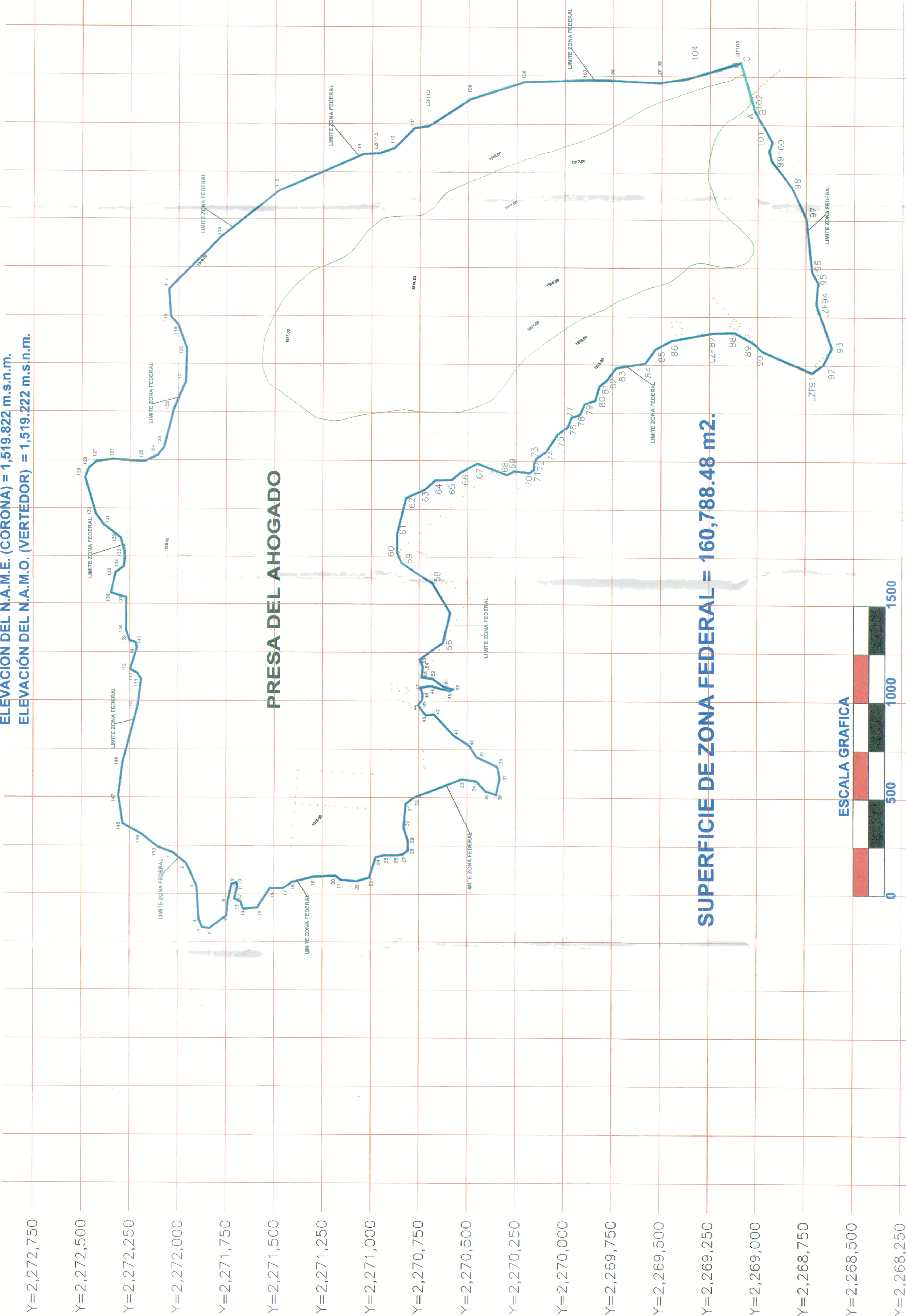


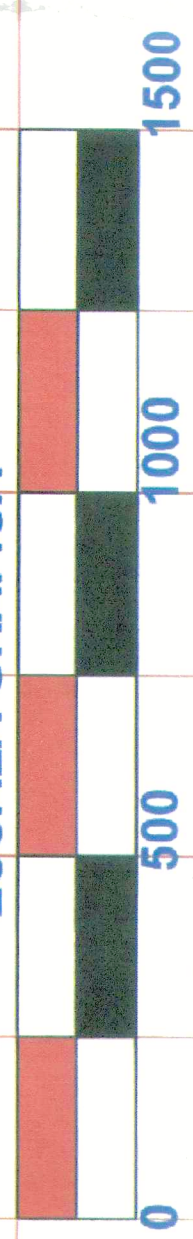
# PRESA EL AHOGADO

ESCALA 1:10,000

ELEVACIÓN DEL N.A.M.E. (CORONA) = 1,519.822 m.s.n.m.  
ELEVACIÓN DEL N.A.M.O. (VERTEDOR) = 1,519.222 m.s.n.m.



ESCALA GRAFICA



Y=2,272,750

Y=2,272,500

Y=2,272,250

Y=2,272,000

Y=2,271,750

Y=2,271,500

Y=2,271,250

Y=2,271,000

Y=2,270,750

Y=2,270,500

Y=2,270,250

Y=2,270,000

Y=2,269,750

Y=2,269,500

Y=2,269,250

Y=2,269,000

Y=2,268,750

Y=2,268,500

Y=2,268,250

Y=2,268,000

Y=2,267,750

Y=2,267,500

Y=2,267,250

Y=2,267,000

Y=2,266,750

# CUADROS DE CONSTRUCCIÓN DEL VASO

| CUADRO DE CONSTRUCCION VASO COMPLETO (primera parte) |    |                  |           |    |                |              |          |     |                  |
|------------------------------------------------------|----|------------------|-----------|----|----------------|--------------|----------|-----|------------------|
| LADO EST                                             | PV | RUMBO            | DISTANCIA | V  | Y              | X            | LADO EST | PV  | RUMBO            |
| 1                                                    | 2  | S 39°46'44.68" W | 84.999    | 1  | 2,272,025.4299 | 678.209.4831 | 68       | 70  | S 08°23'00.37" W |
| 2                                                    | 3  | S 64°34'48.88" W | 120.066   | 2  | 2,271,980.1087 | 678.159.0782 | 70       | 71  | S 33°53'42.18" E |
| 3                                                    | 4  | S 86°19'20.80" W | 173.223   | 3  | 2,271,806.4224 | 678.042.1100 | 71       | 72  | S 2,270,152.5449 |
| 4                                                    | 5  | S 65°48'11.20" W | 48.712    | 4  | 2,271,855.2098 | 677.869.2142 | 72       | 73  | S 85°34'30.46" E |
| 5                                                    | 6  | S 69°48'13.83" W | 43.376    | 5  | 2,271,875.7421 | 677.823.5257 | 73       | 74  | S 32°52'42.16" E |
| 6                                                    | 7  | S 38°30'43.07" E | 113.234   | 6  | 2,271,832.9574 | 677.816.3887 | 74       | 75  | S 2,270,094.3371 |
| 7                                                    | 8  | S 84°32'46.18" E | 86.245    | 7  | 2,271,741.9476 | 677.883.7618 | 75       | 76  | S 58°29'59.86" E |
| 8                                                    | 9  | S 77°16'11.32" E | 86.669    | 8  | 2,271,715.2226 | 677.863.6436 | 76       | 77  | S 35°51'44.16" E |
| 9                                                    | 10 | S 18°27'00.57" E | 184.779   | 9  | 2,271,697.6935 | 678.046.1810 | 77       | 78  | S 68°54'59.79" E |
| 10                                                   | 11 | S 76°58'19.31" W | 14.498    | 10 | 2,271,684.8530 | 678.038.6142 | 78       | 79  | S 17°22'06.55" E |
| 11                                                   | 12 | S 78°28'40.48" W | 70.213    | 11 | 2,271,711.7201 | 677.971.5479 | 79       | 80  | S 16°42'47.57" E |
| 12                                                   | 13 | S 26°50'07.48" W | 39.462    | 12 | 2,271,679.9627 | 677.953.6785 | 80       | 81  | S 73°40'48.37" E |
| 13                                                   | 14 | S 71°54'48.36" W | 30.046    | 13 | 2,271,653.6251 | 677.916.8339 | 81       | 82  | S 38°10'54.37" E |
| 14                                                   | 15 | S 04°50'04.20" E | 79.896    | 14 | 2,271,594.0336 | 677.933.4338 | 82       | 83  | S 53°09'19.81" E |
| 15                                                   | 16 | S 57°01'36.85" E | 113.336   | 15 | 2,271,519.0330 | 677.923.5838 | 83       | 84  | S 02°25'06.37" E |
| 16                                                   | 17 | S 00°00'00" E    | 68.703    | 16 | 2,271,519.0330 | 677.923.5838 | 84       | 85  | S 53°51'52.48" E |
| 17                                                   | 18 | S 36°21'03.71" E | 58.475    | 17 | 2,271,452.3318 | 678.022.3628 | 85       | 86  | S 89°00'13.71" E |
| 18                                                   | 19 | S 14°08'27.25" E | 113.244   | 18 | 2,271,405.1464 | 678.081.1241 | 86       | 87  | S 12°14'40.37" E |
| 19                                                   | 20 | S 02°40'05.96" E | 117.050   | 19 | 2,271,295.3340 | 678.085.7907 | 87       | 88  | S 23°02'30.36" E |
| 20                                                   | 21 | S 58°10'34.36" W | 54.844    | 20 | 2,271,183.4184 | 678.091.2695 | 88       | 89  | S 23°02'30.36" E |
| 21                                                   | 22 | S 14°12'56.36" W | 83.676    | 21 | 2,271,156.2188 | 678.088.4908 | 89       | 90  | S 41°19'42.11" W |
| 22                                                   | 23 | S 15°59'42.27" E | 71.030    | 22 | 2,271,072.7692 | 678.083.3395 | 90       | 91  | S 21°19'33.17" W |
| 23                                                   | 24 | S 12°02'53.87" E | 110.286   | 23 | 2,271,004.4895 | 678.082.9120 | 91       | 92  | S 36°24'30.84" E |
| 24                                                   | 25 | S 14°02'53.87" E | 38.937    | 24 | 2,270,933.1091 | 678.187.9823 | 92       | 93  | S 52°45'15.86" E |
| 25                                                   | 26 | S 00°00'00" E    | 66.569    | 25 | 2,270,868.5401 | 678.197.4037 | 93       | 94  | S 70°14'42.50" E |
| 26                                                   | 27 | S 59°28'13.87" E | 37.217    | 26 | 2,270,839.8398 | 678.203.5274 | 94       | 95  | S 85°42'52.65" E |
| 27                                                   | 28 | S 36°53'39.37" E | 55.352    | 27 | 2,270,801.6577 | 678.224.7504 | 95       | 96  | S 82°22'29.45" E |
| 28                                                   | 29 | N 8°00'00" E     | 50.675    | 28 | 2,270,801.6577 | 678.224.7504 | 96       | 97  | N 83°40'34.67" E |
| 29                                                   | 30 | N 71°50'54.36" E | 71.660    | 29 | 2,270,833.8820 | 678.243.5167 | 97       | 98  | N 65°47'28.41" E |
| 30                                                   | 31 | S 85°24'28.07" E | 120.692   | 30 | 2,270,814.2190 | 678.483.8234 | 98       | 99  | N 52°59'25.04" E |
| 31                                                   | 32 | S 36°53'39.24" E | 50.436    | 31 | 2,270,773.9831 | 678.484.1021 | 99       | 100 | N 75°10'08.07" E |
| 32                                                   | 33 | S 21°02'27.30" E | 261.659   | 32 | 2,270,729.6707 | 678.586.0474 | 100      | 101 | S 92°34'33.07" E |
| 33                                                   | 34 | S 07°34'40.36" W | 76.419    | 33 | 2,270,653.9193 | 678.577.9659 | 101      | 102 | N 67°23'00.37" E |
| 34                                                   | 35 | S 48°22'29.31" W | 66.379    | 34 | 2,270,608.8413 | 678.528.3304 | 102      | 103 | N 73°19'50.16" E |
| 35                                                   | 36 | S 17°00'06.86" W | 66.803    | 35 | 2,270,546.4720 | 678.507.1666 | 103      | 104 | N 73°19'50.16" E |
| 36                                                   | 37 | S 77°54'56.37" E | 93.224    | 36 | 2,270,528.9524 | 678.598.3543 | 104      | 105 | N 68°42'54.57" W |
| 37                                                   | 38 | N 28°41'59.34" E | 64.450    | 37 | 2,270,538.9844 | 678.681.5548 | 105      | 106 | N 62°24'03.55" E |
| 38                                                   | 39 | N 75°10'06.37" E | 72.517    | 38 | 2,270,469.3252 | 678.713.4570 | 106      | 107 | N 02°00'00" E    |
| 39                                                   | 40 | N 32°33'03.84" E | 119.160   | 39 | 2,270,447.4170 | 678.712.2613 | 107      | 108 | N 02°00'00" E    |
| 40                                                   | 41 | N 32°33'03.84" E | 93.329    | 40 | 2,270,469.3252 | 678.713.4570 | 108      | 109 | N 17°36'27.40" W |
| 41                                                   | 42 | N 46°53'37.77" E | 152.965   | 41 | 2,270,400.7335 | 678.822.7575 | 109      | 110 | N 33°14'28.50" W |
| 42                                                   | 43 | N 60°02'48.37" E | 43.455    | 42 | 2,270,371.4984 | 678.933.8638 | 110      | 111 | N 08°40'13.63" W |
| 43                                                   | 44 | N 83°33'44.37" E | 59.555    | 43 | 2,270,371.4984 | 678.933.8638 | 111      | 112 | N 45°09'34.87" W |
| 44                                                   | 45 | S 12°12'53.37" E | 79.266    | 44 | 2,270,349.4443 | 678.929.9837 | 112      | 113 | N 12°20'58.94" W |
| 45                                                   | 46 | S 8°00'02.07" E  | 27.154    | 45 | 2,270,326.4657 | 679.000.7468 | 113      | 114 | N 03°34'46.12" W |
| 46                                                   | 47 | S 34°18'15.97" E | 38.577    | 46 | 2,270,236.8927 | 679.044.6007 | 114      | 115 | N 23°50'29.38" W |
| 47                                                   | 48 | S 03°03'03.27" E | 46.268    | 47 | 2,270,209.2568 | 679.072.5192 | 115      | 116 | N 42°37'34.83" W |
| 48                                                   | 49 | S 13°22'30.38" W | 105.310   | 48 | 2,270,186.7155 | 679.144.4424 | 116      | 117 | N 40°09'27.60" W |
| 49                                                   | 50 | S 38°53'39.18" E | 31.891    | 49 | 2,270,186.7155 | 679.144.4424 | 117      | 118 | S 82°22'22.45" W |
| 50                                                   | 51 | N 14°29'57.20" E | 59.838    | 50 | 2,270,186.7155 | 679.144.4424 | 118      | 119 | S 82°22'22.45" W |
| 51                                                   | 52 | N 38°16'35.90" E | 68.472    | 51 | 2,270,186.7155 | 679.144.4424 | 119      | 120 | S 70°01'58.43" W |
| 52                                                   | 53 | N 38°16'35.90" E | 55.590    | 52 | 2,270,186.7155 | 679.144.4424 | 120      | 121 | N 86°09'01.66" W |
| 53                                                   | 54 | S 82°24'43.18" E | 50.440    | 53 | 2,270,186.7155 | 679.144.4424 | 121      | 122 | N 67°03'12.86" W |
| 54                                                   | 55 | N 88°49'11.07" E | 37.892    | 54 | 2,270,186.7155 | 679.144.4424 | 122      | 123 | N 78°33'37.50" W |
| 55                                                   | 56 | S 35°36'00.54" E | 145.502   | 55 | 2,270,186.7155 | 679.144.4424 | 123      | 124 | N 52°09'15.93" W |
| 56                                                   | 57 | S 76°51'19.07" E | 63.222    | 56 | 2,270,186.7155 | 679.144.4424 | 124      | 125 | N 24°17'39.87" W |
| 57                                                   | 58 | N 9°00'25.75" E  | 183.341   | 57 | 2,270,186.7155 | 679.144.4424 | 125      | 126 | N 02°58'28.90" E |
| 58                                                   | 59 | N 34°00'06.15" E | 92.258    | 58 | 2,270,186.7155 | 679.144.4424 | 126      | 127 | N 07°10'04.93" W |
| 59                                                   | 60 | N 65°47'28.35" E | 54.780    | 59 | 2,270,186.7155 | 679.144.4424 | 127      | 128 | N 40°37'34.83" W |
| 60                                                   | 61 | N 82°00'00" E    | 95.198    | 60 | 2,270,186.7155 | 679.144.4424 | 128      | 129 | N 69°27'38.25" W |
| 61                                                   | 62 | S 76°10'34.30" E | 39.443    | 61 | 2,270,186.7155 | 679.144.4424 | 129      | 130 | S 79°24'20.17" W |
| 62                                                   | 63 | S 24°40'25.85" E | 104.146   | 62 | 2,270,186.7155 | 679.144.4424 | 130      | 131 | S 51°19'59.01" W |
| 63                                                   | 64 | S 02°22'22.48" E | 71.526    | 63 | 2,270,186.7155 | 679.144.4424 | 131      | 132 | S 39°52'39.54" W |
| 64                                                   | 65 | S 01°50'57.21" E | 85.181    | 64 | 2,270,186.7155 | 679.144.4424 | 132      | 133 | S 75°58'32.48" W |
| 65                                                   | 66 | S 39°25'50.38" E | 82.019    | 65 | 2,270,186.7155 | 679.144.4424 | 133      | 134 | N 86°11'25.95" W |
| 66                                                   | 67 | S 28°23'39.80" W | 93.638    | 66 | 2,270,186.7155 | 679.144.4424 | 134      | 135 | N 36°53'39.54" W |
| 67                                                   | 68 | S 21°22'55.17" W | 164.556   | 67 | 2,270,186.7155 | 679.144.4424 | 135      | 136 | N 77°46'25.05" W |
| 68                                                   | 69 | S 27°55'57.41" E | 43.668    | 68 | 2,270,186.7155 | 679.144.4424 | 136      | 137 | S 13°57'31.66" W |
| 69                                                   | 70 | S 27°55'57.41" E | 43.668    | 69 | 2,270,186.7155 | 679.144.4424 | 137      | 138 | N 86°45'05.54" W |
| 70                                                   | 71 | S 13°57'31.66" W | 51.680    | 70 | 2,270,186.7155 | 679.144.4424 | 138      | 139 | S 71°34'48.08" W |
| 71                                                   | 72 | S 13°57'31.66" W | 51.680    | 71 | 2,270,186.7155 | 679.144.4424 | 139      | 140 | S 18°27'00.57" W |
| 72                                                   | 73 | S 13°57'31.66" W | 51.680    | 72 | 2,270,186.7155 | 679.144.4424 | 140      | 141 | S 80°34'45.54" W |
| 73                                                   | 74 | S 13°57'31.66" W | 51.680    | 73 | 2,270,186.7155 | 679.144.4424 | 141      | 142 | N 72°59'20.34" W |
| 74                                                   | 75 | S 13°57'31.66" W | 51.680    | 74 | 2,270,186.7155 | 679.144.4424 | 142      | 143 | S 26°35'07.50" W |
| 75                                                   | 76 | S 13°57'31.66" W | 51.680    | 75 | 2,270,186.7155 | 679.144.4424 | 143      | 144 | S 50°30'00.01" W |
| 76                                                   | 77 | S 13°57'31.66" W | 51.680    | 76 | 2,270,186.7155 | 679.144.4424 | 144      | 145 | N 82°53'52.41" W |
| 77                                                   | 78 | S 13°57'31.66" W | 51.680    | 77 | 2,270,186.7155 | 679.144.4424 | 145      | 146 | N 75°12'44.05" W |
| 78                                                   | 79 | S 13°57'31.66" W | 51.680    | 78 | 2,270,186.7155 | 679.144.4424 | 146      | 147 | N 82°38'14.47" W |
| 79                                                   | 80 | S 13°57'31.66" W | 51.680    | 79 | 2,270,186.7155 | 679.144.4424 | 147      | 148 | S 81°15'41.25" W |
| 80                                                   | 81 | S 13°57'31.66" W | 51.680    | 80 | 2,270,186.7155 | 679.144.4424 | 148      | 149 | S 81°15'41.25" W |
| 81                                                   | 82 | S 13°57'31.66" W | 51.680    | 81 | 2,270,186.7155 | 679.144.4424 | 149      | 150 | S 37°18'50.12" W |
| 82                                                   | 83 | S 13°57'31.66" W | 51.680    | 82 | 2,270,186.7155 | 679.144.4424 | 150      | 1   | S 19°40'11.53" W |

SUPERFICIE = 8,477,125.711 m2 = 847.71 Ha

CUADRO DE CONSTRUCCION AREA DE LA CORTINA

| LADO EST | PV | RUMBO            | DISTANCIA | V | Y              | X            |
|----------|----|------------------|-----------|---|----------------|--------------|
| A        | B  | S 23°10'04.79" E | 10.564    | A | 2,269,022.5864 | 682,074.4886 |
| B        | C  | N 23°15'50.16" E | 262.488   | B | 2,269,013.2543 | 682,074.4886 |