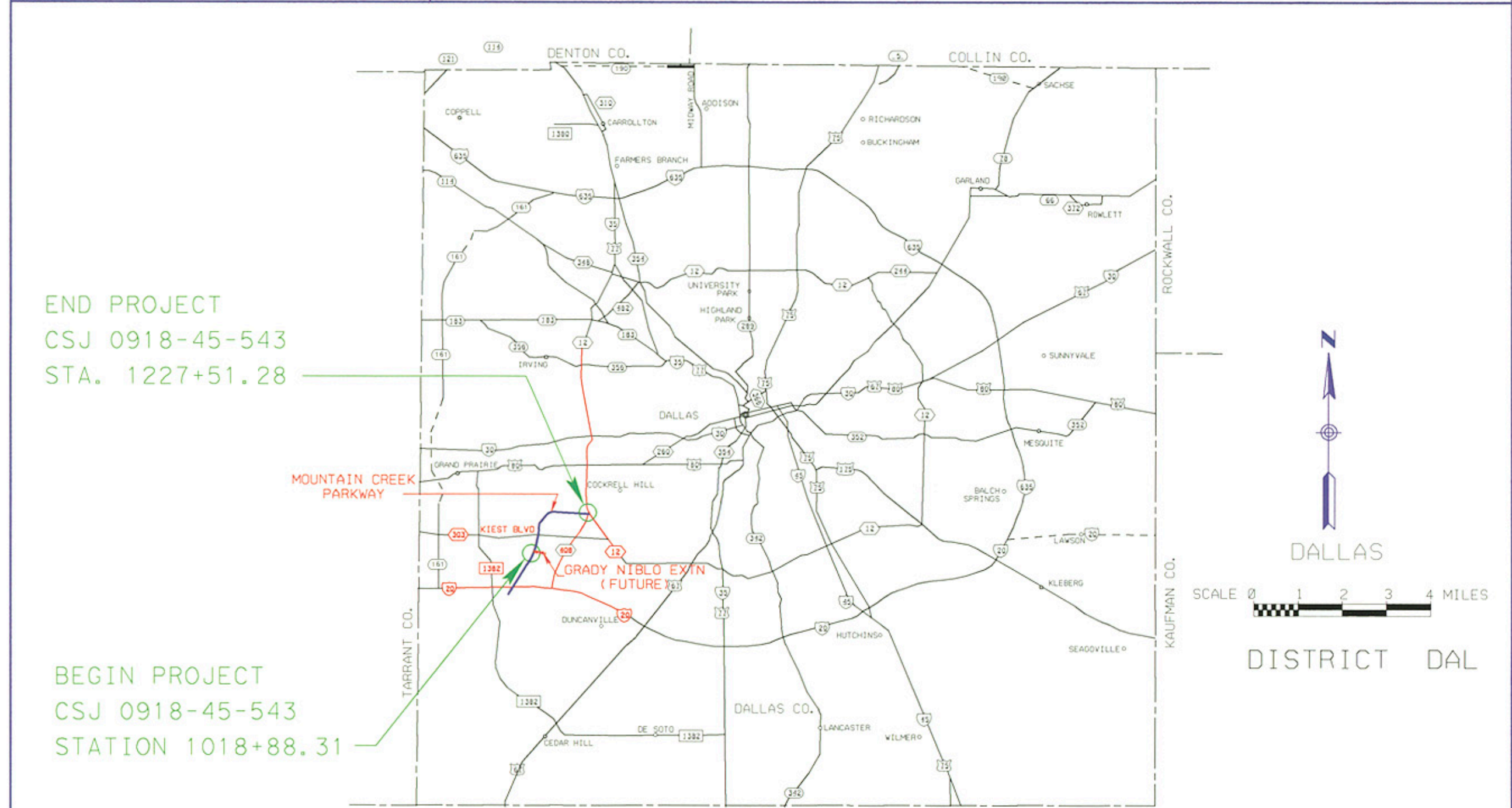


DESIGN SCHEMATIC
OF
MOUNTAIN CREEK PARKWAY
FROM FUTURE GRADY NIBLO RD EXTENSION
TO SPUR 408
DALLAS, TEXAS

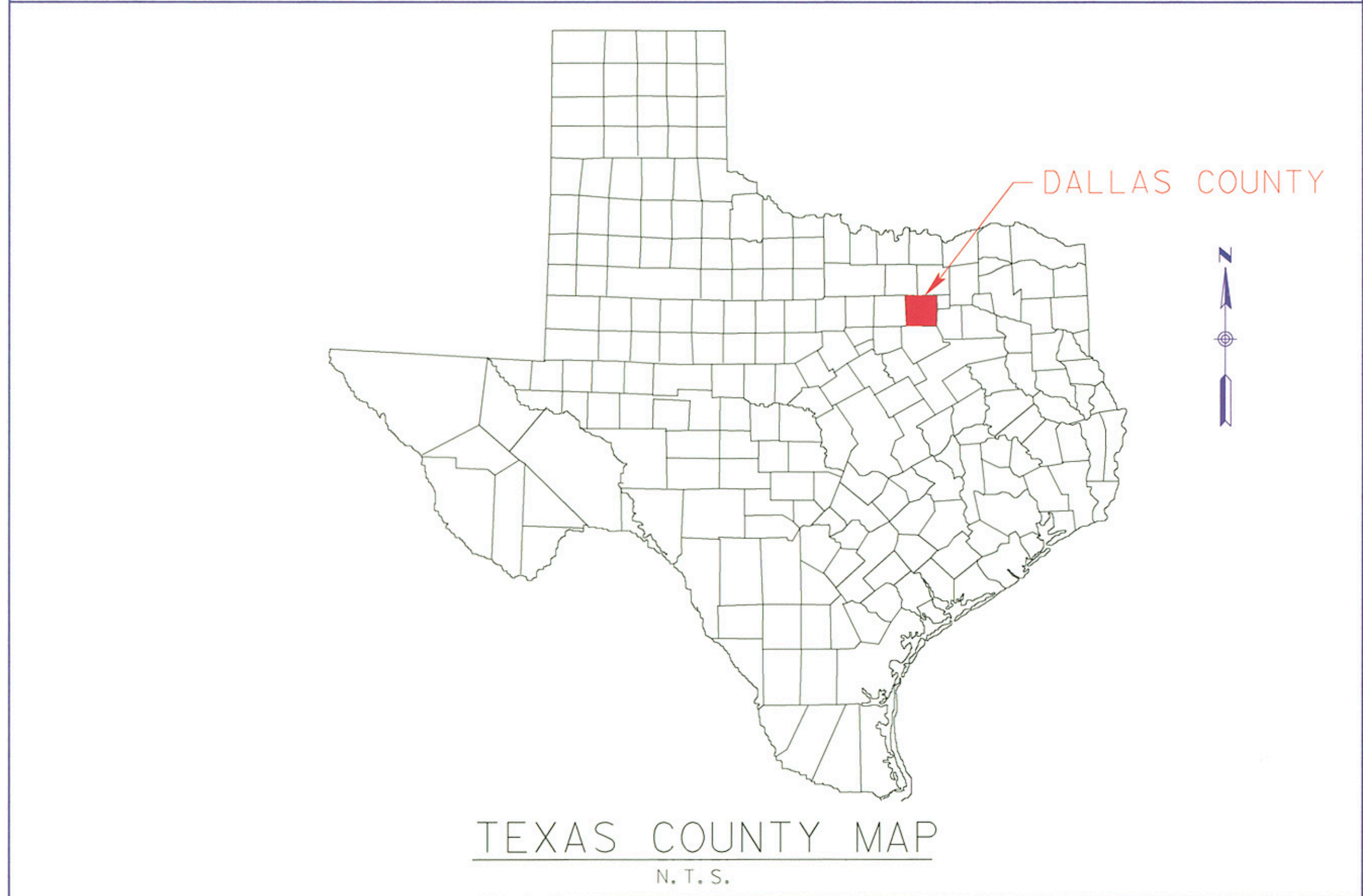
ROLL 1 OF 3

SUBMITTAL DATE:	STATE	COUNTY	CONTROL NO.	SEC. NO.	JOB NO.
DATE: 7-AUG-03	DISTRICT				
REVISION DATE:	TEXAS	DALLAS	0918	45	543
10-OCT-03					

APPROVAL DATE: DISTRICT ENGINEER:
JAY R. NELSON, P.E.



PROJECT VICINITY MAP



NOT A BIDDING DOCUMENT
JOHN HUDSPETH, P.E.
86945
TEXAS REGISTRATION NUMBER
DATE: 10/10/03

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LEGEND	
PROPOSED	
EXISTING RIGHT-OF-WAY LINE	
EXISTING PROPERTY LINE	
EXISTING PLANIMETRIC FEATURES	
PROPOSED RIGHT-OF-WAY LINE	
PROPOSED (MAINLINE & SIDE STREETS)	
PROPOSED WALL SYSTEM	
PROPOSED BRIDGE	
LANE DIRECTIONAL INDICATOR	
PROPOSED (MAINLINE & SIDE STREETS)	

SCALE: 1" = 100'
100 200 400

PROJECT LIMITS AND LENGTHS

C.S. J.: 0918-45-543
COUNTY: DALLAS
LIMITS FROM FUTURE GRADY NIBLO ROAD EXTENSION TO SPUR 408
APPROXIMATE LENGTH: 3.94 MILES.

FUNCTIONAL CLASS

URBAN MINOR ARTERIAL

DESIGN SPEED

45 MPH ON PROPOSED.

GENERAL NOTES

- PROJECT DESIGN UNITS ARE FEET.
- DESIGN VEHICLE USED IS WB-50.
- LEFT TURN BAYS AND MEDIAN OPENINGS MAY CHANGE DURING PS&E.

MOUNTAIN CREEK PARKWAY CURVE DATA			
Curve 1	Curve 6	Curve 11	Curve 16
P.I. (1) Station = 1024+68.95 Delta = 0° 57' 17.48" (LT) Degree = 0° 38' 11.81" Length = 75.00 Tangent = 149.99 Radius = 9,000.00 External = 0.31 Long Chord = 149.98 M.I. Ord. = 0.31 P.C. Station = 1023+93.95 P.T. Station = 1025+43.94 Back = N 0° 40' 03.22" W Ahead = N 1° 37' 50.71" W Chord Bear = N 1° 08' 41.97" W	P.I. (6) Station = 1069+51.30 Delta = 1° 53' 25.39" (LT) Degree = 1° 08' 45.30" Length = 82.49 Tangent = 164.99 Radius = 5,000.00 External = 0.68 Long Chord = 164.96 M.I. Ord. = 0.68 P.C. Station = 1068+81.81 P.T. Station = 1070+33.78 Back = N 41° 37' 56.43" E Ahead = N 39° 44' 31.04" E Chord Bear = N 40° 41' 13.73" E	P.I. (11) Station = 1124+85.35 Delta = 3° 07' 27.51" (LT) Degree = 1° 54' 35.49" Length = 81.81 Tangent = 163.57 Radius = 3,000.00 External = 1.11 Long Chord = 163.57 M.I. Ord. = 1.12 P.C. Station = 1124+05.53 P.T. Station = 1125+67.12 Back = N 39° 09' 01.98" E Ahead = N 36° 01' 34.46" E Chord Bear = N 37° 35' 18.22" E	P.I. (16) Station = 1157+55.03 Delta = 29° 29' 59.69" (RT) Degree = 5° 56' 14.59" Length = 254.06 Tangent = 486.85 Radius = 965.00 External = 32.88 Long Chord = 491.38 M.I. Ord. = 31.60 P.C. Station = 1155+00.96 P.T. Station = 1159+97.61 Back = N 59° 28' 59.33" E Ahead = N 88° 58' 59.03" E Chord Bear = N 74° 13' 59.18" E
Curve 2	Curve 7	Curve 12	Curve 17
P.I. (2) Station = 1030+69.14 Delta = 0° 57' 17.22" (RT) Degree = 0° 38' 11.83" Length = 74.99 Tangent = 149.98 Radius = 9,000.00 External = 0.31 Long Chord = 149.98 M.I. Ord. = 0.31 P.C. Station = 1029+94.14 P.T. Station = 1031+44.13 Back = N 1° 37' 20.71" W Ahead = N 40° 03.48" W Chord Bear = N 1° 08' 42.09" W	P.I. (7) Station = 1097+18.03 Delta = 40° 46' 32.54" (LT) Degree = 3° 00' 56.04" Length = 105.61 Tangent = 135.07 Radius = 1,900.00 External = 1.34 Long Chord = 132.76 M.I. Ord. = 1.18 P.C. Station = 1090+12.51 P.T. Station = 1103+63.58 Back = N 39° 44' 31.04" E Ahead = N 19° 22' 14.77" E	P.I. (12) Station = 1130+53.84 Delta = 3° 07' 24.02" (RT) Degree = 1° 54' 35.49" Length = 81.79 Tangent = 163.54 Radius = 3,000.00 External = 1.11 Long Chord = 163.52 M.I. Ord. = 1.11 P.C. Station = 1129+72.05 P.T. Station = 1131+55.59 Back = N 36° 01' 34.46" E Ahead = N 39° 08' 58.48" E Chord Bear = N 37° 35' 16.47" E	P.I. (17) Station = 1191+59.78 Delta = 0° 49' 41.49" (RT) Degree = 0° 38' 11.81" Length = 64.05 Tangent = 115.27 Radius = 130.09 External = 0.24 Long Chord = 130.09 M.I. Ord. = 0.24 P.C. Station = 1190+94.73 P.T. Station = 1192+24.82 Back = N 88° 58' 58.66" E Ahead = N 89° 48' 40.15" E Chord Bear = N 89° 23' 49.40" E
Curve 3	Curve 8	Curve 13	Curve 18
P.I. (3) Station = 1043+82.78 Delta = 42° 32' 59.83" (RT) Degree = 2° 58' 56.62" Length = 294.02 Tangent = 561.09 Radius = 760.00 External = 54.89 Long Chord = 548.43 M.I. Ord. = 51.19 P.C. Station = 1040+88.76 P.T. Station = 1046+09.84 Back = N 0° 40' 03.48" W Ahead = N 41° 37' 56.35" E Chord Bear = N 20° 28' 56.43" E	P.I. (8) Station = 1108+86.17 Delta = 2° 58' 56.62" (RT) Degree = 1° 25' 56.62" Length = 207.24 Tangent = 105.64 Radius = 4,000.00 External = 1.34 Long Chord = 207.22 M.I. Ord. = 1.34 P.C. Station = 1107+82.53 P.T. Station = 1109+99.77 Back = N 1° 00' 01.50" W Ahead = N 1° 28' 05.15" E Chord Bear = N 0° 29' 01.82" E	P.I. (13) Station = 1134+83.12 Delta = 20° 20' 00.37" (RT) Degree = 5° 43' 46.48" Length = 179.33 Tangent = 354.89 Radius = 1,000.00 External = 15.95 Long Chord = 153.03 M.I. Ord. = 15.70 P.C. Station = 1133+03.79 P.T. Station = 1136+58.67 Back = N 39° 08' 58.48" E Ahead = N 59° 28' 58.85" E Chord Bear = N 49° 18' 58.66" E	P.I. (18) Station = 1212+80.66 Delta = 8° 47' 18.39" (LT) Degree = 3° 49' 10.99" Length = 115.27 Tangent = 230.08 Radius = 1,900.00 External = 4.42 Long Chord = 229.86 M.I. Ord. = 4.41 P.C. Station = 1211+65.39 P.T. Station = 1213+95.97 Back = N 89° 48' 49.03" E Ahead = N 81° 01' 30.64" E Chord Bear = N 85° 29' 09.83" E
Curve 4	Curve 9	Curve 14	Curve 19
P.I. (4) Station = 1050+51.89 Delta = 3° 55' 12.48" (LT) Degree = 2° 46' 52.85" Length = 140.94 Tangent = 2,060.00 Radius = 140.92 Long Chord = 140.92 M.I. Ord. = 1.21 P.C. Station = 1049+81.39 P.T. Station = 1051+22.33 Back = N 41° 37' 56.35" E Ahead = N 37° 42' 43.87" E Chord Bear = N 39° 40' 20.11" E	P.I. (9) Station = 1112+72.35 Delta = 2° 58' 06.09" (LT) Degree = 2° 17' 30.59" Length = 64.77 Tangent = 129.52 Radius = 2,900.00 External = 0.84 Long Chord = 129.50 M.I. Ord. = 0.84 P.C. Station = 1112+07.57 P.T. Station = 1113+37.09 Back = N 1° 58' 05.15" E Ahead = N 1° 00' 00.94" W Chord Bear = N 0° 29' 02.11" E	P.I. (14) Station = 1144+53.00 Delta = 1° 10' 49.13" (RT) Degree = 0° 45' 50.20" Length = 77.25 Tangent = 154.50 Radius = 7,500.00 External = 0.40 Long Chord = 154.51 M.I. Ord. = 0.40 P.C. Station = 1143+75.75 P.T. Station = 1145+35.25 Back = N 59° 28' 58.85" E Ahead = N 60° 39' 47.98" E Chord Bear = N 60° 04' 23.41" E	P.I. (19) Station = 1220+41.28 Delta = 22° 57' 29.50" (RT) Degree = 5° 52' 35.36" Length = 197.99 Tangent = 390.68 Radius = 975.00 External = 19.90 Long Chord = 388.07 M.I. Ord. = 19.50 P.C. Station = 1218+43.28 P.T. Station = 1222+53.86 Back = N 61° 01' 30.64" E Ahead = S 76° 00' 59.86" E Chord Bear = S 87° 29' 44.61" E
Curve 5	Curve 10	Curve 15	Curve 20
P.I. (5) Station = 1053+44.55 Delta = 3° 55' 12.56" (RT) Degree = 2° 46' 52.85" Length = 83.50 Tangent = 166.94 Radius = 2,440.00 External = 1.43 Long Chord = 166.91 M.I. Ord. = 1.43 P.C. Station = 1052+61.04 P.T. Station = 1054+27.99 Back = N 37° 42' 43.87" E Ahead = N 41° 37' 56.43" E Chord Bear = N 39° 40' 20.15" E	P.I. (10) Station = 1119+97.94 Delta = 40° 09' 02.92" (RT) Degree = 5° 52' 35.36" Length = 356.32 Tangent = 154.49 Radius = 975.00 External = 63.07 Long Chord = 59.24 M.I. Ord. = 59.24 P.C. Station = 1116+41.61 P.T. Station = 1123+24.86 Back = N 1° 00' 00.94" W Ahead = N 39° 09' 01.98" E Chord Bear = N 19° 04' 30.52" E	P.I. (15) Station = 1149+87.02 Delta = 1° 10' 48.65" (LT) Degree = 0° 45' 50.20" Length = 77.25 Tangent = 154.49 Radius = 7,500.00 External = 0.40 Long Chord = 154.48 M.I. Ord. = 0.40 P.C. Station = 1149+00.78 P.T. Station = 1150+64.26 Back = N 60° 39' 47.98" E Ahead = N 59° 28' 59.33" E Chord Bear = N 60° 04' 23.66" E	P.I. (20) Station = 1225+61.58 Delta = 14° 46' 53.56" (LT) Degree = 5° 43' 46.48" Length = 129.71 Tangent = 257.99 Radius = 1,000.00 External = 6.38 Long Chord = 257.27 M.I. Ord. = 6.31 P.C. Station = 1224+31.87 P.T. Station = 1226+89.86 Back = S 76° 00' 59.86" E Ahead = N 89° 12' 06.58" E Chord Bear = S 83° 24' 26.64" E

CONTROL POINTS				
STATION	ELEVATION	OFFSET	LT/RT	DESCRIPTION
1025+04.04	468.26'	15.37'	LT	
1030+90.98	468.30'	14.04'	RT	
1033+89.54	466.99'	2.26'	LT	
1037+99.87	466.79'	3.25'	LT	
1043+97.04	468.76'	0.20'	LT	
1048+71.39	461.45'	66.17'	LT	BENCH MARK
1048+89.60	464.15'	25.60'	LT	
1054+15.78	464.54'	10.95'	RT	
1057+12.25	463.46'	27.07'	RT	
1058+33.44	462.72'	8.16'	LT	
1064+18.06	462.15'	26.50'	RT	
1070+13.53	461.98'	28.88'	RT	
1074+11.29	462.71'	27.75'	RT	
1076+19.80	462.84'	9.74'	LT	
1082+62.54	470.97'	13.62'	LT	
1092+84.71	472.25'	28.69'	LT	
1104+02.54	492.76'	0.39'	RT	
1117+86.46	464.99'	34.67'	LT	
1123+81.69	462.76'	29.87'	LT	
1133+20.61	466.16'	3.09'	RT	
1136+65.49	466.52'	6.32'	RT	
1141+87.38	467.00'	4.25'	RT	
1147+46.16	484.25'	3.73'	RT	
1157+45.60	470.70'	8.25'	LT	
1165+02.42	465.23'	14.73'	LT	
1171+61.54	461.13'	5.64'	LT	
1178+05.87	476.65'	7.79'	LT	
1181+58.20	485.88'	14.62'	LT	
1185+26.41	480.25'	8.09'	LT	
1193+05.73	519.53'	49.29'	RT	
1207+70.21	526.95'	3.77'	LT	
1211+50.99	547.48'	10.84'	LT	
1215+73.70	559.51'	64.97'	RT	
1218+67.90	581.13'	10.81'	RT	
1221+04.91	606.50'	159.89'	LT	
1225+26.19	649.92'	13.12'	RT	

