

PROJECT	DESIGNATION
NH 219-2 (034)	0101486
CONTRACT	BRIDGE FILE
R-30247	N/A

INDIANA
DEPARTMENT OF TRANSPORTATION

R/W CODE: 4989

TRAFFIC DATA		U.S. 33	
A.A.D.T.	2004	12,160	V.P.D.
A.A.D.T.	2029	15,590	V.P.D.
D.H.V.	2029	1,220	V.P.H.
DIRECTIONAL DISTRIBUTION		50	%
TRUCKS		16	% D.H.V.
MAINLINE ESAL's		-	
DESIGN DATA			
DESIGN SPEED	40		M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)		
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL		
RURAL/URBAN	URBAN (INTERMEDIATE)		
TERRAIN	LEVEL		
ACCESS CONTROL	NONE		

RIGHT -OF- WAY PLANS

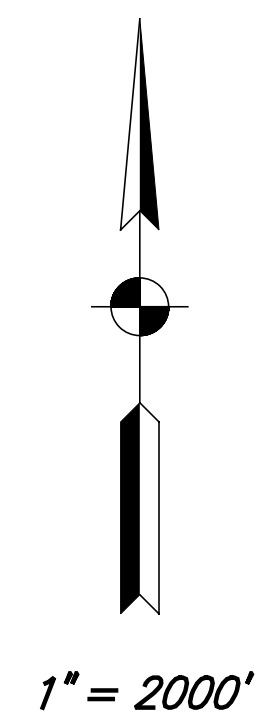
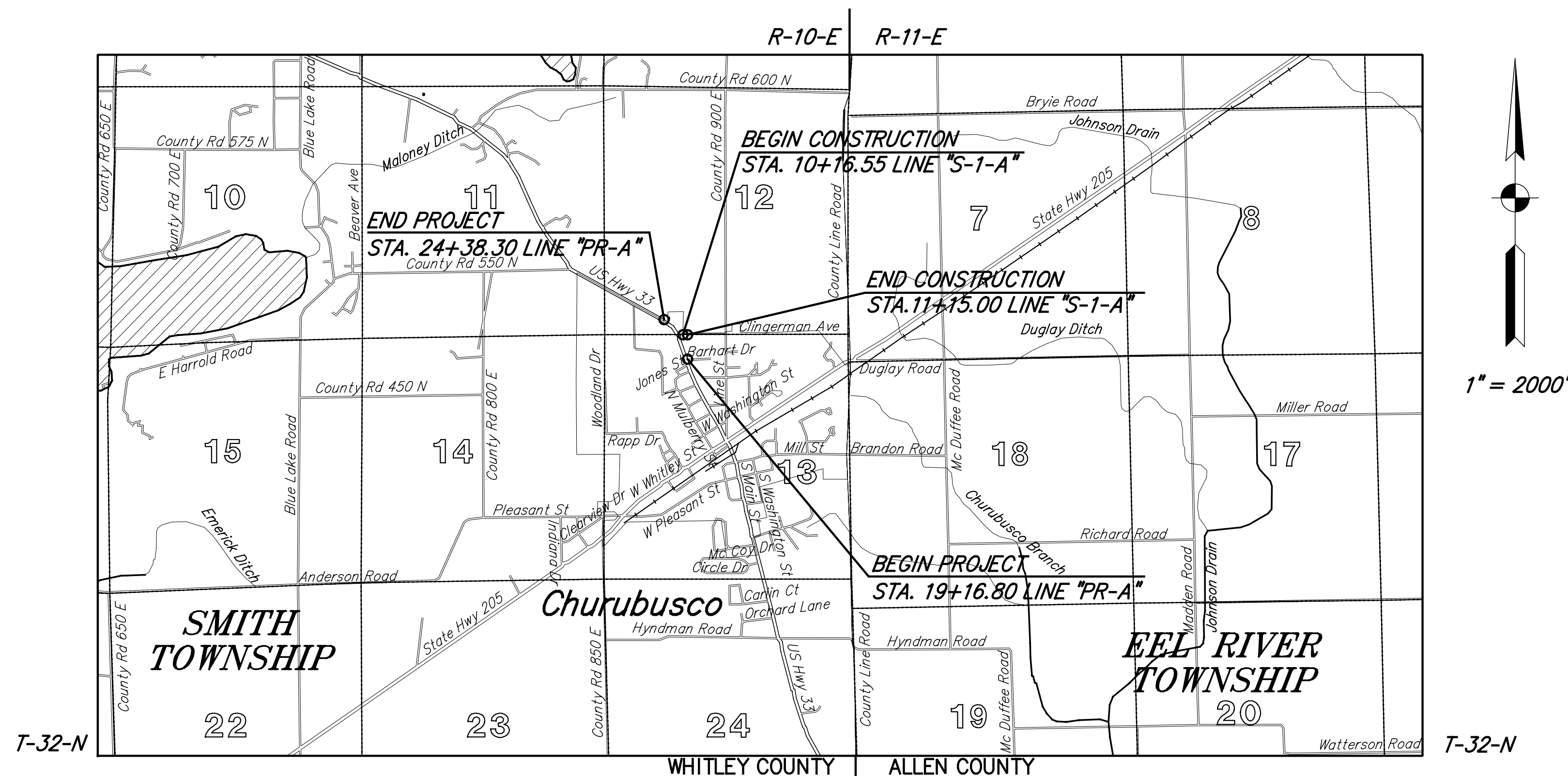
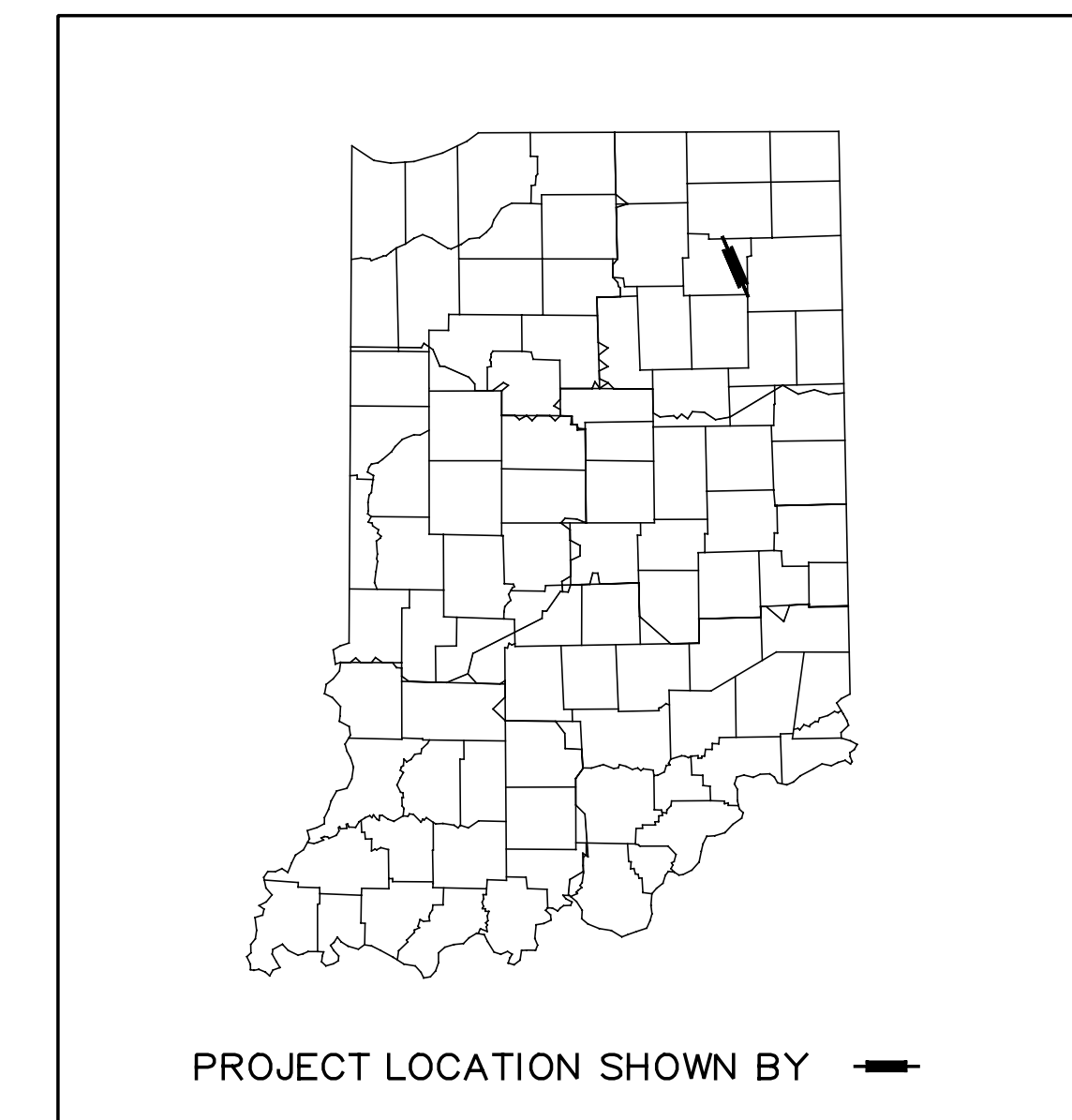
PROJECT NAME

PROJECT NO. ~~NH 219-2 (034)~~ ~~P.E.~~
PROJECT NO. NH 219-2 (034) R/W
PROJECT NO. ~~NH 219-2 (034)~~ ~~CONST.~~

CURVE CORRECTION OF U.S. 33 AT CLINGERMAN AV. (R.P. 47+08) BEGINNING AT A POINT 160 FT. SOUTH OF THE INTERSECTION WITH CLINGERMAN AV. IN THE N/W 1/4 SEC. 13, T-32-N, R-10-E. EXTENDING IN A NORTH WESTERLY DIRECTION FOR A DISTANCE OF 521 FT. TO A POINT 350 FT. NORTH OF CLINGERMAN AV. IN THE S/W 1/4 SEC. 12, T-32-N, R-10-E.

GROSS LENGTH: 0.099 MI.
NET LENGTH: 0.099 MI.

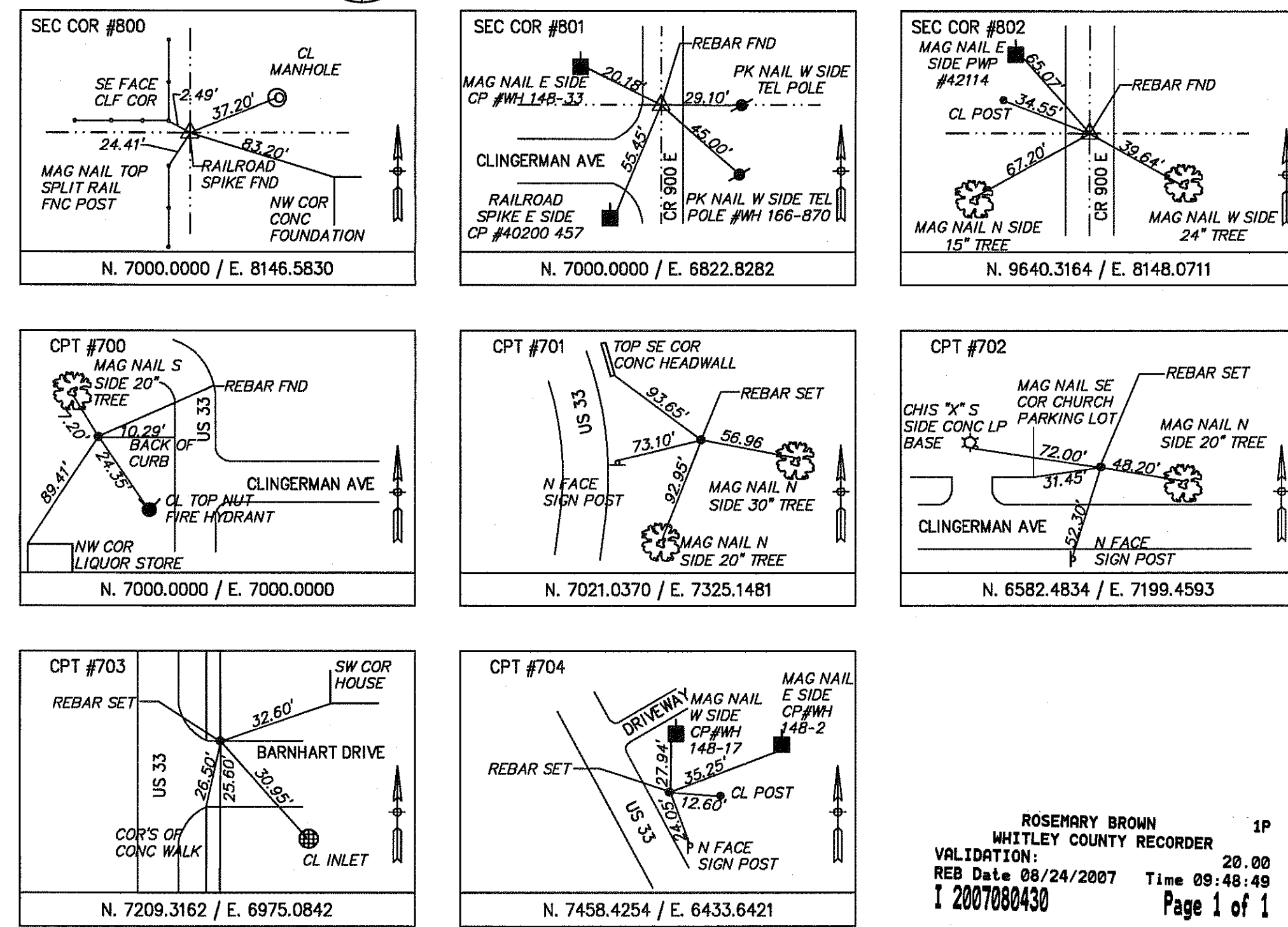
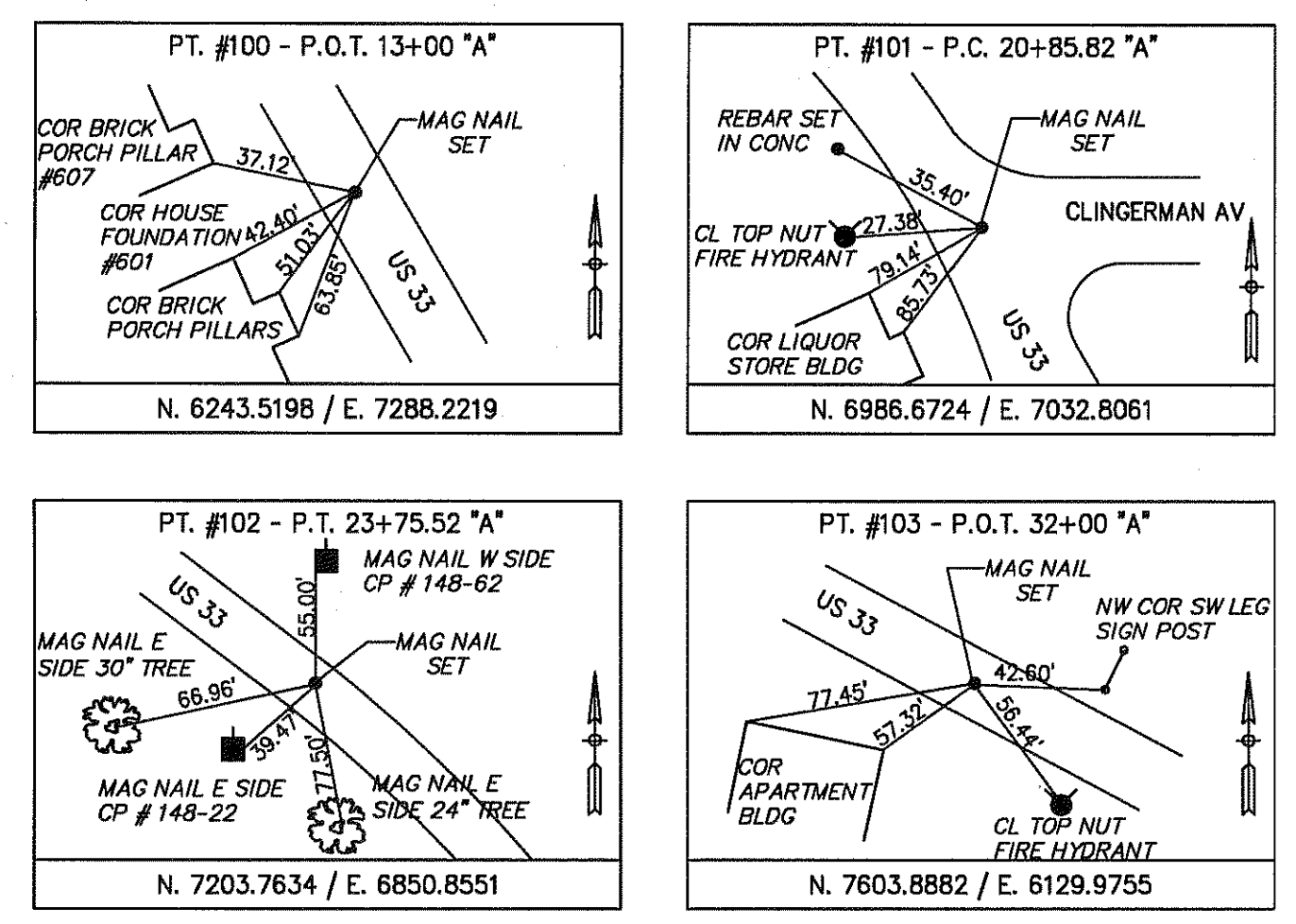
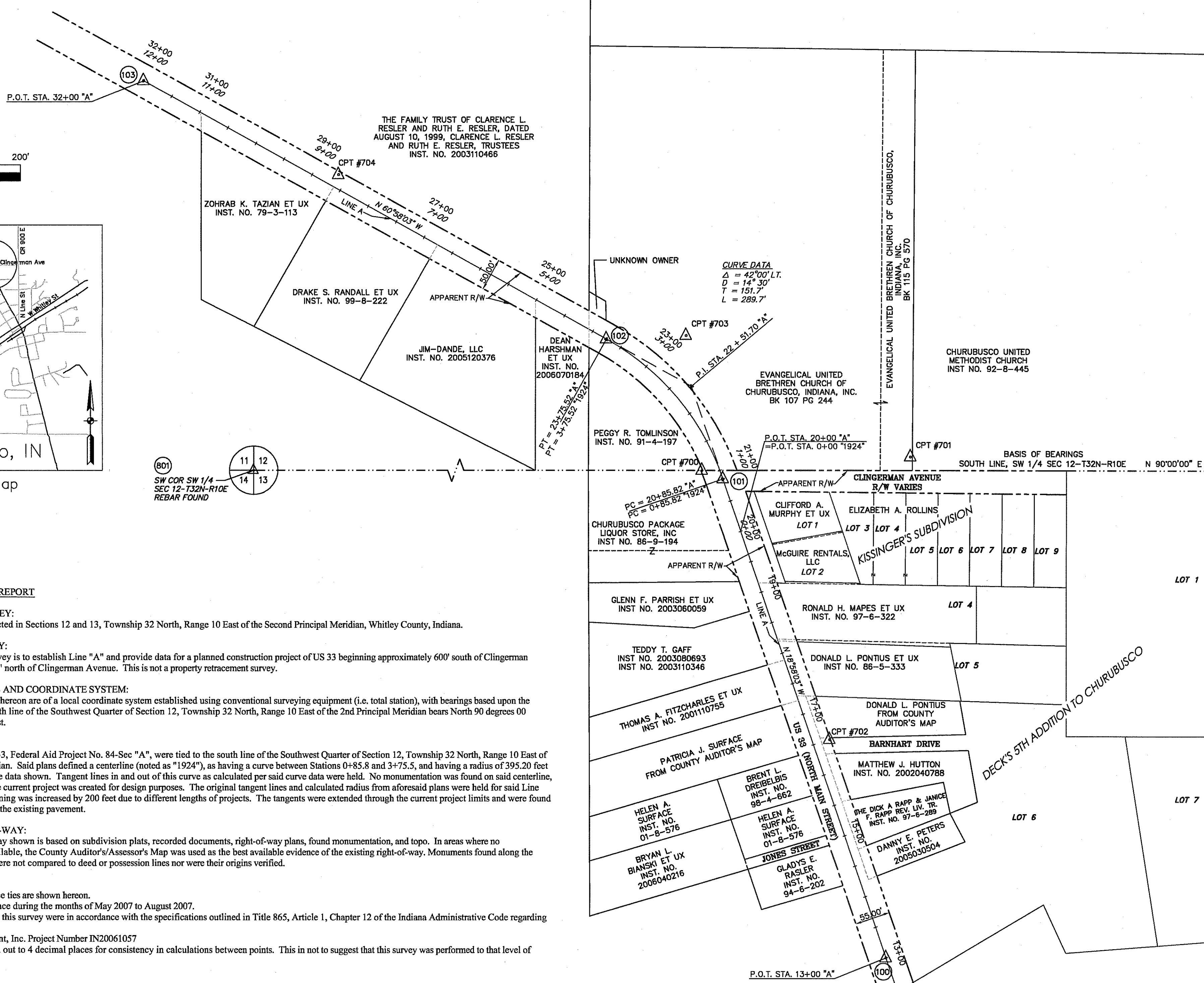
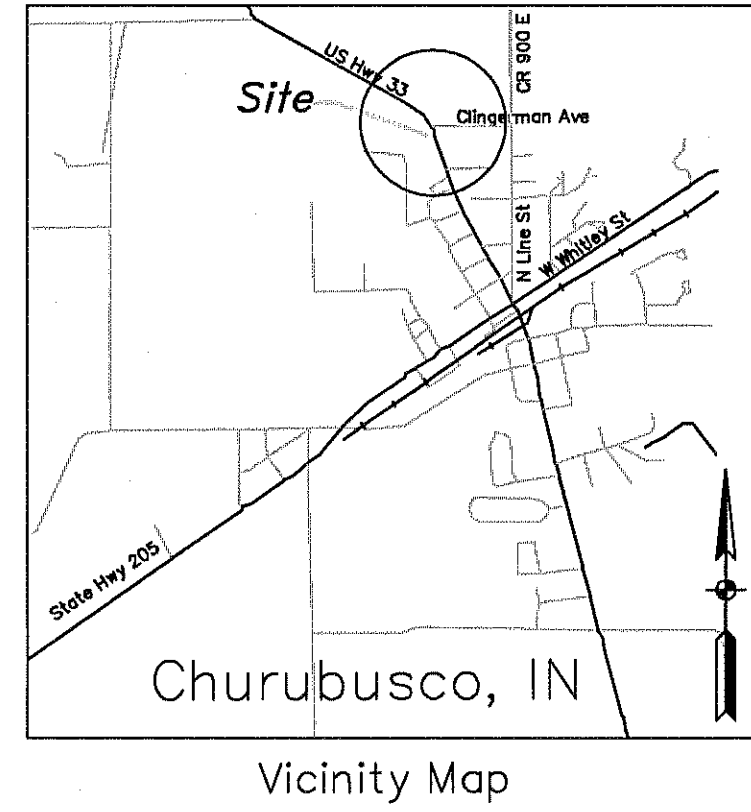
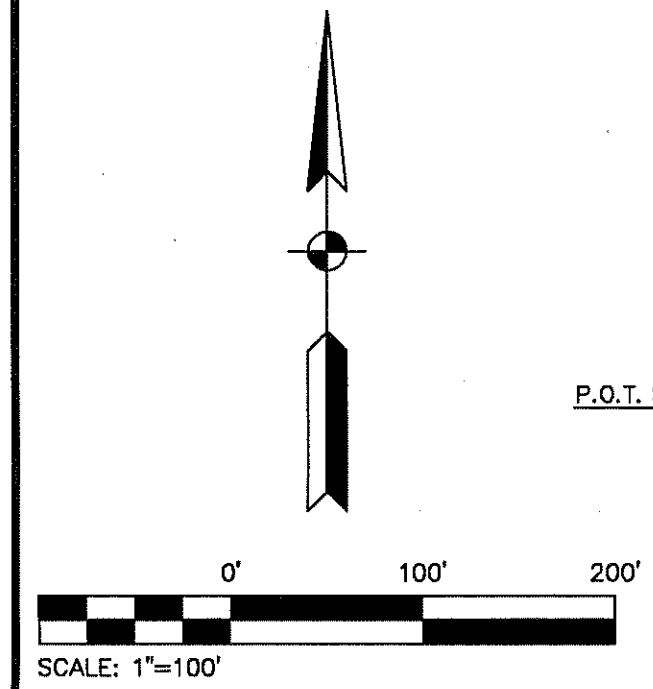
SCALES:
 PLAN { LONG: 1" = 20'
 TRANS: 1" = 20'
 PROFILE { LONG: 1" = 5'
 TRANS: 1" = 20'
 MAX. GRADE: 0.84%



INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2006
TO BE USED WITH THESE PLANS

AMERICAN STRUCTUREPOINT INC.
 7260 SHADELAND STATION
 INDIANAPOLIS, IN 46256-3957
 TEL 317.547.5580 FAX 317.543.0270
 www.structurepoint.com

APPROVED: _____	CHIEF, DIVISION OF LAND ACQUISITION	DATE _____	BRIDGE FILE N/A DESIGNATION NO. 0101486 SHEETS 1 of 11 PROJECT NO. NH 219-2 (034)
RECOMMENDED FOR APPROVAL: _____	MANAGER, R/W ENGINEERING SECTION	DATE _____	
CONTRACT R-30247		DESIGNATION NO. 0101486	



FIELD SURVEYOR'S REPORT

LOCATION OF SURVEY:
This survey was conducted in Sections 12 and 13, Township 32 North, Range 10 East of the Second Principal Meridian, Whitley County, Indiana.

PURPOSE OF SURVEY:
The purpose of this survey is to establish Line "A" and provide data for a planned construction project of US 33 beginning approximately 600' south of Clingerman Avenue and ending 750' north of Clingerman Avenue. This is not a property retracement survey.

BASIS OF BEARINGS AND COORDINATE SYSTEM:
The coordinates shown hereon are of a local coordinate system established using conventional surveying equipment (i.e. total station), with bearings based upon the assumption that the south line of the Southwest Quarter of Section 12, Township 32 North, Range 10 East of the 2nd Principal Meridian bears North 90 degrees 00 minutes 00 seconds East.

US 33 ALIGNMENT:
The road plans for US 33, Federal Aid Project No. 84-Sec "A", were tied to the south line of the Southwest Quarter of Section 12, Township 32 North, Range 10 East of the 2nd Principal Meridian. Said plans defined a centerline (noted as "1924"), as having a curve between Stations 0+85.8 and 3+75.5, and having a radius of 395.20 feet as calculated from curve data shown. Tangent lines in and out of this curve as calculated per said curve data were held. No monumentation was found on said centerline, therefore Line "A" of the current project was created for design purposes. The original tangent lines and calculated radius from aforesaid plans were held for said Line "A", however, the stationing was increased by 200 feet due to different lengths of projects. The tangents were extended through the current project limits and were found to be in agreement with the existing pavement.

EXISTING RIGHT-OF-WAY:
The existing right-of-way shown is based on subdivision plats, recorded documents, right-of-way plans, found monumentation, and topo. In areas where no documentation was available, the County Auditor's/Assessor's Map was used as the best available evidence of the existing right-of-way. Monuments found along the existing right-of-way were not compared to deed or possession lines nor were their origins verified.

GENERAL:
-All monument reference ties are shown hereon.
-The field work took place during the months of May 2007 to August 2007.
-Field measurements for this survey were in accordance with the specifications outlined in Title 865, Article 1, Chapter 12 of the Indiana Administrative Code regarding route surveys.
-American Structurepoint, Inc. Project Number IN20061057
-Coordinates are carried out to 4 decimal places for consistency in calculations between points. This is not to suggest that this survey was performed to that level of accuracy.

CONTROL MONUMENTS:
The uncertainty of the monumentation set during this survey is estimated to be +/-0.10 foot.

REFERENCE MONUMENTS AND POSSESSION LINES:
In accordance with Title 865, Article 1, Chapter 12 of the Indiana Administrative Code ("Rule 12"), the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established during this survey as a result of uncertainties in reference monumentation and occupation or possession lines.

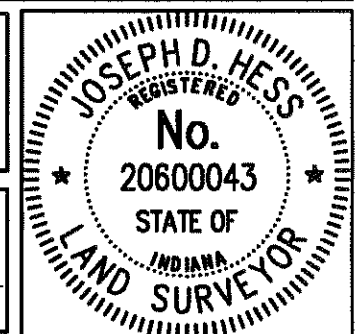
A) The reference monuments for this survey are located in Sections 12 & 13, Township 32 North, Range 10 East of the Second Principal Meridian, Whitley County, Indiana and have been located using reference ties from the Whitley County Surveyor's Office. Their horizontal positions are based on field observations taken during this route survey.

B) Occupation and possession lines are not shown on this survey and were not inspected or compared to found monumentation.

I, Joseph D. Hess, affirm, under the penalties for perjury, that I have taken reasonable care to redact each social security number in this document, unless required by law.

AMERICAN
STRUCTUREPOINT
INC
7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

FIELD SURVEYOR STATEMENT
THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 I.A.C. 1-12-20 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF ANY NEW PARCELS TO BE ACQUIRED OR THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.
RECOMMENDED FOR APPROVAL
Joseph D. Hess 8-21-07
REGISTERED LAND SURVEYOR, FIELD DATE

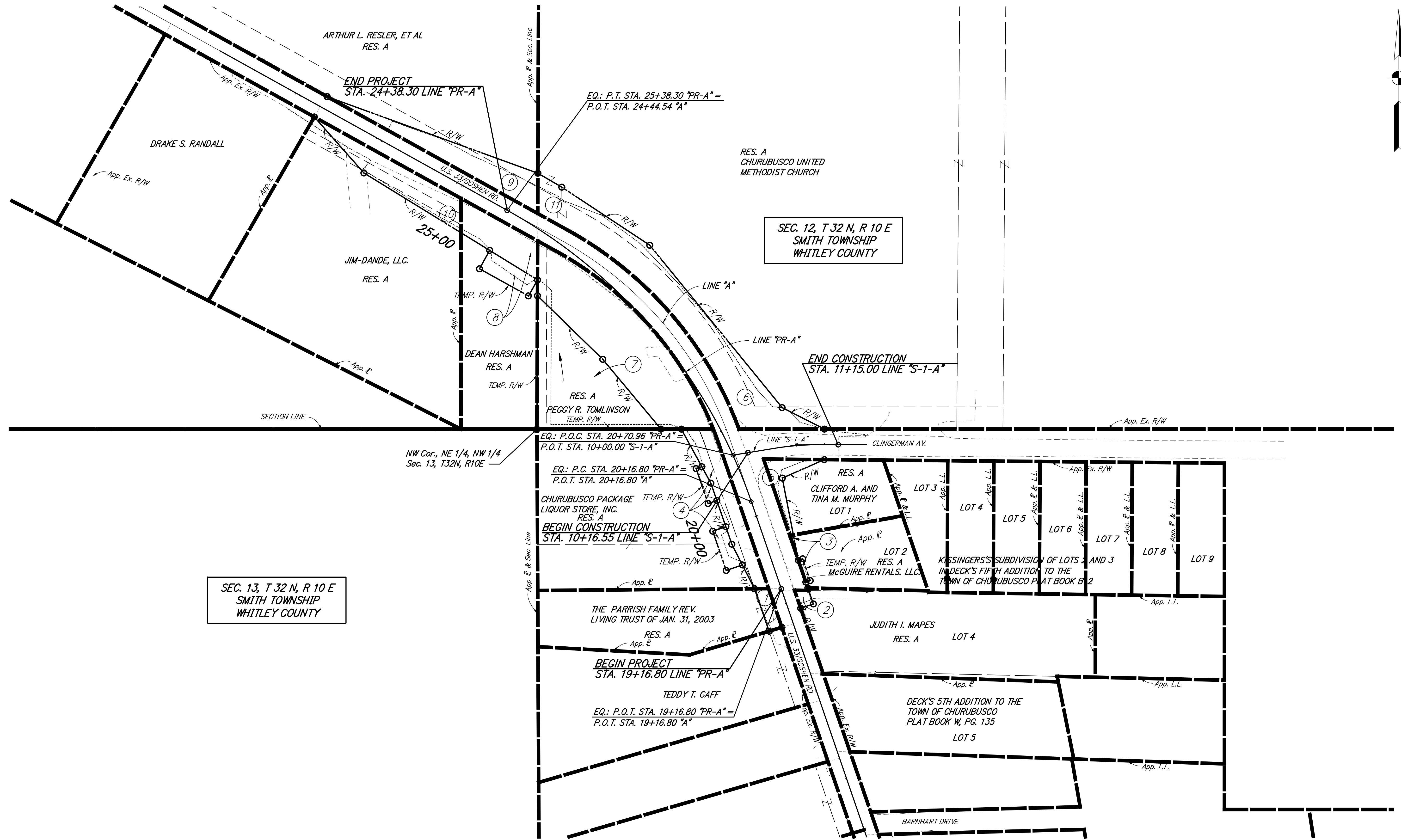
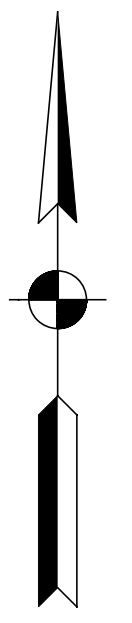


INDIANA DEPARTMENT OF TRANSPORTATION
LOCATION CONTROL ROUTE SURVEY PLAT

SURVEY STARTED	STRUCTURE NO.	DES. NO.	ROUTE PLAT SHEETS
05.23.07		0101486	1 OF 1
SURVEY COMPLETED	PROJECT NO.	YEAR	SHEET TOTAL
08.17.07	2192034		3 11

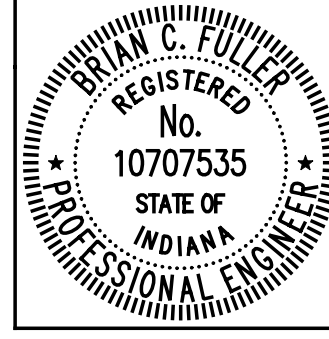
ROSEMARY BROWN
WHITLEY COUNTY RECORDER
VALIDATION:
REB Date 08/24/2007 Time 09:48:49
I 2007080430 Page 1 of 1

PRINT DATE: 08/21/07 11:32:46 EDITED BY: -SE2D DWG FILE: P:\WORK\0074\0074.DWG PLOT SCALE: 1"=100'



SEC. 13, T 32 N, R 10 E
SMITH TOWNSHIP
WHITLEY COUNTY

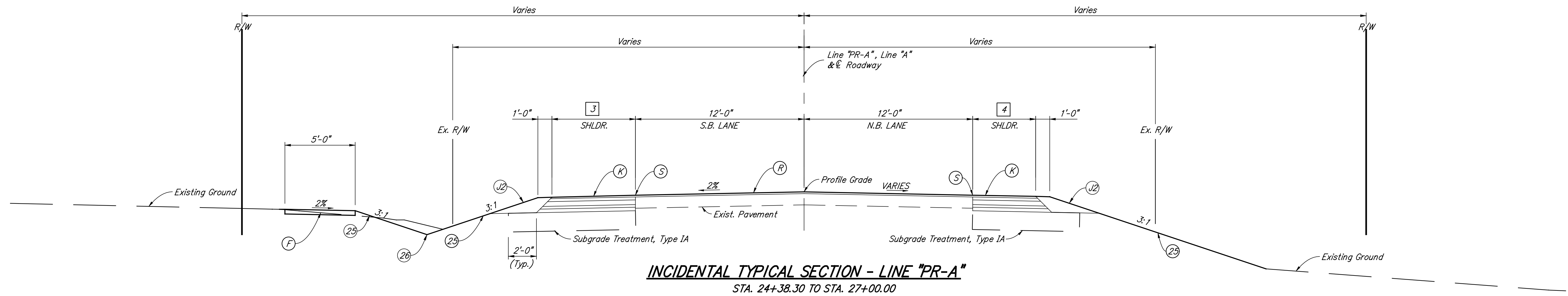
SEC. 12, T 32 N, R 10 E
SMITH TOWNSHIP
WHITLEY COUNTY



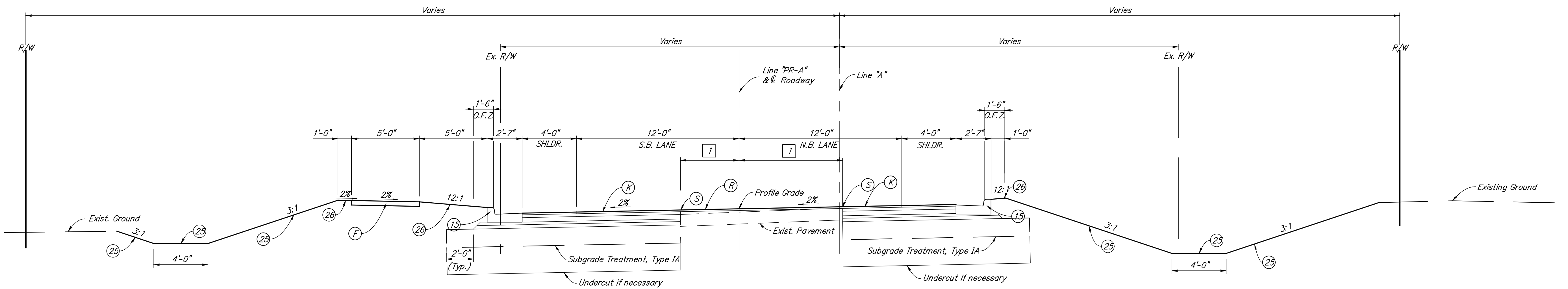
RECOMMENDED FOR APPROVAL: *Brian C. Fuller*
DESIGN ENGINEER DATE: _____
DESIGNED: BCF DRAWN: BCF
CHECKED: CMP CHECKED: CMP

INDIANA DEPARTMENT OF TRANSPORTATION
PLAT NO. 1

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 50'	DESIGNATION NO. 0101486
SURVEY BOOK	SHEETS
CONTRACT R-30247	4 of 11 PROJECT NO. NH 219-2 (034)

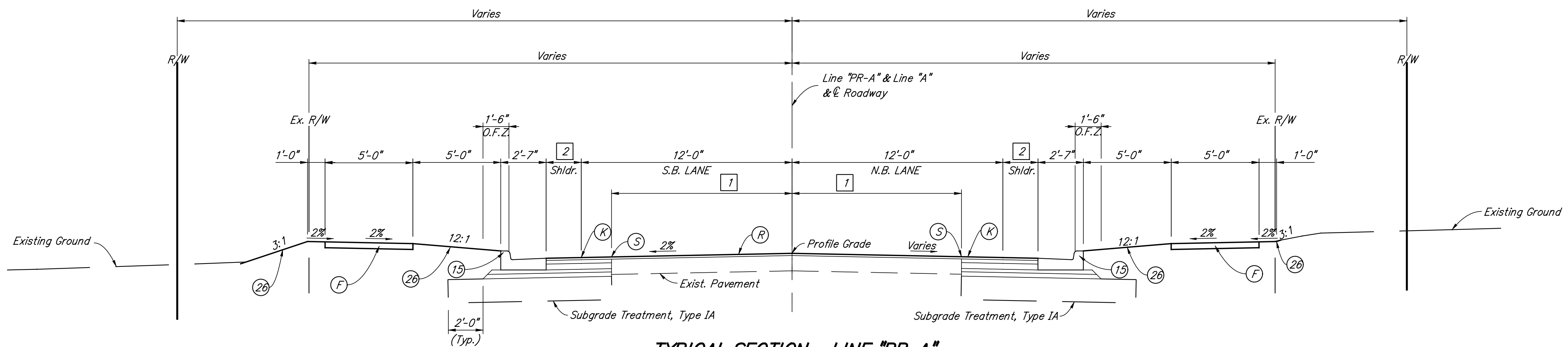


INCIDENTAL TYPICAL SECTION - LINE "PR-A"
STA. 24+38.30 TO STA. 27+00.00



SUPERELEVATED TYPICAL SECTION - LINE "PR-A"
STA. 20+27.00 TO STA. 24+38.30

Note: If unsuitable soil is encountered between Sta. 23+00 to Sta. 24+40 then a 2' undercut of #53's is required.

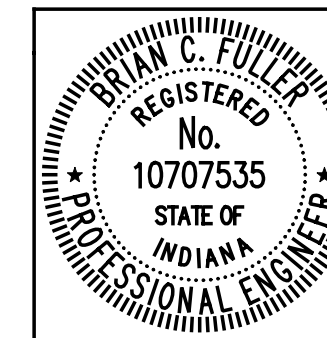


TYPICAL SECTION - LINE "PR-A"
STA. 19+16.80 TO STA. 20+27.00

- 1 Varies, Sawcut along inside of existing curbline
- 2 Varies from 0'-0" at Sta. 19+16.80 to 4'-0" at Sta. 20+16.80 "PR-A"
- 3 Varies from 12'-0" at Sta. 24+38.30 to 6'-11" at Sta. 25+28.30 "PR-A" From Sta. 25+28.30 to Sta. 27+00.00 Mill and Resurface
- 4 Varies from 6'-6" at Sta. 24+38.30 to 2'-4" at Sta. 26+00.00 "PR-A" From Sta. 26+00.00 to Sta. 27+00.00 Mill and Resurface

- F Sidewalk, Concrete, 4"
- J2 Variable-Depth Compacted Aggregate No. 73 (for Shoulder)
- K 165 #/Syd. HMA, Type D, Surface, on 275 #/Syd. HMA, Type D, Intermediate, on 1210 #/Syd. HMA, Type D, Base
- R 165 #/Syd. HMA, Type D, Surface, on Variable Depth HMA, Type D, Intermediate (220 #/Syd. min.) on Milling, Asphalt, 1.5"
- S Sawcut
- 15 Curb and Gutter, Concrete
- 25 Mulched Seeding, U
- 26 Sodding, Nursery

O.F.Z. = Obstruction Free Zone

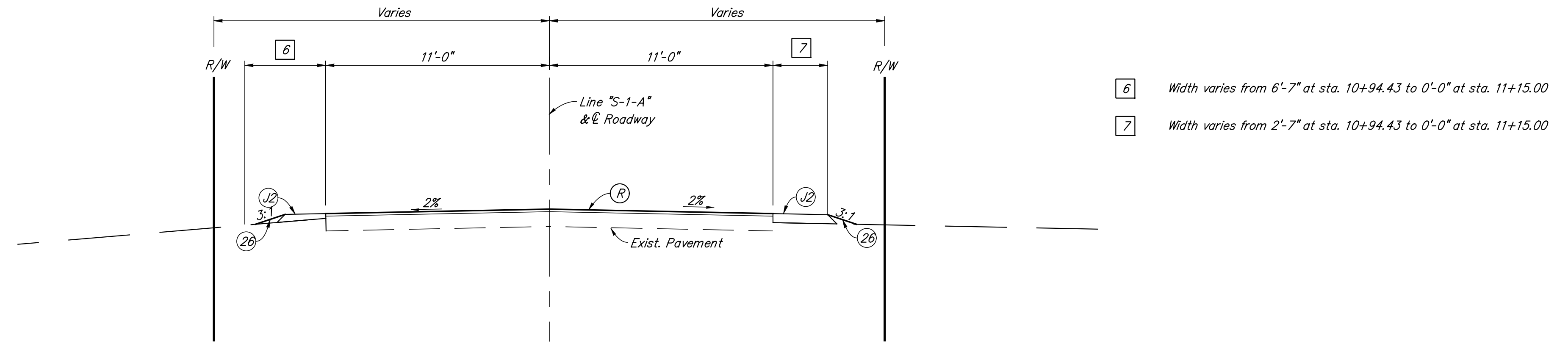


RECOMMENDED FOR APPROVAL *Brian C. Fuller*
DESIGN ENGINEER DATE

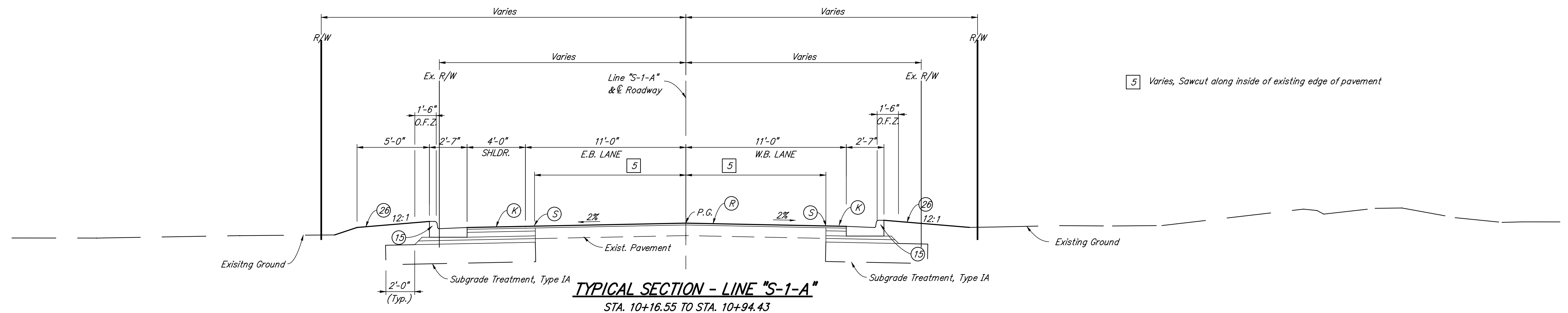
DESIGNED: BCF DRAWN: NDH
CHECKED: CMP CHECKED: BCF

INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTION LINE "PR-A"

HORIZONTAL SCALE 1" = 4'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 4'	DESIGNATION NO. 0101486
SURVEY BOOK	SHEETS
	5 of 11
CONTRACT R-30247	PROJECT NO. NH 219-2 (034)



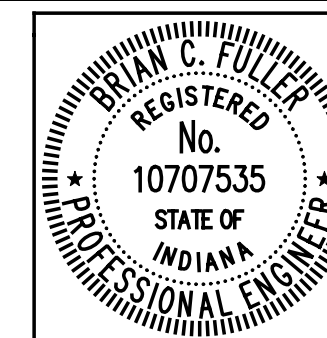
TYPICAL SECTION - LINE "S-1-A"
STA. 10+94.43 TO STA. 11+15.00



TYPICAL SECTION - LINE "S-1-A"
STA. 10+16.55 TO STA. 10+94.43

- (F) Sidewalk, Concrete, 4"
- (J2) Variable-Depth Compacted Aggregate No. 73 (for Shoulder)
- (K) 165 #/Syd. HMA, Type D, Surface, on 275 #/Syd. HMA, Type D, Intermediate, on 1210 #/Syd. HMA, Type D, Base
- (R) 165 #/Syd. HMA, Type D, Surface, on Variable Depth HMA, Type D, Intermediate (220 #/Syd. min.) on Milling, Asphalt, 1.5"
- (S) Sawcut
- (15) Curb and Gutter, Concrete
- (25) Mulched Seeding, U
- (26) Sodding, Nursery

O.F.Z. = Obstruction Free Zone



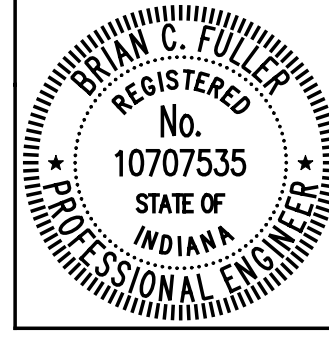
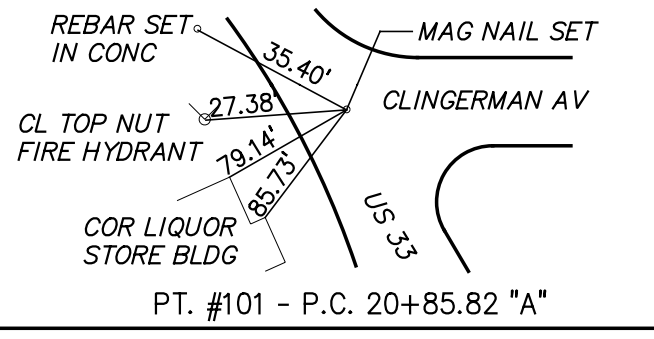
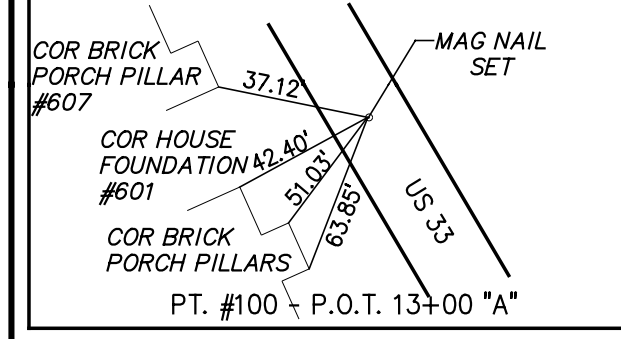
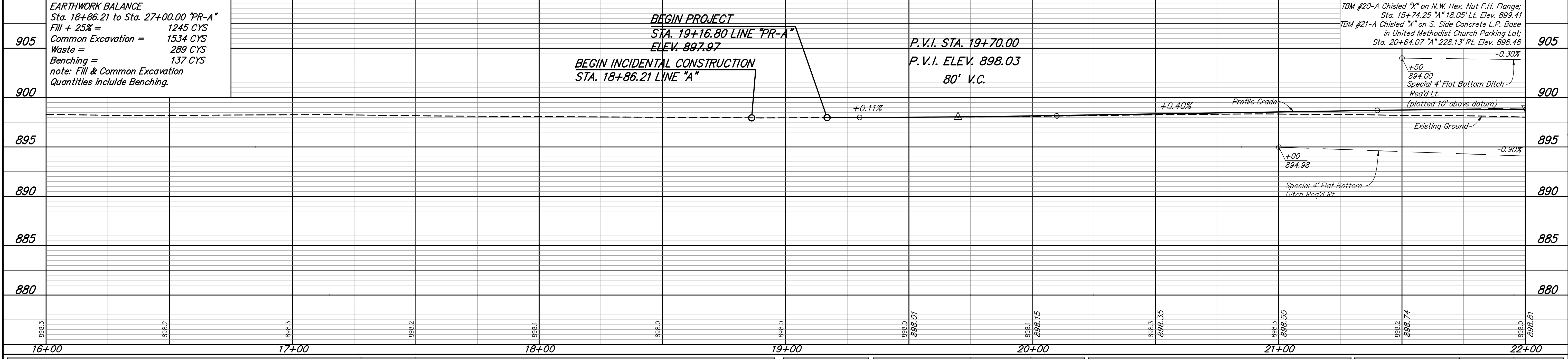
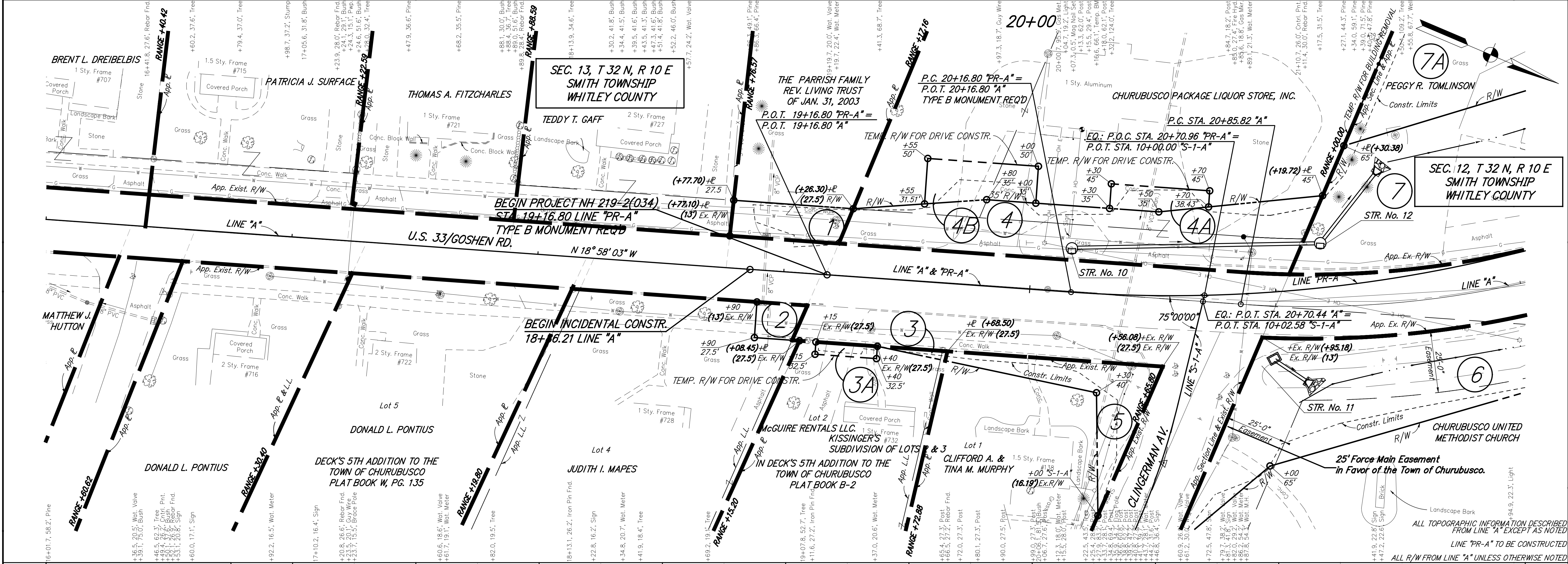
RECOMMENDED FOR APPROVAL *Brian C. Fuller*
DESIGN ENGINEER DATE

DESIGNED: BCF DRAWN: NDH
CHECKED: CMP CHECKED: BCF

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION
LINE "S-1-A"

HORIZONTAL SCALE 1" = 4'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 4'	DESIGNATION NO. 0101486
SURVEY BOOK	SHEETS
CONTRACT R-30247	6 of 11 PROJECT NO. NH 219-2 (034)

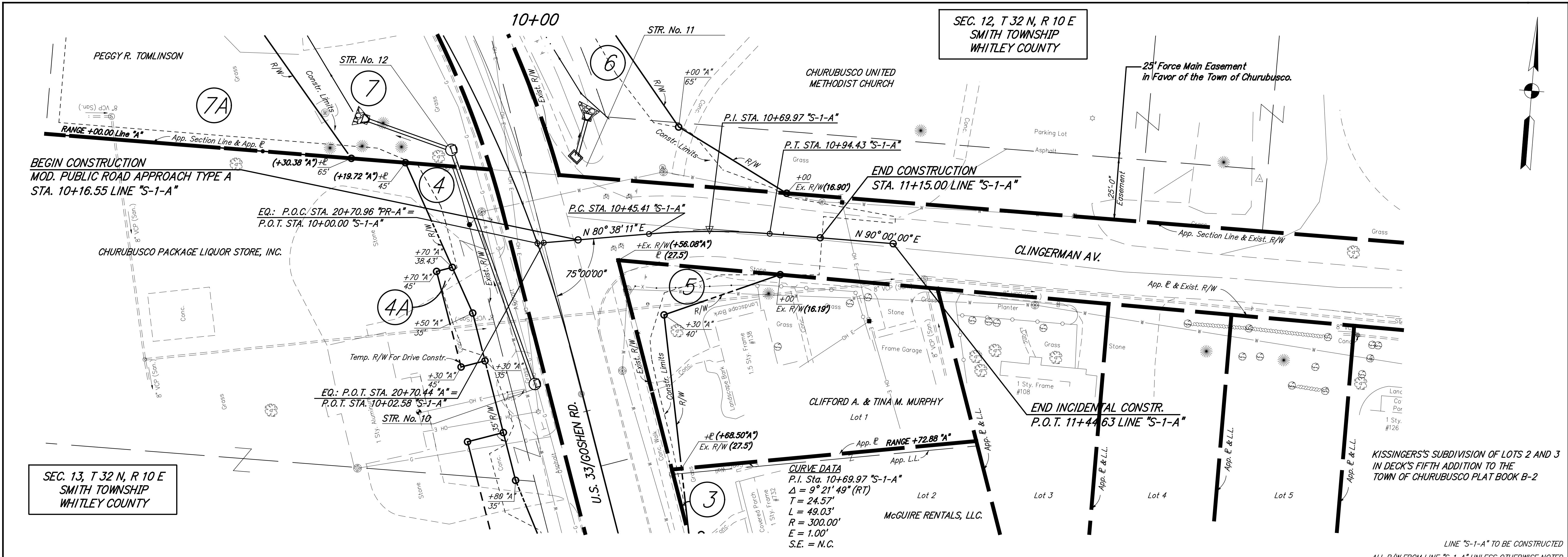


RECOMMENDED FOR APPROVAL	<i>Brian C. Fuller</i>	DATE
DESIGNED:	BCF	DRAWN:
CHECKED:	CMP	CHECKED:
		CMP

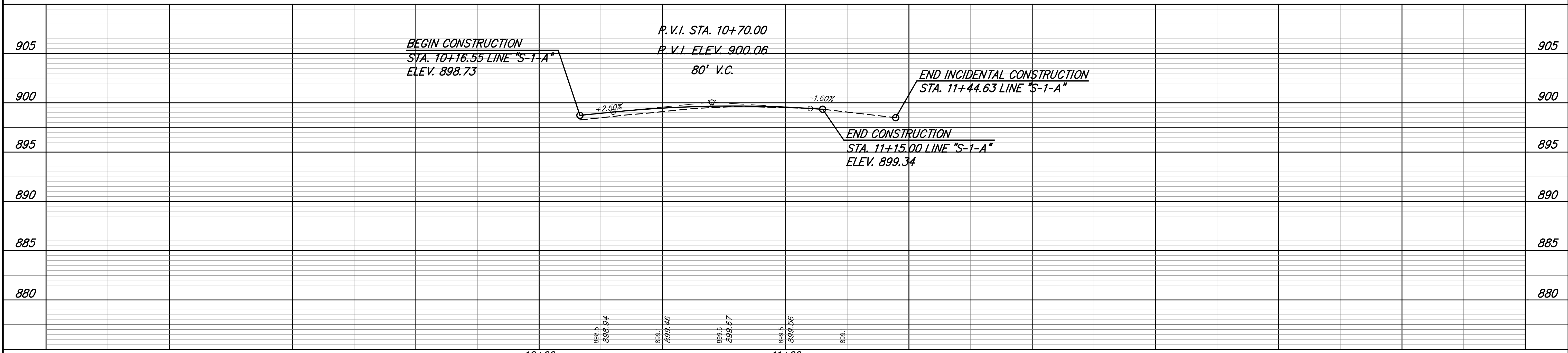
**INDIANA
DEPARTMENT OF TRANSPORTATION**

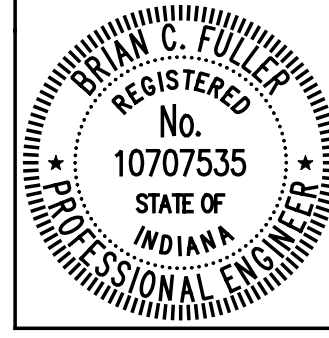
**PLAN & PROFILE
LINE "PR-A"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION NO.
1" = 5'	0101486
SURVEY BOOK	SHEETS
CONTRACT	7 of 11
R-30247	PROJECT NO.
	NH 219-2 (034)



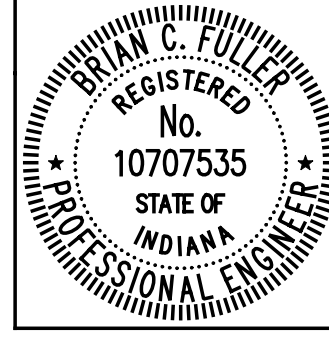
LINE "S-1-A" TO BE CONSTRUCTED
ALL R/W FROM LINE "S-1-A" UNLESS OTHERWISE NOTED



	RECOMMENDED FOR APPROVAL: <i>Brian C. Fuller</i> DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 20'		BRIDGE FILE N/A	
	DESIGNED: BCF DRAWN: BCF CHECKED: CMP CHECKED: CMP				SURVEY BOOK CONTRACT R-30247		DESIGNATION NO. 0101486	
PLAN & PROFILE LINE "S-1-A"					PROJECT NO. NH 219-2 (034)			

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH "W" ft.	LENGTH "L" ft.	DISTANCE BEYOND R/W LINE ft.	RADII "R" ft.	GRADE (LESS THAN 10% NOT SHOWN)		EXCAVATION		HMA FOR APPROACHES #/SYS.	HMA MATERIAL FOR ROADS				HMA MATERIAL FOR ROADS			ASPHALT FOR			COMPACTED AGGREGATE FOR BASE NO. 53			SUBGRADE TREATMENT TYPE III-A		SUBBASE	CEMENT CONC. PAVEMENT FOR DRIVES	PCCP FOR APPROACHES	PCCP FOR APPROACHES	SURFACE BEYOND R/W LINE			REMARKS			
						1	2	CUT	FILL		WEDGE & LEVEL	FOR STR.	SEAL COAT	PRIME COAT	TACK COAT	in.	in.	in.	6 in.	in.	in.	in.	6 in.	9 in.	COMP. AGG. No. 75					ASPHALT	CONCRETE					
						%	%				TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SYS.	SYS.	TONS	TONS	TONS	SFT.	SFT.					CYS.	SFT.	SFT.		SFT.	TON	SFT.
LINE "PR-A"	MAINLINE										221	104	728		37	8																				
LINE "S-1-A"	MAINLINE										39	14																								
19+02.43	MOD. CLASS I	13	13		5																														modified for radius	
19+24.42	MOD. CLASS I	11	13	0.5	10																														modified for radius	
19+81.00	MOD. CLASS III	Varies	25	7	10/20																														modified for width	
20+52.00	MOD. CLASS III	Varies	23	7.6	10/20																														modified for width	
23+98.00	MOD. CLASS III	27	37	8.2	10/20																													modified for absent curb		
TOTAL:											260	118	728		37	8																				



RECOMMENDED FOR APPROVAL *Brian C. Fuller*
DESIGN ENGINEER DATE _____
DESIGNED: BCF DRAWN: BCF
CHECKED: CMP CHECKED: CMP

INDIANA DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES AND APPROACH TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION NO. 0101486
SURVEY BOOK	SHEETS 10 of 11
CONTRACT R-30247	PROJECT NO. NH 219-2 (034)

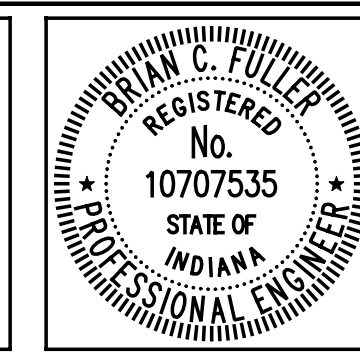
MONUMENT TABLE					
LOCATION	TYPE				SECTION CORNER
	A	B	C	D	
PR-A					
P.O.T. 19+16.80		X			
P.C. 20+16.80		X			
P.I. 22+37.52			X		
P.T. 24+38.30		X			

PAVED SIDE DITCH & SODDING SUMMARY TABLE																											
FROM STATION	TO STATION	LOCATION		PAVED SIDE DITCH										SODDING						SEE SHEET NO.							
		LEFT	RIGHT	ACTUAL LENGTH	CUT-OFF WALLS (8' R EQUIV LENGTH EA)	LUGS (8' R EQUIV LENGTH EA)	TOTAL EQUIVALENT PAY LENGTHS										FOR UTILITY STRIP	FOR DITCHES OUTSIDE OF SIDEWALK	FOR SHOULDER		FOR LAWN						
							FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT						FT	FT	FT	FT	FT	FT
PR-A																											
19+16.51	20+97.90	X																			227						
19+16.51	20+97.90		X																		247						
18+86.94	25+95.25	X	X																					178			
24+50.00	25+00.00	X																						18			

MAILBOX APPROACHES						
LT/RT	LOCATION		DESCRIPTION	WIDTH (FT)	MAILBOX ASSEMBLY REQUIRED	
	BOX STATION				SINGLE	DOUBLE
	LINE "PR-A"					
LT	24+31.10		CURB & GUTTER, MAILBOX BEFORE DRIVE			X

RIGHT - OF - WAY MARKER TABLE			
STATION	OFFSET (FT.)	LEFT	RIGHT
PR-A			
19+26.30	27.50	X	
20+52.11	33.98	X	
21+23.26	37.10	X	
21+35.29	56.12	X	
22+45.11	62.35	X	
23+55.83	59.74	X	
23+67.06	45.95	X	
25+93.76	40.00	X	
26+70.42	25.00	X	
19+40.00	27.50		X
20+29.14	40.14		X
20+31.76	89.91		X
20+58.10	102.18		X
20+93.23	70.40		X
22+98.01	60.72		X
24+29.46	51.36		X
25+93.76	25.00		X

SHEET SIGN & POST SUMMARY													
SIGN				POST						REMARKS			
PLAN SHEET NO. / LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (in. x in.)	ENCAPSULATED LENS METAL THICKNESS (in.)			SQUARE, QUIK - PUNCH						
				0.080 SFT.	0.100 SFT.	0.125 SFT.	UNREINFORCED POST LENGTH (FT.)			REINFORCED POST LENGTH (FT.)			
							1	2	TOTAL	1	2	TOTAL	
PR-A													
20+35.00	35' Rt.	Ex. D3-1									7.5	7.5	REMOVE AND RESET EXISTING SHEET SIGN AND SUPPORTS
20+40.00	65' Rt.	Ex. R5-2									9.5	9.5	REMOVE AND RESET EXISTING SHEET SIGN AND SUPPORTS
21+00.00	32' Rt.	Ex. R1-1									10.5	10.5	REMOVE AND RESET EXISTING SHEET SIGN AND SUPPORTS
23+00.00	25' Rt.	W11-Y12	36 x 36		9.00						10.5	10.5	NEW SHEET SIGN AND SUPPORTS "PARK ENTRANCE"



RECOMMENDED FOR APPROVAL *Brian C. Fuller* DESIGN ENGINEER DATE _____

DESIGNED: BCF DRAWN: MJM

CHECKED: MJM CHECKED: BCF

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS QUANTITIES TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION NO. 0101486
SURVEY BOOK	SHEETS 11 of 11
CONTRACT R-30247	PROJECT NO. NH 219-2 (034)