



| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 8 | 97.87 | 11.98 | N3° 10' 43.97"E | (616555.84,9252771.05) | (616556.50,9252783.00) |
| PI: 7 | 191.88 | 43.54 | N6° 49' 42.40"W | (616561.49,9252642.52) | (616556.32,9252685.66) |
| PI: 6 | 83.23 | 18.62 | N19° 44' 12.60"W | (616585.99,9252548.11) | (616579.72,9252565.59) |
| PI: 5 | 27.82 | 20.51 | N5° 01' 37.02"W | (616599.16,9252504.88) | (616597.40,9252524.86) |
| PI: 4 | 34.07 | 17.83 | N1° 05' 58.93"E | (616596.68,9252479.83) | (616597.02,9252497.45) |
| PI: 3 | 36.65 | 16.58 | N0° 55' 42.69"W | (616599.54,9252452.88) | (616599.28,9252469.32) |
| PI: 2 | 52.95 | 15.33 | N3° 44' 28.58"E | (616597.89,9252434.56) | (616598.89,9252449.81) |
| PI: 1 | 200.00 | 15.68 | N6° 47' 50.08"W | (616602.76,9252381.09) | (616600.91,9252396.65) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 28 | 32.06 | 36.86 | N27° 22' 23.88"W | (615923.63,9254357.57) | (615907.60,9254388.53) |
| PI: 27 | 145.60 | 21.76 | N56° 01' 21.15"W | (615981.15,9254322.90) | (615963.12,9254335.05) |
| PI: 26 | 14.55 | 9.20 | N69° 51' 27.47"W | (616102.61,9254230.70) | (616094.12,9254233.82) |
| PI: 25 | 17.67 | 15.32 | N63° 08' 06.68"W | (616117.97,9254223.91) | (616104.72,9254230.62) |
| PI: 24 | 65.04 | 15.17 | N44° 58' 36.49"W | (616146.94,9254190.06) | (616136.25,9254200.77) |
| PI: 23 | 95.05 | 14.95 | N56° 09' 48.76"W | (616297.41,9254072.55) | (616285.00,9254080.86) |
| PI: 22 | 23.17 | 18.96 | N37° 13' 20.26"W | (616330.75,9254045.40) | (616319.59,9254060.08) |
| PI: 21 | 99.70 | 16.31 | N18° 27' 36.06"W | (616339.00,9254017.34) | (616333.84,9254032.79) |
| PI: 20 | 40.60 | 25.16 | N5° 23' 35.49"W | (616347.16,9253979.03) | (616344.83,9254003.68) |
| PI: 19 | 81.53 | 25.06 | N3° 33' 13.08"E | (616345.61,9253954.12) | (616347.16,9253979.03) |
| PI: 18 | 333.90 | 15.08 | N3° 57' 28.08"W | (616355.91,9253838.40) | (616354.87,9253853.44) |
| PI: 17 | 15.00 | 17.19 | N50° 40' 49.38"W | (616382.03,9253653.05) | (616369.45,9253663.36) |
| PI: 16 | 20.47 | 31.56 | N39° 21' 17.27"W | (616409.82,9253629.89) | (616391.73,9253651.95) |
| PI: 15 | 78.37 | 30.61 | N6° 22' 50.35"W | (616410.64,9253569.26) | (616407.26,9253599.49) |
| PI: 14 | 75.79 | 21.66 | N8° 23' 02.57"W | (616424.95,9253513.87) | (616421.43,9253535.17) |
| PI: 13 | 84.05 | 34.50 | N12° 57' 22.22"W | (616436.94,9253274.49) | (616429.26,9253307.88) |
| PI: 12 | 189.88 | 33.40 | N19° 40' 34.29"W | (616461.29,9253214.59) | (616450.06,9253246.00) |
| PI: 11 | 244.52 | 25.14 | N17° 34' 56.63"W | (616492.26,9253101.09) | (616484.67,9253125.05) |
| PI: 10 | 81.94 | 17.17 | N14° 31' 34.01"W | (616543.01,9252960.46) | (616538.71,9252977.05) |
| PI: 9 | 85.81 | 22.78 | N0° 55' 10.41"W | (616560.92,9252820.69) | (616560.55,9252843.40) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 48 | 313.06 | 17.51 | N11° 45' 04.89"E | (615843.42,9255578.08) | (615846.99,9255595.23) |
| PI: 47 | 101.14 | 15.31 | N17° 41' 26.64"E | (615827.94,9255517.88) | (615832.59,9255532.45) |
| PI: 46 | 159.59 | 43.21 | N14° 16' 17.71"E | (615817.32,9255476.13) | (615827.94,9255517.88) |
| PI: 45 | 73.88 | 27.70 | N17° 15' 19.05"E | (615805.23,9255415.47) | (615813.40,9255441.76) |
| PI: 44 | 24.11 | 38.00 | N17° 10' 09.94"W | (615757.05,9255273.18) | (615746.96,9255305.85) |
| PI: 43 | 126.69 | 66.14 | N77° 03' 24.73"W | (615928.20,9255202.23) | (615864.45,9255216.88) |
| PI: 42 | 14.10 | 23.81 | N43° 24' 25.14"W | (615987.37,9255188.30) | (615972.88,9255203.62) |
| PI: 41 | 28.60 | 17.20 | N12° 15' 57.37"W | (615976.45,9255004.66) | (615972.85,9255021.21) |
| PI: 40 | 37.08 | 16.79 | N16° 31' 37.82"W | (616005.82,9254945.16) | (616001.08,9254961.11) |
| PI: 39 | 23.01 | 26.61 | N29° 34' 26.51"E | (615994.56,9254904.65) | (616006.97,9254926.52) |
| PI: 38 | 5.50 | 8.68 | N17° 31' 21.89"E | (615915.73,9254857.73) | (615918.08,9254865.18) |
| PI: 37 | 11.58 | 10.78 | N0° 59' 39.52"W | (615917.51,9254844.28) | (615917.33,9254854.67) |
| PI: 36 | 32.74 | 10.69 | N16° 18' 50.97"E | (615914.52,9254834.06) | (615917.51,9254844.28) |
| PI: 35 | 70.88 | 16.79 | N13° 44' 44.74"E | (615903.41,9254759.41) | (615907.40,9254775.69) |
| PI: 34 | 74.38 | 18.83 | N27° 47' 07.65"E | (615879.02,9254701.04) | (615887.77,9254717.65) |
| PI: 33 | 51.38 | 27.80 | N19° 32' 17.43"E | (615862.44,9254664.61) | (615871.63,9254690.49) |
| PI: 32 | 23.17 | 15.96 | N15° 41' 34.79"W | (615863.07,9254598.57) | (615858.84,9254613.63) |
| PI: 31 | 61.99 | 15.74 | N28° 09' 00.06"W | (615879.82,9254571.59) | (615872.42,9254585.44) |
| PI: 30 | 93.66 | 12.07 | N17° 10' 59.43"W | (615892.78,9254535.44) | (615889.22,9254546.96) |
| PI: 29 | 75.64 | 25.15 | N3° 58' 01.37"W | (615912.26,9254436.47) | (615910.53,9254461.44) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 68 | 43.18 | 11.44 | N10° 15' 09.49"W | (616364.90,9253677.47) | (616362.87,9253688.69) |
| PI: 67 | 69.94 | 58.88 | S89° 40' 21.60"W | (615683.93,9257112.33) | (615625.86,9257112.00) |
| PI: 66 | 111.71 | 41.99 | N76° 33' 57.68"W | (615750.62,9257090.91) | (615710.03,9257100.60) |
| PI: 65 | 51.69 | 42.84 | N63° 35' 29.55"W | (615818.18,9257070.98) | (615780.90,9257089.50) |
| PI: 64 | 123.88 | 36.31 | N48° 14' 48.78"W | (615881.16,9257003.78) | (615854.17,9257027.87) |
| PI: 63 | 27.66 | 23.98 | N31° 48' 48.66"W | (615928.03,9256961.25) | (615915.78,9256980.99) |
| PI: 62 | 162.11 | 20.64 | N3° 20' 09.44"W | (615934.08,9256901.03) | (615932.88,9256921.62) |
| PI: 61 | 62.87 | 16.06 | N7° 37' 45.99"E | (615930.81,9256874.65) | (615932.94,9256890.52) |
| PI: 60 | 81.36 | 16.70 | N20° 49' 36.32"E | (615916.54,9256827.83) | (615922.47,9256843.41) |
| PI: 59 | 54.26 | 39.59 | N5° 48' 10.98"E | (615905.35,9256874.85) | (615909.27,9256813.36) |
| PI: 58 | 37.51 | 23.74 | N33° 14' 07.28"W | (615939.97,9256474.43) | (615927.18,9256493.97) |
| PI: 57 | 25.54 | 20.24 | N28° 40' 23.96"W | (615971.04,9256439.87) | (615961.58,9256457.17) |
| PI: 56 | 99.33 | 24.31 | N1° 02' 04.12"E | (615991.94,9256211.82) | (615992.37,9256236.06) |
| PI: 55 | 150.30 | 17.88 | N4° 38' 10.70"E | (615981.66,9256131.51) | (615983.10,9256149.32) |
| PI: 54 | 85.28 | 15.87 | N6° 33' 29.64"E | (615977.39,9256000.86) | (615979.19,9256016.60) |
| PI: 53 | 159.87 | 9.68 | N13° 37' 21.76"E | (615969.77,9255966.11) | (615972.05,9255975.52) |
| PI: 52 | 210.38 | 23.78 | N12° 07' 05.14"E | (615959.24,9255922.68) | (615964.23,9255945.92) |
| PI: 51 | 396.31 | 23.72 | N7° 09' 53.53"E | (615928.45,9255721.06) | (615931.41,9255744.59) |
| PI: 50 | 9.23 | 14.56 | N50° 38' 39.05"E | (615914.03,9255667.70) | (615924.16,9255676.00) |
| PI: 49 | 16.81 | 25.14 | N52° 59' 36.19"E | (615858.18,9255657.78) | (615876.44,9255671.54) |

| PUNTO | ESTE (X) | NORTE (Y) | COTA (Z) | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616674.698 | 9251956.634 | 81.228 | BM1 |
| 2 | 616594.425 | 9252447.230 | 78.798 | BM2 |
| 3 | 616543.161 | 9252939.423 | 77.820 | BM3 |
| 4 | 616431.942 | 9253326.861 | 77.133 | BM4 |
| 5 | 616358.151 | 9253826.042 | 77.189 | BM5 |
| 6 | 616098.630 | 9254227.917 | 77.039 | BM6 |
| 7 | 615863.218 | 9254639.273 | 77.189 | BM7 |
| 8 | 615979.551 | 9255078.530 | 77.397 | BM8 |
| 9 | 615790.260 | 9255390.936 | 77.323 | BM9 |
| 10 | 615948.453 | 9255836.054 | 77.943 | BM10 |
| 11 | 615980.819 | 9256325.465 | 78.265 | BM11 |
| 12 | 615935.779 | 9256821.343 | 79.321 | BM12 |
| 13 | 615622.421 | 9257107.467 | 78.764 | BM13 |

| PUNTO | ESTE (X) | NORTE (Y) | COTA (Z) | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616648.154 | 9252118.023 | 79.999 | E1 |
| 2 | 616597.191 | 9252516.025 | 79.979 | E3 |
| 3 | 616562.822 | 9252626.775 | 78.085 | E4 |
| 4 | 616533.391 | 9252872.399 | 77.255 | E5 |
| 5 | 616513.949 | 9253148.049 | 77.910 | E6 |
| 6 | 616388.364 | 9253582.350 | 77.945 | E7 |
| 8 | 616366.279 | 9254002.867 | 78.365 | E8 |
| 11 | 615938.314 | 9254336.305 | 78.278 | E10 |
| 12 | 615889.410 | 9254534.649 | 77.525 | E11 |
| 13 | 615915.306 | 9254758.684 | 77.430 | E12 |
| 14 | 615969.350 | 9255013.861 | 77.652 | E13 |
| 15 | 615755.088 | 9255352.673 | 77.516 | E14 |
| 16 | 615860.710 | 9255672.816 | 77.721 | E15 |
| 17 | 615948.366 | 9255987.210 | 77.461 | E16 |
| 18 | 615994.509 | 9256212.824 | 78.435 | E17 |
| 19 | 615954.546 | 9256389.440 | 79.952 | E18 |
| 20 | 615898.215 | 9256591.145 | 80.042 | E19 |
| 21 | 615913.621 | 9256912.564 | 80.363 | E20 |
| 22 | 615767.004 | 9257001.300 | 78.221 | E21 |

ESPECIFICACIONES TÉCNICAS

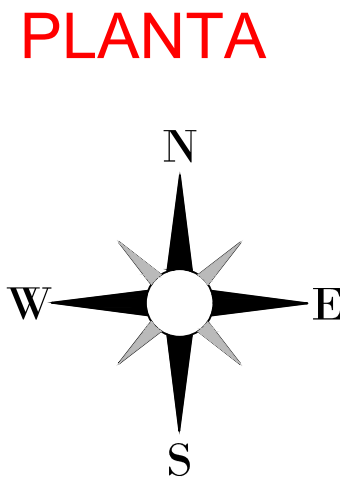
1. El sistema de coordenadas está basado en las coordenadas UTM WGS84, ZONA 17SUR.

2. Las coordenadas, progresivas, elevaciones y demás dimensiones están en metros.

| LEYENDA | |
|---------|----------------------|
| SÍMBOLO | DESCRIPCION |
| | VIVIENDAS EXISTENTES |
| | CARRITERA |
| | VIAS DE ACCESO |
| | NORTE MAGNETICO |
| | DRENE |
| | CURVAS MENORES |
| | CURVAS MAYORES |
| | PORTE DE LUZ |

| CUADRO DE CALICATAS PARA SUB - RASANTE | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| N° | Progresiva | Calicata | Prof. (m) | Coord. Este (X) | Coord. Norte (Y) |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 1.50 | 616543.161 | 9252939.423 |
| 02 | Km 02 + 000 | C - 2 | 0.0 - 1.50 | 616358.151 | 9253826.042 |
| 03 | Km 03 + 000 | C - 3 | 0.0 - 1.50 | 615863.218 | 9254639.273 |
| 04 | Km 04 + 000 | C - 4 | 0.0 - 1.50 | 615790.260 | 9255390.936 |
| 05 | Km 05 + 000 | C - 5 | 0.0 - 1.50 | 615980.819 | 9256325.465 |
| 06 | Km 06 + 000 | C - 6 | 0.0 - 1.50 | 615622.421 | 9257107.467 |









| CUADRO DE CALICATAS PARA BASE GRANULAR | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| N° | Progresiva | Calicata | Prof. (m) | Coord. Este (X) | Coord. Norte (Y) |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 0.50 | 616543.161 | 9252939.423 |
| 02 | Km 03 + 500 | C - 2 | 0.0 - 0.50 | 615979.551 | 9255078.530 |
| 03 | Km 05 + 000 | C - 3 | 0.0 - 0.50 | 615980.819 | 9256325.465 |



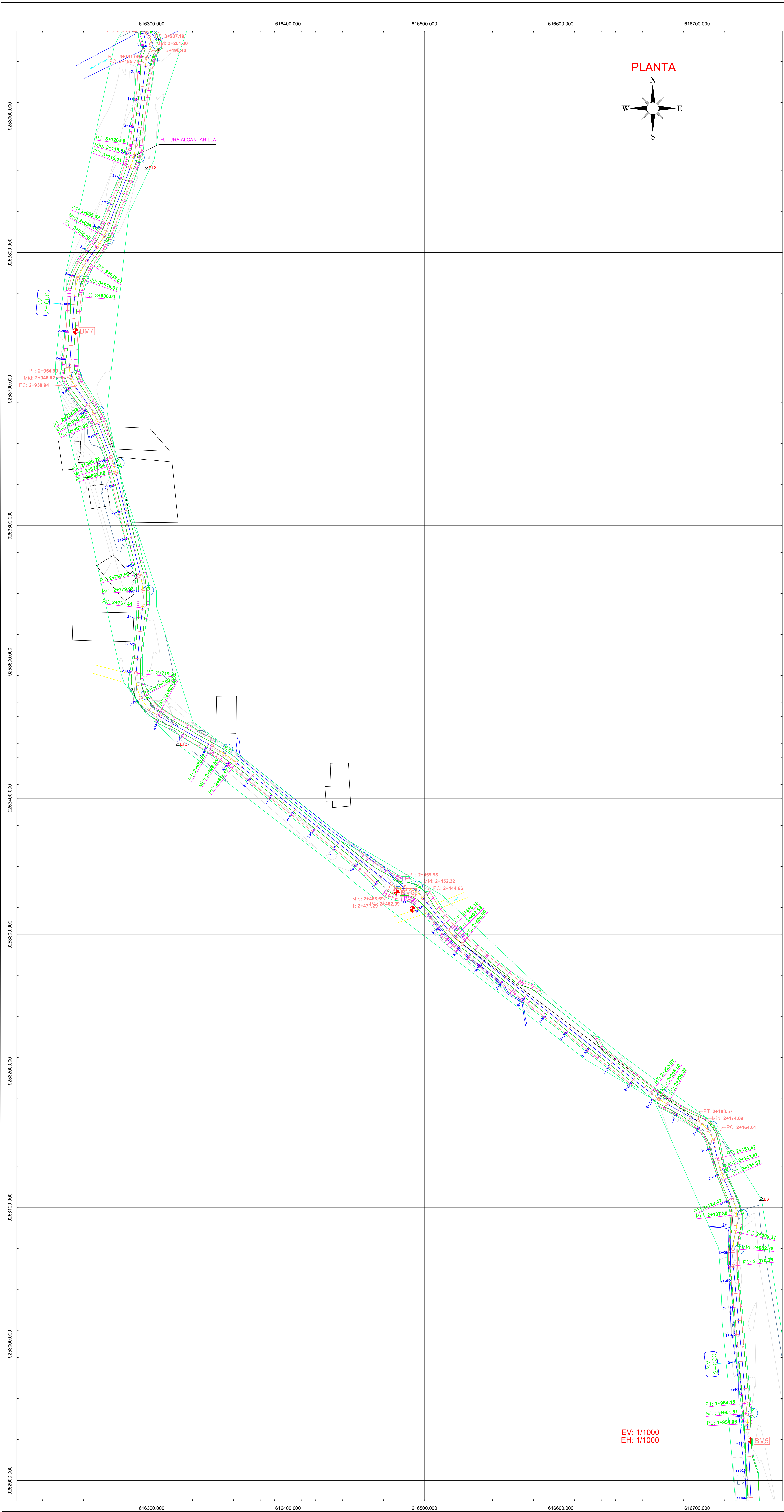
| PUNTO | ESTE [X] | NORTE [Y] | COTA [Z] | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616674.698 | 9251956.634 | 81.228 | BM1 |
| 2 | 616594.425 | 9252447.230 | 78.798 | BM2 |
| 3 | 616543.161 | 9252939.423 | 77.820 | BM3 |
| 4 | 616431.942 | 9253326.861 | 77.133 | BM4 |
| 5 | 616358.151 | 9253826.042 | 77.189 | BM5 |
| 6 | 616098.630 | 9254227.917 | 77.039 | BM6 |
| 7 | 615863.218 | 9254639.273 | 77.189 | BM7 |
| 8 | 615979.551 | 9255078.530 | 77.397 | BM8 |
| 9 | 615790.260 | 9255390.936 | 77.323 | BM9 |
| 10 | 615948.453 | 9255836.054 | 77.943 | BM10 |
| 11 | 615980.819 | 9256325.465 | 78.265 | BM11 |
| 12 | 615935.779 | 9256821.343 | 79.321 | BM12 |
| 13 | 615622.421 | 9257107.467 | 78.764 | BM13 |

ESPECIFICACIONES TÉCNICAS

1. El sistema de coordenadas está basado en las coordenadas UTM WGS84, ZONA 17SUR.
2. Las coordenadas, progresivas, elevaciones y demás dimensiones están en metros.

| LEYENDA | |
|---|----------------------|
| SIMBOLO | DESCRIPCION |
|  | VIVIENDAS EXISTENTES |
|  | CARRETERA |
|  | VIAS DE ACCESO |
|  | NORTE MAGNETICO |
|  | DRENE |
|  | CURVAS MENORES |
|  | CURVAS MAYORES |
|  | POSTE DE LUZ |

| CUADRO DE CALICATAS PARA BASE GRANULAR | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| N° | Progresiva | Calicata | Prof. (m) | Coord. Este (X) | Coord. Norte (Y) |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 0.50 | 616543.161 | 9252939.423 |
| 02 | Km 03 + 500 | C - 2 | 0.0 - 0.50 | 615979.551 | 9255078.530 |
| 03 | km 05 + 000 | C - 3 | 0.0 - 0.50 | 615980.819 | 9256325.465 |



| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 8 | 97.87 | 11.98 | N3° 10' 43.97"E | (616555.84,9252771.05) | (616556.50,9252783.00) |
| PI: 7 | 191.88 | 43.54 | N6° 49' 42.40"W | (616561.49,9252642.52) | (616556.32,9252685.66) |
| PI: 6 | 83.23 | 18.62 | N19° 44' 12.60"W | (616585.99,9252548.11) | (616579.72,9252565.59) |
| PI: 5 | 27.82 | 20.51 | N5° 01' 37.02"W | (616599.16,9252504.88) | (616597.40,9252524.86) |
| PI: 4 | 34.07 | 17.83 | N1° 05' 58.93"E | (616596.68,9252479.83) | (616597.02,9252497.45) |
| PI: 3 | 36.65 | 16.58 | N0° 55' 42.69"W | (616599.54,9252452.88) | (616599.28,9252469.32) |
| PI: 2 | 52.95 | 15.33 | N3° 44' 28.58"E | (616597.89,9252434.56) | (616598.89,9252449.81) |
| PI: 1 | 200.00 | 15.68 | N6° 47' 50.08"W | (616602.76,9252381.09) | (616600.91,9252396.65) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 28 | 32.06 | 36.86 | N27° 22' 23.88"W | (615923.63,9254357.57) | (615907.60,9254388.53) |
| PI: 27 | 145.60 | 21.76 | N56° 01' 21.15"W | (615981.15,9254322.90) | (615963.12,9254335.05) |
| PI: 26 | 14.55 | 9.20 | N69° 51' 27.47"W | (616102.61,9254230.70) | (616094.12,9254233.82) |
| PI: 25 | 17.67 | 15.32 | N63° 08' 06.68"W | (616117.97,9254223.91) | (616104.72,9254230.62) |
| PI: 24 | 65.04 | 15.17 | N44° 58' 36.49"W | (616146.94,9254190.06) | (616136.25,9254200.77) |
| PI: 23 | 95.05 | 14.95 | N56° 09' 48.76"W | (616297.41,9254072.55) | (616285.00,9254080.86) |
| PI: 22 | 23.17 | 18.96 | N37° 13' 20.26"W | (616330.75,9254045.40) | (616319.59,9254060.08) |
| PI: 21 | 99.70 | 16.31 | N18° 27' 36.06"W | (616339.00,9254017.34) | (616333.84,9254032.79) |
| PI: 20 | 40.60 | 25.16 | N5° 23' 35.49"W | (616347.16,9253979.03) | (616344.83,9254003.68) |
| PI: 19 | 81.53 | 25.06 | N3° 33' 13.08"E | (616345.61,9253954.12) | (616347.16,9253979.03) |
| PI: 18 | 333.90 | 15.08 | N3° 57' 28.08"W | (616355.91,9253838.40) | (616354.87,9253853.44) |
| PI: 17 | 15.00 | 17.19 | N50° 40' 49.38"W | (616382.03,9253653.05) | (616369.45,9253663.36) |
| PI: 16 | 20.47 | 31.56 | N39° 21' 17.27"W | (616409.82,9253629.89) | (616391.73,9253651.95) |
| PI: 15 | 78.37 | 30.61 | N6° 22' 50.35"W | (616410.64,9253569.26) | (616407.26,9253599.49) |
| PI: 14 | 75.79 | 21.66 | N9° 23' 02.57"W | (616424.95,9253513.87) | (616421.43,9253535.17) |
| PI: 13 | 84.05 | 34.50 | N12° 57' 22.22"W | (616436.94,9253274.49) | (616429.26,9253307.88) |
| PI: 12 | 189.88 | 33.40 | N19° 40' 34.29"W | (616461.29,9253214.59) | (616450.06,9253246.00) |
| PI: 11 | 244.52 | 25.14 | N17° 34' 56.63"W | (616492.26,9253101.09) | (616484.67,9253125.05) |
| PI: 10 | 81.94 | 17.17 | N14° 31' 34.01"W | (616543.01,9252960.46) | (616538.71,9252977.05) |
| PI: 9 | 85.81 | 22.78 | N0° 55' 10.41"W | (616560.92,9252820.69) | (616560.55,9252843.40) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 48 | 313.06 | 17.51 | N11° 45' 04.89"E | (615843.42,9255578.08) | (615846.99,9255595.23) |
| PI: 47 | 101.14 | 15.31 | N17° 41' 26.64"E | (615827.94,9255517.88) | (615832.59,9255532.45) |
| PI: 46 | 159.59 | 43.21 | N14° 16' 17.71"E | (615817.32,9255476.13) | (615827.94,9255517.88) |
| PI: 45 | 73.88 | 27.70 | N17° 15' 19.05"E | (615805.23,9255415.47) | (615813.40,9255441.76) |
| PI: 44 | 24.11 | 38.00 | N17° 10' 09.94"W | (615757.05,9255273.18) | (615746.96,9255305.85) |
| PI: 43 | 128.69 | 66.14 | N77° 03' 24.73"W | (615928.20,9255202.23) | (615864.45,9255216.88) |
| PI: 42 | 14.10 | 23.81 | N43° 24' 25.14"W | (615987.37,9255188.30) | (615972.88,9255203.62) |
| PI: 41 | 28.60 | 17.20 | N12° 15' 57.37"W | (615976.45,9255004.66) | (615972.85,9255021.21) |
| PI: 40 | 37.08 | 16.79 | N16° 31' 37.82"W | (616005.82,9254945.16) | (616001.08,9254961.11) |
| PI: 39 | 23.01 | 26.61 | N29° 34' 26.51"E | (615994.56,9254904.65) | (616006.97,9254926.52) |
| PI: 38 | 5.50 | 8.68 | N17° 31' 21.89"E | (615915.73,9254857.73) | (615918.08,9254865.18) |
| PI: 37 | 11.58 | 10.78 | N0° 59' 39.52"W | (615917.51,9254844.28) | (615917.33,9254854.67) |
| PI: 36 | 32.74 | 10.69 | N16° 18' 50.97"E | (615914.52,9254834.06) | (615917.51,9254844.28) |
| PI: 35 | 70.88 | 16.79 | N13° 44' 44.74"E | (615903.41,9254759.41) | (615907.40,9254775.69) |
| PI: 34 | 74.38 | 18.83 | N27° 47' 07.65"E | (615879.02,9254701.04) | (615887.77,9254717.65) |
| PI: 33 | 51.38 | 27.80 | N19° 32' 17.43"E | (615862.44,9254664.61) | (615871.63,9254690.49) |
| PI: 32 | 23.17 | 15.96 | N15° 41' 34.79"W | (615863.07,9254598.57) | (615858.84,9254613.63) |
| PI: 31 | 61.99 | 15.74 | N28° 09' 00.06"W | (615879.82,9254571.59) | (615872.42,9254585.44) |
| PI: 30 | 93.66 | 12.07 | N17° 07' 59.43"W | (615882.78,9254535.44) | (615889.22,9254546.96) |
| PI: 29 | 75.64 | 25.15 | N3° 58' 01.37"W | (615912.26,9254436.47) | (615910.53,9254461.44) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 68 | 43.18 | 11.44 | N10° 15' 09.49"W | (616384.90,9253677.47) | (616362.87,9253688.69) |
| PI: 67 | 69.94 | 59.88 | S89° 40' 21.60"W | (616683.93,9257112.33) | (616625.86,9257112.00) |
| PI: 66 | 111.71 | 41.99 | N76° 33' 57.68"W | (615750.62,9257090.91) | (615710.03,9257100.60) |
| PI: 65 | 51.69 | 42.84 | N63° 35' 29.55"W | (615818.18,9257070.98) | (615780.90,9257089.50) |
| PI: 64 | 123.88 | 36.31 | N48° 14' 48.78"W | (615881.16,9257003.78) | (615854.17,9257027.87) |
| PI: 63 | 27.66 | 23.98 | N31° 48' 48.66"W | (615928.03,9256961.25) | (615915.78,9256980.99) |
| PI: 62 | 162.11 | 20.64 | N3° 20' 09.44"W | (615934.08,9256901.03) | (615932.88,9256921.62) |
| PI: 61 | 62.87 | 16.06 | N7° 37' 45.59"E | (615930.81,9256674.65) | (615932.94,9256690.52) |
| PI: 60 | 81.36 | 16.70 | N20° 49' 36.32"E | (615916.54,9256627.83) | (615922.47,9256643.41) |
| PI: 59 | 54.26 | 39.59 | N5° 48' 10.98"E | (615905.35,9256574.85) | (615909.27,9256613.36) |
| PI: 58 | 37.51 | 23.74 | N33° 14' 07.28"W | (615939.97,9256474.43) | (615927.18,9256493.97) |
| PI: 57 | 25.54 | 20.24 | N28° 40' 23.96"W | (615971.04,9256439.87) | (615961.58,9256457.17) |
| PI: 56 | 99.33 | 24.31 | N1° 02' 04.12"E | (615991.94,9256211.82) | (615992.37,9256236.06) |
| PI: 55 | 150.30 | 17.88 | N4° 38' 10.70"E | (615981.66,9256131.51) | (615983.10,9256149.32) |
| PI: 54 | 85.28 | 15.87 | N6° 33' 29.64"E | (615977.39,9256000.86) | (615979.19,9256016.60) |
| PI: 53 | 159.87 | 9.68 | N13° 31' 21.76"E | (615969.77,9255966.11) | (615972.05,9255975.52) |
| PI: 52 | 210.38 | 23.78 | N12° 07' 05.14"E | (615959.24,9255922.68) | (615964.23,9255945.92) |
| PI: 51 | 396.31 | 23.72 | N7° 09' 53.53"E | (615928.45,9255721.06) | (615931.41,9255744.59) |
| PI: 50 | 9.23 | 14.56 | N50° 38' 39.05"E | (615914.03,9255667.70) | (615924.16,9255676.00) |
| PI: 49 | 16.81 | 25.14 | N52° 59' 36.19"E | (615858.18,9255657.78) | (615876.44,9255671.54) |

| PUNTO | ESTE [X] | NORTE [Y] | COTA [Z] | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616674.698 | 9251956.634 | 81.228 | BM1 |
| 2 | 616594.425 | 9252447.230 | 78.798 | BM2 |
| 3 | 616543.161 | 9252939.423 | 77.820 | BM3 |
| 4 | 616431.942 | 9253326.861 | 77.133 | BM4 |
| 5 | 616358.151 | 9253826.042 | 77.189 | BM5 |
| 6 | 616098.630 | 9254227.917 | 77.039 | BM6 |
| 7 | 615863.218 | 9254639.273 | 77.189 | BM7 |
| 8 | 615979.551 | 9255078.530 | 77.397 | BM8 |
| 9 | 615790.260 | 9255390.936 | 77.323 | BM9 |
| 10 | 615948.453 | 9255836.054 | 77.943 | BM10 |
| 11 | 615980.819 | 9256325.465 | 78.265 | BM11 |
| 12 | 615935.779 | 9256821.343 | 79.321 | BM12 |
| 13 | 615622.421 | 9257107.467 | 78.764 | BM13 |

| PUNTO | ESTE [X] | NORTE [Y] | COTA [Z] | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616648.154 | 9252118.023 | 79.999 | E1 |
| 2 | 616997.191 | 9252516.025 | 79.979 | E3 |
| 3 | 616662.822 | 9252626.775 | 78.085 | E4 |
| 4 | 616533.891 | 9252972.399 | 77.255 | E5 |
| 5 | 616513.949 | 9253148.049 | 77.910 | E6 |
| 6 | 616388.364 | 9253582.350 | 77.945 | E7 |
| 8 | 616366.279 | 9254002.867 | 78.365 | E8 |
| 11 | 615938.314 | 9254336.305 | 78.278 | E10 |
| 12 | 615889.410 | 9254534.649 | 77.525 | E11 |
| 13 | 615915.306 | 9254758.684 | 77.430 | E12 |
| 14 | 615969.350 | 9255013.861 | 77.652 | E13 |
| 15 | 615755.088 | 9255352.673 | 77.516 | E14 |
| 16 | 615860.710 | 9255672.816 | 77.721 | E15 |
| 17 | 615948.366 | 9255987.210 | 77.461 | E16 |
| 18 | 615994.509 | 9256212.824 | 78.435 | E17 |
| 19 | 615954.546 | 9256380.449 | 79.952 | E18 |
| 20 | 615898.215 | 9256591.145 | 80.042 | E19 |
| 21 | 615913.621 | 9256912.564 | 80.363 | E20 |
| 22 | 615767.004 | 9257001.300 | 78.221 | E21 |

ESPECIFICACIONES TÉCNICAS

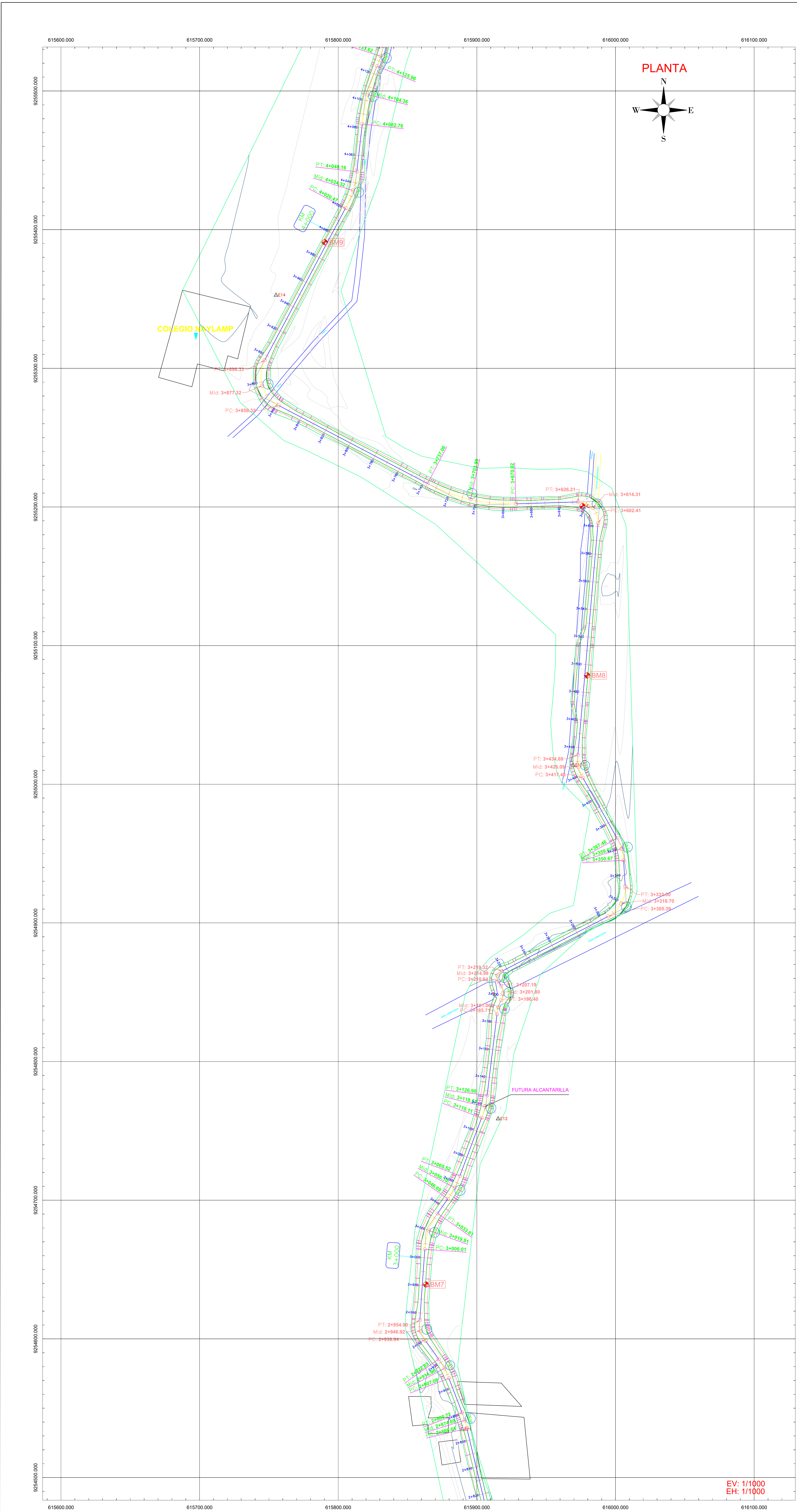
1. El sistema de coordenadas está basado en las coordenadas UTM WGS84, ZONA 17SUR.

2. Las coordenadas, progresivas, elevaciones y demás dimensiones están en metros.

| LEYENDA | |
|---------|----------------------|
| SÍMBOLO | DESCRIPCION |
| | VIVIENDAS EXISTENTES |
| | CARRETERA |
| | VÍAS DE ACCESO |
| | NORTE MAGNÉTICO |
| | DRENE |
| | CURVAS MENORES |
| | CURVAS MAYORES |
| | PORTE DE LUZ |

| CUADRO DE CALICATAS PARA SUB - RASANTE | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| N° | Progresiva | Calicata | Prof. (m) | Coord. Este [X] | Coord. Norte [Y] |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 1.50 | 616543.161 | 9252939.423 |
| 02 | Km 02 + 000 | C - 2 | 0.0 - 1.50 | 616358.151 | 9253826.042 |
| 03 | Km 03 + 000 | C - 3 | 0.0 - 1.50 | 615863.218 | 9254639.273 |
| 04 | Km 04 + 000 | C - 4 | 0.0 - 1.50 | 615790.260 | 9255390.936 |
| 05 | km 05 + 000 | C - 5 | 0.0 - 1.50 | 615980.819 | 9256325.465 |
| 06 | km 06 + 000 | C - 6 | 0.0 - 1.50 | 615622.421 | 9257107.467 |

| CUADRO DE CALICATAS PARA BASE GRANULAR | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| N° | Progresiva | Calicata | Prof. (m) | Coord. Este [X] | Coord. Norte [Y] |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 0.50 | 616543.161 | 9252939.423 |
| 02 | Km 03 + 500 | C - 2 | 0.0 - 0.50 | 615979.551 | 9255078.530 |
| 03 | km 05 + 000 | C - 3 | 0.0 - 0.50 | 615980.819 | 9256325.465 |



| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 8 | 97.87 | 11.98 | N3° 10' 43.97"E | (616555.84,9252771.05) | (616556.50,9252783.00) |
| PI: 7 | 191.88 | 43.54 | N6° 49' 42.40"W | (616561.49,9252642.52) | (616556.32,9252685.66) |
| PI: 6 | 83.23 | 18.62 | N19° 44' 12.60"W | (616585.99,9252548.11) | (616579.72,9252565.59) |
| PI: 5 | 27.82 | 20.51 | N5° 01' 37.02"W | (616599.16,9252504.88) | (616597.40,9252524.86) |
| PI: 4 | 34.07 | 17.83 | N1° 05' 58.93"E | (616596.68,9252479.83) | (616597.02,9252497.45) |
| PI: 3 | 36.65 | 16.58 | N0° 55' 42.69"W | (616599.54,9252452.88) | (616599.28,9252469.32) |
| PI: 2 | 52.95 | 15.33 | N3° 44' 28.58"E | (616597.89,9252434.56) | (616598.89,9252449.81) |
| PI: 1 | 200.00 | 15.68 | N6° 47' 50.08"W | (616602.76,9252381.09) | (616600.91,9252396.65) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 28 | 32.06 | 36.86 | N27° 22' 23.88"W | (615923.63,9254357.57) | (615907.60,9254388.53) |
| PI: 27 | 145.60 | 21.76 | N56° 01' 21.15"W | (615981.15,9254322.90) | (615963.12,9254335.05) |
| PI: 26 | 14.55 | 9.20 | N69° 51' 27.47"W | (616102.61,9254230.70) | (616094.12,9254233.82) |
| PI: 25 | 17.67 | 15.32 | N63° 08' 06.68"W | (616117.97,9254223.91) | (616104.72,9254230.62) |
| PI: 24 | 65.04 | 15.17 | N44° 58' 36.49"W | (616146.94,9254190.06) | (616136.25,9254200.77) |
| PI: 23 | 95.05 | 14.95 | N56° 09' 48.76"W | (616297.41,9254072.55) | (616285.00,9254080.86) |
| PI: 22 | 23.17 | 18.96 | N37° 13' 20.26"W | (616330.75,9254045.40) | (616319.59,9254060.08) |
| PI: 21 | 99.70 | 16.31 | N18° 27' 36.06"W | (616339.00,9254017.34) | (616333.84,9254032.79) |
| PI: 20 | 40.60 | 25.16 | N5° 23' 35.49"W | (616347.16,9253979.03) | (616344.83,9254003.68) |
| PI: 19 | 81.53 | 25.06 | N3° 33' 13.08"E | (616345.61,9253954.12) | (616347.16,9253979.03) |
| PI: 18 | 333.90 | 15.08 | N3° 57' 28.08"W | (616355.91,9253838.40) | (616354.87,9253853.44) |
| PI: 17 | 15.00 | 17.19 | N50° 40' 49.38"W | (616382.03,9253653.05) | (616369.45,9253663.36) |
| PI: 16 | 20.47 | 31.56 | N39° 21' 17.27"W | (616409.82,9253629.89) | (616391.73,9253651.95) |
| PI: 15 | 78.37 | 30.61 | N6° 22' 50.35"W | (616410.64,9253569.26) | (616407.26,9253599.49) |
| PI: 14 | 75.79 | 21.66 | N9° 23' 02.57"W | (616424.95,9253513.87) | (616421.43,9253535.17) |
| PI: 13 | 84.05 | 34.50 | N12° 57' 22.22"W | (616436.94,9253274.49) | (616429.26,9253307.88) |
| PI: 12 | 189.88 | 33.40 | N19° 40' 34.29"W | (616461.29,9253214.59) | (616450.06,9253246.00) |
| PI: 11 | 244.52 | 25.14 | N17° 34' 56.63"W | (616492.26,9253101.09) | (616484.67,9253125.05) |
| PI: 10 | 81.94 | 17.17 | N14° 31' 34.01"W | (616543.01,9252960.46) | (616538.71,9252977.05) |
| PI: 9 | 85.81 | 22.78 | N0° 55' 10.41"W | (616560.92,9252820.69) | (616560.55,9252843.43) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 48 | 313.06 | 17.51 | N11° 45' 04.89"E | (615843.42,9255578.08) | (615846.89,9255595.23) |
| PI: 47 | 101.14 | 15.31 | N17° 41' 26.64"E | (615827.94,9255517.88) | (615832.59,9255532.45) |
| PI: 46 | 159.59 | 43.21 | N14° 16' 17.71"E | (615817.32,9255476.13) | (615827.94,9255517.88) |
| PI: 45 | 73.88 | 27.70 | N17° 15' 19.05"E | (615805.23,9255415.47) | (615813.40,9255441.76) |
| PI: 44 | 24.11 | 38.00 | N17° 10' 09.94"W | (615757.05,9255273.18) | (615746.96,9255305.85) |
| PI: 43 | 128.69 | 66.14 | N77° 03' 24.73"W | (615928.20,9255202.23) | (615864.45,9255216.88) |
| PI: 42 | 14.10 | 23.81 | N43° 24' 25.14"W | (615987.37,9255188.30) | (615972.88,9255203.62) |
| PI: 41 | 28.60 | 17.20 | N12° 15' 57.37"W | (615976.45,9255004.66) | (615972.85,9255021.21) |
| PI: 40 | 37.08 | 16.79 | N16° 31' 37.82"W | (616005.82,9254945.16) | (616001.08,9254961.11) |
| PI: 39 | 23.01 | 26.61 | N29° 34' 26.51"E | (615994.56,9254904.65) | (616006.97,9254926.52) |
| PI: 38 | 5.50 | 8.68 | N17° 31' 21.89"E | (615915.73,9254857.73) | (615918.08,9254865.18) |
| PI: 37 | 11.58 | 10.78 | N0° 59' 39.52"W | (615917.51,9254844.28) | (615917.33,9254854.67) |
| PI: 36 | 32.74 | 10.69 | N16° 18' 50.97"E | (615914.52,9254834.06) | (615917.51,9254844.28) |
| PI: 35 | 70.88 | 16.79 | N13° 44' 44.74"E | (615903.41,9254759.41) | (615907.40,9254775.69) |
| PI: 34 | 74.38 | 18.83 | N27° 47' 07.65"E | (615879.02,9254701.04) | (615887.77,9254717.65) |
| PI: 33 | 51.38 | 27.80 | N19° 32' 17.43"E | (615862.44,9254664.61) | (615871.63,9254690.49) |
| PI: 32 | 23.17 | 15.96 | N15° 41' 34.79"W | (615863.07,9254598.57) | (615858.84,9254613.63) |
| PI: 31 | 61.99 | 15.74 | N28° 09' 00.06"W | (615879.82,9254571.59) | (615872.42,9254585.44) |
| PI: 30 | 93.66 | 12.07 | N17° 10' 59.43"W | (615892.78,9254535.44) | (615889.22,9254546.96) |
| PI: 29 | 75.64 | 25.15 | N3° 58' 01.37"W | (615912.26,9254436.47) | (615910.53,9254461.44) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 68 | 43.18 | 11.44 | N10° 15' 09.49"W | (616384.90,9253677.47) | (616382.87,9253688.69) |
| PI: 67 | 69.94 | 59.88 | S89° 40' 21.60"W | (616683.93,9257112.33) | (616625.86,9257112.00) |
| PI: 66 | 111.71 | 41.99 | N76° 33' 57.68"W | (615750.62,9257090.91) | (615710.03,9257100.60) |
| PI: 65 | 51.69 | 42.84 | N63° 35' 29.55"W | (615818.18,9257070.98) | (615780.90,9257089.50) |
| PI: 64 | 123.88 | 36.31 | N48° 14' 48.78"W | (615881.16,9257003.78) | (615854.17,9257027.87) |
| PI: 63 | 27.66 | 23.98 | N31° 48' 48.66"W | (615928.03,9256961.25) | (615915.78,9256980.99) |
| PI: 62 | 162.11 | 20.64 | N3° 20' 09.44"W | (615934.08,9256901.03) | (615932.88,9256921.62) |
| PI: 61 | 62.87 | 16.06 | N7° 37' 45.59"E | (615930.81,9256674.65) | (615932.94,9256690.52) |
| PI: 60 | 81.36 | 16.70 | N20° 49' 36.32"E | (615916.54,9256627.83) | (615922.47,9256643.41) |
| PI: 59 | 54.26 | 39.59 | N5° 48' 10.98"E | (615905.35,9256574.85) | (615909.27,9256613.36) |
| PI: 58 | 37.51 | 23.74 | N33° 14' 07.28"W | (615939.97,9256474.43) | (615927.18,9256493.97) |
| PI: 57 | 25.54 | 20.24 | N28° 40' 23.96"W | (615971.04,9256439.87) | (615961.58,9256457.17) |
| PI: 56 | 99.33 | 24.31 | N1° 02' 04.12"E | (615991.94,9256211.82) | (615992.37,9256236.06) |
| PI: 55 | 150.30 | 17.88 | N4° 38' 10.70"E | (615981.66,9256131.51) | (615983.10,9256149.32) |
| PI: 54 | 85.28 | 15.87 | N6° 33' 29.64"E | (615977.39,9256000.86) | (615979.19,9256016.60) |
| PI: 53 | 159.87 | 9.68 | N13° 37' 21.76"E | (615969.77,9255966.11) | (615972.05,9255975.52) |
| PI: 52 | 210.38 | 23.78 | N12° 07' 05.14"E | (615959.24,9255922.68) | (615964.23,9255945.92) |
| PI: 51 | 396.31 | 23.72 | N7° 09' 53.53"E | (615928.45,9255721.06) | (615931.41,9255744.59) |
| PI: 50 | 9.23 | 14.56 | N50° 38' 39.05"E | (615914.03,9255667.70) | (615924.16,9255676.00) |
| PI: 49 | 16.81 | 25.14 | N52° 59' 36.19"E | (615858.18,9255657.78) | (615876.44,9255671.54) |

| PUNTO | ESTE (X) | NORTE (Y) | COTA (Z) | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616674.698 | 9251956.634 | 81.228 | BM1 |
| 2 | 616594.425 | 9252447.230 | 78.798 | BM2 |
| 3 | 616543.161 | 9252939.423 | 77.820 | BM3 |
| 4 | 616431.942 | 9253326.861 | 77.133 | BM4 |
| 5 | 616358.151 | 9253826.042 | 77.189 | BM5 |
| 6 | 616098.630 | 9254227.917 | 77.039 | BM6 |
| 7 | 615863.218 | 9254639.273 | 77.189 | BM7 |
| 8 | 615979.551 | 9255078.530 | 77.397 | BM8 |
| 9 | 615790.260 | 9255390.936 | 77.323 | BM9 |
| 10 | 615948.453 | 9255836.054 | 77.943 | BM10 |
| 11 | 615980.819 | 9256325.465 | 78.265 | BM11 |
| 12 | 615935.779 | 9256821.343 | 79.321 | BM12 |
| 13 | 615622.421 | 9257107.467 | 78.764 | BM13 |

| PUNTO | ESTE (X) | NORTE (Y) | COTA (Z) | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616648.154 | 9252118.023 | 79.999 | E1 |
| 2 | 616597.191 | 9252516.025 | 79.979 | E3 |
| 3 | 616562.822 | 9253026.775 | 78.085 | E4 |
| 4 | 616533.391 | 9252972.399 | 77.255 | E5 |
| 5 | 616513.849 | 9253148.049 | 77.910 | E6 |
| 6 | 616388.364 | 9253582.350 | 77.945 | E7 |
| 8 | 616366.279 | 9254002.867 | 78.365 | E8 |
| 11 | 615938.314 | 9254336.305 | 78.278 | E10 |
| 12 | 615889.410 | 9254534.649 | 77.525 | E11 |
| 13 | 615915.306 | 9254758.684 | 77.430 | E12 |
| 14 | 615969.350 | 9255013.861 | 77.652 | E13 |
| 15 | 615755.088 | 9255352.673 | 77.516 | E14 |
| 16 | 615860.710 | 9255672.816 | 77.721 | E15 |
| 17 | 615948.366 | 9255987.210 | 77.461 | E16 |
| 18 | 615994.509 | 9256212.824 | 78.435 | E17 |
| 19 | 615954.546 | 9256389.440 | 79.952 | E18 |
| 20 | 615898.215 | 9256591.145 | 80.042 | E19 |
| 21 | 615913.621 | 9256912.564 | 80.363 | E20 |
| 22 | 615767.904 | 9257001.300 | 78.221 | E21 |

ESPECIFICACIONES TÉCNICAS

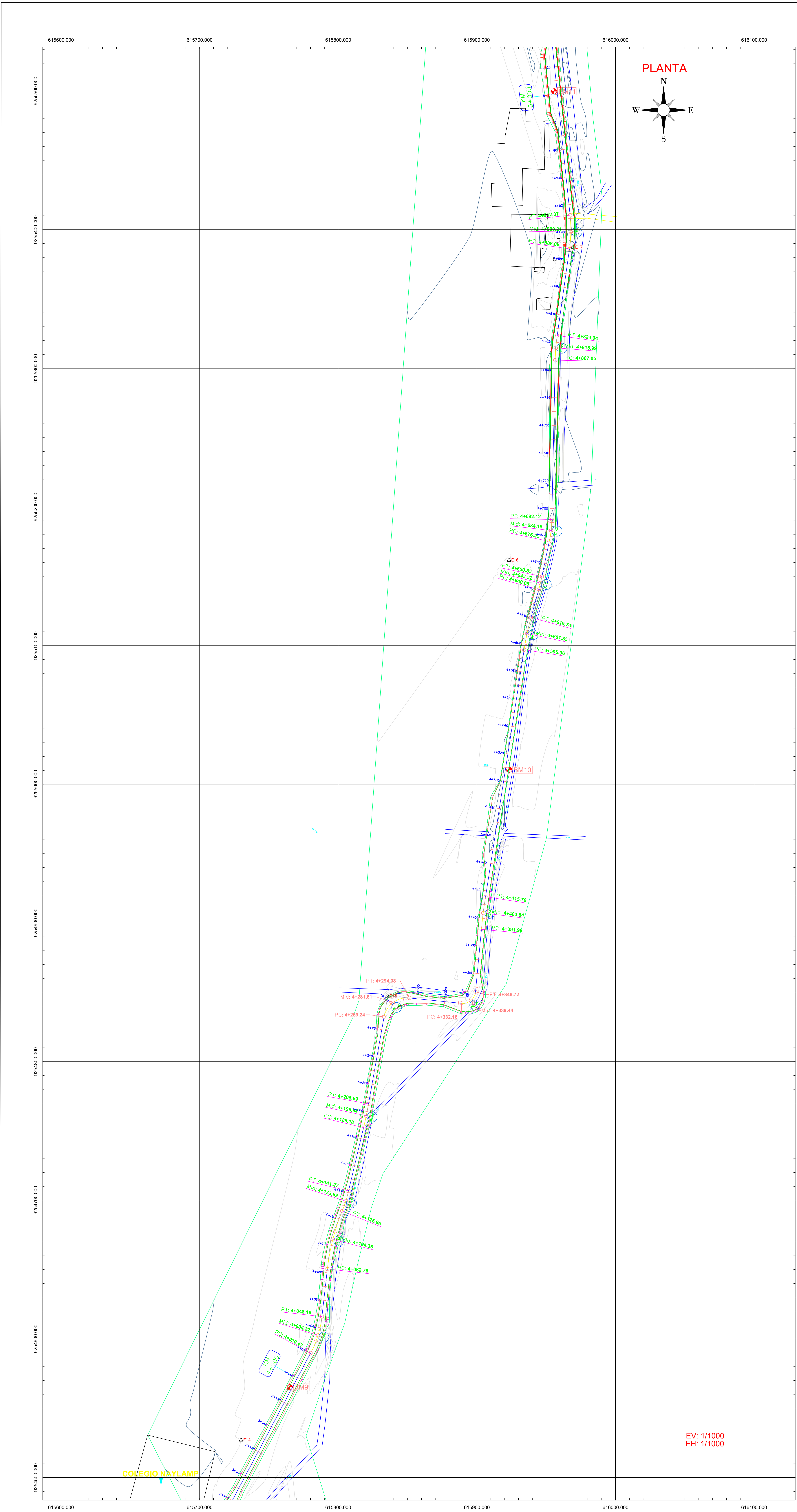
1. El sistema de coordenadas está basado en las coordenadas UTM WGS84, ZONA 17SUR.

2. Las coordenadas, progresivas, elevaciones y demás dimensiones están en metros.

| LEYENDA | |
|---------|----------------------|
| SÍMBOLO | DESCRIPCION |
| | VIVIENDAS EXISTENTES |
| | CARRETERA |
| | VIAS DE ACCESO |
| | NORTE MAGNETICO |
| | DRENE |
| | CURVAS MENORES |
| | CURVAS MAYORES |
| | PORTE DE LUZ |

| CUADRO DE CALICATAS PARA SUB - RASANTE | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| N° | Progresiva | Calicata | Prof. (m) | Coord. Este (X) | Coord. Norte (Y) |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 1.50 | 616543.161 | 9252939.423 |
| 02 | Km 02 + 000 | C - 2 | 0.0 - 1.50 | 616358.151 | 9253826.042 |
| 03 | Km 03 + 000 | C - 3 | 0.0 - 1.50 | 615863.218 | 9254639.273 |
| 04 | Km 04 + 000 | C - 4 | 0.0 - 1.50 | 615790.260 | 9255390.936 |
| 05 | km 05 + 000 | C - 5 | 0.0 - 1.50 | 615980.819 | 9256325.465 |
| 06 | km 06 + 000 | C - 6 | 0.0 - 1.50 | 615622.421 | 9257107.467 |

| CUADRO DE CALICATAS PARA BASE GRANULAR | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| N° | Progresiva | Calicata | Prof. (m) | Coord. Este (X) | Coord. Norte (Y) |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 0.50 | 616543.161 | 9252939.423 |
| 02 | Km 03 + 500 | C - 2 | 0.0 - 0.50 | 615979.551 | 9255078.530 |
| 03 | km 05 + 000 | C - 3 | 0.0 - 0.50 | 615980.819 | 9256325.465 |



| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 8 | 97.87 | 11.98 | N3° 10' 43.97"E | (616555.84,9252771.05) | (616556.50,9252783.00) |
| PI: 7 | 191.88 | 43.54 | N6° 49' 42.40"W | (616561.49,9252642.52) | (616556.32,9252685.66) |
| PI: 6 | 83.23 | 18.62 | N19° 44' 12.60"W | (616585.99,9252548.11) | (616579.72,9252565.59) |
| PI: 5 | 27.82 | 20.51 | N5° 01' 37.02"W | (616599.16,9252504.88) | (616597.40,9252524.86) |
| PI: 4 | 34.07 | 17.83 | N1° 05' 58.93"E | (616596.68,9252479.83) | (616597.02,9252497.45) |
| PI: 3 | 36.65 | 16.58 | N0° 55' 42.69"W | (616599.54,9252452.88) | (616599.28,9252469.32) |
| PI: 2 | 52.95 | 15.33 | N3° 44' 28.58"E | (616597.89,9252434.56) | (616598.89,9252449.81) |
| PI: 1 | 200.00 | 15.68 | N6° 47' 50.08"W | (616602.76,9252381.09) | (616600.91,9252396.65) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 28 | 32.06 | 36.86 | N27° 22' 23.88"W | (615923.63,9254357.57) | (615907.60,9254388.53) |
| PI: 27 | 145.60 | 21.76 | N56° 01' 21.15"W | (615981.15,9254322.90) | (615963.12,9254335.05) |
| PI: 26 | 14.55 | 9.20 | N69° 51' 27.47"W | (616102.61,9254230.70) | (616094.12,9254233.82) |
| PI: 25 | 17.67 | 15.32 | N63° 08' 06.68"W | (616117.97,9254223.91) | (616104.72,9254230.62) |
| PI: 24 | 65.04 | 15.17 | N44° 58' 36.49"W | (616146.94,9254190.06) | (616136.25,9254200.77) |
| PI: 23 | 95.05 | 14.95 | N56° 09' 48.76"W | (616297.41,9254072.55) | (616285.00,9254080.86) |
| PI: 22 | 23.17 | 18.96 | N37° 13' 20.26"W | (616330.75,9254045.40) | (616319.59,9254060.08) |
| PI: 21 | 99.70 | 16.31 | N18° 27' 36.06"W | (616339.00,9254017.34) | (616333.84,9254032.79) |
| PI: 20 | 40.60 | 25.16 | N5° 23' 35.49"W | (616347.16,9253979.03) | (616344.83,9254003.68) |
| PI: 19 | 81.53 | 25.06 | N3° 33' 13.08"E | (616345.61,9253954.12) | (616347.16,9253979.03) |
| PI: 18 | 333.90 | 15.08 | N3° 57' 28.08"W | (616355.91,9253838.40) | (616354.87,9253853.44) |
| PI: 17 | 15.00 | 17.19 | N50° 40' 49.38"W | (616382.03,9253653.05) | (616369.45,9253663.36) |
| PI: 16 | 20.47 | 31.56 | N39° 21' 17.27"W | (616409.82,9253629.89) | (616391.73,9253651.95) |
| PI: 15 | 78.37 | 30.61 | N6° 22' 50.35"W | (616410.64,9253569.26) | (616407.26,9253599.49) |
| PI: 14 | 75.79 | 21.66 | N9° 23' 02.57"W | (616424.95,9253513.87) | (616421.43,9253535.17) |
| PI: 13 | 84.05 | 34.50 | N12° 57' 22.22"W | (616436.94,9253274.49) | (616429.26,9253307.88) |
| PI: 12 | 189.88 | 33.40 | N19° 40' 34.29"W | (616461.29,9253214.59) | (616450.06,9253246.00) |
| PI: 11 | 244.52 | 25.14 | N17° 34' 56.63"W | (616492.26,9253101.09) | (616484.67,9253125.05) |
| PI: 10 | 81.94 | 17.17 | N14° 31' 34.01"W | (616543.01,9252960.46) | (616538.71,9252977.05) |
| PI: 9 | 85.81 | 22.78 | N0° 55' 10.41"W | (616560.92,9252820.69) | (616560.55,9252843.40) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 48 | 313.06 | 17.51 | N11° 45' 04.89"E | (615843.42,9255578.08) | (615846.99,9255595.23) |
| PI: 47 | 101.14 | 15.31 | N17° 41' 26.64"E | (615827.94,9255517.88) | (615832.59,9255532.45) |
| PI: 46 | 159.59 | 43.21 | N14° 16' 17.71"E | (615817.32,9255476.13) | (615827.94,9255517.88) |
| PI: 45 | 73.88 | 27.70 | N17° 15' 19.05"E | (615805.23,9255415.47) | (615813.40,9255441.76) |
| PI: 44 | 24.11 | 38.00 | N17° 10' 09.94"W | (615757.05,9255273.18) | (615746.96,9255305.85) |
| PI: 43 | 128.69 | 66.14 | N77° 03' 24.73"W | (615928.20,9255202.23) | (615864.45,9255216.88) |
| PI: 42 | 14.10 | 23.81 | N43° 24' 25.14"W | (615987.37,9255188.30) | (615972.88,9255203.62) |
| PI: 41 | 28.60 | 17.20 | N12° 15' 57.37"W | (615976.45,9255004.66) | (615972.85,9255021.21) |
| PI: 40 | 37.08 | 16.79 | N16° 31' 37.82"W | (616005.82,9254945.16) | (616001.08,9254961.11) |
| PI: 39 | 23.01 | 26.61 | N29° 34' 26.51"E | (615994.56,9254904.65) | (616006.97,9254926.52) |
| PI: 38 | 5.50 | 8.68 | N17° 31' 21.89"E | (615915.73,9254857.73) | (615918.08,9254865.18) |
| PI: 37 | 11.58 | 10.78 | N0° 59' 39.52"W | (615917.51,9254844.28) | (615917.33,9254854.67) |
| PI: 36 | 32.74 | 10.69 | N16° 18' 50.97"E | (615914.52,9254834.06) | (615917.51,9254844.28) |
| PI: 35 | 70.88 | 16.79 | N13° 44' 44.74"E | (615903.41,9254759.41) | (615907.40,9254775.69) |
| PI: 34 | 74.38 | 18.83 | N27° 47' 07.65"E | (615879.02,9254701.04) | (615887.77,9254717.65) |
| PI: 33 | 51.38 | 27.80 | N19° 32' 17.43"E | (615862.44,9254664.61) | (615871.63,9254690.49) |
| PI: 32 | 23.17 | 15.96 | N15° 41' 34.79"W | (615863.07,9254598.57) | (615858.84,9254613.63) |
| PI: 31 | 61.99 | 15.74 | N28° 09' 00.06"W | (615879.82,9254571.59) | (615872.42,9254585.44) |
| PI: 30 | 93.66 | 12.07 | N17° 10' 59.43"W | (615892.78,9254535.44) | (615889.22,9254546.96) |
| PI: 29 | 75.64 | 25.15 | N3° 58' 01.37"W | (615912.26,9254436.47) | (615910.53,9254461.44) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 68 | 43.18 | 11.44 | N10° 15' 09.49"W | (616384.90,9253677.47) | (616362.87,9253688.69) |
| PI: 67 | 69.94 | 59.88 | S89° 40' 21.60"W | (616683.93,9257112.33) | (616625.86,9257112.00) |
| PI: 66 | 111.71 | 41.99 | N76° 33' 57.68"W | (615750.62,9257090.91) | (615710.03,9257100.60) |
| PI: 65 | 51.69 | 42.84 | N63° 35' 29.55"W | (615818.18,9257070.98) | (615780.90,9257089.50) |
| PI: 64 | 123.88 | 36.31 | N48° 14' 48.78"W | (615881.16,9257003.78) | (615854.17,9257027.87) |
| PI: 63 | 27.66 | 23.98 | N31° 48' 48.66"W | (615928.03,9256961.25) | (615915.78,9256980.99) |
| PI: 62 | 162.11 | 20.64 | N3° 20' 09.44"W | (615934.08,9256901.03) | (615932.88,9256921.62) |
| PI: 61 | 62.87 | 16.06 | N7° 37' 45.59"E | (615930.81,9256674.65) | (615932.94,9256690.52) |
| PI: 60 | 81.36 | 16.70 | N20° 49' 36.32"E | (615916.54,9256627.83) | (615922.47,9256643.41) |
| PI: 59 | 54.26 | 39.59 | N5° 48' 10.98"E | (615905.35,9256574.85) | (615909.27,9256613.36) |
| PI: 58 | 37.51 | 23.74 | N33° 14' 07.28"W | (615939.97,9256474.43) | (615927.18,9256493.97) |
| PI: 57 | 25.54 | 20.24 | N28° 40' 23.96"W | (615971.04,9256439.87) | (615961.58,9256457.17) |
| PI: 56 | 99.33 | 24.31 | N1° 02' 04.12"E | (615991.94,9256211.82) | (615992.37,9256236.06) |
| PI: 55 | 150.30 | 17.88 | N4° 38' 10.70"E | (615981.66,9256131.51) | (615983.10,9256149.32) |
| PI: 54 | 85.28 | 15.87 | N6° 33' 29.64"E | (615977.39,9256000.86) | (615979.19,9256016.60) |
| PI: 53 | 159.87 | 9.68 | N13° 37' 21.76"E | (615969.77,9255966.11) | (615972.05,9255955.52) |
| PI: 52 | 210.38 | 23.78 | N12° 07' 05.14"E | (615959.24,9255922.68) | (615964.23,9255945.92) |
| PI: 51 | 396.31 | 23.72 | N7° 09' 53.53"E | (615928.45,9255721.06) | (615931.41,9255744.59) |
| PI: 50 | 9.23 | 14.56 | N50° 38' 39.05"E | (615914.03,9255667.70) | (615924.16,9255676.00) |
| PI: 49 | 16.81 | 25.14 | N52° 59' 36.19"E | (615858.18,9255657.78) | (615876.44,9255671.54) |

| PUNTO | ESTE (X) | NORTE (Y) | COTA (Z) | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616674.698 | 9251956.634 | 81.228 | BM1 |
| 2 | 616594.425 | 9252447.230 | 78.798 | BM2 |
| 3 | 616543.161 | 9252939.423 | 77.820 | BM3 |
| 4 | 616431.942 | 9253326.861 | 77.133 | BM4 |
| 5 | 616358.151 | 9253826.042 | 77.189 | BM5 |
| 6 | 616098.630 | 9254227.917 | 77.039 | BM6 |
| 7 | 615863.218 | 9254639.273 | 77.189 | BM7 |
| 8 | 615979.551 | 9255078.530 | 77.397 | BM8 |
| 9 | 615790.260 | 9255390.936 | 77.323 | BM9 |
| 10 | 615948.453 | 9255836.054 | 77.943 | BM10 |
| 11 | 615980.819 | 9256325.465 | 78.265 | BM11 |
| 12 | 615935.779 | 9256821.343 | 79.321 | BM12 |
| 13 | 615622.421 | 9257107.467 | 78.764 | BM13 |

| PUNTO | ESTE (X) | NORTE (Y) | COTA (Z) | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616648.154 | 9252118.023 | 79.999 | E1 |
| 2 | 616997.191 | 9252516.025 | 79.979 | E3 |
| 3 | 616562.822 | 9253626.775 | 78.085 | E4 |
| 4 | 616533.391 | 9252972.399 | 77.255 | E5 |
| 5 | 616513.849 | 9253148.049 | 77.910 | E6 |
| 6 | 616388.364 | 9253582.350 | 77.945 | E7 |
| 8 | 616366.279 | 9254002.867 | 78.365 | E8 |
| 11 | 615938.314 | 9254386.305 | 78.278 | E10 |
| 12 | 615889.410 | 9254534.649 | 77.525 | E11 |
| 13 | 615915.306 | 9254758.684 | 77.430 | E12 |
| 14 | 615969.350 | 9255013.861 | 77.652 | E13 |
| 15 | 615755.088 | 9255352.673 | 77.516 | E14 |
| 16 | 615860.710 | 9255677.818 | 77.721 | E15 |
| 17 | 615948.366 | 9255987.210 | 77.463 | E16 |
| 18 | 615994.509 | 9256212.824 | 78.435 | E17 |
| 19 | 615954.546 | 9256389.440 | 79.952 | E18 |
| 20 | 615898.215 | 9256591.145 | 80.042 | E19 |
| 21 | 615913.621 | 9256912.564 | 80.363 | E20 |
| 22 | 615767.904 | 9257001.900 | 78.221 | E21 |

ESPECIFICACIONES TÉCNICAS

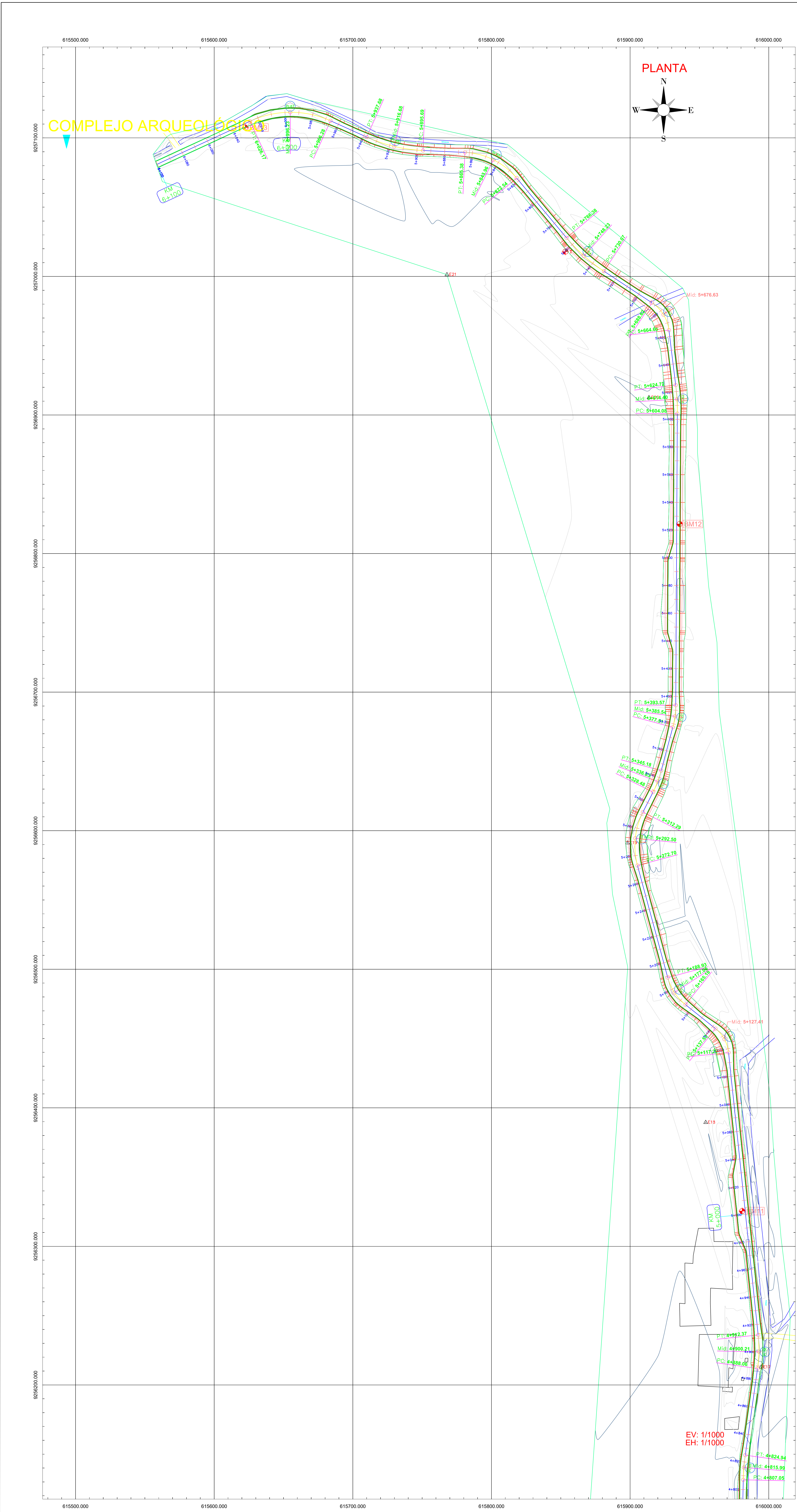
1. El sistema de coordenadas está basado en las coordenadas UTM WGS84, ZONA 17SUR.

2. Las coordenadas, progresivas, elevaciones y demás dimensiones están en metros.

| LEYENDA | |
|---------|----------------------|
| SÍMBOLO | DESCRIPCION |
| | VIVIENDAS EXISTENTES |
| | CARRETERA |
| | VÍAS DE ACCESO |
| | NORTE MAGNETICO |
| | DREÑES |
| | CURVAS MENORES |
| | CURVAS MAYORES |
| | POSTE DE LUZ |

| CUADRO DE CALICATAS PARA SUB - RASANTE | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| Nº | Progresiva | Calicata | Prof. (m) | Coord. Este (X) | Coord. Norte (Y) |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 1.50 | 616543.161 | 9252939.423 |
| 02 | Km 02 + 000 | C - 2 | 0.0 - 1.50 | 616358.151 | 9253826.042 |
| 03 | Km 03 + 000 | C - 3 | 0.0 - 1.50 | 615863.218 | 9254639.273 |
| 04 | Km 04 + 000 | C - 4 | 0.0 - 1.50 | 615790.260 | 9255390.936 |
| 05 | km 05 + 000 | C - 5 | 0.0 - 1.50 | 615980.819 | 9256325.465 |
| 06 | km 06 + 000 | C - 6 | 0.0 - 1.50 | 615622.421 | 9257107.467 |

| CUADRO DE CALICATAS PARA BASE GRANULAR | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| Nº | Progresiva | Calicata | Prof. (m) | Coord. Este (X) | Coord. Norte (Y) |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 0.50 | 616543.161 | 9252939.423 |
| 02 | Km 03 + 500 | C - 2 | 0.0 - 0.50 | 615979.551 | 9255078.530 |
| 03 | km 05 + 000 | C - 3 | 0.0 - 0.50 | 615980.819 | 9256325.465 |



| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|-----------------------|-----------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 8 | 97.87 | 11.98 | N3° 10' 43.97"E | (61555.84,9252771.05) | (61556.50,9252783.00) |
| PI: 7 | 191.88 | 43.54 | N6° 49' 42.40"W | (61561.49,9252642.52) | (61556.32,9252685.66) |
| PI: 6 | 83.23 | 18.62 | N19° 44' 12.60"W | (61585.99,9252548.11) | (61579.72,9252565.59) |
| PI: 5 | 27.82 | 20.51 | N5° 01' 37.02"W | (61599.16,9252504.88) | (61597.40,9252524.86) |
| PI: 4 | 34.07 | 17.83 | N1° 05' 58.93"E | (61596.68,9252479.83) | (61597.02,9252497.45) |
| PI: 3 | 36.65 | 16.58 | N0° 55' 42.69"W | (61599.54,9252452.88) | (61599.28,9252469.32) |
| PI: 2 | 52.95 | 15.33 | N3° 44' 28.58"E | (61597.89,9252434.56) | (61598.89,9252449.81) |
| PI: 1 | 200.00 | 15.68 | N6° 47' 50.08"W | (61602.76,9252381.09) | (61600.91,9252396.65) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 28 | 32.06 | 36.86 | N27° 22' 23.88"W | (615923.63,9254357.57) | (615907.60,9254388.53) |
| PI: 27 | 145.60 | 21.76 | N56° 01' 21.15"W | (615981.15,9254322.90) | (615963.12,9254335.05) |
| PI: 26 | 14.55 | 9.20 | N69° 51' 27.47"W | (616102.61,9254230.70) | (616094.12,9254233.82) |
| PI: 25 | 17.67 | 15.32 | N63° 08' 06.68"W | (616117.97,9254223.91) | (616104.72,9254230.62) |
| PI: 24 | 65.04 | 15.17 | N44° 58' 36.49"W | (616146.94,9254190.06) | (616136.25,9254200.77) |
| PI: 23 | 95.05 | 14.95 | N56° 09' 48.76"W | (616297.41,9254072.55) | (616285.00,9254080.86) |
| PI: 22 | 23.17 | 18.96 | N37° 13' 20.26"W | (616330.75,9254045.40) | (616319.59,9254060.08) |
| PI: 21 | 99.70 | 16.31 | N18° 27' 36.06"W | (616339.00,9254017.34) | (616333.84,9254032.79) |
| PI: 20 | 40.60 | 25.16 | N5° 23' 35.49"W | (616347.16,9253979.03) | (616344.83,9254003.68) |
| PI: 19 | 81.53 | 25.06 | N3° 33' 13.08"E | (616345.61,9253954.12) | (616347.16,9253979.03) |
| PI: 18 | 333.90 | 15.08 | N3° 57' 28.08"W | (616355.91,9253838.40) | (616354.87,9253853.44) |
| PI: 17 | 15.00 | 17.19 | N50° 40' 49.38"W | (616382.03,9253653.05) | (616369.45,9253663.36) |
| PI: 16 | 20.47 | 31.56 | N39° 21' 17.27"W | (616409.82,9253629.89) | (616391.73,9253651.95) |
| PI: 15 | 78.37 | 30.61 | N6° 22' 50.35"W | (616410.64,9253569.26) | (616407.26,9253599.49) |
| PI: 14 | 75.79 | 21.66 | N9° 23' 02.57"W | (616424.95,9253513.87) | (616421.43,9253535.17) |
| PI: 13 | 84.05 | 34.50 | N12° 57' 22.22"W | (616436.94,9253274.49) | (616429.26,9253307.88) |
| PI: 12 | 189.88 | 33.40 | N19° 40' 34.29"W | (616461.29,9253214.59) | (616450.06,9253246.00) |
| PI: 11 | 244.52 | 25.14 | N17° 34' 56.63"W | (616492.26,9253101.09) | (616484.67,9253125.05) |
| PI: 10 | 81.94 | 17.17 | N14° 31' 34.01"W | (616543.01,9252960.46) | (616538.71,9252977.05) |
| PI: 9 | 85.81 | 22.78 | N0° 55' 10.41"W | (616560.92,9252820.69) | (616560.55,9252843.40) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 48 | 313.06 | 17.51 | N11° 45' 04.89"E | (615843.42,9255578.08) | (615846.99,9255595.23) |
| PI: 47 | 101.14 | 15.31 | N17° 41' 26.64"E | (615827.94,9255517.88) | (615832.59,9255532.45) |
| PI: 46 | 159.59 | 43.21 | N14° 16' 17.71"E | (615817.32,9255476.13) | (615827.94,9255517.88) |
| PI: 45 | 73.88 | 27.70 | N17° 15' 19.05"E | (615805.23,9255415.47) | (615813.40,9255441.76) |
| PI: 44 | 24.11 | 38.00 | N17° 10' 09.94"W | (615757.05,9255273.18) | (615746.96,9255305.85) |
| PI: 43 | 128.69 | 66.14 | N77° 03' 24.73"W | (615928.20,9255202.23) | (615864.45,9255216.88) |
| PI: 42 | 14.10 | 23.81 | N43° 24' 25.14"W | (615987.37,9255188.30) | (615972.88,9255203.62) |
| PI: 41 | 28.60 | 17.20 | N12° 15' 57.37"W | (615976.45,9255004.66) | (615972.85,9255021.21) |
| PI: 40 | 37.08 | 16.79 | N16° 31' 37.82"W | (616005.82,9254945.16) | (616001.08,9254961.11) |
| PI: 39 | 23.01 | 26.61 | N29° 34' 26.51"E | (615994.56,9254904.65) | (616006.97,9254926.52) |
| PI: 38 | 5.50 | 8.68 | N17° 31' 21.89"E | (615915.73,9254857.73) | (615918.08,9254865.18) |
| PI: 37 | 11.58 | 10.78 | N0° 59' 39.52"W | (615917.51,9254844.28) | (615917.33,9254854.67) |
| PI: 36 | 32.74 | 10.69 | N16° 18' 50.97"E | (615914.52,9254834.06) | (615917.51,9254844.28) |
| PI: 35 | 70.88 | 16.79 | N13° 44' 44.74"E | (615903.41,9254759.41) | (615907.40,9254775.69) |
| PI: 34 | 74.38 | 18.83 | N27° 47' 07.65"E | (615879.02,9254701.04) | (615887.77,9254717.65) |
| PI: 33 | 51.38 | 27.80 | N19° 32' 17.43"E | (615862.44,9254664.61) | (615871.63,9254690.49) |
| PI: 32 | 23.17 | 15.96 | N15° 41' 34.79"W | (615863.07,9254598.57) | (615858.84,9254613.63) |
| PI: 31 | 61.99 | 15.74 | N28° 09' 00.06"W | (615879.82,9254571.59) | (615872.42,9254585.44) |
| PI: 30 | 93.66 | 12.07 | N17° 10' 59.43"W | (615892.78,9254535.44) | (615889.22,9254546.96) |
| PI: 29 | 75.64 | 25.15 | N3° 58' 01.37"W | (615912.26,9254436.47) | (615910.53,9254461.44) |

| ELEMENTOS DE CURVA : ALINEAMIENTO HORIZONTAL | | | | | |
|--|--------|----------|------------------|------------------------|------------------------|
| NUMERO DE CURVA | RADIO | LONGITUD | DIRECCION | PUNTO INICIAL | PUNTO FINAL |
| PI: 68 | 43.18 | 11.44 | N10° 15' 09.49"W | (616364.90,9253677.47) | (616362.87,9253688.69) |
| PI: 67 | 69.94 | 59.88 | S89° 40' 21.60"W | (615683.93,9257112.33) | (615625.86,9257112.00) |
| PI: 66 | 111.71 | 41.99 | N76° 33' 57.68"W | (615750.62,9257090.91) | (615710.03,9257100.60) |
| PI: 65 | 51.69 | 42.84 | N63° 35' 29.55"W | (615818.18,9257070.98) | (615780.90,9257089.50) |
| PI: 64 | 123.88 | 36.31 | N48° 14' 48.78"W | (615881.16,9257003.78) | (615854.17,9257027.87) |
| PI: 63 | 27.66 | 23.98 | N31° 48' 48.66"W | (615928.03,9256961.25) | (615915.78,9256980.99) |
| PI: 62 | 162.11 | 20.64 | N3° 20' 09.44"W | (615934.08,9256901.03) | (615932.88,9256921.62) |
| PI: 61 | 62.87 | 16.06 | N7° 37' 45.59"E | (615930.81,9256674.65) | (615932.94,9256690.52) |
| PI: 60 | 81.36 | 16.70 | N20° 49' 36.32"E | (615916.54,9256627.83) | (615922.47,9256643.41) |
| PI: 59 | 54.26 | 39.59 | N5° 48' 10.98"E | (615905.35,9256574.85) | (615909.27,9256613.36) |
| PI: 58 | 37.51 | 23.74 | N33° 14' 07.28"W | (615939.97,9256474.43) | (615927.18,9256493.97) |
| PI: 57 | 25.54 | 20.24 | N28° 40' 23.96"W | (615971.04,9256439.87) | (615961.58,9256457.17) |
| PI: 56 | 99.33 | 24.31 | N1° 02' 04.12"E | (615991.94,9256211.82) | (615992.37,9256236.06) |
| PI: 55 | 150.30 | 17.88 | N4° 38' 10.70"E | (615981.66,9256131.51) | (615983.10,9256149.32) |
| PI: 54 | 85.28 | 15.87 | N6° 33' 29.64"E | (615977.39,9256000.86) | (615979.19,9256016.60) |
| PI: 53 | 159.87 | 9.68 | N13° 37' 21.76"E | (615969.77,9255966.11) | (615972.05,9255975.52) |
| PI: 52 | 210.38 | 23.78 | N12° 07' 05.14"E | (615959.24,9255922.68) | (615964.23,9255945.92) |
| PI: 51 | 396.31 | 23.72 | N7° 09' 53.53"E | (615928.45,9255721.06) | (615931.41,9255744.59) |
| PI: 50 | 9.23 | 14.56 | N50° 38' 39.05"E | (615914.03,9255667.70) | (615924.16,9255676.00) |
| PI: 49 | 16.81 | 25.14 | N52° 59' 36.19"E | (615858.18,9255657.78) | (615876.44,9255671.54) |

| PUNTO | ESTE (X) | NORTE (Y) | COTA (Z) | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616674.698 | 9251956.634 | 81.228 | BM1 |
| 2 | 616594.425 | 9252447.230 | 78.798 | BM2 |
| 3 | 616543.161 | 9252939.423 | 77.820 | BM3 |
| 4 | 616431.942 | 9253326.861 | 77.133 | BM4 |
| 5 | 616358.151 | 9253826.042 | 77.189 | BM5 |
| 6 | 616098.630 | 9254227.917 | 77.039 | BM6 |
| 7 | 615863.218 | 9254639.273 | 77.189 | BM7 |
| 8 | 615979.551 | 9255078.530 | 77.397 | BM8 |
| 9 | 615790.260 | 9255390.936 | 77.323 | BM9 |
| 10 | 615948.453 | 9255836.054 | 77.943 | BM10 |
| 11 | 615980.819 | 9256325.465 | 78.265 | BM11 |
| 12 | 615935.779 | 9256821.343 | 79.321 | BM12 |
| 13 | 615622.421 | 9257107.467 | 78.764 | BM13 |

| PUNTO | ESTE (X) | NORTE (Y) | COTA (Z) | DESCRIPCION |
|-------|------------|-------------|----------|-------------|
| 1 | 616648.154 | 9252118.023 | 79.999 | E1 |
| 2 | 616597.191 | 925216.025 | 79.979 | E3 |
| 3 | 616562.822 | 925266.775 | 78.085 | E4 |
| 4 | 616535.391 | 925292.399 | 77.255 | E5 |
| 5 | 616513.849 | 925348.049 | 77.910 | E6 |
| 6 | 616388.364 | 925382.350 | 77.945 | E7 |
| 8 | 616366.279 | 925400.867 | 78.365 | E8 |
| 11 | 615938.314 | 9254336.305 | 78.278 | E10 |
| 12 | 615889.410 | 9254534.649 | 77.525 | E11 |
| 13 | 615915.306 | 925478.694 | 77.430 | E12 |
| 14 | 615969.350 | 925501.861 | 77.652 | E13 |
| 15 | 615755.088 | 925535.673 | 77.516 | E14 |
| 16 | 615860.710 | 9255672.816 | 77.721 | E15 |
| 17 | 615948.366 | 9255987.210 | 77.461 | E16 |
| 18 | 615994.529 | 9256212.824 | 78.435 | E17 |
| 19 | 615954.546 | 9256389.440 | 79.952 | E18 |
| 20 | 615898.215 | 9256591.145 | 80.042 | E19 |
| 21 | 615913.621 | 9256912.564 | 80.363 | E20 |
| 22 | 615767.904 | 9257001.300 | 78.221 | E21 |

ESPECIFICACIONES TÉCNICAS

1. El sistema de coordenadas está basado en las coordenadas UTM WGS84, ZONA 17SUR.

2. Las coordenadas, progresivas, elevaciones y demás dimensiones están en metros.

| LEYENDA | |
|---------|----------------------|
| SÍMBOLO | DESCRIPCION |
| | VIVIENDAS EXISTENTES |
| | CARRETERA |
| | VIAS DE ACCESO |
| | NORTE MAGNETICO |
| | DRENESES |
| | CURVAS MENORES |
| | CURVAS MAYORES |
| | POSTE DE LUZ |

| CUADRO DE CALICATAS PARA SUB - RASANTE | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| N° | Progresiva | Calicata | Prof. (m) | Coord. Este (X) | Coord. Norte (Y) |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 1.50 | 616543.161 | 9252939.423 |
| 02 | Km 02 + 000 | C - 2 | 0.0 - 1.50 | 616358.151 | 9253826.042 |
| 03 | Km 03 + 000 | C - 3 | 0.0 - 1.50 | 615863.218 | 9254639.273 |
| 04 | Km 04 + 000 | C - 4 | 0.0 - 1.50 | 615790.260 | 9255390.936 |
| 05 | km 05 + 000 | C - 5 | 0.0 - 1.50 | 615980.819 | 9256325.465 |
| 06 | km 06 + 000 | C - 6 | 0.0 - 1.50 | 615622.421 | 9257107.467 |

| CUADRO DE CALICATAS PARA BASE GRANULAR | | | | | |
|--|-------------|----------|------------|-----------------|------------------|
| N° | Progresiva | Calicata | Prof. (m) | Coord. Este (X) | Coord. Norte (Y) |
| 01 | Km 01 + 000 | C - 1 | 0.0 - 0.50 | 616543.161 | 9252939.423 |
| 02 | Km 03 + 500 | C - 2 | 0.0 - 0.50 | 615979.551 | 9255078.530 |
| 03 | km 05 + 000 | C - 3 | 0.0 - 0.50 | 615980.819 | 9256325.465 |