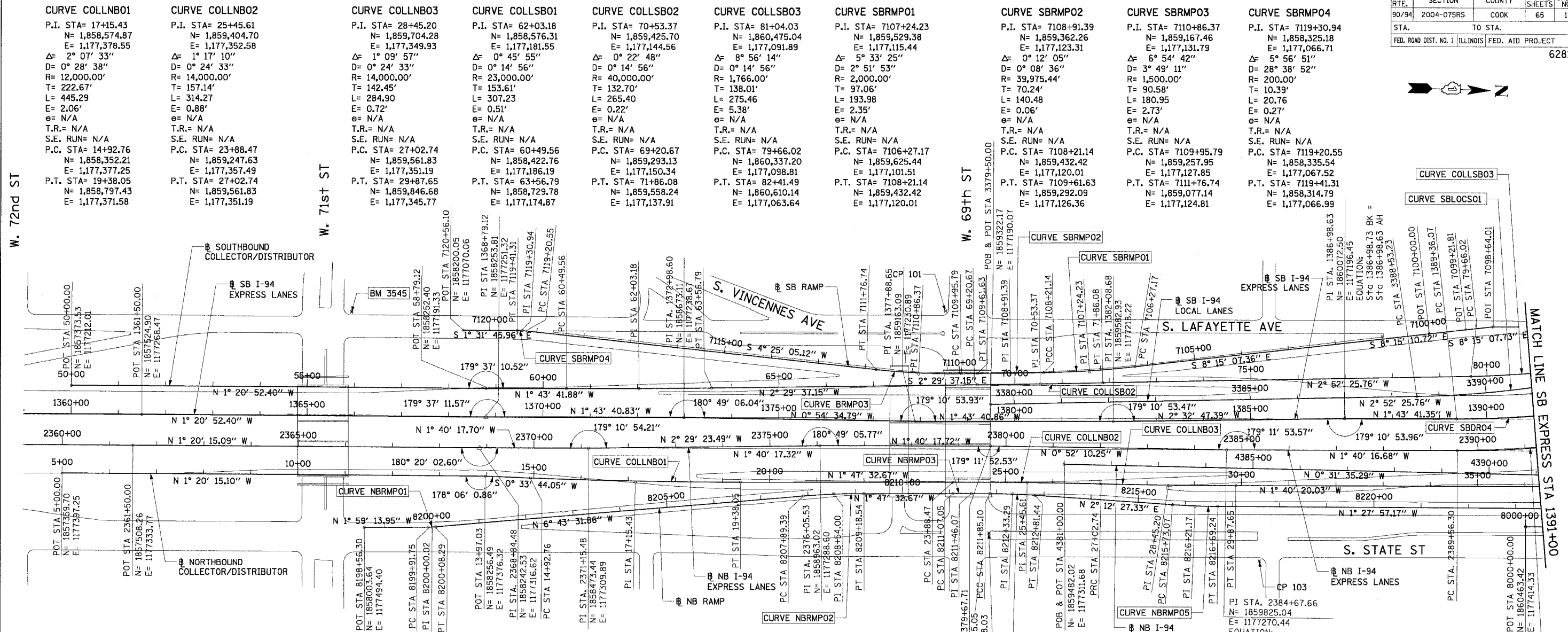


| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|------------|------------------|--------------|-----------|
| 90/94 | 2004-075RS | COOK | 65 | 13 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | | |
| | | | | 62814 |



CURVE COLLNB01

P.I. STA= 17+15.43
 N= 1,858,574.87
 E= 1,177,378.55
 Δ = 2° 07' 33"
 D= 0° 28' 38"
 R= 12,000.00'
 T= 222.67'
 L= 445.29
 E= 2.06'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 14+92.76
 N= 1,858,352.21
 E= 1,177,377.25
 P.T. STA= 19+38.05
 N= 1,858,797.43
 E= 1,177,371.58

CURVE COLLNB02

P.I. STA= 25+45.61
 N= 1,859,404.70
 E= 1,177,352.58
 Δ = 1° 17' 10"
 D= 0° 24' 33"
 R= 14,000.00'
 T= 157.14'
 L= 314.27
 E= 0.88'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 23+88.47
 N= 1,859,247.63
 E= 1,177,357.49
 P.T. STA= 27+02.74
 N= 1,859,561.83
 E= 1,177,351.19

CURVE COLLNB03

P.I. STA= 28+45.20
 N= 1,859,704.28
 E= 1,177,349.93
 Δ = 1° 09' 57"
 D= 0° 24' 33"
 R= 14,000.00'
 T= 157.14'
 L= 314.27
 E= 0.72'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 27+02.74
 N= 1,859,561.83
 E= 1,177,351.19
 P.T. STA= 29+87.65
 N= 1,859,846.68
 E= 1,177,345.77

CURVE COLLNB01

P.I. STA= 62+03.18
 N= 1,858,576.31
 E= 1,177,181.55
 Δ = 0° 45' 55"
 D= 0° 14' 56"
 R= 23,000.00'
 T= 153.61'
 L= 307.23
 E= 0.51'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 60+49.56
 N= 1,858,422.76
 E= 1,177,186.19
 P.T. STA= 63+56.79
 N= 1,858,729.78
 E= 1,177,174.87

CURVE COLLNB02

P.I. STA= 70+53.37
 N= 1,859,425.70
 E= 1,177,144.56
 Δ = 0° 22' 48"
 D= 0° 14' 56"
 R= 40,000.00'
 T= 132.70'
 L= 265.40
 E= 0.22'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 69+20.67
 N= 1,859,293.13
 E= 1,177,150.34
 P.T. STA= 71+86.08
 N= 1,859,558.24
 E= 1,177,137.91

CURVE COLLNB03

P.I. STA= 81+04.03
 N= 1,860,475.04
 E= 1,177,091.89
 Δ = 8° 56' 14"
 D= 0° 14' 56"
 R= 1,766.00'
 T= 138.01'
 L= 275.46
 E= 5.38'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 79+66.02
 N= 1,860,337.20
 E= 1,177,098.81
 P.T. STA= 82+41.49
 N= 1,860,610.14
 E= 1,177,063.64

CURVE SBRMPO1

P.I. STA= 7107+24.23
 N= 1,859,529.38
 E= 1,177,115.44
 Δ = 5° 33' 25"
 D= 2° 51' 53"
 R= 2,000.00'
 T= 97.06'
 L= 193.98
 E= 2.35'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7106+27.17
 N= 1,859,625.44
 E= 1,177,101.51
 P.T. STA= 7108+21.14
 N= 1,859,432.42
 E= 1,177,120.01

CURVE SBRMPO2

P.I. STA= 7108+91.39
 N= 1,859,362.26
 E= 1,177,123.31
 Δ = 0° 12' 05"
 D= 0° 08' 36"
 R= 39,975.44'
 T= 70.24'
 L= 140.48
 E= 0.06'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7108+21.14
 N= 1,859,432.42
 E= 1,177,120.01
 P.T. STA= 7109+61.63
 N= 1,859,292.09
 E= 1,177,126.36

CURVE SBRMPO3

P.I. STA= 7110+86.37
 N= 1,859,167.46
 E= 1,177,131.79
 Δ = 6° 54' 42"
 D= 3° 49' 11"
 R= 1,500.00'
 T= 90.58'
 L= 180.95
 E= 2.73'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7109+95.79
 N= 1,859,257.95
 E= 1,177,127.85
 P.T. STA= 7111+76.74
 N= 1,859,077.14
 E= 1,177,124.81

CURVE SBRMPO4

P.I. STA= 7119+30.94
 N= 1,858,325.18
 E= 1,177,066.71
 Δ = 5° 56' 51"
 D= 28° 38' 52"
 R= 200.00'
 T= 10.39'
 L= 20.76
 E= 0.27'
 ϕ = N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7119+20.55
 N= 1,858,335.54
 E= 1,177,067.52
 P.T. STA= 7119+41.31
 N= 1,858,314.79
 E= 1,177,066.99

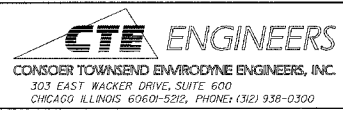
- BENCH MARK NO. 3528 ELEV. 16.20**
 DESCRIPTION: CROSS CUT ON NORTHWESTERLY BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 45TH ST AND WENTWORTH AVE
- BENCH MARK NO. 3530 ELEV. 18.18**
 DESCRIPTION: CROSS CUT ON SOUTHEAST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 51ST ST AND WELLS ST
- BENCH MARK NO. 3531 ELEV. 17.55**
 DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF GARFIELD BLVD AND WELLS ST
- BENCH MARK NO. 3532 ELEV. 18.84**
 DESCRIPTION: HORIZONTAL BOLT ON CTA "EL" STRUCTURE, EAST SIDE OF WELLS ST ABOUT 50 FEET NORTH OF 59TH PL.
- BENCH MARK NO. 3533 ELEV. 19.71**
 DESCRIPTION: BRASS DISK (CTA MONUMENT) AT THE SOUTHWEST CORNER OF 63RD ST AND HARVARD ST

- BENCH MARK NO. 3535 ELEV. 19.31**
 DESCRIPTION: FOUND CROSS CUT ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 59TH ST AND WENTWORTH AVE
- BENCH MARK NO. 3536 ELEV. 18.37**
 DESCRIPTION: CROSS CUT ON SOUTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE SOUTHEAST CORNER OF GARFIELD BLVD AND WENTWORTH AVE
- BENCH MARK NO. 3537 ELEV. 17.71**
 DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 51ST ST AND WENTWORTH AVE
- BENCH MARK NO. 3538 ELEV. 17.31**
 DESCRIPTION: CROSS CUT ON EASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 47TH ST AND LASALLE ST
- BENCH MARK NO. 3544 ELEV. 19.38**
 DESCRIPTION: CROSS CUT ON WESTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 67TH ST AND LAFAYETTE AVE
- BENCH MARK NO. 3545 ELEV. 10.53**
 DESCRIPTION: CROSS CUT ON NORTHWEST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 71ST ST AND LAFAYETTE AVE

| CURVE NBRMPO1 | CURVE NBRMPO2 | CURVE NBRMPO3 | CURVE NBRMPO4 |
|---|--|--|---|
| P.I. STA= 8200+00.02 N= 1,858,147.27 E= 1,177,489.42 Δ = 4° 44' 18" D= 28° 38' 52" R= 200.00' T= 8.27' L= 16.54 E= 0.17' ϕ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8199+91.75 N= 1,858,139.01 E= 1,177,489.70 P.T. STA= 8200+08.29 N= 1,858,155.49 E= 1,177,488.45 | P.I. STA= 8208+54.00 N= 1,858,995.39 E= 1,177,389.40 Δ = 4° 55' 59" D= 3° 49' 11" R= 1,500.00' T= 64.61' L= 129.15 E= 1.39' ϕ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8207+89.39 N= 1,858,931.22 E= 1,177,396.97 P.T. STA= 8209+18.54 N= 1,859,059.97 E= 1,177,387.38 | P.I. STA= 8211+46.07 N= 1,859,287.39 E= 1,177,380.27 Δ = 0° 19' 12" D= 0° 24' 36" R= 13,976.00' T= 39.03' L= 78.05 E= 0.05' ϕ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8211+07.05 N= 1,859,248.39 E= 1,177,381.49 P.T. STA= 8211+85.10 N= 1,859,326.41 E= 1,177,379.26 | P.I. STA= 8212+33.29 N= 1,859,374.58 E= 1,177,378.02 Δ = 3° 40' 25" D= 3° 49' 11" R= 1,500.00' T= 48.19' L= 96.17 E= 0.77' ϕ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8211+85.10 N= 1,859,326.41 E= 1,177,379.26 P.T. STA= 8212+81.44 N= 1,859,422.73 E= 1,177,379.88 |

| CURVE SBLOCS01 | CURVE NBRMPO5 | CURVE SBLOCS01 |
|---|---|--|
| P.I. STA= 7100+00.00 N= 1,860,072.50 E= 1,177,196.45 EQUATION: STG 1386+96.73 BK = STG 1386+99.63 AH PC STA 7100+00.00 PT STA 7100+00.00 PC STA 1389+36.07 PT STA 1389+36.07 PC STA 7099+21.81 PT STA 7099+21.81 PC STA 79+66.02 PT STA 79+66.02 PC STA 7098+64.01 PT STA 7098+64.01 | P.I. STA= 8216+21.17 N= 1,859,762.21 E= 1,177,392.97 Δ = 3° 40' 25" D= 2° 47' 17" R= 1,500.00' T= 282.39' L= 561.26' E= 19.31' ϕ = 5.52 T.R.= 41' S.E. RUN= 196' P.C. STA= 8215+73.07 N= 1,859,714.14 E= 1,177,391.11 P.T. STA= 8216+69.24 N= 1,859,810.29 E= 1,177,391.74 | P.I. STA= 3391+35.61 N= 1,860,506.29 E= 1,177,130.62 Δ = 15° 38' 54" D= 2° 47' 17" R= 2,055.00' T= 282.39' L= 561.26' E= 19.31' ϕ = 5.52 T.R.= 41' S.E. RUN= 196' P.C. STA= 3388+53.23 N= 1,860,224.26 E= 1,177,144.78 P.T. STA= 3394+14.48 N= 1,860,774.05 E= 1,177,040.92 |

NOTES:
 1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360



ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th ST TO 57th ST (WENTWORTH AVENUE)
 ALIGNMENT PLAN