

| POINT | STATION                            | STATION             | N COORD   | E COORD  |
|-------|------------------------------------|---------------------|-----------|----------|
| (K)   | 11+23.01 ES=                       | 65+57.05 Expr       | 85945.17  | 83230.80 |
| (L)   | 0+00.00 NE=                        | 495+00.00 Fwy 53Lt  | 859435.85 | 94530.86 |
| (M)   | 1+76.20 NE=                        | 70+72.77 Expr       | 859368.11 | 9329.30  |
| (N)   | 13+00.72 NE=                       | 47+17.00 Expr 42Rt  | 859394.25 | 8972.21  |
| (O)   | 0+00.00 WN=                        | 71+44.57 Expr 42'Rt | 859313.27 | 9392.05  |
| (P)   | 0+60.75 WN=                        | 12+85.26 WN         | 859296.66 | 9450.40  |
| (Q)   | 13+38.06 WN=                       | 72+28.57 Expr       | 859398.41 | 9482.47  |
| (R)   | 17+90.18 WN=                       | 498+57.00 Fwy 53 Rt | 858871.16 | 9770.30  |
| (S)   | 0+00.00 NW=                        | 505+00.00 Fwy 53 Lt | 860044.62 | 10066.93 |
| (T)   | 2+03.37 NW=                        | 26+42.39 RR 2'3     | 86079.05  | 10005.93 |
| (U)   | 16+98.09 NW=                       | 63+69.31 Expr 42Lt  | 859423.54 | 8946.78  |
| (V)   | 0+00.00 EH=                        | 61+65.00 Expr 42Lt  | 859581.27 | 8942.01  |
| (W)   | 0+01.18 EN=                        | 65+69.08 Expr 42Lt  | 85950.52  | 10778.89 |
| (X)   | 16+81.28 EN=                       | 24+39.54 RR 2'3     | 86060.91  | 10207.35 |
| (Y)   | 20+27.57 EN=                       | 508+00.00 Fwy 53 Rt | 86312.42  | 10425.34 |
| (Z)   | 493+00.00 Fwy=                     | 71+44.57 Expr       | 859394.25 | 9399.99  |
| AA    | 503+71.58 Fwy=                     | 25+44.95 RR 1'      | 86079.05  | 10103.64 |
| AB    | 5% Sec 28 1/2 Ctr Toq in Conc Mon. |                     | 86390.20  | 10286.93 |
| AC    | 11+23.01 ES=                       |                     | 85945.17  | 83230.80 |

BM 'a' Bolt @ E of Intersection  
of "H" St & Bonanza Road  
EL 2037.74

| CURVE NO  | (22)           | (23)           | (24)        |
|-----------|----------------|----------------|-------------|
| Δ         | 64° 18' 00"    | 50° 30' 00"    | 24° 16' 00" |
| R         | 560.00         | 760.00         | 800.00      |
| L         | 559.36         | 663.66         | 338.83      |
| T         | 325.27         | 266.44         | 171.99      |
| PC Sta    | 109+63.23      | 115+52.53 (PC) | 142+38.56   |
| N Coord   | 85478.60       | Sec PT 22'     | 85166.30    |
| E Coord   | 8113.40        |                | 10166.30    |
| PIN Coord | 85435.96       | 84° 12' 18"    | 85068.63    |
| E Coord   | 8435.87        | 81° 33' 44"    | 10298.15    |
| PT Sta    | 115+52.53 (PC) | 121+33.45      | 145+77.39   |
| N Coord   | 85134.73       | 84° 18' 28"    | 85254.21    |
| E Coord   | 8558.60        | 85° 23' 12"    | 10464.60    |

| CURVE NO.   | ① Total Curve | ②             | ③           | ④           | ⑤           |
|-------------|---------------|---------------|-------------|-------------|-------------|
| Δ           | 56° 23' 17"   | 47° 42' 13"   | 16° 00' 00" | 18° 30' 00" | 47° 34' 46" |
| R           | 6800.00'      | 10000.00'     | 12000.00'   | 12000.00'   | 6800.00'    |
| L           | 6692.27'      | 832.58'       | 3350.1'     | 38746'      | 5546.84'    |
| T           | 345.22'       | 442.13'       | 1686.5'     | 19543'      | 2597.70'    |
| P.C. Sta.   | 446+33.35     | 6+94.92 (PCC) | 20+56.88    | 27+08.93    | 446+33.35   |
| N Curve     | 81000.56      | 85137.53      | 84798.56    | 85142.47    | 81000.56    |
| E. Coord.   | 7819.38       | 86266.1       | 9549.97     | 10100.80    | 7819.38     |
| P1 N. Coord | 84445.78      | 84728.19      | 84856.47    | 85257.57    | 8398.26     |
| E. Coord    | 1821.91       | 8793.69       | 9708.36     | 10258.74    | 7821.46     |
| P.T. Sta.   | 513+25.72     | 15+27.50      | 23+9.98     | 30+96.40    | 502+80.29   |
| N Curve     | 86641.55      | 84329.12      | 84955.80    | 85516.61    | 86018.88    |
| E. Coord.   | 10559.07      | 3603.34       | 9844.66     | 10445.04    | 10035.80    |

| CURVE NO.  | (5)        | (6)       | (7)           | (8)       | (9)        | (10)       | (11)          | (12)           | (13)          | (14)          | (15)      | (16)      | (17)      | (18)          | (19)           | (20)           |                |
|------------|------------|-----------|---------------|-----------|------------|------------|---------------|----------------|---------------|---------------|-----------|-----------|-----------|---------------|----------------|----------------|----------------|
| A          | 174°09'03" | 14°01'42" | 56°52'47"     | 14°10'00" | 113°30'50" | 237°22'58" | 56°30'42"     | 238°36'34"     | 5°55'51"      | 28°30'00"     | 23°55'12" | 13°30'00" | 30°25'00" | 7°01'00"      | 134°30'48"     | 6°20'15"       | 5°09'45"       |
| R          | 423.00'    | 800.00'   | 700.00'       | 1200.00'  | 325.00'    | 180.00'    | 330.00'       | 180.00'        | 1747.00'      | 1500.00'      | 1000.00'  | 800.00'   | 600.00'   | 1500.00'      | 2500.00'       | 1500.00'       | 6800.00'       |
| L          | 126.57'    | 195.87'   | 694.92'       | 296.71'   | 643.89'    | 745.76'    | 342.16'       | 749.61'        | 698.11'       | 746.13'       | 417.48'   | 258.31'   | 312.52'   | 183.72'       | 586.93'        | 165.92'        | 612.69'        |
| T          | 827.983'   | 9813'     | 379.12'       | 149.11'   | 495.84'    | 745.76'    | 186.14'       | 749.61'        | 319.52'       | 380.95'       | 211.83'   | 130.79'   | 103.11'   | 91.97'        | 536.35'        | 83.64'         | 306.55'        |
| P.C. Sta   | 4+35.71    | 20+673.0  | 0+00.00       | 0+00.00   | 8+40.08    | 5+54.96    | 0+00.00       | 3+42.16 (PCC)  | 0+91.77 (PCC) | 74+12.95      | 0+00.00   | 4+98.52   | 13+73.57  | 4+78.33       | 6204' (PCC)    | 12+4397' (PCC) | 14+1489' (PCC) |
| Intz Coord | 84446.31   | 85550.8   | 85560.34      | 85319.05  | 85509.95   | 85093.53   | 85313.27      | 85303.69       | 85581.27      | 85397.70      | 85581.27  | 85581.27  | 85581.27  | 85581.27      | 85581.27       | 85581.27       | 85581.27       |
| P.M. Coord | 9575.60    | 874.45    | 8111.08       | 9909.43   | 9093.61    | 9048.62    | 9392.05       | See PT (1)     | See PT (2)    | 9663.52       | 8446.10   | 9773.19   | 8506.69   | 1034.99       | See PT (3)     | See PT (4)     | See PT (5)     |
| P.M. Coord | —          | 25523.45  | 85488.54      | 85322.95  | —          | —          | 85278.02      | —              | —             | 85425.26      | 85231.54  | 85621.38  | 85511.67  | 85317.37      | 85239.29       | 85834.08       | 86113.23       |
| P.I. Sta   | —          | 8879.23   | 8483.34       | 9760.36   | —          | —          | 9574.85       | 9538.85        | 10037.58      | 8238.11       | 9670.52   | 8306.94   | 10225.57  | 3541.66       | 9959.95        | 10232.23       | 10232.23       |
| Intz Coord | 17+234.2   | 22+637.7  | 6+94.92 (PCC) | 2+96.71   | 14+83.96   | 13+00.72   | 3+42.16 (PCC) | 10+91.77 (PCC) | 17+90.18      | 0+91.77 (PCC) | 4+174.8   | 7+56.83   | 10+98.09  | 6+62.04 (PCC) | 12+4897' (PCC) | 14+1489' (PCC) | 20+275.7       |
| Intz Coord | 85645.53   | 85520.71  | 85363.22      | 85126.65  | 85394.25   | 85100.76   | 85100.76      | 85100.76       | 85100.76      | 85100.76      | 85100.76  | 85100.76  | 85100.76  | 85100.76      | 85100.76       | 85100.76       | 85100.76       |
| Intz Coord | 9305.58    | 8781.46   | See PT 2      | 9416.79   | 8683.89    | 8972.21    | 9467.17       | 9335.69        | 9770.30       | 9547.71       | 8064.24   | 9547.71   | 85542.36  | 85566.93      | 85769.24       | 8589.07        | 86113.23       |

107V3833

STATE OF NEVADA  
DEPARTMENT OF HIGHWAYS

GEOMETRICS, HORIZONTAL AND  
VERTICAL CONTROL PLAN

STA 489+00 TO 504+49 FREEWAY  
BONANZA INTERCHANGE, LAS VEGAS

DE LEUW, CATHER & COMPANY  
ENGINEERS  
SAN FRANCISCO, CALIFORNIA

SEARCHED BY 140  
 INDEXED BY 25M  
 CHECKED BY JB

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