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## **PROPUESTA ECONÓMICA**

Oferente:  
**CONSTRUCTORA AREZZO SRL**

RNC:  
1-30-81403-1

Comité de Compra y Contrataciones  
Consejo de Poder Judicial

Referencia: **CP-CPJ-03-2019**

**Construcción del Juzgado de Paz de Cabral (Barahona)**

**ORIGINAL**

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*Alfonso Paes*



**INDICE SOBRE B**

**CP-CPJ-03-2019**

**Construcción del Juzgado de Paz de Cabral**

**NOMBRE DEL OFERENTE: CONSTRUCTORA AREZZO SRL**

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*Altagracia Paen*

**DEPARTAMENTO DE FIANZAS**

**1. POR CUANTO: CONSTRUCTORA AREZZO, SRL**

Ha solicitado en fecha: 22 de MARZO del 2019.

A la "Compañía Dominicana de Seguros, C. por A.", una FIANZA por valor de **DOSCIENTOS CUARENTA Y SIETE MIL SETECIENTOS SEIS PESOS CON 43/100 CTVOS. RDS 247,706.43.**

Para responder a las obligaciones siguientes **GARANTIZAR MANTENIMIENTO DE OFERTA PARA CONSTRUCCION DEL JUZGADO DE PAZ DE CABRAL BARAHONA, COMPARACION DE PRECIOS N0. CP-CPJ-03-2019.**

2.POR CUANTO: la presente FIANZA deberá ser depositada única y exclusivamente en programa de **CONSEJO DEL PODER JUDICIAL** y tiene fecha de vigencia desde el **.21/03/2019-20/07/2019.**

3.POR CUANTO: La "Compañía Dominicana de Seguros, C. por A.", no acepta ni reconoce ninguna transferencia que de la presente FIANZA se haga a persona natural o jurídica.

**4.POR CUANTO: La "Compañía Dominicana de Seguros, C. por A.", se compromete a responder a quien sea de derecho, de todos los daños y perjuicios que ocurran a consecuencia del incumplimiento de las obligaciones contractuales del afianzado, hasta el límite de la presente FIANZA.**

5.POR CUANTO: La "Compañía Dominicana de Seguros, C. por A.", no realizará devoluciones a cargo de la prima pagada ni de los gastos incurridos, por ningún concepto que alegue el afianzado.

6.POR CUANTO: El afianzado ha pagado la prima de seguros de la FIANZA y abonado los gastos exigidos por las leyes vigentes.

7.POR CUANTO: La ley No. 146-02 de fecha 11 de Septiembre del 2002 capacita a las Compañías de Seguros legalmente autorizadas a la prestación de fianzas en favor del Estado, los Municipios, el Distrito Nacional o sus dependientes.

8.POR TANTO: La "Compañía Dominicana de Seguros, C. por A.", legalmente constituida y autorizada a operar en la República Dominicana por Decreto No. 5338 del Poder Ejecutivo de fecha 23 de Noviembre del año 1959 el negocio de Seguros en general, otorga la presente Fianza No I-Fc-45906.

9.Exigida a **CONSTRUCTORA AREZZO, SRL**

Conforme con las estipulaciones del presente convenio y para que así conste, se firma y sella debidamente en Santo Domingo, Distrito Nacional, Capital de la República Dominicana, hoy 22 de MARZO del 2019.



**PRESUPUESTO JUZGADO DE PAZ DE**

OBRA:

**"CABRAL"**

UBIC.: Cabral, Prov. De Barahona

**LISTADO DE CANTIDADES**

| Part.               | Descripción   | Cant.  | Und. | Precio       | Valor (SRD)       |
|---------------------|---|--------|------|--------------|-------------------|
| <b>PRIMER NIVEL</b> |   |        |      |              |                   |
| <b>1.00</b>         | <b>PRELIMINARES</b>   |        |      |              |                   |
| 1.01                | Limpieza solar  | 437.18 | m2   | 50.00        | 21,859.00         |
| 1.02                | Remoción capa vegetal                                       | 220.00 | m3   | 100.00       | 22,000.00         |
| 1.03                | Bote de material extraído de la remoción                    | 286.00 | m3   | 450.00       | 128,700.00        |
| 1.04                | Estudio de suelos   | 1.00   | ud   | 50,000.00    | 50,000.00         |
| 1.05                | Replanteo   | 270.00 | m2   | 200.00       | 54,000.00         |
| 1.06                | Caseta de materiales (7 X 7)                                | 1.00   | ud   | 20,000.00    | 20,000.00         |
|                     | <b>Sub-total</b>  |        |      |              | <b>296,559.00</b> |
| <b>2.00</b>         | <b>MOVIMIENTO DE TIERRA</b>                                 |        |      |              |                   |
| 2.01                | Excavación en tierra a mano H<3 m.                          | 96.49  | m3   | 534.00       | 51,525.66         |
| 2.02                | Bote de material excavado                                   | 77.38  | m3   | 356.00       | 27,547.28         |
| 2.03                | Relleno de reposición (a mano)                              | 48.06  | m3   | 190.46       | 9,153.51          |
| 2.04                | Relleno compactado  | 379.00 | m3   | 590.96       | 223,973.84        |
|                     | <b>Sub-total</b>  |        |      |              | <b>312,200.29</b> |
| <b>3.00</b>         | <b>HORMIGÓN ARMADO</b>                                      |        |      |              |                   |
| 3.01                | H.A. zapata de muros de 8" (horm. 1:3:5)                    | 12.15  | m3   | 8349.27      | 101,443.63        |
| 3.02                | H. A. zapata columnas (horm. 1:3:5)                         | 4.66   | m3   | 16,498.67    | 76,883.83         |
| 3.03                | H. A. columnas C1 (horm. 1:2:4)                             | 0.84   | m3   | 21,014.54    | 17,652.22         |
| 3.04                | H. A. columnas C2 (horm. 1:2:4)                             | 2.02   | m3   | 27,886.06    | 56,329.84         |
| 3.05                | H. A. viga V1E H.IND 210                                    | 0.61   | m3   | \$ 20,933.95 | 12,769.71         |
| 3.06                | H. A. viga V2E H.IND 210                                    | 1.22   | m3   | \$ 14,754.27 | 18,000.22         |
| 3.07                | H. A. viga V3E H.IND 210                                    | 0.54   | m3   | \$ 14,754.27 | 7,967.31          |
| 3.08                | H. A. losa H=0.12 H.IND 210                                 | 14.15  | m3   | \$ 12,320.55 | 174,335.85        |
| 3.09                | H. A. rampas de escalera H.IND 210                          | 1.89   | m3   | \$ 25,016.01 | 47,280.27         |
| 3.10                | H. A. losa piso H=0.10 (1:3:5) con acero malla<br>H.IND 210 | 96.47  | m2   | 806.02       | 77,756.37         |
| 3.11                | H. A. Vuelo losa H=0.12 H.IND 210                           | 1.84   | m3   | \$ 12,320.55 | 22,669.83         |
| 3.12                | H. A. viga de amarre BNP (horm. 1:2:4)                      | 3.87   | m3   | 24,198.08    | 93,646.58         |
| 3.13                | H. A. en dinteles (horm. 1:2:4)                             | 1.22   | m3   | 22,769.68    | 27,779.01         |
|                     | <b>Sub-total</b>  |        |      |              | <b>734,514.67</b> |
| <b>4.00</b>         | <b>MUROS DE BLOQUES EN :</b>                                |        |      |              |                   |
| 4.01                | Muro bloques hormigón 8" BNP                                | 134.57 | m2   | 1,108.23     | 149,134.42        |
| 4.02                | Muro bloques hormigón 8" SNP                                | 213.44 | m2   | 1,108.23     | 236,540.46        |
|                     | <b>Sub-total</b>  |        |      |              | <b>385,674.88</b> |



*Alfonso Paez*

|                  |   |        |    |              |                   |
|------------------|---|--------|----|--------------|-------------------|
| <b>5.00</b>      | <b>TERMINACIÓN DE SUPERFICIE</b>  |        |    |              |                   |
| 5.01             | Empañete maestreado interior  | 249.01 | m2 | 273.35       | 68,066.94         |
| 5.02             | Empañete maestreado exterior  | 175.03 | m2 | 326.75       | 57,191.09         |
| 5.03             | Empañete maestreado techo, vigas y columnas                                     | 142.88 | m2 | 282.25       | 40,327.91         |
| 5.05             | Fraguache con escoba  | 143.72 | m2 | 47.05        | 6,762.61          |
| 5.06             | Cantos  | 385.88 | ml | 59.19        | 22,838.90         |
| <b>Sub-total</b> |   |        |    |              | <b>195,187.45</b> |
| <b>6.00</b>      | <b>INSTALACIONES SANITARIAS</b>   |        |    |              |                   |
| 6.01             | Inodoro color, tapa, con accesorios de instalación, "Azteca"                    | 4.00   | ud | 8,624.94     | 34,499.77         |
| 6.02             | Lavamanos Lorentina sadosa Standard con pedestal, con accesorios de instalación | 4.00   | ud | 6,994.13     | 27,976.51         |
| 6.03             | Desagüe pluvial 4"  | 6.00   | ud | 5,686.62     | 34,119.72         |
| 6.04             | Bajante o Ventilación 3"  | 4.00   | ud | 5,686.62     | 22,746.48         |
| 6.05             | Desagüe de piso 2"  | 4.00   | ud | 2,122.05     | 8,488.21          |
| 6.06             | Cámaras de inspección (en tierra)   | 6.00   | ud | 4,000.00     | 24,000.00         |
| 6.07             | Trampas de Grasa (en tierra)  | 1.00   | ud | 7,500.00     | 7,500.00          |
| 6.08             | Cámara séptica 1.60 x 1.80 x 1.60 (en tierra)                                   | 1.00   | ud | \$ 50,000.00 | 50,000.00         |
| 6.09             | Pozo filtrante  | 100.00 | pl | \$ 750.00    | 75,000.00         |
| 6.10             | Tuberías y piezas   | 1.00   | PA | \$ 15,000.00 | 15,000.00         |
| 6.11             | Mano de Obra Plomero  | 1.00   | PA | \$ 15,000.00 | 15,000.00         |
| <b>Sub-total</b> |   |        |    |              | <b>314,330.69</b> |
| <b>7.00</b>      | <b>REVESTIMIENTO</b>  |        |    |              |                   |
| 7.01             | Revestimiento de pared en baños (h=2.10)  | 45.70  | m2 | 758.67       | 34,671.35         |
| 7.02             | Piso de cerámicas en baños  | 9.15   | m2 | 889.57       | 8,139.59          |
| <b>Sub-total</b> |   |        |    |              | <b>42,810.94</b>  |
| <b>8.00</b>      | <b>PISOS</b>  |        |    |              |                   |
| 8.01             | Piso de granito fondo blanco  | 88.10  | m2 | 934.15       | 82,298.42         |
| 8.02             | Zócalos de piso de fondo blanco   | 65.90  | ml | 146.78       | 9,673.10          |
| 8.03             | Huellas y contrahuellas en granito y chapa de mármol                            | 34.00  | ml | 2492.00      | 84,728.00         |
| 8.04             | Descanso en granito   | 17.29  | m2 | 2492.00      | 43,086.68         |
| 8.05             | Zócalos de escalera en granito  | 14.93  | ml | 347.10       | 5,182.21          |
| 8.06             | Piso de vibrado exterior (incluye zapata y muro borde)                          | 64.17  | m2 | 1,543.11     | 99,021.53         |
| <b>Sub-total</b> |   |        |    |              | <b>323,989.94</b> |
| <b>9.00</b>      | <b>INSTALACIÓN ELÉCTRICA</b>  |        |    |              |                   |
| 9.01             | Luces cenitales   | 39.00  | ud | 692.60       | 27,011.52         |
| 9.02             | Lámpara fluorescentes 2 X 4, 3 x 32 W, Electrónicas, de Superficie, Instaladas. | 20.00  | ud | 2,368.46     | 47,369.26         |
| 9.03             | Lámpara de pared (para exteriores), Instaladas                                  | 10.00  | ud | 1,360.10     | 13,601.03         |
| 9.03             | Globos con bombillo bajo Consumo, instalados                                    | 8.00   | ud | 759.73       | 6,077.81          |
| 9.04             | Interruptores sencillos   | 12.00  | ud | 681.55       | 8,178.64          |
| 9.05             | Interruptores tres vías (3W)  | 2.00   | ud | 964.74       | 1,929.47          |
| 9.06             | Toma-corrientes dobles 120 v.   | 10.00  | ud | 752.75       | 7,527.53          |
| 9.07             | Salidas de Data y Teléfonos   | 14.00  | ud | 640.04       | 8,960.61          |



*Dejgon Paez*

|                       |   |        |     |           |                   |
|-----------------------|---|--------|-----|-----------|-------------------|
| 9.08                  | Registro 8" x 8" x 4" , Eléctricos y Data ( Instalado )   | 6.00   | ud  | 1,918.00  | 11,508.02         |
| 9.09                  | Previsiones para Acondicionadores de Aire, Incluye, reg. Drenaje y Alimentac. Eléctrica.  | 2.00   | ud  | 2813.06   | 5,626.12          |
| 9.08                  | Paneles de distribución 12/24 circuitos, incluye Breakers y M/O de instalación.   | 1.00   | ud  | 4404.79   | 4,404.79          |
|                       | (L, TC.)  |        |     |           |                   |
| 9.09                  | Paneles de distribución 8/16 circuitos, incluye Breakers y M/O de instalación. (A/A.)   | 1.00   | ud  | 3579.76   | 3,579.76          |
| 9.09                  | Lámpara Reflectoras de 250W, con (fotocelda)  | 2.00   | ud  | 1642.05   | 3,284.10          |
| 9.10                  | Base de hormigón con protector metálico   | 2.00   | P.A | 5,000.00  | 10,000.00         |
| 9.11                  | Sistema de Puesta a Tierra, con Varillas de tierra 5/8" x 8' EMC 126, conector, Cable # 10 y M/O instalación.                                 | 45.00  | pl  | 1,000.00  | 45,000.00         |
| 9.12                  | Salida y alimentación bomba de agua, con 2 THW # 10 (220V).   | 40.00  | pl  | 230.00    | 9,200.00          |
| 9.13                  | Acometida eléctrica para Panel de Distribución 12/24 circuitos. Con 2 THW # 04(P), 1 THW # 06(N) Y 1 THW # 08(T), ducto PVC SDR-26 de 1 1/2". | 70.00  | pl  | 230.00    | 16,100.00         |
| 9.14                  | Acometida eléctrica para Panel de Distribución 8/16 circuitos. Con 2 THW # 04(P), 1 THW # 06(N) Y 1 THW # 08(T), ducto PVC SDR-26 de 1 1/2".  | 70.00  | pl  | 230.00    | 16,100.00         |
| 9.15                  | Acometida telefónica Principal de poste a registro  | 35.00  | ML  | 620.00    | 21,700.00         |
| 9.16                  | Switch de seguridad de 200 Amp  | 1.00   | ud  | 14000.00  | 14,000.00         |
| <b>Sub-total</b>      |   |        |     |           | <b>281,158.66</b> |
| <b>10.00 PUERTAS</b>  |   |        |     |           |                   |
| 10.01                 | Puertas de caoba apaneladas (1.60 x 2.10 ; jambas y marco)  | 1.00   | ud  | 35,000.00 | 35,000.00         |
| 10.02                 | Puerta en caoba (1.00 x 2.10 )  | 5.00   | ud  | 17,000.00 | 85,000.00         |
| 10.03                 | Puertas de caoba (0.90 x 2.10)  | 2.00   | ud  | 17,000.00 | 34,000.00         |
| 10.04                 | Puerta polimetal (0.95 x 2.10)  | 2.00   | ud  | 17,000.00 | 34,000.00         |
| <b>Sub-total</b>      |   |        |     |           | <b>188,000.00</b> |
| <b>11.00 VENTANAS</b> |   |        |     |           |                   |
| 11.01                 | Ventanas corredizas de aluminio anodizado y vidrio  | 123.09 | p2  | 350.00    | 43,081.50         |
| 11.02                 | Ventanas salomónicas de aluminio y vidrio martillado  | 46.48  | p2  | 350.00    | 16,268.00         |
| <b>Sub-total</b>      |   |        |     |           | <b>59,349.50</b>  |
| <b>12.00 PINTURA</b>  |   |        |     |           |                   |
| 12.01                 | Pintura exterior con acrílica superior  | 297.40 | m2  | 147.71    | 43,927.72         |
| 12.02                 | Pintura interior con acrílica superior  | 455.37 | m2  | 147.71    | 67,260.81         |
| 12.03                 | Pintura en techo acrílica superior  | 151.81 | m2  | 147.71    | 22,423.23         |
| <b>Sub-total</b>      |   |        |     |           | <b>133,611.76</b> |



*Alfonso Paes*

**13.00 VERJA TIPO**

|       |   |        |    |           |            |
|-------|---|--------|----|-----------|------------|
| 13.01 | Excavación                                  | 70.89  | m3 | 534.00    | 37,855.26  |
| 13.02 | Bote de material excavado                   | 92.16  | m3 | 356.00    | 32,808.96  |
| 13.03 | H.A. columna de 0.40 x 0.40 (1:3:5) verja   | 4.72   | m3 | 19,889.25 | 93,877.27  |
| 13.04 | H.A. zapata de muros de 6" (E=0.20)         | 1.35   | m3 | 8,349.27  | 11,271.52  |
| 13.05 | H.A. zapata de columnas 1.2 x 1.2" (E=0.25) | 2.50   | m3 | 16,498.67 | 41,246.69  |
| 13.06 | H.A. zapata de columnas 0.6 x 0.6 (E=0.25)  | 1.71   | m3 | 16,498.67 | 28,212.74  |
| 13.07 | H.A. 1:3:5 de columnas 0.15 x 0.20          | 1.65   | m3 | 24,198.08 | 39,926.84  |
| 13.08 | H.A. 1:3:5 de viga de amarre 0.15 x 0.20    | 2.48   | m3 | 24,198.08 | 60,011.25  |
| 13.09 | Muro bloques hormigón 6" BNP                | 48.00  | m2 | 749.78    | 35,989.26  |
| 13.10 | Muro bloques hormigón 6" SNP                | 176.00 | m2 | 749.78    | 131,960.60 |
| 13.11 | Empañete en muros y columnas                | 200.50 | m2 | 326.75    | 65,513.42  |
| 13.12 | Cantos                                      | 67.44  | ml | 59.19     | 3,991.54   |
| 13.13 | Pintura acrílica superior                   | 200.50 | m2 | 147.71    | 29,615.02  |
| 13.14 | Verja de hierro                             | 303.55 | p2 | 250.00    | 75,887.50  |
| 13.15 | Puerta de Hierro peatonal                   | 43.04  | p2 | 350.00    | 15,064.00  |
| 13.16 | Puerta de Hierro parqueo                    | 109.06 | p2 | 350.00    | 38,171.00  |
| 13.17 | Retalles y alto relieve en columnas         | 2.40   | m2 | 1,200.00  | 2,880.00   |
| 13.18 | Capiteles en columnas                       | 3.20   | m2 | 1,200.00  | 3,840.00   |

**Sub-total****748,122.87****14.00 PARQUEO**

|       |  |       |     |             |           |
|-------|--|-------|-----|-------------|-----------|
| 14.01 | H.A. frotado en parqueo                    | 29.65 | m2  | \$ 1,232.93 | 36,556.24 |
| 14.02 | Paragomas en parqueo instalados            | 2.00  | ud  | 960.73      | 1,921.46  |
| 14.03 | Señalización de parqueo                    | 1.00  | p.a | 10,000.00   | 10,000.00 |
| 14.04 | Excavación zapata de muros de bloques de 6 | 4.95  | m3  | 534.00      | 2,643.30  |
| 14.05 | H.A zapata de muros de 6"                  | 2.19  | m3  | 8,349.27    | 18,284.91 |
| 14.06 | Muro de bloques hormigón de 6"             | 16.46 | m2  | 749.78      | 12,341.32 |
| 14.07 | Empañete en muros                          | 9.81  | m2  | 326.75      | 3,205.42  |
| 14.08 | Cantos                                     | 19.62 | ml  | 59.19       | 1,161.24  |
| 14.09 | Pintura acrílica superior                  | 9.81  | m2  | 147.71      | 1,449.00  |

**Sub-total****87,562.89****15.00 MISCELÁNEOS**

|       |  |        |     |            |            |
|-------|--|--------|-----|------------|------------|
| 15.01 | Estrado en caoba   | 1.00   | ud  | 60,000.00  | 60,000.00  |
| 15.02 | Cisterna 6,000 gls., caliche,<br>4.00x3.00x2.00 m. int.:       | 1.00   | ud  | 140,000.00 | 140,000.00 |
| 15.03 | Bomba Myers de 1/2 HP y tanque de 20 gls de<br>fibra de vidrio | 1.00   | ud  | 20,000.00  | 20,000.00  |
| 15.04 | Caseta bomba   | 1.00   | ud  | 30,000.00  | 30,000.00  |
| 15.05 | Acera frotada y violinada perimetral y frontal                 | 19.60  | m2  | 671.34     | 13,158.35  |
| 15.06 | Astas de banderas  | 2.00   | ud  | 26,840.00  | 53,680.00  |
| 15.07 | Accesorios baños (Papeleras, jaboneras y espejos)              | 4.00   | ud  | 950.00     | 3,800.00   |
| 15.08 | Piso en vibrado  | 23.98  | m2  | 1,543.11   | 37,003.84  |
| 15.09 | Letras y tarja   | 1.00   | PA  | 12,000.00  | 12,000.00  |
| 15.10 | Jardinería   | 1.00   | p.a | 20,000.00  | 20,000.00  |
| 15.11 | Jardineras   | 1.00   | ud  | 10,000.00  | 10,000.00  |
| 15.12 | Rampas para minusválidos                                       | 2.00   | ud  | 10,000.00  | 20,000.00  |
| 15.13 | Protectores en ventana   | 169.57 | p2  | 267.00     | 45,275.19  |
| 15.14 | Limpieza final   | 1.00   | p.a | 10,000.00  | 10,000.00  |

**Sub-total****474,917.38**

*Alfonso Páez*

## SEGUNDO NIVEL

### 16.00 HORMIGÓN ARMADO

|       |                                   |       |    |           |            |
|-------|-----------------------------------|-------|----|-----------|------------|
| 16.01 | H. A. columnas C1                 | 0.84  | m3 | 21,014.54 | 17,652.22  |
| 16.02 | H. A. columnas C2                 | 2.02  | m3 | 27,886.06 | 56,329.84  |
| 16.03 | H. A. viga V1T H.IND 210          | 0.61  | m3 | 28,448.75 | 17,353.75  |
| 16.04 | H. A. viga V2T H.IND 210          | 1.22  | m3 | 31,910.35 | 38,930.63  |
| 16.05 | H. A. viga V3T H.IND 210          | 0.54  | m3 | 28,448.75 | 15,362.33  |
| 16.06 | H. A. losa H=0.12 H.IND 210       | 14.14 | m3 | 12,320.55 | 174,212.65 |
| 16.07 | H. A. rampas de escalera          | 1.89  | m3 | 25,016.01 | 47,280.27  |
| 16.08 | H. A. Vuelo losa H=0.12 H.IND 210 | 1.84  | m3 | 12,320.55 | 22,669.83  |
| 16.09 | H. A. viga de amarre SNP          | 3.87  | m3 | 24,198.08 | 93,646.58  |
| 16.10 | H. A. en dinteles                 | 1.22  | m3 | 22,769.68 | 27,779.01  |

**Sub-total** **511,217.11**

### 17.00 MUROS DE BLOQUES EN :

|       |  |        |    |         |            |
|-------|--|--------|----|---------|------------|
| 17.01 | Muro bloques hormigón 8"                         | 138.78 | m2 | 1108.23 | 153,800.06 |
| 17.02 | Muro bloques hormigón 6" en antepecho (h=0.80 m) | 36.72  | m2 | 749.78  | 27,531.78  |
| 17.03 | Muro en Sheetrock                                | 16.00  | m2 | 845.50  | 13,528.00  |

**Sub-total** **194,859.84**

### 18.00 TERMINACIÓN DE SUPERFICIE

|       |   |        |    |        |           |
|-------|---|--------|----|--------|-----------|
| 18.01 | Empañete maestreado interior                | 159.60 | m2 | 273.35 | 43,626.70 |
| 18.02 | Empañete maestreado exterior                | 142.25 | m2 | 326.75 | 46,480.06 |
| 18.03 | Empañete maestreado techo, vigas y columnas | 142.88 | m2 | 282.25 | 40,327.91 |
| 18.04 | Fraguache con escoba                        | 142.88 | m2 | 47.05  | 6,723.09  |
| 18.05 | Cantos                                      | 192.94 | ml | 59.19  | 11,419.45 |
| 18.06 | Goteros colgantes                           | 68.90  | ml | 150.00 | 10,335.00 |

**Sub-total** **158,912.21**

### 19.00 TERMINACIÓN TECHO

|       |   |        |    |        |           |
|-------|---|--------|----|--------|-----------|
| 19.01 | Fino de techo plano                         | 112.24 | m2 | 581.45 | 65,262.29 |
| 19.02 | Empañete maestreado                         | 73.44  | m2 | 326.75 | 23,996.54 |
| 19.03 | Cantos                                      | 98.80  | ml | 59.19  | 5,847.63  |
| 19.04 | Pintura                                     | 73.44  | m2 | 147.71 | 10,847.52 |
| 19.05 | Impermeabilizante con lona asfáltica de 4mm | 112.24 | m2 | 400.00 | 44,896.00 |
| 19.06 | Zabaleta                                    | 54.10  | ml | 199.71 | 10,804.13 |

**Sub-total** **161,654.11**

### 20.00 INSTALACIONES SANITARIAS

|       |  |      |    |              |           |
|-------|--|------|----|--------------|-----------|
| 20.01 | Inodoro color, corriente, tapa, sin acces, "Azteca"        | 3.00 | ud | 8,624.94     | 25,874.83 |
| 20.02 | Lavamanos Lorentina sadosa Standard con pedestal           | 3.00 | ud | 6,994.13     | 20,982.39 |
| 20.03 | Fregadero inoxidable de una boca incluye tope de marmolite | 1.00 | ud | \$ 8,052.00  | 8,052.01  |
| 20.04 | Desagüe pluvial 4"   | 6.00 | ud | 5,686.62     | 34,119.72 |
| 20.05 | Bajante o Ventilación 3"                                   | 4.00 | ud | 1,854.08     | 7,416.31  |
| 20.06 | Desagüe de piso 2" (en colector 4")                        | 3.00 | ud | 2,122.05     | 6,366.16  |
| 20.07 | Tuberías y piezas  | 1.00 | PA | \$ 15,000.00 | 15,000.00 |
| 20.08 | Mano de Obra Plomero                                       | 1.00 | PA | \$ 15,000.00 | 15,000.00 |

**Sub-total** **132,811.42**



*Alfredo Pérez*



|                  |   |        |    |             |                   |
|------------------|---|--------|----|-------------|-------------------|
| <b>21.00</b>     | <b>PISOS</b>  |        |    |             |                   |
| 21.01            | Piso de granito fondo blanco  | 90.31  | m2 | 934.15      | 84,362.89         |
| 21.02            | Zócalos de piso de cerámica tipo 3  | 52.78  | ml | 146.78      | 7,747.29          |
| 21.03            | Huellas y contrahuellas en granito y chapa de mármol  | 24.00  | ml | \$ 2,492.00 | 59,808.00         |
| <b>Sub-total</b> |   |        |    |             | <b>151,918.18</b> |
| <b>22.00</b>     | <b>INSTALACIÓN ELÉCTRICA</b>  |        |    |             |                   |
| 22.01            | Luces cenitales   | 25.00  | ud | 692.60      | 17,315.08         |
| 22.02            | Lámpara fluorescentes 2 X 4, 3 x 32 W, Electrónicas, de Superficie, Instaladas.   | 18.00  | ud | 2,368.46    | 42,632.33         |
| 22.03            | Lámpara Led tipo cobra de 100W (para exteriores), Instaladas  | 2.00   | ud | 1,642.05    | 3,284.10          |
| 22.04            | Globos con bombillo bajo Consumo, instalados  | 5.00   | ud | 759.73      | 3,798.63          |
| 22.05            | Interruptores sencillos   | 10.00  | ud | 681.55      | 6,815.53          |
| 22.06            | Interruptores doble   | 2.00   | ud | 799.38      | 1,598.77          |
| 22.07            | Interruptores tres vías (3W)  | 1.00   | ud | 964.74      | 964.74            |
| 22.08            | Toma-corrientes dobles 120 v.   | 11.00  | ud | 752.75      | 8,280.28          |
| 22.09            | Salidas de Data y Teléfonos   | 12.00  | ud | 640.04      | 7,680.53          |
| 22.10            | Registro 8" x 8" x 4" , Eléctricos y Data ( Instalado )   | 3.00   | ud | 1,918.00    | 5,754.01          |
| 22.11            | Previsiones para Acondicionadores de Aire, Incluye, reg. Drenaje y Alimentac. Eléctrica.  | 4.00   | ud | \$ 2,813.06 | 11,252.23         |
| 22.12            | Paneles de distribución 12/24 circuitos, incluye Breakers y M/O de instalación. (L, TC )  | 1.00   | ud | \$ 4,404.79 | 4,404.79          |
| 22.13            | Paneles de distribución 8/16 circuitos, incluye Breakers y M/O de instalación A/A   | 1.00   | ud | 3,579.76    | 3,579.76          |
| 22.14            | Acometida eléctrica para Panel de Distribución 12/24 circuitos. Con 2 THW # 04(P), 1 THW # 06(N), 1 THW # 08(T), ducto PVC SDR-26 de 1 1/2" | 76.00  | pl | \$ 230.00   | 17,480.00         |
| 22.15            | Acometida eléctrica para Panel de Distribución 8/16 circuitos. Con 2 THW # 04(P), 1 THW # 06(N), 1 THW # 08(T), ducto PVC SDR-26 de 1 1/2"  | 76.00  | pl | \$ 230.00   | 17,480.00         |
| <b>Sub-total</b> |   |        |    |             | <b>152,320.78</b> |
| <b>23.00</b>     | <b>PUERTAS</b>  |        |    |             |                   |
| 23.01            | Puerta en caoba (1.00 x 2.10 )  | 4.00   | ud | 19580.00    | 78,320.00         |
| 23.02            | Puerta en caoba (0.90x 2.10 )   | 3.00   | ud | 19580.00    | 58,740.00         |
| <b>Sub-total</b> |   |        |    |             | <b>137,060.00</b> |
| <b>24.00</b>     | <b>VENTANAS</b>   |        |    |             |                   |
| 24.01            | Ventanas corredizas de aluminio anodizado y vidrio  | 237.24 | p2 | 311.50      | 73,900.26         |
| 24.02            | Ventanas Salomónicas de aluminio y vidrio martillado  | 238.24 | p2 | 267.00      | 63,610.08         |
| <b>Sub-total</b> |   |        |    |             | <b>137,510.34</b> |



*Alfonso Paredes*

|                                   |   |        |    |              |                        |
|-----------------------------------|---|--------|----|--------------|------------------------|
| <b>25.00</b>                      | <b>PINTURA</b>  |        |    |              |                        |
| 25.01                             | Pintura exterior con acrílica                                 | 142.25 | m2 | 147.71       | 21,011.08              |
| 25.02                             | Pintura interior con acrílica                                 | 159.60 | m2 | 147.71       | 23,573.85              |
| 25.03                             | Pintura en techo  | 142.88 | m2 | 147.71       | 21,104.21              |
| <b>Sub-total</b>                  |   |        |    |              | <b>65,689.14</b>       |
| <b>26.00</b>                      | <b>MISCELÁNEOS</b>  |        |    |              |                        |
| 26.01                             | Barandilla de escalera 2do nivel                              | 51.64  | p2 | 267.00       | 13,787.88              |
| 26.02                             | Escalera de hierro para subir a techo h=4.00                  | 4.00   | ml | 12,500.00    | 50,000.00              |
| 26.03                             | Limpieza final  | 1.00   | ud | \$ 10,000.00 | 10,000.00              |
| <b>Sub-total</b>                  |   |        |    |              | <b>73,787.88</b>       |
| <b>SUB-TOTAL GENERAL</b>          |   |        |    |              | <b>\$ 6,455,731.93</b> |
| <b>GASTOS INDIRECTOS</b>          |   |        |    |              |                        |
| 1                                 | Dirección Técnica y Responsabilidad                           |        |    | 10.00%       | 645,573.19             |
| 2                                 | Gastos Administrativo   |        |    | 3.00%        | 193,671.96             |
| 3                                 | Seguros y Fianzas   |        |    | 4.50%        | 290,507.94             |
| 4                                 | Transporte  |        |    | 2.50%        | 161,393.30             |
| 5                                 | Pensión y Jubilaciones de los trabajadores de la construcción |        |    | 1.00%        | 64,557.32              |
| 6                                 | CODIA (1X 1000)   |        |    | 0.10%        | 6,455.73               |
| 7                                 | ITBIS (18% de la Dirección Técnica)                           |        |    | 18.00%       | 116,203.17             |
| <b>SUBTOTAL GASTOS INDIRECTOS</b> |   |        |    |              | <b>1,478,362.61</b>    |
| <b>IMPREVISTOS</b>                |   |        |    | 5.00%        | 322,786.60             |
| <b>TOTAL GENERAL (SRD)</b>        |   |        |    |              | <b>8,256,881.14</b>    |



*Alfonso Pérez*

ANALISIS UNITARIOS

| CANT. | L    | A    | H    | volumen | area |
|-------|------|------|------|---------|------|
| 1.00  | 1.00 | 1.00 | 0.30 | 0.3     | 1    |

| ANALISIS UNITARIO              | Zapata C Z1 / 1.00 x 1.00 x 0.30                   | CANT. | DIAM. | LONG. | 0.30 | M3  | 16,784.73 |
|--------------------------------|--|-------|-------|-------|------|-----|-----------|
|                                | <b>MATERIALES</b>                                  |       |       |       |      |     |           |
|                                | Hormigón Industrial F'c = 210 kgs/cms <sup>2</sup> |       |       |       | 0.32 | m3  | 5,074.00  |
|                                | Servicio de Bombeo Hormigón Industrial             |       |       |       | 0.32 | m3  | 590.00    |
|                                | Acero Grado 60                                     | 2.5   | 3/4   | 20    | 0.76 | qq  | 1,942.62  |
|                                | Alambre N°. 18                                     |       |       |       | 1.50 | lb  | 48.95     |
|                                | CALZO 2.5 cms CP-25                                |       |       |       | 4.00 | u   | 5.30      |
| <b>MANO DE OBRA</b>            |  |       |       |       |      |     |           |
|                                | Colocación de Acero en Zapatas de                  |       |       |       | 2.00 | m2  | 311.50    |
|                                | Encofrado de guarderas                             |       |       |       | 4.00 | m   | 178.00    |
|                                | Peón por la casa                                   |       |       |       | 0.30 | dia | 534.00    |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |      |     |           |
|                                | Herramientas y Equipos                             |       |       |       | 3.00 | %   | 3,339.83  |
|                                | Transporte interno                                 |       |       |       | 3.00 | %   | 3,339.83  |
|                                |  |       |       |       |      |     | 5,035.42  |

| CANT. | L    | A    | H    | volumen | area |
|-------|------|------|------|---------|------|
| 1.00  | 1.00 | 1.20 | 0.30 | 0.36    | 1.2  |

| ANALISIS UNITARIO              | Zapata C Z2 / 1.00 x 1.20 x 0.3                    | CANT. | DIAM. | LONG. | 0.36 | M3  | 16,498.67 |
|--------------------------------|--|-------|-------|-------|------|-----|-----------|
|                                | <b>MATERIALES</b>                                  |       |       |       |      |     |           |
|                                | Hormigón Industrial F'c = 210 kgs/cms <sup>2</sup> |       |       |       | 0.36 | m3  | 5,074.00  |
|                                | Servicio de Bombeo Hormigón Industrial             |       |       |       | 0.36 | m3  | 590.00    |
|                                | Acero Grado 60                                     | 3     | 3/4   | 20    | 0.90 | qq  | 1,942.62  |
|                                | Alambre N°. 18                                     |       |       |       | 1.80 | lb  | 48.95     |
|                                | CURADOR CONSEAL                                    |       |       |       | 0.00 | m3  | 776.16    |
|                                | CONCURE VOX  |       |       |       | 0.00 | m3  | 341.04    |
|                                | CALZO 2.5 cms CP-25                                |       |       |       | 5.00 | u   | 5.30      |
| <b>MANO DE OBRA</b>            |  |       |       |       |      |     |           |
|                                | Colocación de Acero en Zapatas de                  |       |       |       | 2.40 | m2  | 311.50    |
|                                | Encofrado de guarderas                             |       |       |       | 4.40 | m   | 178.00    |
|                                | Peón por la casa                                   |       |       |       | 0.30 | dia | 534.00    |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |      |     |           |
|                                | Herramientas y Equipos                             |       |       |       | 3.00 | %   | 4,008.04  |
|                                | Transporte interno                                 |       |       |       | 3.00 | %   | 4,008.04  |
|                                |  |       |       |       |      |     | 5,959.52  |

| CANT. | L    | A    | H    | volumen | area |
|-------|------|------|------|---------|------|
| 1.00  | 1.00 | 1.10 | 0.30 | 0.33    | 1.1  |

| ANALISIS UNITARIO              | Zapata C Z3 / 1.00 x 1.10 x 0.3                    | CANT. | DIAM. | LONG. | 0.33 | M3  | 17,128.79 |
|--------------------------------|--|-------|-------|-------|------|-----|-----------|
|                                | <b>MATERIALES</b>                                  |       |       |       |      |     |           |
|                                | Hormigón Industrial F'c = 210 kgs/cms <sup>2</sup> |       |       |       | 0.35 | m3  | 5,074.00  |
|                                | Servicio de Bombeo Hormigón Industrial             |       |       |       | 0.35 | m3  | 590.00    |
|                                | Acero Grado 60                                     | 3     | 3/4   | 20    | 0.90 | qq  | 1,942.62  |
|                                | Alambre N°. 18                                     |       |       |       | 1.80 | lb  | 48.95     |
|                                | CURADOR CONSEAL                                    |       |       |       | 0.00 | m3  | 776.16    |
|                                | CONCURE VOX  |       |       |       | 0.00 | m3  | 341.04    |
|                                | CALZO 2.5 cms CP-25                                |       |       |       | 5.00 | u   | 5.30      |
| <b>MANO DE OBRA</b>            |  |       |       |       |      |     |           |
|                                | Colocación de Acero en Zapatas de                  |       |       |       | 2.20 | m2  | 311.50    |
|                                | Encofrado de guarderas                             |       |       |       | 4.20 | m   | 178.00    |
|                                | Peón por la casa                                   |       |       |       | 0.30 | dia | 534.00    |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |      |     |           |
|                                | Herramientas y Equipos                             |       |       |       | 3.00 | %   | 3,829.62  |
|                                | Transporte interno                                 |       |       |       | 3.00 | %   | 3,829.62  |
|                                |  |       |       |       |      |     | 5,652.50  |



*Jeffrey Paez*

ANALISIS UNITARIOS

ANALISIS UNITARIO

| CANT. | L    | A    | H    | volumen | area       |
|-------|------|------|------|---------|------------|
| 1.00  | 5.56 | 0.60 | 0.30 | 1       | 3.33333333 |

Zapata muros 20 cm 0.60 x 0.30

| CANT. | DIAM. | LONG. | 1.00 | M3 | 8,349.27 |
|-------|-------|-------|------|----|----------|
|-------|-------|-------|------|----|----------|

**MATERIALES**

|  |   |     |       |    |          |          |
|--|---|-----|-------|----|----------|----------|
| Hormigón Industrial F'c = 210 kgs/cms <sup>2</sup> |   |     | 1.05  | m3 | 5,074.00 | 5,327.70 |
| Servicio de Bombeo Hormigón Industrial             |   |     | 1.05  | m3 | 590.00   | 619.50   |
| Acero Grado 60                                     | 7 | 3/8 | 20    | qq | 1,942.62 | 1,049.01 |
| Alambre N°. 18                                     |   |     | 1.08  | lb | 48.95    | 52.87    |
| CURADOR CONSEAL                                    |   |     | 0.00  | m3 | 776.16   | 0.00     |
| CONCURE VOX  |   |     | 0.00  | m3 | 341.04   | 0.00     |
| CALZO 2.5 cms CP-25                                |   |     | 14.00 | u  | 15.00    | 210.00   |

**MANO DE OBRA**

|   |  |  |      |     |        |        |
|---|--|--|------|-----|--------|--------|
| Colocación de Acero en Zapatas de Muros |  |  | 5.56 | m   | 89.00  | 494.44 |
| Peón por la casa                        |  |  | 0.30 | dia | 534.00 | 160.20 |

**EQUIPOS TRANSP. INTERNO**

|                        |  |  |      |   |          |          |
|------------------------|--|--|------|---|----------|----------|
| Herramientas y Equipos |  |  | 3.00 | % | 7,259.08 | 217.77   |
| Transporte interno     |  |  | 3.00 | % | 7,259.08 | 217.77   |
|                        |  |  |      |   |          | 8,349.27 |

ANALISIS UNITARIO

| L  | A | H   | volumen h | area |
|----|---|-----|-----------|------|
| 10 | 1 | 0.1 | 1         | 10   |

Losa de hormigon / 0.1 m / 210kgm /cm2

| CANT. | DIAM. | LONG. | 10.00 | m2 | 1,232.93 |
|-------|-------|-------|-------|----|----------|
|-------|-------|-------|-------|----|----------|

**MATERIALES**

|  |     |        |       |    |           |          |
|--|-----|--------|-------|----|-----------|----------|
| Hormigón Industrial F'c = 210 kgs/cms <sup>2</sup> | 210 | KG/CM2 | 1.05  | m3 | 5,074.00  | 5,327.70 |
| Servicio de Bombeo Hormigón Industrial             |     |        | 1.05  | m3 | 590.00    | 619.50   |
| Malla Electrosoldada W 2.5 x W 2.5 x 0.10          |     |        | 0.22  | u  | 12,274.38 | 2,727.64 |
| Alambre N°. 18                                     |     |        | 2.00  | lb | 48.95     | 97.90    |
| Concure vox  |     |        | 1.00  | u  | 341.04    | 341.04   |
| Calzo 2.5cms                                       |     |        | 20.00 | u  | 4.72      | 94.31    |

**MANO DE OBRA**

|                                      |  |  |       |    |        |          |
|--------------------------------------|--|--|-------|----|--------|----------|
| Colocación Malla Electrosoldada      |  |  | 10.00 | m2 | 26.70  | 267.00   |
| Colocación de Guarderas Perimetrales |  |  | 10.00 | m  | 133.50 | 1,335.00 |
| Terminación mecanica de superficie   |  |  | 10.00 | m2 | 133.50 | 1,335.00 |

**EQUIPOS TRANSP. INTERNO**

|                        |  |  |      |   |          |           |
|------------------------|--|--|------|---|----------|-----------|
| Herramientas y Equipos |  |  | 2.00 | % | 9,208.09 | 184.16    |
|                        |  |  |      |   |          | 12,329.25 |

ANALISIS UNITARIO

| CANT. | L  | A1  | A2  | volumen | area  |
|-------|----|-----|-----|---------|-------|
| 1     | 25 | 0.2 | 0.2 | 1       | 10.08 |

Columna Ct

| CANT. | DIAM. | LONG. | 1.00 | M3 | 21,014.54 |
|-------|-------|-------|------|----|-----------|
|-------|-------|-------|------|----|-----------|

**MATERIALES**

|  |    |     |       |    |          |          |
|--|----|-----|-------|----|----------|----------|
| Hormigón Industrial F'c = 210 kgs/cms <sup>2</sup> |    |     | 1.05  | m3 | 5,074.00 | 5,327.70 |
| Servicio de Bombeo Hormigón Industrial             |    |     | 1.05  | m3 | 690.00   | 619.50   |
| Acero Grado 60                                     | 25 | 1/2 | 20    | qq | 1,942.62 | 6,484.46 |
| Acero Grado 60                                     | 14 | 3/8 | 20    | qq | 1,942.62 | 2,098.03 |
| Alambre N°. 18                                     |    |     | 8.84  | lb | 48.95    | 432.52   |
| Calzo 2.5cms                                       |    |     | 41.00 | u  | 4.72     | 193.33   |

**MANO DE OBRA**

|                                    |  |  |       |     |        |          |
|------------------------------------|--|--|-------|-----|--------|----------|
| Encofrado Columnas de Amarre       |  |  | 10.08 | m2  | 178.00 | 1,794.24 |
| Colocación de Acero en Columnas de |  |  | 25.00 | m   | 111.25 | 2,781.25 |
| Ligado de hormigón                 |  |  | 0.00  | m   | 446.00 | 0.00     |
| Peón por la casa                   |  |  | 1.00  | dia | 534.00 | 534.00   |

**EQUIPOS TRANSP. INTERNO**

|                        |  |  |      |   |           |           |
|------------------------|--|--|------|---|-----------|-----------|
| Herramientas y Equipos |  |  | 3.00 | % | 15,155.55 | 494.67    |
| Transporte interno     |  |  | 3.00 | % | 9,827.85  | 294.84    |
|                        |  |  |      |   |           | 21,014.54 |



*Jefferson Paredes*

ANALISIS UNITARIOS

| CANT. | L  | A1  | A2  | volumen | area |
|-------|----|-----|-----|---------|------|
| 1     | 16 | 0.2 | 0.3 | 0.96    | 9.72 |

Columna C2

| CANT. | DIAM. | LONG. | 0.96 | M3 | 27,886.06 |
|-------|-------|-------|------|----|-----------|
|-------|-------|-------|------|----|-----------|

**MATERIALES**

|   |    |     |       |    |          |           |
|---|----|-----|-------|----|----------|-----------|
| Homigón Industrial F'c = 210 kgs/cms <sup>2</sup> |    |     | 1.01  | m3 | 5,074.00 | 5,114.59  |
| Servicio de Bombeo Hormigón Industrial            |    |     | 1.01  | m3 | 590.00   | 594.72    |
| Acero Grado 60                                    | 22 | 3/4 | 28    | qq | 1,942.62 | 12,840.71 |
| Acero Grado 60                                    | 14 | 3/8 | 28    | qq | 1,942.62 | 2,098.03  |
| Alambre N°. 18                                    |    |     | 15.38 | lb | 48.95    | 762.85    |
| Calzo 2.5cms                                      |    |     | 39.00 | u  | 4.72     | 183.90    |

**MANO DE OBRA**

|                                    |  |  |       |     |        |          |
|------------------------------------|--|--|-------|-----|--------|----------|
| Encofrado Columnas de Amarre       |  |  | 9.72  | m2  | 178.00 | 1,730.16 |
| Colocación de Acero en Columnas de |  |  | 16.00 | m   | 111.25 | 1,780.00 |
| Ligado de hormigón                 |  |  | 0.00  | m   | 445.00 | 0.00     |
| Peón por la casa                   |  |  | 1.00  | dia | 534.00 | 534.00   |

**EQUIPOS TRANSP. INTERNO**

|                        |  |  |      |   |           |           |
|------------------------|--|--|------|---|-----------|-----------|
| Herramientas y Equipos |  |  | 3.00 | % | 21,584.81 | 647.54    |
| Transporte interno     |  |  | 3.00 | % | 16,470.21 | 494.11    |
|                        |  |  |      |   |           | 26,770.52 |

ANALISIS UNITARIO

| CANT. | L  | A1  | A2  | volumen | area |
|-------|----|-----|-----|---------|------|
| 1     | 12 | 0.3 | 0.3 | 1.08    | 7.38 |

Columna C3

| CANT. | DIAM. | LONG. | 1.08 | M3 | 19,690.31 |
|-------|-------|-------|------|----|-----------|
|-------|-------|-------|------|----|-----------|

**MATERIALES**

|   |    |     |       |    |          |          |
|---|----|-----|-------|----|----------|----------|
| Homigón Industrial F'c = 210 kgs/cms <sup>2</sup> |    |     | 1.13  | m3 | 5,074.00 | 5,753.92 |
| Servicio de Bombeo Hormigón Industrial            |    |     | 1.13  | m3 | 590.00   | 669.05   |
| Acero Grado 60                                    | 12 | 1/2 | 28    | qq | 1,942.62 | 3,112.08 |
| Acero Grado 60                                    | 10 | 3/8 | 28    | qq | 1,942.62 | 1,499.70 |
| Alambre N°. 18                                    |    |     | 4.75  | lb | 48.95    | 232.41   |
| Calzo 2.5cms                                      |    |     | 30.00 | u  | 4.72     | 141.46   |

**MANO DE OBRA**

|                                    |  |  |       |     |        |          |
|------------------------------------|--|--|-------|-----|--------|----------|
| Encofrado columna circular         |  |  | 12.00 | m   | 623.00 | 7,476.00 |
| Colocación de Acero en Columnas de |  |  | 12.00 | m   | 111.25 | 1,335.00 |
| Ligado de hormigón                 |  |  | 0.00  | m   | 445.00 | 0.00     |
| Peón por la casa                   |  |  | 1.00  | dia | 534.00 | 534.00   |

**EQUIPOS TRANSP. INTERNO**

|                        |  |  |      |   |           |           |
|------------------------|--|--|------|---|-----------|-----------|
| Herramientas y Equipos |  |  | 3.00 | % | 11,408.63 | 342.26    |
| Transporte interno     |  |  | 3.00 | % | 5,654.71  | 169.64    |
|                        |  |  |      |   |           | 21,265.53 |

ANALISIS UNITARIO

| CANT. | L | A1  | A2  | volumen | area |
|-------|---|-----|-----|---------|------|
| 1     | 5 | 0.4 | 0.4 | 0.8     | 4.32 |

Columna 0.40 x 0.40

| CANT. | DIAM. | LONG. | 0.80 | M3 | 19,889.25 |
|-------|-------|-------|------|----|-----------|
|-------|-------|-------|------|----|-----------|

**MATERIALES**

|   |   |     |       |    |          |          |
|---|---|-----|-------|----|----------|----------|
| Homigón Industrial F'c = 210 kgs/cms <sup>2</sup> |   |     | 0.84  | m3 | 5,074.00 | 4,262.16 |
| Servicio de Bombeo Hormigón Industrial            |   |     | 0.84  | m3 | 590.00   | 495.50   |
| Acero Grado 60                                    | 8 | 3/4 | 28    | qq | 1,942.62 | 4,670.05 |
| Acero Grado 60                                    | 9 | 3/8 | 28    | qq | 1,942.62 | 1,346.16 |
| Alambre N°. 18                                    |   |     | 6.20  | lb | 48.95    | 303.29   |
| Calzo 2.5cms                                      |   |     | 19.00 | u  | 4.72     | 84.00    |

**MANO DE OBRA**

|                                    |  |  |      |     |        |          |
|------------------------------------|--|--|------|-----|--------|----------|
| Encofrado columna circular         |  |  | 5.00 | m   | 623.00 | 3,115.00 |
| Colocación de Acero en Columnas de |  |  | 5.00 | m   | 111.25 | 556.25   |
| Ligado de hormigón                 |  |  | 0.00 | m   | 445.00 | 0.00     |
| Peón por la casa                   |  |  | 1.00 | dia | 534.00 | 534.00   |

**EQUIPOS TRANSP. INTERNO**

|                        |  |  |      |   |           |           |
|------------------------|--|--|------|---|-----------|-----------|
| Herramientas y Equipos |  |  | 3.00 | % | 11,164.17 | 334.92    |
| Transporte interno     |  |  | 3.00 | % | 6,902.01  | 207.06    |
|                        |  |  |      |   |           | 15,911.40 |

ANALISIS UNITARIO



*Alfonso Pérez*

ANALISIS UNITARIOS

| L  | A   | H   | volumen h | area |
|----|-----|-----|-----------|------|
| 25 | 0.2 | 0.2 | 1         |      |

| ANALISIS UNITARIO | Vigas y columnas de amarre     |       |       | 1.00  | m3   | 24,198.08 |          |  |
|-------------------|--------------------------------|-------|-------|-------|------|-----------|----------|--|
|                   | CANT.                          | DIAM. | LONG. |       |      |           |          |  |
|                   | 0.20X0.20m                     |       |       |       |      |           |          |  |
|                   | <b>MATERIALES</b>              |       |       |       |      |           |          |  |
|                   |                                |       |       | 1.05  | mts² | 5,074.00  | 5,327.70 |  |
|                   |                                |       |       | 1.05  | mts² | 590.00    | 619.50   |  |
|                   |                                |       |       | 2.27  | qq   | 1,942.62  | 4,409.75 |  |
|                   | 17                             | 1/2   | 28    | 1.39  | qq   | 1,942.62  | 2,696.36 |  |
|                   | 18                             | 3/8   | 28    | 3.56  | lb   | 48.95     | 179.06   |  |
|                   |                                |       |       | 0.00  | u    | 4.72      | 0.00     |  |
|                   | <b>MANO DE OBRA</b>            |       |       |       |      |           |          |  |
|                   |                                |       |       | 25.00 | m    | 222.50    | 5,562.50 |  |
|                   |                                |       |       | 25.00 | m    | 111.25    | 2,781.25 |  |
|                   |                                |       |       | 25.00 | m    | 69.00     | 2,225.00 |  |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |      |           |          |  |
|                   |                                |       |       | 3.00  | %    | 13,232.36 | 396.57   |  |
|                   |                                |       |       | 3.00  | %    | 13,232.36 | 396.57   |  |
|                   | 24,198.08                      |       |       |       |      |           |          |  |

| L  | A   | H   | volumen h | area |
|----|-----|-----|-----------|------|
| 25 | 0.2 | 0.2 | 1.00      |      |

| ANALISIS UNITARIO | Dinteles                       |       |       | 1.00  | m3   | 22,769.68 |          |
|-------------------|--------------------------------|-------|-------|-------|------|-----------|----------|
|                   | CANT.                          | DIAM. | LONG. |       |      |           |          |
|                   | <b>MATERIALES</b>              |       |       |       |      |           |          |
|                   |                                |       |       | 1.05  | mts² | 5,074.00  | 5,327.70 |
|                   |                                |       |       | 1.05  | mts² | 590.00    | 619.50   |
|                   |                                |       |       | 2.27  | qq   | 1,942.62  | 4,409.75 |
|                   | 17                             | 1/2   | 28    | 1.23  | qq   | 1,942.62  | 2,397.19 |
|                   | 18                             | 3/8   | 28    | 3.50  | lb   | 48.95     | 171.52   |
|                   |                                |       |       | 0.00  | u    | 4.72      | 0.00     |
|                   | <b>MANO DE OBRA</b>            |       |       |       |      |           |          |
|                   |                                |       |       | 25.00 | m    | 176.00    | 4,450.00 |
|                   |                                |       |       | 25.00 | m    | 111.25    | 2,781.25 |
|                   |                                |       |       | 25.00 | m    | 89.00     | 2,225.00 |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |      |           |          |
|                   |                                |       |       | 3.00  | %    | 12,925.66 | 387.77   |
|                   |                                |       |       | 3.00  | %    | 12,925.66 | 387.77   |
|                   | 22,769.68                      |       |       |       |      |           |          |

| L | A   | H   | volumen h | area |
|---|-----|-----|-----------|------|
| 5 | 0.3 | 0.4 | 0.60      |      |

| ANALISIS UNITARIO | Viga V1                        |       |       | 0.60 | m3   | 20,933.95 |          |
|-------------------|--------------------------------|-------|-------|------|------|-----------|----------|
|                   | CANT.                          | DIAM. | LONG. |      |      |           |          |
|                   | <b>MATERIALES</b>              |       |       |      |      |           |          |
|                   |                                |       |       | 0.63 | mts² | 5,074.00  | 3,196.62 |
|                   |                                |       |       | 0.63 | mts² | 590.00    | 371.70   |
|                   |                                |       |       | 1.50 | qq   | 1,942.62  | 2,917.91 |
|                   | 5                              | 3/4   | 28    | 0.40 | qq   | 1,942.62  | 777.05   |
|                   | 3                              | 1/2   | 28    | 0.54 | qq   | 1,942.62  | 1,049.01 |
|                   | 7                              | 3/8   | 28    | 2.44 | lb   | 48.95     | 118.54   |
|                   |                                |       |       | 0.00 | u    | 4.72      | 0.00     |
|                   | <b>MANO DE OBRA</b>            |       |       |      |      |           |          |
|                   |                                |       |       | 2.44 | qq   | 311.50    | 760.68   |
|                   |                                |       |       | 5.00 | m    | 623.00    | 3,115.00 |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |       |       |      |      |           |          |
|                   |                                |       |       | 3.00 | %    | 8,431.73  | 252.95   |
|                   |                                |       |       | 3.00 | %    | 8,431.73  | 252.95   |
|                   | 12,960.37                      |       |       |      |      |           |          |



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ANALISIS UNITARIOS

|                                |  | L     | A     | H     | volumen h | area |           |          |                  |          |          |
|--------------------------------|--|-------|-------|-------|-----------|------|-----------|----------|------------------|----------|----------|
|                                |  | 3.65  | 0.3   | 0.3   | 0.55      |      |           |          |                  |          |          |
| Viga V2                        |  | CANT. | DIAM. | LONG. | 0.55      | m3   | 14,754.27 |          |                  |          |          |
| ANALISIS UNITARIO              | <b>MATERIALES</b>                                  |       |       |       |           |      |           |          |                  |          |          |
|                                | Hormigón Industrial F'c = 210 kgs/cms <sup>2</sup> |       |       |       |           |      |           | 0.57     | mts <sup>3</sup> | 5,074.00 | 2,916.92 |
|                                | Servicio de Bombeo Hormigón Industrial             |       |       |       |           |      |           | 0.57     | mts <sup>3</sup> | 590.00   | 339.18   |
|                                |  | 1     | 1/2   | 30    |           | 0.20 | qq        | 1,942.62 | 390.47           |          |          |
|                                |  | 1     | 3/4   | 30    |           | 0.45 | qq        | 1,942.62 | 874.18           |          |          |
|                                |  | 5     | 3/8   | 20    |           | 0.39 | qq        | 1,942.62 | 749.85           |          |          |
|                                |  |       |       |       |           | 1.04 | lb        | 48.95    | 50.76            |          |          |
|                                |  |       |       |       |           | 0.00 | u         | 4.72     | 0.00             |          |          |
|                                | <b>MANO DE OBRA</b>                                |       |       |       |           |      |           |          |                  |          |          |
|                                | Colocación de Acero en Vigas de Pórtico            |       |       |       |           |      |           | 1.04     | qq               | 311.50   | 323.03   |
| Encofrado viga 0.20 X 0.40     |  |       |       |       |           |      | 3.65      | m        | 623.00           | 2,273.95 |          |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |           |      |           |          |                  |          |          |
| Herramientas y Equipos         |  |       |       |       |           |      | 3.00      | %        | 5,321.35         | 159.64   |          |
| Transporte interno             |  |       |       |       |           |      | 3.00      | %        | 5,321.35         | 159.64   |          |
|                                |  |       |       |       |           |      |           |          | 8,077.97         |          |          |

|                                |  | L     | A     | H     | volumen h | area |           |          |                  |          |          |
|--------------------------------|--|-------|-------|-------|-----------|------|-----------|----------|------------------|----------|----------|
|                                |  | 2.4   | 0.2   | 0.3   | 0.14      |      |           |          |                  |          |          |
| Viga V1T/V3T                   |  | CANT. | DIAM. | LONG. | 0.14      | m3   | 28,448.75 |          |                  |          |          |
| ANALISIS UNITARIO              | <b>MATERIALES</b>                                  |       |       |       |           |      |           |          |                  |          |          |
|                                | Hormigón Industrial F'c = 210 kgs/cms <sup>2</sup> |       |       |       |           |      |           | 0.15     | mts <sup>3</sup> | 5,074.00 | 767.19   |
|                                | Servicio de Bombeo Hormigón Industrial             |       |       |       |           |      |           | 0.15     | mts <sup>3</sup> | 590.00   | 89.21    |
|                                |  | 3     | 1/2   | 20    |           | 0.40 | qq        | 1,942.62 | 777.05           |          |          |
|                                |  | 4     | 3/8   | 20    |           | 0.31 | qq        | 1,942.62 | 598.33           |          |          |
|                                |  |       |       |       |           | 0.71 | lb        | 48.95    | 34.66            |          |          |
|                                |  |       |       |       |           | 0.00 | u         | 4.72     | 0.00             |          |          |
|                                | <b>MANO DE OBRA</b>                                |       |       |       |           |      |           |          |                  |          |          |
|                                | Colocación de Acero en Vigas de Amarre             |       |       |       |           |      |           | 2.40     | m                | 111.25   | 267.00   |
|                                | Encofrado viga 0.20 X 0.40                         |       |       |       |           |      |           | 2.40     | m                | 623.00   | 1,495.20 |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |           |      |           |          |                  |          |          |
| Herramientas y Equipos         |  |       |       |       |           |      | 3.00      | %        | 2,266.43         | 67.99    |          |
| Transporte interno             |  |       |       |       |           |      | 3.00      | %        | 2,266.43         | 67.99    |          |
|                                |  |       |       |       |           |      |           |          | 4,096.62         |          |          |

|                                |  | L     | A     | H     | volumen h | area |           |          |                  |          |          |
|--------------------------------|--|-------|-------|-------|-----------|------|-----------|----------|------------------|----------|----------|
|                                |  | 6     | 0.2   | 0.3   | 0.36      |      |           |          |                  |          |          |
| Viga V2T                       |  | CANT. | DIAM. | LONG. | 0.36      | m3   | 31,910.35 |          |                  |          |          |
| ANALISIS UNITARIO              | <b>MATERIALES</b>                                  |       |       |       |           |      |           |          |                  |          |          |
|                                | Hormigón Industrial F'c = 210 kgs/cms <sup>2</sup> |       |       |       |           |      |           | 0.38     | mts <sup>3</sup> | 5,074.00 | 1,917.97 |
|                                | Servicio de Bombeo Hormigón Industrial             |       |       |       |           |      |           | 0.38     | mts <sup>3</sup> | 590.00   | 223.02   |
|                                |  | 4     | 3/4   | 25    |           | 1.50 | qq        | 1,942.62 | 2,918.79         |          |          |
|                                |  | 2     | 1/2   | 25    |           | 0.34 | qq        | 1,942.62 | 650.78           |          |          |
|                                |  | 7     | 3/8   | 20    |           | 0.54 | qq        | 1,942.62 | 1,049.01         |          |          |
|                                |  |       |       |       |           | 2.38 | lb        | 48.95    | 116.38           |          |          |
|                                |  |       |       |       |           | 0.00 | u         | 4.72     | 0.00             |          |          |
|                                | <b>MANO DE OBRA</b>                                |       |       |       |           |      |           |          |                  |          |          |
|                                | Colocación de Acero en Vigas de Amarre             |       |       |       |           |      |           | 6.00     | m                | 111.25   | 667.50   |
| Encofrado viga 0.20 X 0.40     |  |       |       |       |           |      | 6.00      | m        | 623.00           | 3,738.00 |          |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |           |      |           |          |                  |          |          |
| Herramientas y Equipos         |  |       |       |       |           |      | 3.00      | %        | 6,875.95         | 206.28   |          |
| Transporte interno             |  |       |       |       |           |      | 3.00      | %        | 6,875.95         | 206.28   |          |
|                                |  |       |       |       |           |      |           |          | 11,487.73        |          |          |



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ANALISIS UNITARIOS

| L    | A    | H    | volumen h | area   |
|------|------|------|-----------|--------|
| 6.75 | 1.3  | 0.12 | 1.053     | 8.775  |
| 6.34 | 6.25 | 0.12 | 3.9842    | 33.285 |
| 2.47 | 6.6  | 0.12 | 2.01652   | 16.736 |
| 6.45 | 2.4  | 0.12 | 1.9576    | 15.48  |
| 4.3  | 3.55 | 0.12 | 1.8834    | 15.695 |

Losa 0.12m CANT. DIAM. LONG. 10.80 m3 12,320.55

**MATERIALES**  
 Hormigón Industrial F'c = 210 kgs/cms<sup>2</sup>  
 Servicio de Bombeo Hormigón Industrial  
 Acero Grado 60  
 Acero Grado 60  
 Acero Grado 60  
 Alambre N°. 18  
 Calzo 2.5cms

|          |           |
|----------|-----------|
| 5,074.00 | 57,506.90 |
| 690.00   | 6,692.90  |
| 1,942.62 | 6,182.39  |
| 1,942.62 | 11,986.96 |
| 1,942.62 | 16,854.97 |
| 48.95    | 927.87    |
| 4.72     | 0.00      |

**MANO DE OBRA**  
 Encofrado losas H = 3.85M  
 Colocación de Acero en Losa

|        |           |
|--------|-----------|
| 222.50 | 70,031.90 |
| 89.00  | 8,012.76  |

**EQUIPOS TRANSP. INTERNO**  
 Herramientas y Equipos  
 Transporte interno

|            |            |
|------------|------------|
| 102,003.07 | 3,060.09   |
| 102,003.07 | 3,060.09   |
|            | 133,107.82 |

ANALISIS UNITARIO

| L    | A    | H    | volumen h | area    |
|------|------|------|-----------|---------|
| 5.95 | 5.95 | 0.12 | 4.2483    | 35.4025 |

Losa de fondo cisterna CANT. DIAM. LONG. 4.25 m3 9,101.94

**MATERIALES**  
 Hormigón Industrial F'c = 210 kgs/cms<sup>2</sup>  
 Servicio de Bombeo Hormigón Industrial  
 Acero Grado 60  
 Acero Grado 60  
 Alambre N°. 18  
 Calzo 2.5cms

|          |           |
|----------|-----------|
| 0,074.00 | 22,533.67 |
| 590.00   | 2,631.82  |
| 1,942.62 | 4,495.22  |
| 1,942.62 | 4,495.22  |
| 48.95    | 226.54    |
| 4.72     | 0.00      |

**MANO DE OBRA**  
 Encofrado losas H = 3.85M  
 Colocación de Acero en Losa  
**EQUIPOS TRANSP. INTERNO**  
 Herramientas y Equipos  
 Transporte interno

|           |           |
|-----------|-----------|
| 222.50    | 0.00      |
| 89.00     | 3,160.83  |
| 34,482.47 | 1,034.47  |
| 34,482.47 | 1,034.47  |
|           | 38,667.77 |

ANALISIS UNITARIO

| L    | A    | H    | volumen h | area    |
|------|------|------|-----------|---------|
| 5.95 | 8.35 | 0.12 | 4.2483    | 35.4025 |

Losa de techo cisterna CANT. DIAM. LONG. 4.25 m3 10,956.11

**MATERIALES**  
 Hormigón Industrial F'c = 210 kgs/cms<sup>2</sup>  
 Servicio de Bombeo Hormigón Industrial  
 Acero Grado 60  
 Acero Grado 60  
 Alambre N°. 18  
 Calzo 2.5cms

|          |           |
|----------|-----------|
| 5,074.00 | 22,533.67 |
| 690.00   | 2,631.82  |
| 1,942.62 | 4,495.22  |
| 1,942.62 | 4,495.22  |
| 48.95    | 226.54    |
| 4.72     | 0.00      |

**MANO DE OBRA**  
 Encofrado losas H = 3.85M  
 Colocación de Acero en Losa

|        |          |
|--------|----------|
| 222.50 | 7,877.06 |
| 89.00  | 3,160.82 |

**EQUIPOS TRANSP. INTERNO**  
 Herramientas y Equipos  
 Transporte interno

|           |           |
|-----------|-----------|
| 34,482.47 | 1,034.47  |
| 34,482.47 | 1,034.47  |
|           | 46,844.63 |

ANALISIS UNITARIO



*Alfonso Paredes*



ANALISIS UNITARIOS

| L | A | H | volumen h | area |
|---|---|---|-----------|------|
| 1 | 1 | 1 | 1         | 1    |

| ANALISIS UNITARIO              | Tapa cisterna                          | CANT. | DIAM. | LONG. | 1.00 | m3       | 6,146.69 |
|--------------------------------|--|-------|-------|-------|------|----------|----------|
|                                | <b>MATERIALES</b>                      |       |       |       |      |          |          |
|                                | Tapa cisterna                          | 1.00  |       |       | u    | 4,895.00 | 4,895.00 |
|                                | Mortero 1:3 para colocación de bloques | 0.05  |       |       | mts³ | 4,171.61 | 208.58   |
| <b>MANO DE OBRA</b>            |  |       |       |       |      |          |          |
|                                | Colocacion tapa cisterna               | 1.00  |       |       | m2   | 890.00   | 890.00   |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |      |          |          |
|                                | Herramientas y Equipos                 | 3.00  |       |       | %    | 5,103.58 | 153.11   |
|                                | Transporte interno                     | 3.00  |       |       | %    | 5,103.58 | 153.11   |
|                                |  |       |       |       |      |          | 6,146.69 |

| L  | A   | H    | volumen h | area |
|----|-----|------|-----------|------|
| 20 | 0.4 | 0.13 | 1.04      |      |

| ANALISIS UNITARIO              | Refuerzo plano                         | CANT. | DIAM. | LONG. | 1.04  | m3        | 18,556.60 |
|--------------------------------|--|-------|-------|-------|-------|-----------|-----------|
|                                | <b>MATERIALES</b>                      |       |       |       |       |           |           |
|                                | Hormigón Industrial F'c = 210 kgs/cms² |       |       |       | 1.09  | mts³      | 5,074.00  |
|                                | Servicio de Bombeo Hormigón Industrial |       |       |       | 1.09  | mts³      | 590.00    |
|                                | Acero Grado 60                         | 7     | 1/2   | 20    | 0.93  | qq        | 1,942.62  |
|                                | Acero Grado 60                         | 7     | 3/4   | 20    | 2.10  | qq        | 1,942.62  |
|                                | Acero Grado 60                         | 17    | 3/8   | 20    | 1.31  | qq        | 1,942.62  |
|                                | Alambre N°. 18                         |       |       |       | 4.35  | lb        | 48.95     |
|                                | Calzo 2.5cms                           |       |       |       | 0.00  | u         | 4.72      |
|                                |  |       |       |       |       |           | 0.00      |
| <b>MANO DE OBRA</b>            |  |       |       |       |       |           |           |
|                                | Encofrado Dinteles                     |       |       |       | 0.00  | m         | 178.00    |
|                                | Colocación de Acero en Vigas de Amarre |       |       |       | 20.00 | m         | 111.25    |
|                                | Vaciado de hormigón en elementos       |       |       |       | 20.00 | m         | 83.00     |
|                                |  |       |       |       |       |           | 1,760.00  |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |       |           |           |
|                                | Herramientas y Equipos                 | 3.00  |       |       | %     | 14,848.41 | 445.45    |
|                                | Transporte interno                     | 3.00  |       |       | %     | 14,848.41 | 445.45    |
|                                |  |       |       |       |       |           | 19,298.87 |

| L | A   | H    | volumen h | area |
|---|-----|------|-----------|------|
| 5 | 0.9 | 0.12 | 0.54      |      |

| ANALISIS UNITARIO              | Escalera                               | CANT. | DIAM. | LONG. | 0.54 | m3       | 25,016.01 |
|--------------------------------|--|-------|-------|-------|------|----------|-----------|
|                                | <b>MATERIALES</b>                      |       |       |       |      |          |           |
|                                | Hormigón Industrial F'c = 210 kgs/cms² |       |       |       | 0.57 | mts³     | 5,074.00  |
|                                | Servicio de Bombeo Hormigón Industrial |       |       |       | 0.57 | mts³     | 590.00    |
|                                | Acero Grado 60                         | 4     | 1/2   | 30    | 0.80 | qq       | 1,942.62  |
|                                | Acero Grado 60                         | 7     | 3/8   | 20    | 0.54 | qq       | 1,942.62  |
|                                | Alambre N°. 18                         |       |       |       | 1.34 | lb       | 48.95     |
|                                | Calzo 2.5cms                           |       |       |       | 0.00 | u        | 4.72      |
|                                |  |       |       |       |      |          | 0.00      |
| <b>MANO DE OBRA</b>            |  |       |       |       |      |          |           |
|                                | Colocación Acero Rampa Escalera        |       |       |       | 1.00 | m        | 4,450.00  |
|                                | Encofrado escalera                     |       |       |       | 1.00 | m        | 3,000.00  |
|                                |  |       |       |       |      |          | 3,000.00  |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |      |          |           |
|                                | Herramientas y Equipos                 | 3.00  |       |       | %    | 5,882.18 | 176.47    |
|                                | Transporte interno                     | 3.00  |       |       | %    | 5,882.18 | 176.47    |
|                                |  |       |       |       |      |          | 13,508.65 |



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| L | A | H   | volumen h | area |
|---|---|-----|-----------|------|
| 5 | 5 | 0.1 | 2.5       | 25   |

| ANALISIS UNITARIO              | CANT.   | DIAM.  | LONG. | 25.00 | m2        | 806.02    |
|--------------------------------|---|--------|-------|-------|-----------|-----------|
|                                | Losas de piso hormigon / 0.10 m / 210kgm /cm2 |        |       |       |           |           |
| <b>MATERIALES</b>              |   |        |       |       |           |           |
|                                | 210   | KG/CM2 | 2.63  | m3    | 5,074.00  | 13,319.25 |
|                                |   |        | 2.63  | m3    | 590.00    | 1,548.75  |
|                                |   |        | 0.00  | qq    | 1,942.62  | 0.00      |
|                                |   |        | 0.00  | lb    | 48.95     | 0.00      |
|                                |   |        | 0.00  | u     | 4.72      | 0.00      |
| <b>MANO DE OBRA</b>            |   |        |       |       |           |           |
|                                |   |        | 25.00 | m2    | 26.70     | 667.50    |
|                                |   |        | 0.00  | m2    | 133.50    | 0.00      |
|                                |   |        | 1.00  | dia   | 534.00    | 534.00    |
|                                |   |        | 25.00 | m2    | 133.50    | 3,337.50  |
| <b>EQUIPOS TRANSP. INTERNO</b> |   |        |       |       |           |           |
|                                |   |        | 2.00  | %     | 14,868.00 | 297.36    |
|                                |   |        | 3.00  | %     | 14,868.00 | 446.04    |
|                                |   |        |       |       |           | 20,150.40 |

| L | A | H | volumen h | area |
|---|---|---|-----------|------|
| 1 | 1 | 1 | 1         | 1    |

| ANALISIS UNITARIO              | CANT.                  | DIAM. | LONG. | 1.00 | m2       | 1,108.23 |
|--------------------------------|------------------------|-------|-------|------|----------|----------|
|                                | Bloques de 8" @ 0.40 m |       |       |      |          |          |
| <b>MATERIALES</b>              |                        |       |       |      |          |          |
|                                |                        |       | 0.06  | mts² | 4,168.92 | 255.14   |
|                                |                        |       | 0.04  | mts² | 4,171.61 | 162.69   |
|                                |                        |       | 13.00 | uds  | 26.54    | 344.96   |
|                                |                        |       | 0.05  | qq   | 1,942.62 | 95.77    |
|                                |                        |       | 0.10  | lbs  | 48.95    | 4.83     |
| <b>MANO DE OBRA</b>            |                        |       |       |      |          |          |
|                                |                        |       | 13.00 | uds  | 13.35    | 173.55   |
|                                |                        |       | 13.00 | uds  | 1.78     | 23.14    |
|                                |                        |       | 1.00  | mts² | 22.25    | 22.25    |
| <b>EQUIPOS TRANSP. INTERNO</b> |                        |       |       |      |          |          |
|                                |                        |       | 3.00  | %    | 863.39   | 25.90    |
|                                |                        |       |       |      |          | 1,108.23 |

| L | A | H | volumen h | area |
|---|---|---|-----------|------|
| 1 | 1 | 1 | 1         | 1    |

| ANALISIS UNITARIO              | CANT.                     | DIAM. | LONG. | 1.00 | m2       | 985.45 |
|--------------------------------|---------------------------|-------|-------|------|----------|--------|
|                                | Bloques de 6" 3/8 @ 0.40m |       |       |      |          |        |
| <b>MATERIALES</b>              |                           |       |       |      |          |        |
|                                |                           |       | 0.05  | mts² | 4,168.92 | 200.11 |
|                                |                           |       | 0.03  | mts² | 4,171.61 | 130.15 |
|                                |                           |       | 13.00 | uds  | 26.54    | 267.73 |
|                                |                           |       | 0.05  | qq   | 1,942.62 | 95.77  |
|                                |                           |       | 0.10  | lbs  | 48.95    | 4.83   |
| <b>MANO DE OBRA</b>            |                           |       |       |      |          |        |
|                                |                           |       | 13.00 | u    | 13.35    | 173.55 |
|                                |                           |       | 13.00 | u    | 1.78     | 23.14  |
|                                |                           |       | 13.00 | u    | 2.00     | 25.00  |
|                                |                           |       | 1.00  | mts² | 22.25    | 22.25  |
| <b>EQUIPOS TRANSP. INTERNO</b> |                           |       |       |      |          |        |
|                                |                           |       | 3.00  | %    | 698.59   | 20.96  |
|                                |                           |       | 3.00  | %    | 698.59   | 20.96  |
|                                |                           |       |       |      |          | 985.45 |



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|  | L     | A     | H     | volumen h | area |          |        |
|--|-------|-------|-------|-----------|------|----------|--------|
|  | 1     | 1     | 1     | 1         | 1    |          |        |
| Bloques de 6" 3/8 @ 0.80m especial     | CANT. | DIAM. | LONG. | 1.00      | m2   | 749.78   |        |
| <b>MATERIALES</b>                      |       |       |       |           |      |          |        |
| Hormigón Simple (1:3:5)                |       |       |       | 0.01      | mts³ | 4,168.92 | 41.69  |
| Mortero 1:3 para colocación de bloques |       |       |       | 0.03      | mts³ | 4,171.61 | 130.15 |
| Bloques de hormigón e= 0.15 mts        |       |       |       | 13.00     | uds  | 20.59    | 267.73 |
| Acero Grado 60                         |       |       |       | 0.03      | qq   | 1,942.62 | 58.28  |
| Alambre N°. 18                         |       |       |       | 0.06      | lbs  | 48.95    | 2.94   |
| <b>MANO DE OBRA</b>                    |       |       |       |           |      |          |        |
| Colocación de bloques                  |       |       |       | 13.00     | uds  | 13.36    | 173.55 |
| Corte y amarre de acero                |       |       |       | 13.00     | uds  | 1.78     | 23.14  |
| Andamios para la colocación de bloques |       |       |       | 1.00      | mts² | 22.25    | 22.25  |
| <b>EQUIPOS TRANSP. INTERNO</b>         |       |       |       |           |      |          |        |
| Herramientas y Equipos                 |       |       |       | 3.00      | %    | 500.79   | 15.02  |
| Transporte interno                     |       |       |       | 3.00      | %    | 500.79   | 15.02  |
|  |       |       |       |           |      | 749.78   |        |

|                                      | L     | A     | H     | volumen h | area |          |       |
|--------------------------------------|-------|-------|-------|-----------|------|----------|-------|
|                                      | 1     | 1     | 1     | 1         | 1    |          |       |
| Fraguache en superficies de concreto | CANT. | DIAM. | LONG. | 1.00      | m2   | 47.05    |       |
| <b>MATERIALES</b>                    |       |       |       |           |      |          |       |
| Mortero 1:5 para fraguache           |       |       |       | 0.00      | mts³ | 3,303.00 | 6.61  |
| <b>MANO DE OBRA</b>                  |       |       |       |           |      |          |       |
| Picoteo elementos de Hormigón        |       |       |       | 1.00      | uds  | 17.80    | 17.80 |
| Aplicación fraguache                 |       |       |       | 1.00      | uds  | 22.25    | 22.25 |
| <b>EQUIPOS TRANSP. INTERNO</b>       |       |       |       |           |      |          |       |
| Herramientas y Equipos               |       |       |       | 3.00      | %    | 6.61     | 0.20  |
| Transporte interno                   |       |       |       | 3.00      | %    | 6.61     | 0.20  |
|                                      |       |       |       |           |      | 47.05    |       |

|                                  | L     | A     | H     | volumen h | area |          |       |
|----------------------------------|-------|-------|-------|-----------|------|----------|-------|
|                                  | 1     | 1     | 1     | 1         | 1    |          |       |
| Cantos en general                | CANT. | DIAM. | LONG. | 1.00      | m2   | 59.19    |       |
| <b>MATERIALES</b>                |       |       |       |           |      |          |       |
| Mortero 1:4 para pañete          |       |       |       | 0.004     | mts³ | 4,994.01 | 17.48 |
| Regla pañete madera 1"x 4" x 14" |       |       |       | 0.03      | mts³ | 190.90   | 4.77  |
| <b>MANO DE OBRA</b>              |       |       |       |           |      |          |       |
| Confección cantos en mortero     |       |       |       | 1.00      | uds  | 35.60    | 35.60 |
| <b>EQUIPOS TRANSP. INTERNO</b>   |       |       |       |           |      |          |       |
| Herramientas y Equipos           |       |       |       | 3.00      | %    | 22.25    | 0.67  |
| Transporte interno               |       |       |       | 3.00      | %    | 22.25    | 0.67  |
|                                  |       |       |       |           |      | 59.19    |       |

|                                  | L     | A     | H     | volumen h | area |          |        |
|----------------------------------|-------|-------|-------|-----------|------|----------|--------|
|                                  | 1     | 1     | 1     | 1         | 1    |          |        |
| Pañete maestriado pulido muros   | CANT. | DIAM. | LONG. | 1.00      | m2   | 340.10   |        |
| <b>MATERIALES</b>                |       |       |       |           |      |          |        |
| Cemento Gris                     |       |       |       | 0.05      | mts³ | 258.10   | 13.68  |
| Mortero 1:4 para pañete          |       |       |       | 0.03      | mts³ | 4,994.01 | 124.85 |
| Regla pañete madera 1"x 4" x 14" |       |       |       | 0.01      | mts³ | 190.90   | 1.91   |
| <b>MANO DE OBRA</b>              |       |       |       |           |      |          |        |
| Aplicación pañete maestreado     |       |       |       | 1.00      | uds  | 80.10    | 80.10  |
| Pulido pañete manual             |       |       |       | 1.00      | uds  | 66.75    | 66.75  |
| Andamios para Pañete Interior    |       |       |       | 1.00      | mts² | 44.50    | 44.50  |
| <b>EQUIPOS TRANSP. INTERNO</b>   |       |       |       |           |      |          |        |
| Herramientas y Equipos           |       |       |       | 3.00      | %    | 138.53   | 4.16   |
| Transporte interno               |       |       |       | 3.00      | %    | 138.53   | 4.16   |
|                                  |       |       |       |           |      | 340.10   |        |



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|                   |                                | L     | A     | H     | volumen h | area   |          |        |  |
|-------------------|--------------------------------|-------|-------|-------|-----------|--------|----------|--------|--|
|                   |                                | 1     | 1     | 1     | 1         | 1      |          |        |  |
| ANALISIS UNITARIO | Pañete maestriado interior     | CANT. | DIAM. | LONG. | 1.00      | m2     | 273.35   |        |  |
|                   | <b>MATERIALES</b>              |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 0.05      | mts²   | 258.10   | 13.68  |  |
|                   |                                |       |       |       | 0.03      | mts²   | 4,994.01 | 124.85 |  |
|                   |                                |       |       |       | 0.01      | mts²   | 190.90   | 1.91   |  |
|                   | <b>MANO DE OBRA</b>            |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 1.00      | uds    | 80.10    | 80.10  |  |
|                   |                                |       |       |       | 1.00      | mts²   | 44.50    | 44.50  |  |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 3.00      | %      | 138.53   | 4.16   |  |
|                   |                                |       |       | 3.00  | %         | 138.53 | 4.16     |        |  |
|                   |                                |       |       |       |           |        | 273.35   |        |  |

|                   |                                | L     | A     | H     | volumen h | area   |          |        |  |
|-------------------|--------------------------------|-------|-------|-------|-----------|--------|----------|--------|--|
|                   |                                | 1     | 1     | 1     | 1         | 1      |          |        |  |
| ANALISIS UNITARIO | Pañete maestriado exterior     | CANT. | DIAM. | LONG. | 1.00      | m2     | 326.75   |        |  |
|                   | <b>MATERIALES</b>              |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 0.05      | mts²   | 258.10   | 13.68  |  |
|                   |                                |       |       |       | 0.03      | mts²   | 4,994.01 | 124.85 |  |
|                   |                                |       |       |       | 0.01      | mts²   | 190.90   | 1.91   |  |
|                   | <b>MANO DE OBRA</b>            |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 1.00      | uds    | 80.10    | 80.10  |  |
|                   |                                |       |       |       | 1.00      | mts²   | 97.90    | 97.90  |  |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 3.00      | %      | 138.53   | 4.16   |  |
|                   |                                |       |       | 3.00  | %         | 138.53 | 4.16     |        |  |
|                   |                                |       |       |       |           |        | 326.75   |        |  |

|                   |                                | L     | A     | H     | volumen h | area   |          |        |  |
|-------------------|--------------------------------|-------|-------|-------|-----------|--------|----------|--------|--|
|                   |                                | 1     | 1     | 1     | 1         | 1      |          |        |  |
| ANALISIS UNITARIO | Pañete maestriado techo        | CANT. | DIAM. | LONG. | 1.00      | m2     | 282.25   |        |  |
|                   | <b>MATERIALES</b>              |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 0.05      | mts²   | 258.10   | 13.68  |  |
|                   |                                |       |       |       | 0.03      | mts²   | 4,994.01 | 124.85 |  |
|                   |                                |       |       |       | 0.01      | mts²   | 190.90   | 1.91   |  |
|                   | <b>MANO DE OBRA</b>            |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 1.00      | uds    | 89.00    | 89.00  |  |
|                   |                                |       |       |       | 1.00      | mts²   | 44.50    | 44.50  |  |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 3.00      | %      | 138.53   | 4.16   |  |
|                   |                                |       |       | 3.00  | %         | 138.53 | 4.16     |        |  |
|                   |                                |       |       |       |           |        | 282.25   |        |  |

|                   |                                | L     | A     | H     | volumen h | area   |          |        |  |
|-------------------|--------------------------------|-------|-------|-------|-----------|--------|----------|--------|--|
|                   |                                | 1     | 1     | 1     | 1         | 1      |          |        |  |
| ANALISIS UNITARIO | Acera de hormigon              | CANT. | DIAM. | LONG. | 1.00      | m2     | 671.34   |        |  |
|                   | <b>MATERIALES</b>              |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 0.10      | mts²   | 5,074.00 | 507.40 |  |
|                   |                                |       |       |       | 0.00      | mts²   | 1,942.62 | 0.00   |  |
|                   |                                |       |       |       | 0.00      | mts²   | 48.95    | 0.00   |  |
|                   | <b>MANO DE OBRA</b>            |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 1.00      | uds    | 133.50   | 133.50 |  |
|                   |                                |       |       |       | 0.00      | uds    | 26.70    | 0.00   |  |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |           |        |          |        |  |
|                   |                                |       |       |       | 3.00      | %      | 507.40   | 15.22  |  |
|                   |                                |       |       | 3.00  | %         | 507.40 | 15.22    |        |  |
|                   |                                |       |       |       |           |        | 671.34   |        |  |



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|                                |  | L     | A     | H     | volumen h | vol    |           |        |  |
|--------------------------------|--|-------|-------|-------|-----------|--------|-----------|--------|--|
|                                |  | 1     | 1     | 0.05  | 0.05      | 0.05   |           |        |  |
| ANALISIS UNITARIO              | Hormigón pobre de nivelación y limpieza en el lecho de fundación / e=0.05 m; usar f'c=140 kg/cm2 | CANT. | DIAM. | LONG. | 0.05      | m3     | 11,508.10 |        |  |
|                                | <b>MATERIALES</b>  |       |       |       |           |        |           |        |  |
|                                | Hormigón Simple (1:3:5)  |       |       |       | 0.10      | mts³   | 4,168.92  | 416.89 |  |
|                                | <b>MANO DE OBRA</b>  |       |       |       |           |        |           |        |  |
|                                | Confección Losa en Hormigón Visto  |       |       |       | 1.00      | m2     | 133.50    | 133.50 |  |
| <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |       |           |        |           |        |  |
| Herramientas y Equipos         |  |       |       | 3.00  | %         | 416.89 | 12.51     |        |  |
| Transporte interno             |  |       |       | 3.00  | %         | 416.89 | 12.51     |        |  |
|                                |  |       |       |       |           |        | 575.41    |        |  |

|                    |  | L     | A     | H     | volumen h | area  |        |       |  |
|--------------------|--|-------|-------|-------|-----------|-------|--------|-------|--|
|                    |  | 1     | 1     | 1     | 1         | 1     |        |       |  |
| ANALISIS UNITARIO  | Interior. Incluye el tratamiento completo: preparación de superficie, masilla, base pintura final color Sw Lino 65 | CANT. | DIAM. | LONG. | 1.00      | m2    | 148.85 |       |  |
|                    | <b>MATERIALES</b>  |       |       |       |           |       |        |       |  |
|                    | Imprimador acrílico  |       |       |       | 0.08      | mts³  | 475.26 | 38.02 |  |
|                    | Pintura Acrilica Blanco 00   |       |       |       | 0.08      | mts³  | 633.68 | 50.69 |  |
|                    | <b>MANO DE OBRA</b>  |       |       |       |           |       |        |       |  |
|                    | Preparación paredes para pintura   |       |       |       | 1.00      | uds   | 8.90   | 8.90  |  |
|                    | Aplicación imprimador  |       |       |       | 1.00      | uds   | 13.35  | 13.35 |  |
|                    | Aplicación pintura paredes   |       |       |       | 1.00      | uds   | 35.60  | 35.60 |  |
|                    | <b>EQUIPOS TRANSP. INTERNO</b>   |       |       |       |           |       |        |       |  |
|                    | Herramientas y Equipos   |       |       |       | 3.00      | %     | 38.02  | 1.14  |  |
| Transporte interno |  |       |       | 3.00  | %         | 38.02 | 1.14   |       |  |
|                    |  |       |       |       |           |       | 148.85 |       |  |

|                    |   | L     | A     | H     | volumen h | area  |        |       |  |
|--------------------|---|-------|-------|-------|-----------|-------|--------|-------|--|
|                    |   | 1     | 1     | 1     | 1         | 1     |        |       |  |
| ANALISIS UNITARIO  | Exterior. Incluye el tratamiento completo: preparación de superficie, masilla, base pintura final color SW blanco Colonial 66 | CANT. | DIAM. | LONG. | 1.00      | m2    | 139.95 |       |  |
|                    | <b>MATERIALES</b>   |       |       |       |           |       |        |       |  |
|                    | Imprimador acrílico   |       |       |       | 0.08      | mts³  | 475.26 | 38.02 |  |
|                    | Pintura Acrilica Blanco 00  |       |       |       | 0.08      | mts³  | 633.68 | 50.69 |  |
|                    | <b>MANO DE OBRA</b>   |       |       |       |           |       |        |       |  |
|                    | Aplicación imprimador   |       |       |       | 1.00      | u     | 13.35  | 13.35 |  |
|                    | Aplicación pintura paredes  |       |       |       | 1.00      | u     | 35.60  | 35.60 |  |
|                    | Uso de guindola   |       |       |       | 0.00      | u     | 22.25  | 0.00  |  |
|                    | <b>EQUIPOS TRANSP. INTERNO</b>  |       |       |       |           |       |        |       |  |
|                    | Herramientas y Equipos  |       |       |       | 3.00      | %     | 38.02  | 1.14  |  |
| Transporte interno |   |       |       | 3.00  | %         | 38.02 | 1.14   |       |  |
|                    |   |       |       |       |           |       | 139.95 |       |  |

|                        |                                    | L     | A     | H     | volumen h | area   |        |        |  |
|------------------------|------------------------------------|-------|-------|-------|-----------|--------|--------|--------|--|
|                        |                                    | 1     | 1     | 1     | 1         | 1      |        |        |  |
| ANALISIS UNITARIO      | Paragomas                          | CANT. | DIAM. | LONG. | 1.00      | m3     | 960.73 |        |  |
|                        | <b>MATERIALES</b>                  |       |       |       |           |        |        |        |  |
|                        | Paragomas de Hormigon              |       |       |       | 1.00      | u      | 564.45 | 564.45 |  |
|                        | <b>MANO DE OBRA</b>                |       |       |       |           |        |        |        |  |
|                        | Instalacion y Pintura Paragomas de |       |       |       | 1.00      | u      | 271.81 | 271.81 |  |
|                        | Transporte paragomas de Hormigon   |       |       |       | 1.00      | u      | 90.60  | 90.60  |  |
|                        | <b>EQUIPOS TRANSP. INTERNO</b>     |       |       |       |           |        |        |        |  |
| Herramientas y Equipos |                                    |       |       | 3.00  | %         | 564.45 | 16.93  |        |  |
| Transporte interno     |                                    |       |       | 3.00  | %         | 564.45 | 16.93  |        |  |
|                        |                                    |       |       |       |           |        | 960.73 |        |  |



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ANALISIS UNITARIOS

|                   |                                | L                                | A     | H     | volumen h | area |            |        |       |
|-------------------|--------------------------------|----------------------------------|-------|-------|-----------|------|------------|--------|-------|
|                   |                                | 1                                | 1     | 1     | 1         | 1    |            |        |       |
| ANALISIS UNITARIO | <b>Pintura interior</b>        | CANT.                            | DIAM. | LONG. | 1.00      | m2   | 147.71     |        |       |
|                   | <b>MATERIALES</b>              |                                  |       |       |           |      |            |        |       |
|                   |                                | Imprimador acrilico              |       |       |           | 0.08 | u          | 475.26 | 38.02 |
|                   |                                | Pintura Acrilica Blanco 00       |       |       |           | 0.00 | gl         | 633.68 | 50.69 |
|                   | <b>MANO DE OBRA</b>            |                                  |       |       |           |      |            |        |       |
|                   |                                | Preparación paredes para pintura |       |       |           | 1.00 | m2         | 8.90   | 8.90  |
|                   |                                | Aplicación imprimador            |       |       |           | 1.00 | aplicacion | 13.35  | 13.35 |
|                   |                                | Aplicación pintura paredes       |       |       |           | 1.00 | aplicacion | 35.60  | 35.60 |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |                                  |       |       |           |      |            |        |       |
|                   |                                | Herramientas y Equipos           |       |       |           | 3.00 | %          | 38.02  | 1.14  |
|                   | Transporte interno             |                                  |       |       | 3.00      | %    | 38.02      | 1.14   |       |
|                   |                                |                                  |       |       |           |      | 147.71     |        |       |

|                   |                                | L                                      | A     | H     | volumen h | area |            |          |        |
|-------------------|--------------------------------|--|-------|-------|-----------|------|------------|----------|--------|
|                   |                                | 1                                      | 1     | 1     | 1         | 1    |            |          |        |
| ANALISIS UNITARIO | <b>Fino de techo</b>           | CANT.                                  | DIAM. | LONG. | 1.00      | m2   | 581.45     |          |        |
|                   | <b>MATERIALES</b>              |  |       |       |           |      |            |          |        |
|                   |                                | Mortero 1:3 para colocación de bloques |       |       |           | 0.08 | u          | 4,171.61 | 333.73 |
|                   |                                | Regla pañete madera 1"x 4" x 14"       |       |       |           | 0.10 | gl         | 190.90   | 19.09  |
|                   | <b>MANO DE OBRA</b>            |  |       |       |           |      |            |          |        |
|                   |                                | Aplicación fino de techo               |       |       |           | 1.00 | m2         | 111.25   | 111.25 |
|                   |                                | Peón por la casa                       |       |       |           | 0.20 | aplicacion | 534.00   | 106.80 |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |           |      |            |          |        |
|                   |                                | Herramientas y Equipos                 |       |       |           | 3.00 | %          | 352.82   | 10.58  |
|                   |                                | Transporte interno                     |       |       |           | 3.00 | %          | 0.00     | 0.00   |
|                   |                                |  |       |       |           |      | 581.45     |          |        |

|                   |                                | L                                      | A     | H     | volumen h | area |            |          |        |
|-------------------|--------------------------------|--|-------|-------|-----------|------|------------|----------|--------|
|                   |                                | 1                                      | 1     | 1     | 1         | 1    |            |          |        |
| ANALISIS UNITARIO | <b>Zabaleta</b>                | CANT.                                  | DIAM. | LONG. | 1.00      | m2   | 199.71     |          |        |
|                   | <b>MATERIALES</b>              |  |       |       |           |      |            |          |        |
|                   |                                | Mortero 1:3 para colocación de bloques |       |       |           | 0.01 | u          | 4,171.61 | 20.86  |
|                   |                                | Regla pañete madera 1"x 4" x 14"       |       |       |           | 0.02 | gl         | 190.90   | 3.82   |
|                   | <b>MANO DE OBRA</b>            |  |       |       |           |      |            |          |        |
|                   |                                | Aplicación zabaleta en mortero         |       |       |           | 1.00 | m2         | 66.75    | 66.75  |
|                   |                                | Peón por la casa                       |       |       |           | 0.20 | aplicacion | 534.00   | 106.80 |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |  |       |       |           |      |            |          |        |
|                   |                                | Herramientas y Equipos                 |       |       |           | 3.00 | %          | 24.68    | 0.74   |
|                   |                                | Transporte interno                     |       |       |           | 3.00 | %          | 24.68    | 0.74   |
|                   |                                |  |       |       |           |      | 199.71     |          |        |

|                   |                                     | L  | A     | H     | volumen h | area |        |          |        |
|-------------------|-------------------------------------|--|-------|-------|-----------|------|--------|----------|--------|
|                   |                                     | 1  | 1     | 1     | 1         | 1    |        |          |        |
| ANALISIS UNITARIO | <b>Piso en granito fondo blanco</b> | CANT.                                      | DIAM. | LONG. | 1.00      | m2   | 934.15 |          |        |
|                   | <b>MATERIALES</b>                   |  |       |       |           |      |        |          |        |
|                   |                                     | Piso en granito fondo blanco               |       |       |           | 1.00 | mts²   | 489.50   | 489.50 |
|                   |                                     | Mortero 1:10 para Pisos                    |       |       |           | 0.06 | m3     | 3,457.54 | 207.45 |
|                   |                                     | Derretido pegaforte                        |       |       |           | 0.06 | fta    | 311.50   | 16.39  |
|                   | <b>MANO DE OBRA</b>                 |  |       |       |           |      |        |          |        |
|                   |                                     | Colocación de cerámica en piso tradicional |       |       |           | 1.00 | m2     | 178.00   | 178.00 |
|                   |                                     | Pulido y brillo de piso                    |       |       |           | 1.00 | m2     | 0.00     | 0.00   |
|                   | <b>EQUIPOS TRANSP. INTERNO</b>      |  |       |       |           |      |        |          |        |
|                   |                                     | Herramientas y Equipos                     |       |       |           | 3.00 | %      | 713.35   | 21.40  |
|                   | Transporte interno                  |  |       |       | 3.00      | %    | 713.35 | 21.40    |        |
|                   |                                     |  |       |       |           |      | 934.15 |          |        |



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ANALISIS UNITARIOS

| L | A | H | volumen h | area |
|---|---|---|-----------|------|
| 1 | 1 | 1 | 1         | 1    |

| ANALISIS UNITARIO              | CANT.                     | DIAM. | LONG. | 1.00 | m3     | 590.96 |
|--------------------------------|---------------------------|-------|-------|------|--------|--------|
|                                | <b>Relleno compactado</b> |       |       |      |        |        |
| <u>MATERIALES</u>              |                           |       |       |      |        |        |
|                                |                           |       | 1.00  | mts² | 400.50 | 400.50 |
|                                |                           |       | 1.00  | mts² | 79.21  | 79.21  |
|                                |                           |       | 1.00  | mts² | 111.25 | 111.25 |
|                                |                           |       | 1.00  | mts² | 0.00   | 0.00   |
| <u>EQUIPOS TRANSP. INTERNO</u> |                           |       |       |      |        |        |
|                                |                           |       | 0.00  | %    | 400.50 | 0.00   |
|                                |                           |       | 0.00  | %    | 400.50 | 0.00   |
|                                |                           |       |       |      |        | 590.96 |

| L | A | H | volumen h | area |
|---|---|---|-----------|------|
| 1 | 1 | 1 | 1         | 1    |

| ANALISIS UNITARIO              | CANT.                     | DIAM. | LONG. | 1.00 | m3     | 190.46 |
|--------------------------------|---------------------------|-------|-------|------|--------|--------|
|                                | <b>Relleno reposicion</b> |       |       |      |        |        |
| <u>MATERIALES</u>              |                           |       |       |      |        |        |
|                                |                           |       | 0.00  | mts² | 400.50 | 0.00   |
|                                |                           |       | 1.00  | mts² | 79.21  | 79.21  |
|                                |                           |       | 1.00  | mts² | 111.25 | 111.25 |
|                                |                           |       | 1.00  | mts² | 0.00   | 0.00   |
| <u>EQUIPOS TRANSP. INTERNO</u> |                           |       |       |      |        |        |
|                                |                           |       | 0.00  | %    | 0.00   | 0.00   |
|                                |                           |       | 0.00  | %    | 0.00   | 0.00   |
|                                |                           |       |       |      |        | 190.46 |

| L | A | H   | volumen h | area |
|---|---|-----|-----------|------|
| 1 | 1 | 0.1 | 0.1       | 1    |

| ANALISIS UNITARIO              | CANT.                  | DIAM. | LONG. | 1.00 | m3     | 164.12 |
|--------------------------------|------------------------|-------|-------|------|--------|--------|
|                                | <b>Gravilla regada</b> |       |       |      |        |        |
| <u>MATERIALES</u>              |                        |       |       |      |        |        |
|                                |                        |       | 0.10  | mts² | 801.00 | 80.10  |
|                                |                        |       | 1.00  | mts² | 79.21  | 79.21  |
| <u>EQUIPOS TRANSP. INTERNO</u> |                        |       |       |      |        |        |
|                                |                        |       | 3.00  | %    | 80.10  | 2.40   |
|                                |                        |       | 3.00  | %    | 80.10  | 2.40   |
|                                |                        |       |       |      |        | 164.12 |

| L | A | H | volumen h | area |
|---|---|---|-----------|------|
| 1 |   |   | 0         | 0    |

| ANALISIS UNITARIO              | CANT.                     | DIAM. | LONG. | 1.00 | m        | 2,477.39 |
|--------------------------------|---------------------------|-------|-------|------|----------|----------|
|                                | <b>TUBERIA 6" DRENAJE</b> |       |       |      |          |          |
| <u>MATERIALES</u>              |                           |       |       |      |          |          |
|                                |                           |       | 1.00  | u    | 498.40   | 523.32   |
|                                |                           |       | 1.00  | gl   | 1,246.00 | 1,246.00 |
|                                |                           |       | 1.00  | lb   | 93.45    | 93.45    |
|                                |                           |       | 0.72  | m3a  | 801.00   | 576.72   |
| <u>MANO DE OBRA</u>            |                           |       |       |      |          |          |
|                                |                           |       | 1.00  | m    | 35.50    | 0.36     |
|                                |                           |       | 0.84  | m3n  | 634.00   | 4.49     |
|                                |                           |       | 0.81  | m3c  | 190.46   | 1.54     |
|                                |                           |       | 0.03  | m3e  | 356.00   | 0.12     |
| <u>EQUIPOS TRANSP. INTERNO</u> |                           |       |       |      |          |          |
|                                |                           |       | 3.00  | %    | 523.32   | 15.70    |
|                                |                           |       | 3.00  | %    | 523.32   | 15.70    |
|                                |                           |       |       |      |          | 2,477.39 |



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ANALISIS UNITARIOS

|                   |                                | L                             | A     | H     | volumen h | area |                 |          |          |
|-------------------|--------------------------------|-------------------------------|-------|-------|-----------|------|-----------------|----------|----------|
|                   |                                | 1                             |       |       | 0         | 0    |                 |          |          |
| ANALISIS UNITARIO | <b>TUBERIA 4" PRESION</b>      | CANT.                         | DIAM. | LONG. | 1.00      | m    |                 | 2,260.73 |          |
|                   | <b>MATERIALES</b>              |                               |       |       |           |      |                 |          |          |
|                   |                                | Tuberia 4" presion            |       |       |           | 0.17 | u               | 1,191.35 | 204.70   |
|                   |                                | Coupling 4"                   |       |       |           | 2.05 | u               | 178.00   | 364.90   |
|                   |                                | Cemento PVC                   |       |       |           | 1.00 | gl              | 1,246.00 | 1,246.00 |
|                   |                                | Tee 4"                        |       |       |           |      |                 |          |          |
|                   |                                | Estopa                        |       |       |           | 1.00 | lb              | 93.45    | 93.45    |
|                   |                                | Arena gruesa                  |       |       |           | 0.42 | m3a             | 801.00   | 336.42   |
|                   | <b>MANO DE OBRA</b>            |                               |       |       |           |      |                 |          |          |
|                   |                                | Recorrido tuberia 4"          |       |       |           | 1.00 | m               | 31.15    | 0.31     |
|                   |                                | Excavacion a Mano en Material |       |       |           | 0.36 | m3n             | 934.00   | 1.92     |
|                   |                                | Relleno reposicion            |       |       |           | 0.33 | m3c             | 190.46   | 0.62     |
|                   |                                | Bote de Material excavado     |       |       |           | 0.03 | m3a             | 356.00   | 0.12     |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |                               |       |       |           |      |                 |          |          |
|                   |                                | Herramientas y Equipos        |       |       |           | 3.00 | %               | 204.70   | 6.14     |
|                   | Transporte interno             |                               |       |       | 3.00      | %    | 204.70          | 6.14     |          |
|                   |                                |                               |       |       |           |      | <b>2,260.73</b> |          |          |

|                   |                                   | L                      | A     | H     | volumen h | area |    |                 |          |
|-------------------|-----------------------------------|------------------------|-------|-------|-----------|------|----|-----------------|----------|
|                   |                                   | 1                      |       |       | 0         | 0    |    |                 |          |
| ANALISIS UNITARIO | <b>BAJANTE PLUVIAL 4" DRENAJE</b> | CANT.                  | DIAM. | LONG. | 1.00      | u    |    | 5,686.62        |          |
|                   | <b>MATERIALES</b>                 |                        |       |       |           |      |    |                 |          |
|                   |                                   | Tuberia 4"             |       |       |           | 1.50 | u  | 1,216.22        | 1,624.33 |
|                   |                                   | Couplin 4"             |       |       |           | 2.00 | u  | 69.00           | 178.00   |
|                   |                                   | Codo 4"                |       |       |           | 1.00 | u  | 72.96           | 72.96    |
|                   |                                   | Yee 6"                 |       |       |           | 1.00 | u  | 2,670.00        | 2,670.00 |
|                   |                                   | Reduccion de 6" a 4"   |       |       |           | 1.00 | u  | 667.50          | 667.50   |
|                   |                                   | Cemento PVC            |       |       |           | 0.08 | gl | 1,246.00        | 103.83   |
|                   |                                   | Estopa                 |       |       |           | 0.33 | lb | 93.45           | 31.15    |
|                   | <b>MANO DE OBRA</b>               |                        |       |       |           |      |    |                 |          |
|                   |                                   | Bajante pluvial p/piso |       |       |           | 3.00 | u  | 979.00          | 29.37    |
|                   | <b>EQUIPOS TRANSP. INTERNO</b>    |                        |       |       |           |      |    |                 |          |
|                   |                                   | Herramientas y Equipos |       |       |           | 3.00 | %  | 1,624.33        | 54.73    |
|                   |                                   | Transporte interno     |       |       |           | 3.00 | %  | 1,624.33        | 54.73    |
|                   |                                   |                        |       |       |           |      |    | <b>5,686.62</b> |          |

|                   |                                | L                               | A     | H     | volumen h | area |                 |          |          |
|-------------------|--------------------------------|---------------------------------|-------|-------|-----------|------|-----------------|----------|----------|
|                   |                                | 1                               |       |       | 0         | 0    |                 |          |          |
| ANALISIS UNITARIO | <b>VENTILACION 3"</b>          | CANT.                           | DIAM. | LONG. | 1.00      | u    |                 | 1,854.08 |          |
|                   | <b>MATERIALES</b>              |                                 |       |       |           |      |                 |          |          |
|                   |                                | Tuberia 3"                      |       |       |           | 1.50 | u               | 751.07   | 1,126.61 |
|                   |                                | Couplin 3"                      |       |       |           | 2.00 | u               | 178.00   | 356.00   |
|                   |                                | Codo 3"                         |       |       |           | 1.00 | u               | 33.82    | 33.82    |
|                   |                                | Codo 3" x 45                    |       |       |           | 2.00 | u               | 33.82    | 67.64    |
|                   |                                | Reduccion de 3" a 4"            |       |       |           | 1.00 | u               | 40.05    | 40.05    |
|                   |                                | Cemento PVC                     |       |       |           | 0.08 | gl              | 1,246.00 | 103.83   |
|                   |                                | Estopa                          |       |       |           | 0.33 | lb              | 93.45    | 31.15    |
|                   | <b>MANO DE OBRA</b>            |                                 |       |       |           |      |                 |          |          |
|                   |                                | Mano de obra ventilacion x piso |       |       |           | 1.00 | u               | 979.00   | 9.79     |
|                   |                                | Roturas                         |       |       |           | 1.00 | u               | 1,759.10 | 17.59    |
|                   | <b>EQUIPOS TRANSP. INTERNO</b> |                                 |       |       |           |      |                 |          |          |
|                   |                                | Herramientas y Equipos          |       |       |           | 3.00 | %               | 1,126.61 | 33.80    |
|                   |                                | Transporte interno              |       |       |           | 3.00 | %               | 1,126.61 | 33.80    |
|                   |                                |                                 |       |       |           |      | <b>1,854.08</b> |          |          |



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ANALISIS UNITARIOS

|  | L A H volumen h area |          |     |          |
|--|----------------------|----------|-----|----------|
|  | 1                    | 0        | 0   | 0        |
| <b>TUBERIA 1" PRESION</b>                | 2,010.51             |          |     |          |
| <b>MATERIALES</b>                        |                      |          |     |          |
| Tubería 1" presión                       | 129.00               | 22.17    | u   |          |
| Couplin 1"                               | 89.00                | 89.00    | u   |          |
| Reduccion de 1" a 1/2"                   | 89.00                | 89.00    | u   |          |
| Tee de 1"                                | 178.00               | 178.00   | u   |          |
| Cemento PVC                              | 1,246.00             | 1,246.00 | g   |          |
| Estopa                                   | 93.45                | 93.45    | lb  |          |
| Arena gruesa                             | 801.00               | 289.36   | m3a |          |
| <b>MANO DE OBRA</b>                      |                      |          |     |          |
| Recorrido tubería 1"                     | 14.24                | 0.43     | m   |          |
| Excavacion a Mano en Material Compactado | 534.00               | 1.92     | m3n |          |
| Relleno reposicion                       | 190.46               | 0.50     | m3c |          |
| Bote de Material excavado                | 366.00               | 0.36     | m3a |          |
| <b>EQUIPOS TRANSP. INTERNO</b>           |                      |          |     |          |
| Herramientas y Equipos                   | 22.17                | 0.67     | %   |          |
| Transporte interno                       | 22.17                | 0.67     | %   |          |
|  |                      |          |     | 2,010.51 |

ANALISIS UNITARIO

|                                | L A H volumen h area |          |    |          |
|--------------------------------|----------------------|----------|----|----------|
|                                | 1                    | 0        | 0  | 0        |
| <b>TUBERIA 4" PRESION</b>      | 4,197.75             |          |    |          |
| <b>MATERIALES</b>              |                      |          |    |          |
| Tubería 4"                     | 1,216.22             | 208.97   | u  |          |
| Couplin 4"                     | 89.00                | 178.00   | u  |          |
| Codo 4"                        | 72.96                | 72.96    | u  |          |
| Yes 6"                         | 2,670.00             | 2,670.00 | u  |          |
| Reduccion de 6" a 4"           | 667.50               | 667.50   | u  |          |
| Cemento PVC                    | 1,246.00             | 103.83   | g  |          |
| Estopa                         | 93.45                | 31.16    | lb |          |
| <b>MANO DE OBRA</b>            |                      |          |    |          |
| Bajante lluvia/ p/piso         | 979.00               | 29.37    | u  |          |
| <b>EQUIPOS TRANSP. INTERNO</b> |                      |          |    |          |
| Herramientas y Equipos         | 3,932.44             | 117.97   | %  |          |
| Transporte interno             | 3,932.44             | 117.97   | %  |          |
|                                |                      |          |    | 4,197.75 |

ANALISIS UNITARIO

|                                | L A H volumen h area |          |    |          |
|--------------------------------|----------------------|----------|----|----------|
|                                | 1                    | 0        | 0  | 0        |
| <b>Inodoro de tanque</b>       | 8,624.94             |          |    |          |
| <b>MATERIALES</b>              |                      |          |    |          |
| Inodoro de tanque              | 4,450.00             | 4,450.00 | u  |          |
| Llave angular                  | 216.27               | 216.27   | u  |          |
| Manguera flexible inodoro      | 145.07               | 145.07   | u  |          |
| Junta de cera                  | 64.08                | 64.08    | u  |          |
| Arandela                       | 111.25               | 222.50   | u  |          |
| Tornillos                      | 22.25                | 44.50    | u  |          |
| Cubre falta llave angular      | 120.16               | 120.16   | u  |          |
| Cemento blanco                 | 267.00               | 2.84     | lb |          |
| Salida 4"                      | 2,843.62             | 2,843.62 | lb |          |
| Salida 1/2"                    | 0.00                 | 0.00     | u  |          |
| <b>MANO DE OBRA</b>            |                      |          |    |          |
| Colocacion inodoro             | 979.00               | 29.37    | u  |          |
| <b>EQUIPOS TRANSP. INTERNO</b> |                      |          |    |          |
| Herramientas y Equipos         | 8,109.03             | 243.27   | %  |          |
| Transporte interno             | 8,109.03             | 243.27   | %  |          |
|                                |                      |          |    | 8,624.94 |

ANALISIS UNITARIO



*Apénero*

ANALISIS UNITARIOS

|                                | L     | A     | H     | volumen h | area |          |          |
|--------------------------------|-------|-------|-------|-----------|------|----------|----------|
|                                | 1     |       |       | 0         | 0    |          |          |
| Lavamanos                      | CANT. | DIAM. | LONG. | 1.00      | u    |          | 6,994.13 |
| <b>MATERIALES</b>              |       |       |       |           |      |          |          |
| Lavamanos                      |       |       |       | 1.00      | u    | 3,560.00 | 3,560.00 |
| Mezcladora lavamanos           |       |       |       |           |      |          |          |
| Llave angular                  |       |       |       | 1.00      | u    | 216.27   | 216.27   |
| Manguera flexible lavamanos    |       |       |       | 1.00      | u    | 136.17   | 136.17   |
| Palometas, tornillos, tarugos  |       |       |       | 1.00      | u    | 106.80   | 106.80   |
| Sifon 1 1/2"                   |       |       |       | 2.00      | u    | 267.00   | 534.00   |
| Colita extension               |       |       |       | 2.00      | u    | 294.59   | 589.18   |
| Cubre falta llave angular      |       |       |       | 1.00      | u    | 120.15   | 120.15   |
| Cemento blanco                 |       |       |       | 0.01      | lb   | 267.00   | 2.84     |
| Salida 2"                      |       |       |       | 1.00      | u    | 1,485.75 | 1,485.75 |
| Salida 1/2"                    |       |       |       | 2.00      | u    | 0.00     | 0.00     |
| <b>MANO DE OBRA</b>            |       |       |       |           |      |          |          |
| Colocacion lavamanos           |       |       |       | 3.00      | u    | 979.00   | 29.37    |
| <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |           |      |          |          |
| Herramientas y Equipos         |       |       |       | 3.00      | %    | 3,560.00 | 106.80   |
| Transporte interno             |       |       |       | 3.00      | %    | 3,560.00 | 106.80   |
|                                |       |       |       |           |      |          | 6,994.13 |

ANALISIS UNITARIO

ANALISIS UNITARIO

ANALISIS UNITARIO

ANALISIS UNITARIO

|                                | L     | A     | H     | volumen h | area |          |          |
|--------------------------------|-------|-------|-------|-----------|------|----------|----------|
|                                | 1     |       |       | 0         | 0    |          |          |
| Desague de piso                | CANT. | DIAM. | LONG. | 1.00      | u    |          | 2,122.05 |
| <b>MATERIALES</b>              |       |       |       |           |      |          |          |
| Parrilla desague               |       |       |       | 1.00      | u    | 445.00   | 445.00   |
| Sifon 2"                       |       |       |       | 1.00      | u    | 97.90    | 97.90    |
| Cemento blanco                 |       |       |       | 0.01      | lb   | 267.00   | 2.84     |
| Salida 2"                      |       |       |       | 1.01      | lb   | 1,485.75 | 1,501.55 |
| <b>MANO DE OBRA</b>            |       |       |       |           |      |          |          |
| Colocacion desague de piso     |       |       |       | 3.00      | u    | 1,602.00 | 48.06    |
| <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |           |      |          |          |
| Herramientas y Equipos         |       |       |       | 3.00      | %    | 445.00   | 13.35    |
| Transporte interno             |       |       |       | 3.00      | %    | 445.00   | 13.35    |
|                                |       |       |       |           |      |          | 2,122.05 |

|                                | L     | A     | H     | volumen h | area |          |          |
|--------------------------------|-------|-------|-------|-----------|------|----------|----------|
|                                | 1     |       |       | 0         | 0    |          |          |
| Fregadero                      | CANT. | DIAM. | LONG. | 1.00      | u    |          | 8,052.00 |
| <b>MATERIALES</b>              |       |       |       |           |      |          |          |
| Fregadero                      |       |       |       | 1.00      | u    | 3,560.00 | 3,560.00 |
| Mezcladora fregadero           |       |       |       | 2.00      | u    | 1,335.00 | 2,670.00 |
| Llave angular                  |       |       |       | 1.00      | u    | 216.27   | 216.27   |
| Manguera flexible lavamanos    |       |       |       | 1.00      | u    | 136.17   | 136.17   |
| Sifon 1 1/2"                   |       |       |       | 2.00      | u    | 267.00   | 534.00   |
| Colita extension               |       |       |       | 2.00      | u    | 294.59   | 589.18   |
| Cubre falta llave angular      |       |       |       | 1.00      | u    | 120.15   | 120.15   |
| Cemento blanco                 |       |       |       | 0.01      | lb   | 267.00   | 2.84     |
| <b>MANO DE OBRA</b>            |       |       |       |           |      |          |          |
| Colocacion lavamanos           |       |       |       | 1.00      | u    | 979.00   | 9.79     |
| <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |           |      |          |          |
| Herramientas y Equipos         |       |       |       | 3.00      | %    | 3,560.00 | 106.80   |
| Transporte interno             |       |       |       | 3.00      | %    | 3,560.00 | 106.80   |
|                                |       |       |       |           |      |          | 8,052.00 |

|                                | L     | A     | H     | volumen h | area  |        |        |
|--------------------------------|-------|-------|-------|-----------|-------|--------|--------|
|                                | 1     |       |       | 0         | 0     |        |        |
| Llave de jardin                | CANT. | DIAM. | LONG. | 1.00      | u     |        | 414.65 |
| <b>MATERIALES</b>              |       |       |       |           |       |        |        |
| Llave de jardin                |       |       |       | 1.00      | u     | 356.00 | 356.00 |
| Teflon                         |       |       |       | 1.00      | rollo | 12.46  | 12.46  |
| Salida 1/2"                    |       |       |       | 1.00      | u     | 0.00   | 0.00   |
| <b>MANO DE OBRA</b>            |       |       |       |           |       |        |        |
| Colocacion llave de jardin     |       |       |       | 3.00      | u     | 827.70 | 24.83  |
| <b>EQUIPOS TRANSP. INTERNO</b> |       |       |       |           |       |        |        |
| Herramientas y Equipos         |       |       |       | 3.00      | %     | 356.00 | 10.68  |
| Transporte interno             |       |       |       | 3.00      | %     | 356.00 | 10.68  |
|                                |       |       |       |           |       |        | 414.65 |



*Alfonso Pérez*

ANALISIS UNITARIOS

| L | A | H | volumen h | area |
|---|---|---|-----------|------|
| 1 |   |   | 0         | 0    |

| CANT. | DIAM. | LONG. | 1.00 | U |  | 2,843.62 |
|-------|-------|-------|------|---|--|----------|
|       |       |       |      |   |  |          |

Salida 4"

| MATERIALES   | U    | valor    | U        | valor    |
|--------------|------|----------|----------|----------|
| Tuberia 4"   | 1.00 | 1,216.22 | 1,216.22 | 122.06   |
| Yee 4" a 45  | 1.00 | 122.06   | 122.06   | 64.09    |
| Codo 4" a 45 | 1.00 | 64.09    | 64.09    | 64.09    |
| Cemento PVC  | 1.00 | 1,246.00 | 1,246.00 | 1,246.00 |
| Estopa       | 1.00 | 93.45    | 93.45    | 93.45    |

MANO DE OBRA

| Materiales             | U    | valor  | U      | valor |
|------------------------|------|--------|--------|-------|
| Mano de obra Salida 4" | 3.00 | 712.00 | 712.00 | 21.36 |
| Ranuras                | 4.00 | 186.90 | 186.90 | 7.48  |

EQUIPOS TRANSP. INTERNO

| Herramientas y Equipos | U    | valor    | U        | valor    |
|------------------------|------|----------|----------|----------|
| Herramientas y Equipos | 3.00 | 1,216.22 | 1,216.22 | 35.49    |
| Transporte interno     | 3.00 | 1,216.22 | 1,216.22 | 28.49    |
|                        |      |          |          | 2,813.82 |

| L | A | H | volumen h | area |
|---|---|---|-----------|------|
| 1 |   |   | 0         | 0    |

| CANT. | DIAM. | LONG. | 1.00 | U |  | 1,485.75 |
|-------|-------|-------|------|---|--|----------|
|       |       |       |      |   |  |          |

Salida 2"

| MATERIALES         | U    | valor    | U        | valor    |
|--------------------|------|----------|----------|----------|
| Tuberia 2"         | 1.00 | 89.78    | 89.78    | 89.78    |
| Reduccion de 4 a 2 | 1.00 | 40.14    | 40.14    | 40.14    |
| Codo 2" a 45       | 1.00 | 10.52    | 10.52    | 10.52    |
| Cemento PVC        | 1.00 | 1,246.00 | 1,246.00 | 1,246.00 |
| Estopa             | 1.00 | 93.45    | 93.45    | 93.45    |

MANO DE OBRA

| Materiales             | U    | valor  | U      | valor |
|------------------------|------|--------|--------|-------|
| Mano de obra Salida 2" | 3.00 | 827.70 | 827.70 | 24.83 |
| Ranuras                | 4.00 | 196.90 | 196.90 | 7.48  |

EQUIPOS TRANSP. INTERNO

| Herramientas y Equipos | U    | valor | U     | valor    |
|------------------------|------|-------|-------|----------|
| Herramientas y Equipos | 3.00 | 89.78 | 89.78 | 1.79     |
| Transporte interno     | 3.00 | 89.78 | 89.78 | 1.79     |
|                        |      |       |       | 1,485.75 |

| CANT. | DIAM. | LONG. | 1.00 | U |  | 1,853.75 |
|-------|-------|-------|------|---|--|----------|
|       |       |       |      |   |  |          |

Salida 1/2" presion

| MATERIALES   | U    | valor    | U        | valor    |
|--------------|------|----------|----------|----------|
| Tuberia 1/2" | 1.00 | 392.70   | 392.70   | 392.70   |
| Codo 1/2"    | 1.00 | 49.51    | 49.51    | 49.51    |
| Tea 1/2"     | 2.00 | 13.91    | 13.91    | 27.82    |
| Cemento PVC  | 1.00 | 1,246.00 | 1,246.00 | 1,246.00 |
| Estopa       | 1.00 | 93.45    | 93.45    | 93.45    |

MANO DE OBRA

| Materiales               | U    | valor  | U      | valor |
|--------------------------|------|--------|--------|-------|
| Mano de obra Salida 1/2" | 3.00 | 827.70 | 827.70 | 24.83 |
| Ranuras                  | 4.00 | 196.90 | 196.90 | 7.48  |

EQUIPOS TRANSP. INTERNO

| Herramientas y Equipos | U    | valor  | U      | valor    |
|------------------------|------|--------|--------|----------|
| Herramientas y Equipos | 3.00 | 392.70 | 392.70 | 11.48    |
| Transporte interno     | 3.00 | 392.70 | 392.70 | 11.48    |
|                        |      |        |        | 1,853.75 |

| CANT. | DIAM. | LONG. | 1.00 | U |  | 1,482.65 |
|-------|-------|-------|------|---|--|----------|
|       |       |       |      |   |  |          |

Valvula 1/2" presion

| MATERIALES              | U    | valor    | U        | valor    |
|-------------------------|------|----------|----------|----------|
| Valvula de presion 1/2" | 1.00 | 1,068.00 | 1,068.00 | 1,068.00 |
| Adaptador macho 1/2"    | 1.00 | 178.00   | 178.00   | 178.00   |
| Teflon                  | 2.00 | 66.75    | 66.75    | 133.50   |
| Cemento PVC             | 0.02 | 1,246.00 | 1,246.00 | 24.92    |

MANO DE OBRA

| Materiales                            | U    | valor  | U      | valor |
|---------------------------------------|------|--------|--------|-------|
| Mano de obra instalacion valvula 1/2" | 3.00 | 471.70 | 471.70 | 14.16 |

EQUIPOS TRANSP. INTERNO

| Herramientas y Equipos | U    | valor    | U        | valor    |
|------------------------|------|----------|----------|----------|
| Herramientas y Equipos | 3.00 | 1,068.00 | 1,068.00 | 32.04    |
| Transporte interno     | 3.00 | 1,068.00 | 1,068.00 | 32.04    |
|                        |      |          |          | 1,482.65 |



*Alfonso P...*

ANALISIS ELECTRICOS

|                   |                                   |       |    |        |        |        |
|-------------------|-----------------------------------|-------|----|--------|--------|--------|
| ANALISIS UNITARIO | Luz cenital                       | 1.00  | m3 |        | 692.60 |        |
|                   | <b>MATERIALES</b>                 |       |    |        |        |        |
|                   | Alembre THW No.12                 | 42.00 | u  | 3.80   | 159.67 |        |
|                   | Tape electrico 3M                 | 1.00  | p  | 4.13   | 4.13   |        |
|                   | Caja octagonal 1/2                | 1.00  | u  | 42.01  | 42.01  |        |
|                   | tuberia pvc 1/2                   | 1.00  | u  | 52.51  | 52.51  |        |
|                   | Curva pvc 1/2                     | 1.00  | u  | 3.68   | 3.68   |        |
|                   | Rocetaporcelana                   | 1.00  | u  | 66.75  | 66.75  |        |
|                   | <b>MANO DE OBRA</b>               |       |    |        |        |        |
|                   | Intalacion y conexión luz cenital | 1.00  | p  | 356.00 | 356.00 |        |
|                   | <b>OTROS</b>                      |       |    |        |        |        |
|                   | Miscelaneos                       | 3.00  | %  | 261.99 | 7.86   |        |
|                   |                                   |       |    |        |        | 692.60 |

|                   |                                      |       |    |        |          |  |
|-------------------|--------------------------------------|-------|----|--------|----------|--|
| ANALISIS UNITARIO | Luz cenital de pared incluye lampara | 1.00  | m3 |        | 1,360.10 |  |
|                   | <b>MATERIALES</b>                    |       |    |        |          |  |
|                   | Alembre THW No.12                    | 42.00 | u  | 3.80   | 159.67   |  |
|                   | Tape electrico 3M                    | 1.00  | p  | 4.13   | 4.13     |  |
|                   | Caja octagonal 1/2                   | 1.00  | u  | 42.01  | 42.01    |  |
|                   | tuberia pvc 1/2                      | 1.00  | u  | 52.51  | 52.51    |  |
|                   | Curva pvc 1/2                        | 1.00  | u  | 3.68   | 3.68     |  |
|                   | Rocetaporcelana                      | 1.00  | u  | 66.75  | 66.75    |  |
|                   | Lampara de pared                     | 1.00  | u  | 667.50 | 667.50   |  |
|                   | <b>MANO DE OBRA</b>                  |       |    |        |          |  |
|                   | Intalacion y conexión luz cenital    | 1.00  | p  | 356.00 | 356.00   |  |
|                   | <b>OTROS</b>                         |       |    |        |          |  |
|                   | Miscelaneos                          | 3.00  | %  | 261.99 | 7.86     |  |
|                   |                                      |       |    |        | 1,360.10 |  |

|                   |                                      |       |    |        |          |  |
|-------------------|--------------------------------------|-------|----|--------|----------|--|
| ANALISIS UNITARIO | Luz cenital de pared incluye lampara | 1.00  | m3 |        | 1,360.10 |  |
|                   | <b>MATERIALES</b>                    |       |    |        |          |  |
|                   | Alembre THW No.12                    | 42.00 | u  | 3.80   | 159.67   |  |
|                   | Tape electrico 3M                    | 1.00  | p  | 4.13   | 4.13     |  |
|                   | Caja octagonal 1/2                   | 1.00  | u  | 42.01  | 42.01    |  |
|                   | tuberia pvc 1/2                      | 1.00  | u  | 52.51  | 52.51    |  |
|                   | Curva pvc 1/2                        | 1.00  | u  | 3.68   | 3.68     |  |
|                   | Rocetaporcelana                      | 1.00  | u  | 66.75  | 66.75    |  |
|                   | Lampara de pared                     | 1.00  | u  | 667.50 | 667.50   |  |
|                   | <b>MANO DE OBRA</b>                  |       |    |        |          |  |
|                   | Intalacion y conexión luz cenital    | 1.00  | p  | 356.00 | 356.00   |  |
|                   | <b>OTROS</b>                         |       |    |        |          |  |
|                   | Miscelaneos                          | 3.00  | %  | 261.99 | 7.86     |  |
|                   |                                      |       |    |        | 1,360.10 |  |



*Alfonso Pérez*

ANALISIS ELECTRICOS

|                    |  |      |          |          |          |
|--------------------|--|------|----------|----------|----------|
| ANALISIS UNITARIO  | Lampara fluorescene                              | 1.00 | m3       |          | 2,368.46 |
|                    | <u>MATERIALES</u>                                |      |          |          |          |
|                    | Lámpara fluorescentes 3 x 32 W, Electrónicas, de | 1.00 | u        | 1,780.00 | 1,780.00 |
|                    | Tape eléctrico 3M                                | 0.25 | p        | 4.13     | 1.03     |
|                    | <u>MANO DE OBRA</u>                              |      |          |          |          |
| Intalacion lampara | 1.00   | p    | 534.00   | 534.00   |          |
| <u>OTROS</u>       |  |      |          |          |          |
| Miscelaneos        | 3.00   | %    | 1,781.03 | 53.43    |          |
|                    |  |      |          |          | 2,368.46 |

|                   |                                  |      |        |        |        |
|-------------------|----------------------------------|------|--------|--------|--------|
| ANALISIS UNITARIO | Globos con bombillo bajo Consumo | 1.00 | m3     |        | 759.73 |
|                   | <u>MATERIALES</u>                |      |        |        |        |
|                   | Lampara tipo globo               | 1.00 | u      | 445.00 | 445.00 |
|                   | Bombillo bajo consumo            | 0.25 | p      | 133.50 | 33.38  |
|                   | <u>MANO DE OBRA</u>              |      |        |        |        |
| Intalacion globo  | 1.00                             | p    | 267.00 | 267.00 |        |
| <u>OTROS</u>      |                                  |      |        |        |        |
| Miscelaneos       | 3.00                             | %    | 478.38 | 14.35  |        |
|                   |                                  |      |        |        | 759.73 |

|                   |                      |      |          |          |          |
|-------------------|----------------------|------|----------|----------|----------|
| ANALISIS UNITARIO | Lampara led exterior | 1.00 | m3       |          | 1,642.05 |
|                   | <u>MATERIALES</u>    |      |          |          |          |
|                   | Lampara led exterior | 1.00 | u        | 1,335.00 | 1,335.00 |
|                   | <u>MANO DE OBRA</u>  |      |          |          |          |
|                   | Intalacion globo     | 1.00 | p        | 267.00   | 267.00   |
| <u>OTROS</u>      |                      |      |          |          |          |
| Miscelaneos       | 3.00                 | %    | 1,335.00 | 40.05    |          |
|                   |                      |      |          |          | 1,642.05 |



*Alfonso Pina*

ANALISIS ELECTRICOS

| ANALISIS UNITARIO          |      |    |  |          |  |          |          |
|----------------------------|------|----|--|----------|--|----------|----------|
| Lampara led exterior       | 1.00 | m3 |  |          |  |          | 2,906.74 |
| <b>MATERIALES</b>          |      |    |  |          |  |          |          |
| Lampara tipo secador       | 1.00 | u  |  | 1,958.00 |  | 1,958.00 |          |
| <b>MANO DE OBRA</b>        |      |    |  |          |  |          |          |
| Intalacion lampara secador | 1.00 | p  |  | 890.00   |  | 890.00   |          |
| <b>OTROS</b>               |      |    |  |          |  |          |          |
| Miscelaneos                | 3.00 | %  |  | 1,958.00 |  | 58.74    |          |
|                            |      |    |  |          |  |          | 2,906.74 |

| ANALISIS UNITARIO               |       |    |  |        |  |        |        |
|---------------------------------|-------|----|--|--------|--|--------|--------|
| Interruptor sencillo            | 1.00  | m3 |  |        |  |        | 681.55 |
| <b>MATERIALES</b>               |       |    |  |        |  |        |        |
| Alambre THW No.12               | 42.00 | u  |  | 3.80   |  | 159.57 |        |
| Tape electrico 3M               | 1.00  | p  |  | 4.13   |  | 4.13   |        |
| Caja 2x4                        | 1.00  | u  |  | 35.60  |  | 35.60  |        |
| tuberia pvc 1/2                 | 1.00  | u  |  | 52.51  |  | 52.51  |        |
| Curva pvc 1/2                   | 1.00  | u  |  | 3.68   |  | 3.68   |        |
| Interruptor sencillo            | 1.00  | u  |  | 62.30  |  | 62.30  |        |
| <b>MANO DE OBRA</b>             |       |    |  |        |  |        |        |
| Intalacion Interruptor sencillo | 1.00  | p  |  | 356.00 |  | 356.00 |        |
| <b>OTROS</b>                    |       |    |  |        |  |        |        |
| Miscelaneos                     | 3.00  | %  |  | 255.59 |  | 7.87   |        |
|                                 |       |    |  |        |  |        | 681.55 |

| ANALISIS UNITARIO               |       |    |  |        |  |        |        |
|---------------------------------|-------|----|--|--------|--|--------|--------|
| Interruptor doble               | 1.00  | m3 |  |        |  |        | 799.38 |
| <b>MATERIALES</b>               |       |    |  |        |  |        |        |
| Alambre THW No.12               | 63.00 | u  |  | 3.80   |  | 239.51 |        |
| Tape electrico 3M               | 1.00  | p  |  | 4.13   |  | 4.13   |        |
| Caja 2x4                        | 1.00  | u  |  | 35.60  |  | 35.60  |        |
| tuberia pvc 1/2                 | 1.00  | u  |  | 52.51  |  | 52.51  |        |
| Curva pvc 1/2                   | 1.00  | u  |  | 3.68   |  | 3.68   |        |
| Interruptor doble               | 1.00  | u  |  | 97.90  |  | 97.90  |        |
| <b>MANO DE OBRA</b>             |       |    |  |        |  |        |        |
| Intalacion Interruptor sencillo | 1.00  | p  |  | 356.00 |  | 356.00 |        |
| <b>OTROS</b>                    |       |    |  |        |  |        |        |
| Miscelaneos                     | 3.00  | %  |  | 335.42 |  | 10.06  |        |
|                                 |       |    |  |        |  |        | 799.38 |

| ANALISIS UNITARIO               |        |    |  |        |  |        |        |
|---------------------------------|--------|----|--|--------|--|--------|--------|
| Interruptor tres vias           | 1.00   | m3 |  |        |  |        | 964.74 |
| <b>MATERIALES</b>               |        |    |  |        |  |        |        |
| Alambre THW No.12               | 105.00 | u  |  | 3.80   |  | 399.18 |        |
| Tape electrico 3M               | 1.00   | p  |  | 4.13   |  | 4.13   |        |
| Caja 2x4                        | 1.00   | u  |  | 35.60  |  | 35.60  |        |
| tuberia pvc 1/2                 | 1.00   | u  |  | 52.51  |  | 52.51  |        |
| Curva pvc 1/2                   | 1.00   | u  |  | 3.68   |  | 3.68   |        |
| Interruptor tres vias           | 1.00   | u  |  | 98.79  |  | 98.79  |        |
| <b>MANO DE OBRA</b>             |        |    |  |        |  |        |        |
| Intalacion Interruptor sencillo | 1.00   | p  |  | 356.00 |  | 356.00 |        |
| <b>OTROS</b>                    |        |    |  |        |  |        |        |
| Miscelaneos                     | 3.00   | %  |  | 495.09 |  | 14.85  |        |
|                                 |        |    |  |        |  |        | 964.74 |



*Jefferson Paez*

ANALISIS ELECTRICOS

|                   |                                |       |    |        |        |        |
|-------------------|--------------------------------|-------|----|--------|--------|--------|
| ANALISIS UNITARIO | Toma-corrientes doble 120 v.   | 1.00  | m3 |        | 752.75 |        |
|                   | <b>MATERIALES</b>              |       |    |        |        |        |
|                   | Alembre THW No.12              | 42.00 | u  | 3.80   | 159.67 |        |
|                   | Tape electrico 3M              | 1.00  | p  | 4.13   | 4.13   |        |
|                   | Caja 2x4                       | 1.00  | u  | 35.60  | 35.60  |        |
|                   | tuberia pvc 1/2                | 1.00  | u  | 52.51  | 52.51  |        |
|                   | Curva pvc 1/2                  | 1.00  | u  | 3.68   | 3.68   |        |
|                   | Toma corriente 120 VOLT.       | 1.00  | u  | 89.00  | 89.00  |        |
|                   | <b>MANO DE OBRA</b>            |       |    |        |        |        |
|                   | Intalacion toma corriente 110v | 1.00  | p  | 400.50 | 400.50 |        |
|                   | <b>OTROS</b>                   |       |    |        |        |        |
|                   | Miscelaneos                    | 3.00  | %  | 255.59 | 7.67   |        |
|                   |                                |       |    |        |        | 752.75 |

|                   |                                |        |    |        |          |          |
|-------------------|--------------------------------|--------|----|--------|----------|----------|
| ANALISIS UNITARIO | Toma-corrientes doble 220 v.   | 1.00   | m3 |        | 1,061.75 |          |
|                   | <b>MATERIALES</b>              |        |    |        |          |          |
|                   | Alembre THW No.12              | 105.00 | u  | 3.80   | 399.18   |          |
|                   | Tape electrico 3M              | 1.00   | p  | 4.13   | 4.13     |          |
|                   | Caja 2x4                       | 1.00   | u  | 35.60  | 35.60    |          |
|                   | tuberia pvc 1/2                | 1.00   | u  | 52.51  | 52.51    |          |
|                   | Curva pvc 1/2                  | 1.00   | u  | 3.68   | 3.68     |          |
|                   | TOMACORRIENTE 220 VOLT.        | 1.00   | u  | 106.80 | 106.80   |          |
|                   | <b>MANO DE OBRA</b>            |        |    |        |          |          |
|                   | Intalacion toma corriente 220v | 1.00   | p  | 445.00 | 445.00   |          |
|                   | <b>OTROS</b>                   |        |    |        |          |          |
|                   | Miscelaneos                    | 3.00   | %  | 495.09 | 14.85    |          |
|                   |                                |        |    |        |          | 1,061.75 |

|                   |                      |        |    |        |        |        |
|-------------------|----------------------|--------|----|--------|--------|--------|
| ANALISIS UNITARIO | Telefono y data      | 1.00   | m3 |        | 640.04 |        |
|                   | <b>MATERIALES</b>    |        |    |        |        |        |
|                   | Soga mensajero       | 105.00 | u  | 0.89   | 93.45  |        |
|                   | Tape electrico 3M    | 1.00   | p  | 4.13   | 4.13   |        |
|                   | Caja 2x4             | 1.00   | u  | 35.60  | 35.60  |        |
|                   | tuberia pvc 1/2      | 1.00   | u  | 52.51  | 52.51  |        |
|                   | Curva pvc 1/2        | 1.00   | u  | 3.68   | 3.68   |        |
|                   | Toma data            | 1.00   | u  | 89.00  | 89.00  |        |
|                   | <b>MANO DE OBRA</b>  |        |    |        |        |        |
|                   | Intalacion toma data | 1.00   | p  | 356.00 | 356.00 |        |
|                   | <b>OTROS</b>         |        |    |        |        |        |
|                   | Miscelaneos          | 3.00   | %  | 189.36 | 5.68   |        |
|                   |                      |        |    |        |        | 640.04 |



*Alfonso Pérez*



ANALISIS ELECTRICOS

|                   |                      |      |    |        |          |
|-------------------|----------------------|------|----|--------|----------|
| ANALISIS UNITARIO | Registros 10 x 10    | 1.00 | m3 |        | 2,051.50 |
|                   | <b>MATERIALES</b>    |      |    |        |          |
|                   | Soga mensajero       | 6.00 | p  | 0.89   | 5.34     |
|                   | tuberia pvc 3/4      | 1.00 | u  | 80.10  | 80.10    |
|                   | Curva pvc 3/4        | 1.00 | u  | 5.34   | 5.34     |
|                   | Registro 10 x 10     | 1.00 | u  | 979.00 | 979.00   |
|                   | <b>MANO DE OBRA</b>  |      |    |        |          |
|                   | Instalacion registro | 1.00 | p  | 979.00 | 979.00   |
|                   | <b>OTROS</b>         |      |    |        |          |
|                   | Miscelaneos          | 3.00 | %  | 90.78  | 2.72     |
|                   |                      |      |    |        | 2,051.50 |

|                   |                      |      |    |        |          |
|-------------------|----------------------|------|----|--------|----------|
| ANALISIS UNITARIO | Registros 8 x 8      | 1.00 | m3 |        | 1,918.00 |
|                   | <b>MATERIALES</b>    |      |    |        |          |
|                   | Soga mensajero       | 6.00 | p  | 0.89   | 5.34     |
|                   | tuberia pvc 3/4      | 1.00 | u  | 80.10  | 80.10    |
|                   | Curva pvc 3/4        | 1.00 | u  | 5.34   | 5.34     |
|                   | Registro 8 x 8       | 1.00 | u  | 845.50 | 845.50   |
|                   | <b>MANO DE OBRA</b>  |      |    |        |          |
|                   | Instalacion registro | 1.00 | p  | 979.00 | 979.00   |
|                   | <b>OTROS</b>         |      |    |        |          |
|                   | Miscelaneos          | 3.00 | %  | 90.78  | 2.72     |
|                   |                      |      |    |        | 1,918.00 |

|                   |  |       |    |          |          |
|-------------------|--|-------|----|----------|----------|
| ANALISIS UNITARIO | Panel de breaker 12 a 24               | 1.00  | m3 |          | 4,404.79 |
|                   | <b>MATERIALES</b>                      |       |    |          |          |
|                   | Alembre THW No.12                      | 8.00  | p  | 3.80     | 30.41    |
|                   | Breaker 10 A                           | 10.00 | u  | 178.00   | 1,780.00 |
|                   | Breaker 20 A                           | 2.00  | u  | 356.00   | 712.00   |
|                   | Panel de breaker 12 a 24               | 1.00  | u  | 890.00   | 890.00   |
|                   | <b>MANO DE OBRA</b>                    |       |    |          |          |
|                   | Instalacion y conexión caja de breaker | 1.00  | p  | 890.00   | 890.00   |
|                   | <b>OTROS</b>                           |       |    |          |          |
|                   | Miscelaneos                            | 3.00  | %  | 3,412.41 | 102.37   |
|                   |  |       |    |          | 4,404.79 |

|                   |  |      |    |          |          |
|-------------------|--|------|----|----------|----------|
| ANALISIS UNITARIO | Panel de breaker 8 a 16                | 1.00 | m3 |          | 3,579.76 |
|                   | <b>MATERIALES</b>                      |      |    |          |          |
|                   | Alembre THW No.12                      | 8.00 | p  | 3.80     | 30.41    |
|                   | Breaker 10 A                           | 6.00 | u  | 178.00   | 1,068.00 |
|                   | Breaker 20 A                           | 2.00 | u  | 356.00   | 712.00   |
|                   | Panel de breaker 8 a 16                | 1.00 | u  | 801.00   | 801.00   |
|                   | <b>MANO DE OBRA</b>                    |      |    |          |          |
|                   | Instalacion y conexión caja de breaker | 1.00 | p  | 890.00   | 890.00   |
|                   | <b>OTROS</b>                           |      |    |          |          |
|                   | Miscelaneos                            | 3.00 | %  | 2,611.41 | 78.34    |
|                   |  |      |    |          | 3,579.76 |



*Alfonso Pérez*

| Analisis Generales                    |  |          |                  | ANALISIS    |                        |                 |
|---------------------------------------|--|----------|------------------|-------------|------------------------|-----------------|
| <b>Hormigón Simple (1:3:5) a Mano</b> |  |          |                  | <b>1.00</b> | <b>MTS<sup>3</sup></b> | <b>4,168.92</b> |
| Num                                   | Concepto                                   | Cantidad | Unidad           | % Desp.     | P.U.                   | Valor           |
| <b>1</b>                              | <b>Insumos</b>                             |          |                  |             |                        | <b>2,789.42</b> |
| 1.1                                   | Agua                                       | 60.00    | gal              | 1.00        | 0.51                   | 30.42           |
| 1.2                                   | Cemento Gris                               | 6.50     | fda              | 1.00        | 258.10                 | 1,677.65        |
| 1.3                                   | Arena Gruesa                               | 0.50     | mts <sup>3</sup> | 1.00        | 801.00                 | 400.50          |
| 1.4                                   | Grava                                      | 0.85     | mts <sup>3</sup> | 1.00        | 801.00                 | 680.85          |
| <b>2</b>                              | <b>Mano de Obra</b>                        |          |                  |             |                        | <b>445.00</b>   |
| 2.1                                   | Ligado de hormigón                         | 1.00     | mts <sup>3</sup> | 1.00        | 445.00                 | 445.00          |
| <b>3</b>                              | <b>Herramientas y Equipos</b>              |          |                  |             |                        | <b>934.50</b>   |
| 3.1                                   | Uso de ligadora, combustible y lubricantes | 1.00     | mts <sup>3</sup> | 1.00        | 934.50                 | 934.50          |

| <b>Hormigón Simple (1:2:4) con Ligadora</b> |  |          |                  | <b>1.00</b> | <b>MTS<sup>3</sup></b> | <b>4,685.12</b> |
|---|--|----------|------------------|-------------|------------------------|-----------------|
| Num   | Concepto                                   | Cantidad | Unidad           | % Desp.     | P.U.                   | Valor           |
| <b>1</b>                                    | <b>Insumos</b>                             |          |                  |             |                        | <b>3,305.62</b> |
| 1.1   | Agua                                       | 60.00    | gal              | 1.00        | 0.51                   | 30.42           |
| 1.2   | Cemento Gris                               | 8.50     | fda              | 1.00        | 258.10                 | 2,193.85        |
| 1.3   | Arena Gruesa                               | 0.45     | mts <sup>3</sup> | 1.00        | 801.00                 | 360.45          |
| 1.4   | Grava                                      | 0.90     | mts <sup>3</sup> | 1.00        | 801.00                 | 720.90          |
| <b>2</b>                                    | <b>Mano de Obra</b>                        |          |                  |             |                        | <b>445.00</b>   |
| 2.1   | Ligado de hormigón                         | 1.00     | mts <sup>3</sup> | 1.00        | 445.00                 | 445.00          |
| <b>3</b>                                    | <b>Herramientas y Equipos</b>              |          |                  |             |                        | <b>934.50</b>   |
| 3.1   | Uso de ligadora, combustible y lubricantes | 1.00     | mts <sup>3</sup> | 1.00        | 934.50                 | 934.50          |

| <b>Mortero 1:3 para colocación de bloques</b> |                     |          |                  | <b>1.00</b> | <b>MTS<sup>3</sup></b> | <b>4,171.61</b> |
|---|---------------------|----------|------------------|-------------|------------------------|-----------------|
| Num   | Concepto            | Cantidad | Unidad           | % Desp.     | P.U.                   | Valor           |
| <b>1</b>                                      | <b>Insumos</b>      |          |                  |             |                        | <b>3,726.61</b> |
| 1.1   | Agua                | 69.00    | gal              | 1.00        | 0.51                   | 34.98           |
| 1.2   | Cemento Gris        | 11.51    | fda              | 1.00        | 258.10                 | 2,970.73        |
| 1.3   | Arena Gruesa        | 0.90     | mts <sup>3</sup> | 1.00        | 801.00                 | 720.90          |
| <b>2</b>                                      | <b>Mano de Obra</b> |          |                  |             |                        | <b>445.00</b>   |
| 2.1   | Ligado de hormigón  | 1.00     | mts <sup>3</sup> | 1.00        | 445.00                 | 445.00          |

| <b>Mortero 1:5 para fraguache</b> |                     |          |                  | <b>1.00</b> | <b>MTS<sup>3</sup></b> | <b>3,303.80</b> |
|-----------------------------------|---------------------|----------|------------------|-------------|------------------------|-----------------|
| Num                               | Concepto            | Cantidad | Unidad           | % Desp.     | P.U.                   | Valor           |
| <b>1</b>                          | <b>Insumos</b>      |          |                  |             |                        | <b>2,858.80</b> |
| 1.1                               | Agua                | 68.00    | gal              | 1.00        | 0.51                   | 34.47           |
| 1.2                               | Cemento Gris        | 7.56     | fda              | 1.00        | 258.10                 | 1,951.24        |
| 1.3                               | Arena Gruesa        | 1.09     | mts <sup>3</sup> | 1.00        | 801.00                 | 873.09          |
| <b>2</b>                          | <b>Mano de Obra</b> |          |                  |             |                        | <b>445.00</b>   |
| 2.1                               | Ligado de hormigón  | 1.00     | mts <sup>3</sup> | 1.00        | 445.00                 | 445.00          |

| <b>Mortero 1:4 para pañete</b> |  |          |                  | <b>1.00</b> | <b>MTS<sup>3</sup></b> | <b>4,994.01</b> |
|--------------------------------|--|----------|------------------|-------------|------------------------|-----------------|
| Num                            | Concepto                                   | Cantidad | Unidad           | % Desp.     | P.U.                   | Valor           |
| <b>1</b>                       | <b>Insumos</b>                             |          |                  |             |                        | <b>3,614.51</b> |
| 1.1                            | Agua                                       | 45.24    | gal              | 1.00        | 0.51                   | 22.93           |
| 1.2                            | Cemento Gris                               | 9.50     | fda              | 1.00        | 258.10                 | 2,451.95        |
| 1.3                            | Arena Gruesa                               | 1.00     | mts <sup>3</sup> | 1.00        | 801.00                 | 801.00          |
| 1.4                            | Cal 50 lbs                                 | 3.00     | fda              | 1.50        | 75.25                  | 338.62          |
| <b>2</b>                       | <b>Mano de Obra</b>                        |          |                  |             |                        | <b>445.00</b>   |
| 2.1                            | Ligado de hormigón                         | 1.00     | mts <sup>3</sup> | 1.00        | 445.00                 | 445.00          |
| <b>3</b>                       | <b>Herramientas y Equipos</b>              |          |                  |             |                        | <b>934.50</b>   |
| 3.1                            | Uso de ligadora, combustible y lubricantes | 1.00     | mts <sup>3</sup> | 1.00        | 934.50                 | 934.50          |

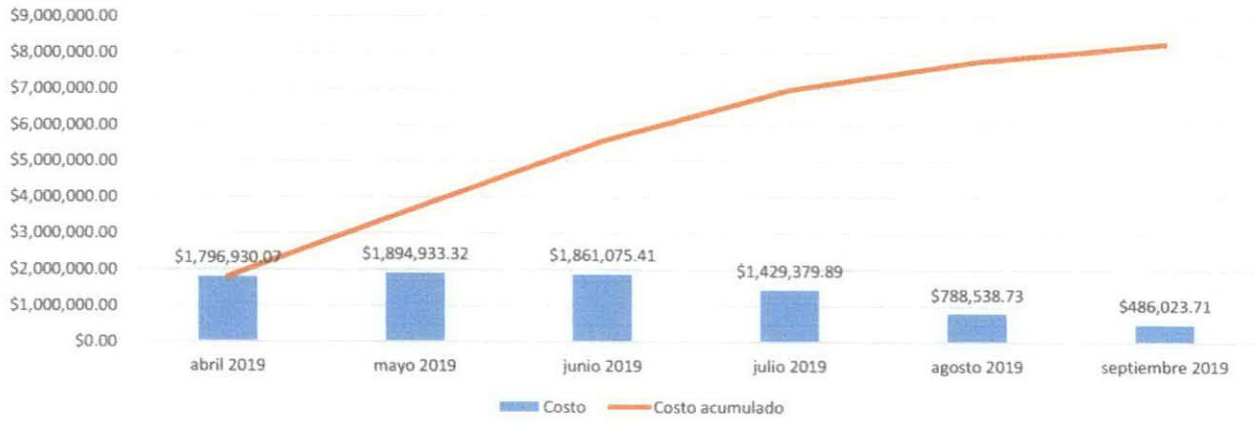
| <b>Mortero 1: 10 para piso</b> |  |          |                  | <b>1.00</b> | <b>MTS<sup>3</sup></b> | <b>3,457.54</b> |
|--------------------------------|--|----------|------------------|-------------|------------------------|-----------------|
| Num                            | Concepto                                   | Cantidad | Unidad           | % Desp.     | P.U.                   | Valor           |
| <b>1</b>                       | <b>Insumos</b>                             |          |                  |             |                        | <b>2,256.04</b> |
| 1.1                            | Agua                                       | 70.00    | gal              | 1.00        | 0.51                   | 35.49           |
| 1.2                            | Cemento Gris                               | 5.50     | fda              | 1.00        | 258.10                 | 1,419.55        |
| 1.3                            | Arena Gruesa                               | 1.00     | mts <sup>3</sup> | 1.00        | 801.00                 | 801.00          |
| <b>2</b>                       | <b>Mano de Obra</b>                        |          |                  |             |                        | <b>267.00</b>   |
| 2.1                            | Peón por la casa                           | 0.50     | día              | 1.00        | 534.00                 | 267.00          |
| <b>3</b>                       | <b>Herramientas y Equipos</b>              |          |                  |             |                        | <b>934.50</b>   |
| 3.1                            | Uso de ligadora, combustible y lubricantes | 1.00     | mts <sup>3</sup> | 1.00        | 934.50                 | 934.50          |

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FLUJO DE CAJA "JUZGADO DE PAZ CABRAL"

FLUJO DE CAJA



*Alfonso Pérez*