Y			2		50.0	506+20.8	816.20	789.00		1.2	2.5	OP-112	1			X		
	507+10.7	89.9		5.4	77.3	6.3		817.43																			
Line "A" NB Outside																											
	292+00.0							828.08																			
	296+00.0	400.0		24.0	344.0	28.0		824.59	Y			2		24.0	296+00.0	824.52	823.11		1.2	0.7	OP-53	3				X	
	296+00.0							824.59																			
	300+00.0	400.0		24.0	344.0	28.0		822.61	Y			2		24.0	300+00.0	822.54	822.13		1.2	0.7	OP-54	3				X	
	300+00.0							822.61																			
	304+00.0	400.0		24.0	344.0	28.0		820.39	Y			2		24.0	304+00.0	820.32	820.02		1.2	0.7	OP-55	3				X	
	304+00.0							820.39																			
	308+00.0	400.0		24.0	344.0	28.0		818.56	Y			2		24.0	308+00.0	818.49	818.22		1.2	0.7	OP-56	3				X	
	308+00.0							818.56																			
	312+00.0	400.0		24.0	344.0	28.0		816.45	Y			2		24.0	312+00.0	816.38	815.25		1.2	0.7	OP-57	3				X	
	312+00.0							816.45																			
	316+00.0	400.0		24.0	344.0	28.0		814.85	Y			2		24.0	316+00.0	814.78	812.28		1.2	0.7	OP-58	3				X	
	316+00.0							814.85																			
	320+00.0	400.0		24.0	344.0	28.0		812.77	Y			2		24.0	320+00.0	812.7	809.34		1.2	0.7	OP-59	2				X	
	320+00.0							812.77																			
	324+00.0	400.0		24.0	344.0	28.0		810.79	Y			2		24.0	324+00.0	810.72	809.78		1.2	0.7	OP-60	3				X	
	324+00.0							810.79																			
	328+00.0	400.0		24.0	344.0	28.0		808.52	Y			2		24.0	328+00.0	808.45	806.71		1.2	0.7	OP-61	3				X	
	328+00.0							808.52																			
	332+00.0	400.0		24.0	344.0	28.0		805.65	Y			2		24.0	332+00.0	805.58	802.94		1.2	0.7	OP-62	3				X	
	332+00.0							805.65																			
	336+00.0	400.0		24.0	344.0	28.0		802.45	Y			2		24.0	336+00.0	802.38	797.97		1.2	0.7	OP-63	1				X	
	336+00.0							802.45																			
	340+00.0	400.0		24.0	344.0	28.0		799.32	Y			2		24.0	340+00.0	799.25	794.33		1.2	0.7	OP-64	1				X	
	340+00.0							799.32																			
	344+00.0	400.0		24.0	344.0	28.0		796.20	Y			2		24.0	344+00.0	796.13	790.98		1.2	0.7	OP-65	1				X	
	344+00.0							796.20																			
	348+00.0	400.0		24.0	344.0	28.0		794.23	Y			2		24.0	348+00.0	794.16	793.83		1.2	0.7	OP-66	3				X	
	Subtotals	6310.7		378.6	5427.2	441.8								486.0					20.4	17.3							

File Name: P:\CD012-404-02\Road\Drawings\Tables\Underdrain.dwg Plot Date: 10/25/2013 Plotted By: Nimg, John



RECOMMENDED FOR APPROVAL
Jeromy Richardson 10-25-13
 DESIGN ENGINEER DATE

DESIGNED: CCR DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

INDIANA DEPARTMENT OF TRANSPORTATION

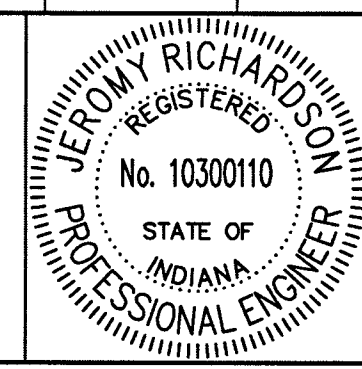
UNDERDRAIN TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	-
VERTICAL SCALE	DESIGNATION
N/A	0710399
SURVEY BOOK	SHEETS
-	132 of 162
CONTRACT	PROJECT
R-32258	0710399

UNDERDRAIN TABLE

UNDERDRAIN PIPE								OUTLET PIPE										OUTLET PROTECTORS				REMARKS			
TYPE 4 PIPE		AGGREGATE FOR UNDERDRAINS	GEOTEXTILES FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOWLINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT TO STRUCTURE NO.	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED	Y-CONNECTORS REQUIRED	6 in. OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	DITCH FLOW LINE ELEVATION @ OUTLET	CONNECT OUTLET PIPE TO STR. NO.	STRUCTURE BACKFILL, TYPE I	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO.	OUTLET PROTECTOR TYPE	LOCATION				
4 in. ft	6 in. ft																				cyd		sys	ton	%
Line "A" NB Outside (Cont.)																									
						814.44	Y			2		24.0	412+00.0	814.37	807.8		1.2	0.7	OP-85	1				X	
	400.0		24.0	344.0	28.0	820.02																			
						820.02	Y			2		24.0	416+00.0	819.95	807.82		1.2	0.7	OP-86	1				X	
	400.0		24.0	344.0	28.0	824.28																			
						824.28	Y			2		24.0	420+00.0	824.21	823.99		1.2	0.7	OP-87	3				X	
	400.0		24.0	344.0	28.0	823.53	Y			2		24.0	424+00.0	823.46	823.03		1.2	0.7	OP-88	3				X	
						823.53																			
	400.0		24.0	344.0	28.0	817.61	Y			2		24.0	428+00.0	817.54	815.55		1.2	0.7	OP-89	3				X	
						817.61																			
	400.0		24.0	344.0	28.0	810.32	Y			2		24.0	432+00.0	810.25	807.77		1.2	0.7	OP-90	3				X	
						810.32																			
	400.0		24.0	344.0	28.0	803.08	Y			2		24.0	436+00.0	803.01	800.27		1.2	0.7	OP-91	3				X	
						803.08																			
	400.0		24.0	344.0	28.0	796.18	Y			2		24.0	440+00.0	796.11	793.42		1.2	0.7	OP-92	3				X	
						796.18																			
	400.0		24.0	344.0	28.0	794.04	Y			2		24.0	444+00.0	793.97	788.5		1.2	0.7	OP-93	1				X	
						794.04																			
	400.0		24.0	344.0	28.0	792.96	Y			2		24.0	448+00.0	792.89	788.56		1.2	0.7	OP-94	1				X	
						792.96																			
	400.0		24.0	344.0	28.0	-0.20%	792.16	Y		2		24.0	452+00.0	792.09	787.75		1.2	0.7	OP-95	1				X	
						792.06	Y			2		24.0	452+00.0	791.99	787.75		1.2	0.7	OP-95	1				X	
	400.0		24.0	344.0	28.0	0.20%	792.86																		
						792.86	Y			2		24.0	456+00.0	792.79	787.21		1.2	0.7	OP-96	1				X	
	400.0		24.0	344.0	28.0	794.14																			
						794.14	Y			2		24.0	460+00.0	794.07	791.4		1.2	0.7	OP-97	2				X	
	400.0		24.0	344.0	28.0	795.06																			
						795.06																			
	400.0		24.0	344.0	28.0	-0.20%	794.22	Y		2		24.0	468+00.0	794.15	790.21		1.2	0.7	OP-98	2				X	
						794.22																			
	400.0		24.0	344.0	28.0	793.29	Y			2		24.0	472+00.0	793.22	792.68		1.2	0.7	OP-99	3				X	
						793.29																			
	400.0		24.0	344.0	28.0	792.20	Y			2		24.0	476+00.0	792.13	790.35		1.2	0.7	OP-100	3				X	
						792.20																			
	400.0		24.0	344.0	28.0	-0.20%	791.40	Y		2		24.0	480+00.0	791.33	789.56		1.2	0.7	OP-101	3				X	
						790.93	Y			2		24.0	480+00.0	790.86	789.56		1.2	0.7	OP-101	3				X	
	400.0		24.0	344.0	28.0	0.20%	791.73																		
						791.73																			
	7200.0		432.0	6192.0	504.0							456.0						22.8	13.3						

File Name: \\ussfms\road\roadham3\CD\12-4pc-02\Road\Draw\Plans\Table Underdrain.dwg Plot Date: 10/25/2013 Plotted By: Nmz, John



RECOMMENDED FOR APPROVAL
Jeremy Richardson 10-25-13
 DESIGN ENGINEER DATE

DESIGNED: CCR DRAWN: JNII
 CHECKED: WRC CHECKED: WRC

INDIANA
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN
TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE -
VERTICAL SCALE N/A	DESIGNATION 0710399
SURVEY BOOK -	SHEETS 134 of 162
CONTRACT R-32258	PROJECT 0710399

