

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HR-2	WINNEBAGO	171	30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

HORIZONTAL & VERTICAL CONTROL

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	2024434.0605	2593160.8705	754.1010	US20	994+71.4264	0.3519' RT	GPS CONTROL POINT, PIN
101	2024379.5327	2590481.8575	747.9480	US20	967+91.8668	6.9909' RT	GPS CONTROL POINT, PIN
102	2024395.1321	2591285.7889	732.5570	US20	975+95.9486	5.762' RT	GPS CONTROL POINT, PIN
103	2024421.4735	2592089.6343	734.6720	US20	984+00.1363	6.2086' LT	GPS CONTROL POINT, PIN
104	2024423.9293	2592893.4081	750.5390	US20	992+03.8257	5.7013' RT	GPS CONTROL POINT, PIN
105	2024442.3582	2593976.9281	758.7460	US20	1002+87.5020	6.6403' RT	GPS CONTROL POINT, PIN
106	2024459.0820	2594792.0083	762.4700	US20	1011+02.7509	4.4865' RT	GPS CONTROL POINT, PIN
115	2024237.3547	2582144.7177	.0000	US20	884+53.5175	0.1424' RT	POT, NAIL
122	2024488.5503	2596169.5415	.0000	US20	1024+80.5907	0.3574' LT	POT, NAIL

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
107	2024713.0286	2592421.1273	741.0740	IL251	255+79.9917	608.4701' LT	GPS CONTROL POINT, PIN
108	2024695.4716	2593033.0901	732.9230	IL251	255+54.5203	3.2144' RT	GPS CONTROL POINT, PIN
109	2024928.8170	2593482.0363	742.5890	IL251	257+82.0390	455.1414' RT	GPS CONTROL POINT, PIN
110	2024008.6127	2592527.9183	738.5350	IL251	248+74.2534	510.7997' LT	GPS CONTROL POINT, PIN
111	2024202.5657	2593027.2218	732.8850	IL251	250+61.7316	9.0292' LT	GPS CONTROL POINT, PIN
112	2023925.1079	2593541.6325	745.9400	IL251	247+77.6430	501.7495' RT	GPS CONTROL POINT, PIN
113	2023602.9852	2593048.2878	733.2020	IL251	244+61.9288	4.2794' RT	GPS CONTROL POINT, PIN
114	2024988.4685	2592714.5158	736.7080	IL251	258+51.6135	311.5433' LT	GPS CONTROL POINT, PIN
123	2020563.0793	2593083.3911	.0000	IL251	214+21.8231	0.0583' RT	PI, SURVEY

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
403	2024309.8772	2588983.9750	751.9970	US20	952+92.9786	49.8647' RT	PERM. SURVEY MARKER, DISK
411	2024497.4597	2592907.9126	751.8870	US20	992+19.6420	67.5582' LT	ABUTMENT, CHISELED SQUARE
1411	2024309.1300	2593117.1700	734.3360	US20	994+25.5001	124.4814' RT	SIGN FOUNDATION, CHISELED SQUARE
415	2024555.4755	2595334.4804	762.5030	US20	1016+46.8591	82.1964' LT	SIGN FOUNDATION, BOLT
419	2024432.6014	2596957.7090	776.6440	US20	1032+67.6324	69.6689' RT	HEADWALL, CHISELED SQUARE
423	2024435.7704	2590456.8241	752.3560	US20	967+67.8425	49.6853' LT	PERM. SURVEY MARKER, DISK

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
410	2023569.9100	2592869.2000	730.9560	IL251	244+31.1728	175.2212' LT	TRANSMISSION TOWER, BOLT
412	2025452.7200	2593012.6900	732.0510	IL251	263+11.9693	7.3889' LT	SIGN FOUNDATION, CHISELED SQUARE
496	2023894.4600	2592458.1000	727.6670	IL251	247+61.0133	582.0887' LT	POLE FOUNDATION, CHISELED "X"
497	2023845.2000	2593633.8200	747.4660	IL251	246+96.5494	592.8957' RT	POLE FOUNDATION, CHISELED "X"
498	2024965.6200	2593571.9000	738.7740	IL251	258+17.6766	545.4736' RT	POLE FOUNDATION, CHISELED "X"
499	2025010.1200	2592415.3600	728.9870	IL251	258+77.1328	610.394' LT	POLE FOUNDATION, CHISELED "X"

Chain US20 contains:
X00706233 20

Beginning chain US20 description
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Point X00706233 N 2,024,234.9228 E 2,582,000.7010 Sta 883+09.4804

Course from X00706233 to 20 88° 58' 33.3802" Dist 16,325.6225'

Point 20 N 2,024,526.6990 E 2,598,323.7160 Sta 1046+35.1030

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Ending chain US20 description

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	US20	967+67.8376	49.6449' LT	BRIDGE CURB, DISK
501	US20	968+02.1205	15.3668' LT	PAVEMENT, CHISELED "X"
502	US20	968+01.3049	15.7136' RT	PAVEMENT, CHISELED "X"
503	US20	967+67.6105	49.7869' RT	BRIDGE CURB, CHISELED "X"
504	US20	975+13.2340	60.6848' LT	GUARDPOST, NAIL
505	US20	976+56.8853	63.9479' LT	GUARDPOST, NAIL
506	US20	976+60.6717	58.8194' RT	SIGN POLE, PIN
514	US20	994+68.5312	10.1022' RT	TOP OF WINGWALL, CHISELED "X"
515	US20	994+68.3503	10.5544' LT	TOP OF WINGWALL, CHISELED "X"
519	US20	1010+24.8340	66.3758' RT	SIGN POLE, PIN
520	US20	1010+55.1702	58.4719' LT	SIGN POLE, PIN
541	US20	994+25.5001	124.4814' RT	SIGN FOUNDATION, CHISELED SQUARE

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
536	IL251	244+31.1728	175.2212' LT	BOLT, CHISELED "X"
537	IL251	246+12.2990	70.5422' RT	TREE DECIDUOUS, NAIL
538	IL251	243+87.0634	110.4921' RT	HEADWALL, CHISELED "X"
545	IL251	263+11.9693	7.3889' LT	SIGN FOUNDATION, CHISELED SQUARE
546	IL251	260+73.0375	60.0062' RT	SIGN, PIN
547	IL251	260+96.5403	62.9801' LT	SIGN, PIN

Chain IL251 contains:
70 CUR 200 63

Beginning chain IL251 description
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Point 70 N 2,016,094.3240 E 2,593,116.5130 Sta 169+52.9380

Course from 70 to PC 200 359° 37' 12.6125" Dist 3,541.5722'

Curve Data

Curve 200
P.I. Station 208+58.0856 N 2,019,999.3858 E 2,593,090.6249
Delta = 0° 21' 40.7452" (LT)
Degree = 0° 02' 58.8830"
Tangent = 363.5754'
Length = 727.1484'
Radius = 115,307.0773'
External = 0.5732'
Long Chord = 727.1472'
Mid. Ord. = 0.5732'

P.C. Station 204+94.5102 N 2,019,635.8184 E 2,593,093.0351
P.T. Station 212+21.6586 N 2,020,362.9308 E 2,593,085.9220
C.C. N 2,018,871.4209 E 2,477,788.4915

Course from PT 200 to 63 359° 15' 31.8682" Dist 5,119.3218'

Point 63 N 2,025,481.8243 E 2,593,019.7030 Sta 263+40.9804

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Ending chain IL251 description

PLOT DATE = Fri, Nov 14 09:41:02 2008
 FILE NAME = c:\projects\2008\2008_08\2008_08.dgn
 PLOT SCALE = 1/8" = 100'
 USER NAME = dlowndd