

ORCHARD DRIVE ALIGNMENT (CONT'D)

US ROUTE 30 ALIGNMENT

Curve ORCHARD-13
 P.I. Station 191+08.38 N 1,760,957.55 E
 1,162,182.19
 Delta = 42° 00' 09.09" (LT)
 Degree = 13° 10' 17.20"
 Tangent = 166.99
 Length = 318.89
 Radius = 435.00
 External = 30.95
 Long Chord = 311.80
 Mid. Ord. = 28.90
 P.C. Station 189+41.38 N 1,760,790.57 E
 1,162,184.01
 P.T. Station 192+60.27 N 1,761,080.42 E
 1,162,069.10
 C.C. N 1,760,785.84 E
 1,161,749.03
 Back = N 0° 37' 22.66" W
 Ahead = N 42° 37' 31.74" W
 Chord Bear = N 21° 37' 27.20" W

Course from PT ORCHARD-13 to PC ORCHARD-14 N 42° 37' 31.74" W Dist 691.62

Curve ORCHARD-16
 P.I. Station 215+69.40 N 1,763,091.57 E
 1,161,057.24
 Delta = 22° 07' 56.18" (RT)
 Degree = 10° 03' 06.81"
 Tangent = 111.48
 Length = 220.18
 Radius = 570.00
 External = 10.80
 Long Chord = 218.81
 Mid. Ord. = 10.60
 P.C. Station 214+57.92 N 1,762,989.07 E
 1,161,101.06
 P.T. Station 216+78.10 N 1,763,203.03 E
 1,161,055.27
 C.C. N 1,763,213.12 E
 1,161,625.18
 Back = N 23° 08' 44.59" W
 Ahead = N 1° 00' 48.41" W
 Chord Bear = N 12° 04' 46.50" W

Course from PT ORCHARD-16 to PC ORCHARD-17 N 0° 27' 57.54" W Dist 262.38

Point L1 N 1,763,301.41 E 1,160,570.80 Sta
 700+00.00
 Course from L1 to L2 N 89° 31' 09.05" E Dist 1,200.00
 Point L2 N 1,763,311.48 E 1,161,770.76 Sta
 712+00.00

Curve ORCHARD-14
 P.I. Station 202+30.16 N 1,761,794.06 E
 1,161,412.29
 Delta = 35° 51' 36.27" (RT)
 Degree = 6° 39' 44.28"
 Tangent = 278.27
 Length = 538.25
 Radius = 860.00
 External = 43.90
 Long Chord = 529.51
 Mid. Ord. = 41.77
 P.C. Station 199+51.89 N 1,761,589.31 E
 1,161,600.74
 P.T. Station 204+90.15 N 1,762,070.39 E
 1,161,379.51
 C.C. N 1,762,171.71 E
 1,162,233.52
 Back = N 42° 37' 31.74" W
 Ahead = N 6° 45' 55.48" W

Curve ORCHARD-17
 P.I. Station 219+91.12 N 1,763,516.05 E
 1,161,052.85
 Delta = 22° 54' 23.75" (LT)
 Degree = 22° 55' 05.92"
 Tangent = 50.65
 Length = 99.95
 Radius = 250.00
 External = 5.08
 Long Chord = 99.28
 Mid. Ord. = 4.98
 P.C. Station 219+40.47 N 1,763,465.40 E
 1,161,053.14
 P.T. Station 220+40.42 N 1,763,562.60 E
 1,161,032.87
 C.C. N 1,763,463.97 E
 1,160,803.14
 Back = N 0° 19' 43.99" W
 Ahead = N 23° 14' 07.74" W
 Chord Bear = N 11° 46' 55.86" W

Curve ORCHARD-15
 P.I. Station 208+55.08 N 1,762,433.04 E
 1,161,338.75
 Delta = 16° 54' 39.34" (LT)
 Degree = 6° 39' 44.28"
 Tangent = 127.84
 Length = 253.83
 Radius = 860.00
 External = 9.45
 Long Chord = 252.91
 Mid. Ord. = 9.35
 P.C. Station 207+27.24 N 1,762,305.96 E
 1,161,352.64
 P.T. Station 209+81.07 N 1,762,550.60 E
 1,161,288.50
 C.C. N 1,762,212.56 E
 1,160,497.72
 Back = N 6° 14' 05.25" W
 Ahead = N 23° 08' 44.59" W
 Chord Bear = N 14° 41' 24.92" W

Course from PT ORCHARD-15 to PC ORCHARD-16 N 23° 08' 44.59" W Dist 476.85

Curve ORCHARD-18
 P.I. Station 220+98.30 N 1,763,615.78 E
 1,161,010.03
 Delta = 22° 34' 19.69" (RT)
 Degree = 19° 45' 25.80"
 Tangent = 57.87
 Length = 114.25
 Radius = 290.00
 External = 5.72
 Long Chord = 113.51
 Mid. Ord. = 5.61
 P.C. Station 220+40.42 N 1,763,562.60 E
 1,161,032.87
 P.T. Station 221+54.67 N 1,763,673.65 E
 1,161,009.36
 C.C. N 1,763,677.00 E
 1,161,299.34
 Back = N 23° 14' 07.74" W
 Ahead = N 0° 39' 48.05" W
 Chord Bear = N 11° 56' 57.89" W

Course from PT ORCHARD-18 to ORCHARD3 N 0° 39' 48.05" W Dist 93.85

Point ORCHARD3 N 1,763,767.49 E 1,161,008.28 Sta
 222+48.52

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 2035 W. MONROE ST. SUITE 200
 CHICAGO, IL 60612-1000
 TEL: 312.221.1000 FAX: 312.221.1001
 WWW.BAXTERWOODMAN.COM



DESIGNED - TLH	REVISED -
DRAWN - UKB	REVISED -
CHECKED - TAO	REVISED -
DATE - 07/28/11	FILE - 060670-PH2-ALIGN-TIES1.sh

**STATE OF ILLINOIS
 ORCHARD DRIVE IMPROVEMENTS**

ALIGNMENT

SCALE: STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2836	06-00090-00-FP	COOK	200	26
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63635	
			M-8003663	