

EXIST. CURVE E_US20-1
 PI STA. = 497+43.85
 $\Delta = 10^\circ 42' 41''$ (RT)
 $D = 0^\circ 56' 04''$
 $R = 6,130.75'$
 $T = 574.75'$
 $L = 1,146.15'$
 $E = 26.88'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 491+69.10$
 $P.T. STA. = 503+15.25$

PROP. CURVE US01
 PI STA. = 497+43.74
 $\Delta = 10^\circ 42' 41''$ (RT)
 $D = 0^\circ 56' 04''$
 $R = 6,130.75'$
 $T = 574.75'$
 $L = 1,146.15'$
 $E = 26.88'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 491+68.99$
 $P.T. STA. = 503+15.14$

PROP. CURVE US02
 PI STA. = 508+97.25
 $\Delta = 2^\circ 43' 55''$ (LT)
 $D = 0^\circ 32' 08''$
 $R = 10,698.11'$
 $T = 255.10'$
 $L = 510.10'$
 $E = 3.04'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 506+42.15$
 $P.T. STA. = 511+52.25$

PROP. CURVE US03
 PI STA. = 514+42.84
 $\Delta = 2^\circ 13' 11''$ (LT)
 $D = 0^\circ 22' 55''$
 $R = 15,000.00'$
 $T = 290.58'$
 $L = 581.10'$
 $E = 2.81'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 511+52.26$
 $P.T. STA. = 517+33.35$

PROP. CURVE US05
 PI STA. = 542+49.82
 $\Delta = 5^\circ 02' 48''$ (RT)
 $D = 2^\circ 09' 29''$
 $R = 2,655.00'$
 $T = 117.00'$
 $L = 233.85'$
 $E = 2.58'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 541+32.82$
 $P.T. STA. = 543+66.67$

EXIST. CURVE E_ROMA-1
 PI STA. = 101+87.03
 $\Delta = 29^\circ 09' 31''$ (RT)
 $D = 17^\circ 39' 02''$
 $R = 324.61'$
 $T = 84.43'$
 $L = 165.20'$
 $E = 10.80'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 101+02.60$
 $P.T. STA. = 102+67.80$

EXIST. CURVE E_ROMA-2
 PI STA. = 103+89.02
 $\Delta = 47^\circ 12' 09''$ (LT)
 $D = 30^\circ 46' 40''$
 $R = 186.16'$
 $T = 81.34'$
 $L = 153.37'$
 $E = 16.99'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 103+07.69$
 $P.T. STA. = 104+61.05$

EXIST. CURVE E_BART-1
 PI STA. = 205+36.57
 $\Delta = 18^\circ 15' 57''$ (RT)
 $D = 9^\circ 01' 35''$
 $R = 634.75'$
 $T = 102.04'$
 $L = 202.36'$
 $E = 8.15'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 204+34.52$
 $P.T. STA. = 206+36.88$

EXIST. CURVE E_US20-2
 PI STA. = 509+50.45
 $\Delta = 3^\circ 18' 01''$ (LT)
 $D = 0^\circ 32' 08''$
 $R = 10,698.11'$
 $T = 308.19'$
 $L = 616.21'$
 $E = 4.44'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 506+42.26$
 $P.T. STA. = 512+58.47$

EXIST. CURVE OAK
 PI STA. = 295+58.65
 $\Delta = 25^\circ 37' 37''$ (LT)
 $D = 3^\circ 59' 42''$
 $R = 1,434.16'$
 $T = 326.19'$
 $L = 641.46'$
 $E = 36.63'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 292+32.46$
 $P.T. STA. = 298+73.92$

PROP. CURVE OAK01
 PI STA. = 295+56.36
 $\Delta = 25^\circ 37' 37''$ (LT)
 $D = 3^\circ 59' 42''$
 $R = 1,434.16'$
 $T = 326.19'$
 $L = 641.46'$
 $E = 36.63'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 292+30.17$
 $P.T. STA. = 298+71.63$

EQUATION:
 Sta 514+02.31 BK =
 Sta 100+42.21 AH

EXIST. US 20	PT# A10	N 1944744.7800	E 1022249.3614	STA. 487+02.3	
	PC CURVE 1	N 1944653.2288	E 1022707.0931	STA. 491+69.1	
	PI CURVE 1	N 1944540.5050	E 1023270.6817	STA. 497+43.85	
	PT CURVE 1	N 1944324.9944	E 1023803.4987	STA. 503+15.25	
	PC CURVE 2	N 1944202.3778	E 1024106.6495	STA. 506+42.26	
	PI CURVE 2	N 1944086.8184	E 1024392.3524	STA. 509+50.45	
	PT CURVE 2	N 1943987.8979	E 1024684.2340	STA. 512+58.47	
	EQUATION: STA. 514+02.3 (BK) = STA. 100+42.21 (AH)				
	PT# A11	N 1943941.2417	E 1024820.3016	STA. 100+42.21	
	PT# ADD1005	N 1943916.2665	E 1024891.3719	STA. 101+17.54	
PT# ADD1007	N 1943632.5208	E 1025815.3956	STA. 110+84.15		
PT# 1024	N 1943068.8816	E 1027667.8591	STA. 130+20.46		
PT# US001	N 1944744.7594	E 1022249.4646	STA. 487+02.30		
PROP. US 20	PC CURVE 1	N 1944653.2288	E 1022707.0931	STA. 491+68.99	
	PI CURVE 1	N 1944540.5050	E 1023270.6817	STA. 497+43.74	
	PT CURVE 1	N 1944324.9944	E 1023803.4987	STA. 503+15.14	
	PC CURVE 2	N 1944202.3778	E 1024106.6495	STA. 506+42.15	
	PI CURVE 2	N 1944106.7252	E 1024343.1360	STA. 508+97.25	
	PT CURVE 2	N 1944022.4530	E 1024583.9128	STA. 511+52.25	
	PC CURVE 3	N 1944022.4522	E 1024583.9149	STA. 511+52.26	
	PI CURVE 3	N 1943926.4571	E 1024858.1858	STA. 514+42.84	
	PT CURVE 3	N 1943841.1566	E 1025135.9687	STA. 517+33.35	
	PT# US010	N 1943632.5208	E 1025815.3956	STA. 524+44.09	
EXIST. OAK AVE.	PC CURVE 4	N 1943140.9525	E 1027430.9901	STA. 541+32.82	
	PI CURVE 4	N 1943106.8946	E 1027542.9250	STA. 542+49.82	
	PT CURVE 4	N 1943063.1224	E 1027651.4300	STA. 543+66.67	
	PT# 1020	N 1942931.5572	E 1024622.1055	STA. 289+64.48	
PROP. OAK AVE.	PC CURVE 1	N 1943171.7143	E 1024741.0093	STA. 292+32.46	
	PI CURVE 1	N 1943464.0345	E 1024885.7395	STA. 295+58.65	
	PT CURVE 1	N 1943790.1962	E 1024889.8017	STA. 298+73.92	
	PT# OAK101	N 1942931.5572	E 1024622.1055	STA. 289+62.19	
EXIST. BARTLETT RD.	PC CURVE 1	N 1943171.7142	E 1024741.0093	STA. 292+30.17	
	PI CURVE 1	N 1943464.0345	E 1024885.7395	STA. 295+56.36	
	PT CURVE 1	N 1943790.1963	E 1024889.8017	STA. 298+71.63	
	PT# OAK105	N 1943918.5523	E 1024891.4004	STA. 300+00.00	
EXIST. PARK BLVD.	PT# A20	N 1944244.5014	E 1024002.5246	STA. 200+00.00	
	PC CURVE 1	N 1944668.7355	E 1024096.5152	STA. 204+34.52	
	PI CURVE 1	N 1944768.3643	E 1024118.5883	STA. 205+36.57	
	PT CURVE 1	N 1944856.0548	E 1024170.7754	STA. 206+36.88	
EXIST. ROMA JEAN PKWY.	PT# A21	N 1945099.1025	E 1024315.4201	STA. 209+19.71	
	PT# ADD1010	N 1943226.0695	E 1027151.2433	STA. 500+00.00	
	PT# 1023	N 1943792.2396	E 1027324.4579	STA. 505+92.07	
	PT# A55	N 1943486.2883	E 1026418.6131	STA. 100+40.00	
EXIST. ROMA JEAN PKWY.	PC CURVE 1	N 1943545.8336	E 1026437.9400	STA. 101+02.60	
	PI CURVE 1	N 1943626.1390	E 1026464.0051	STA. 101+87.03	
	PT CURVE 1	N 1943683.5679	E 1026525.8943	STA. 102+67.80	
	PC CURVE 2	N 1943710.6974	E 1026555.1308	STA. 103+07.69	
	PI CURVE 2	N 1943766.0220	E 1026614.7522	STA. 103+89.02	
	PT CURVE 2	N 1943847.3578	E 1026614.6647	STA. 104+61.05	
PT# A56	N 1943947.6189	E 1026614.5569	STA. 105+61.31		

CP# E5	N 1944639.8601	E 1022530.3899
CP# E6	N 1943588.4991	E 1026428.2962
CP# E7	N 1943721.0111	E 1026525.1731
CP# 50	N 1944337.5809	E 1023993.4069
CP# 56	N 1943614.4160	E 1025766.8209
CP# 57	N 1943472.9969	E 1026485.5454
CP# 101	N 1943838.6019	E 1024940.4481
CP# 102	N 1943790.0355	E 1025464.7194
CP# 103	N 1943604.7693	E 1025816.3759
CP# 104	N 1943436.2696	E 1026633.7923
CP# 105	N 1943172.0982	E 1027136.3825
CP# 106	N 1943342.1693	E 1024852.7216
CP# 108	N 1943588.4482	E 1027309.5476

BENCHMARKS

TBM "A" - "+" CUT IN T.S. CONC BASE ON SW CORNER OF US 20/PARK AVE.. ELEV. 798.55
 TBM "B" - "□" CUT IN NE CORNER CONC BASE OF T.S. IN SE CORNER OAK ST. & US 20. ELEV. 815.27
 * BM 1 - "□" IN SOUTHERLY CORNER TRAFFIC CONTROL BOX IN NW CORNER US 20 & BARTLETT RD. ELEV. 827.59
 * FROM EXTENDED SURVEY

FILE NAME =	USER NAME = galbenj	DESIGNED -	REVISED -
es:\pw\work\p\d\galbenj\d0304019\1517408-sht-ATB.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 400.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/3/2013	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT AND BENCHMARKS
 U.S. ROUTE 20 (LAKE ST.) OAK AVE. TO PARK AVE.**

SCALE: 1"=100' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	7Y-WRS	COOK	97	16
CONTRACT NO. 60N18				
ILLINOIS FED. AID PROJECT				