## “OBRAS DE MITIGACIÓN Y REDUCCIÓN DEL RIESGO DE DESASTRES EN DIFERENTES PUNTOS CRITICOS, EN EL MARCO DE LA DECLARATORIA DE CALAMIDAD PUBLICA POR TEMPORADA DE LLUVIAS 2022, DECRETO 101 DE 27 DE ABRIL DE 2022, PRORROGADO POR EL DECRETO 0301 DEL 29 DE OCTUBRE DE 2022, EN EL MUNICIPIO DE SAN JOSE DE CUCUTA”

| ITEM | DESCRIPCION | UND | CANT. | VLR. UNITARIO | VALOR PARCIAL |
|---|---|---|---|---|---|
| **I** | **INTERVENCION DRENAJES NATURALES Y PUNTOS CRITICOS** | | | | |
| **1.1** | **DRENAJE NATURAL FORTALEZA** | | | | |
| 1.1.1 | LOCALIZACION Y REPLANTEO | M2 | 5250.00 | $ 3,650 | $ 19,162,500.00 |
| 1.1.2 | EXCAVACION MECANICA EN ARCILLA DURA | M3 | 900.00 | $ 19,950 | $ 17,955,000.00 |
| 1.1.3 | EXCAVACION MANUAL | M3 | 99.00 | $ 59,500 | $ 5,890,500.00 |
| 1.1.4 | ROCERIA Y LIMPIEZA | M2 | 1000.00 | $ 2,250 | $ 2,250,000.00 |
| 1.1.5 | ADECUACIÓN DE MATERIAL SOBRANTE DE CORTE EN LOS TALUDES DE LOS DRENAJES NATURALES | M3 | 999.00 | $ 13,450 | $ 13,436,550.00 |
| 1.1.6 | GAVIONES CON MALLA GALVANIZADA TRIPLE TORSION 8X12 C/0.12 | M3 | 120.00 | $ 359,800 | $ 43,176,000.00 |
| 1.1.7 | RECUBRIMIENTO DE GAVIONES EN CONCRETO 3000 PSI ESPESOR 7 CM APROX | M3 | 43.20 | $ 899,600 | $ 38,862,720.00 |
| 1.1.8 | CONCRETO CIPLOPEO | M3 | 19.00 | $ 645,850 | $ 12,271,150.00 |
| **1.2** | **REHABILITACION PASO PEATONAL LA FORTALEZA** | | | | $ - |
| 1.2.1 | EXCAVACION MANUAL | M3 | 10.00 | $ 59,500 | $ 595,000.00 |
| 1.2.2 | ESTRIBOS EN CONCRETO 3000 PSI | M3 | 2.20 | $ 977,890 | $ 2,151,358.00 |
| 1.2.3 | ACERO DE REFUERZO | KG | 260.00 | $ 10,085 | $ 2,622,100.00 |
| 1.2.4 | RELLENO CON SUB BASE GRANULAR | M3 | 2.80 | $ 101,950 | $ 285,460.00 |
| 1.2.5 | VIGAS IPE-200 | KG | 650.00 | $ 16,000 | $ 10,400,000.00 |
| 1.2.6 | CONCRETO 3000 PSI | M3 | 3.00 | $ 959,670 | $ 2,879,010.00 |
| 1.2.7 | ACERO DE REFUERZO | KG | 270.00 | $ 10,085 | $ 2,722,950.00 |
| 1.2.8 | BARANDAS METALICAS 3" | ML | 24.00 | $ 698,000 | $ 16,752,000.00 |
| 1.2.11 | VIGA IPE-100 | KG | 200.00 | $ 16,000 | $ 3,200,000.00 |
| 1.2.12 | CONCRETO CICLOPEO | M3 | 2.00 | $ 645,850 | $ 1,291,700.00 |
| 1.2.13 | ANTEPISO EN CONCRETO DE 3000 PSI E= 0.08m CON MALLA ELECTROSOLDADA | M2 | 9.72 | $ 113,960 | $ 1,107,691.00 |
| **1.3** | **REHABILITACION DE VIAS EN PUNTOS CRITICOS** | | | | $ - |
| 1.3.1 | PERFILADO Y CONFORMACION | M2 | 5709.79 | $ 3,500 | $ 19,984,265.00 |
| 1.3.2 | RECEBO PARA MEJORAMIENTO DE VIA | M3 | 688.58 | $ 99,850 | $ 68,754,713.00 |
| 1.3.3 | EXCAVACION MECANICA PARA REMOCION DE DERRUMBRES | M3 | 1250.00 | $ 19,950 | $ 24,937,500.00 |
| 1.3.4 | RETIRO DE ESCOMBROS | M3 | 2296.71 | $ 38,760 | $ 89,020,480.00 |
| **1.4** | **INTERVENCION DRENAJES NATURALES** | | | | $ - |
| 1.4.1 | LOCALIZACION Y REPLANTEO | M2 | 7912.67 | $ 3,650 | $ 28,881,246.00 |
| 1.4.2 | LIMPIEZA Y DRAGADO MECANICO DE CANAL | M3 | 6330.13 | $ 20,200 | $ 127,868,626.00 |
| 1.4.3 | LIMPIEZA Y DRAGADO MANUAL | M3 | 1076.12 | $ 60,500 | $ 65,105,260.00 |
| 1.4.4 | RETIRO DE ESCOMBROS INCIUYE ACARRERO MANUAL DESDE EL CANAL AL SITIO DE CARGUE | M3 | 4073.44 | $ 40,500 | $ 164,974,320.00 |
| 1.4.5 | ROCERIA Y LIMPIEZA | M2 | 7912.67 | $ 2,250 | $ 17,803,508.00 |
| 1.4.6 | ADECUACIÓN DE MATERIAL SOBRANTE DE CORTE EN LOS TALUDES DE LOS DRENAJES NATURALES | M3 | 3332.82 | $ 13,450 | $ 44,826,429.00 |
| 1.4.7 | GAVIONES CON MALLA GALVANIZADA TRIPLE TORSION 8X12 C/0.12 | M3 | 450.00 | $ 359,800 | $ 161,910,000.00 |
| 1.4.8 | CONCRETO CIPLOPEO | M3 | 75.00 | $ 645,850 | $ 48,438,750.00 |
| 1.4.9 | RECUBRIMIENTO DE GAVIONES EN CONCRETO 3000 PSI ESPESOR 7 CM APROX | M3 | 67.50 | $ 899,600 | $ 60,723,000.00 |
| **1.5** | **CANALIZACION BRISAS DE LOS ANDES** | | | | |
| 1.5.1 | LOCALIZACION Y REPLANTEO | M2 | 850.00 | $ 3,650 | $ 3,102,500.00 |
| 1.5.2 | EXCAVACION MECANICA EN MATERIAL CONSOLIDADO | M3 | 1020.00 | $ 20,780 | $ 21,195,600.00 |
| 1.5.3 | EXCAVACION MANUAL | M3 | 306.00 | $ 59,500 | $ 18,207,000.00 |
| 1.5.4 | ROCERIA Y LIMPIEZA | M2 | 425.00 | $ 2,250 | $ 956,250.00 |
| 1.5.5 | ADECUACIÓN DE MATERIAL SOBRANTE DE CORTE EN LOS TALUDES DE LOS DRENAJES NATURALES | M3 | 1326.00 | $ 13,450 | $ 17,834,700.00 |
| 1.5.6 | GAVIONES CON MALLA GALVANIZADA TRIPLE TORSION 8X12 C/0.12 | M3 | 510.00 | $ 359,800 | $ 183,498,000.00 |
| 1.5.7 | RECUBRIMIENTO DE GAVIONES EN CONCRETO 3000 PSI ESPESOR 7 CM APROX | M3 | 122.40 | $ 899,600 | $ 110,111,040.00 |
| 1.5.8 | CONCRETO CIPLOPEO | M3 | 170.00 | $ 645,850 | $ 109,794,500.00 |
| **II** | **CONSTRUCCION DE BOX CULVERT JOSE BERNAL** | | | | |
| **2.1** | **PRELIMINARES** | | | | |
| 2.1.1 | LOCALIZACION Y REPLANTEO | M2 | 320.00 | $ 3,650 | $ 1,168,000.00 |
| 2.1.2 | EXCAVACION MECANICA EN ARCILLA DURA | M3 | 275.00 | $ 19,950 | $ 5,486,250.00 |
| 2.1.3 | EXCAVACION MANUAL | M3 | 38.50 | $ 59,500 | $ 2,290,750.00 |
| 2.1.4 | EXCAVACION MECANICA PARA AMPLIACION DE CANAL | M3 | 624.00 | $ 20,200 | $ 12,604,800.00 |
| 2.1.5 | RETIRO DE ESCOMBROS | M3 | 1281.15 | $ 38,760 | $ 49,657,374.00 |
| 2.1.6 | DEMOLICION DE ESTRUCTURAS EN CONCRETO | M3 | 48.00 | $ 150,000 | $ 7,200,000.00 |
| 2.1.7 | DESVIO DE CAUCE CON TUBERIA DE 36" PVC | ML | 18.00 | $ 1,655,000 | $ 29,790,000.00 |
| **2.2** | **ESTRUCTURA DEL BOX COULVERT** | | | | $ - |
| 2.2.1 | SUB BASE GRANULAR PARA MEJORAMIENTO DE SUB RASANTE | M3 | 48.00 | $ 101,950 | $ 4,893,600.00 |
| 2.2.2 | CONCRETO CICLOPEO | M3 | 41.20 | $ 645,850 | $ 26,609,020.00 |
| 2.2.3 | CONCRETO 4000 PSI PARA PLACAS Y MUROS BOX COULTVER | M3 | 29.75 | $ 1,138,000 | $ 33,855,500.00 |
| 2.2.4 | ACERO DE REFUERZO | KG | 6150.00 | $ 10,085 | $ 62,022,750.00 |
| 2.2.5 | CONCRETO 4000 PSI PARA ALETAS DE ENCOLE Y DESCOLE | M3 | 6.84 | $ 1,138,000 | $ 7,783,920.00 |
| 2.2.6 | CONCRETO 4000 PSI PARA LOSA DE ENCOLE Y DESCOLE | M3 | 15.00 | $ 1,138,000 | $ 17,070,000.00 |
| 2.2.7 | CONCRETO 3000 PSI PARA GRADAS DISCIPADORAS Y CUNETAS | M3 | 4.62 | $ 959,670 | $ 4,433,675.00 |
| **2.3** | **PASOS PEATONALES Y VEHICULARES** | | | | $ - |
| 2.3.1 | BASE GRANULAR | M3 | 30.00 | $ 101,950 | $ 3,058,500.00 |
| 2.3.2 | CONCRETO DE 4000 PSI PARA LOSA VEHICULAR | M3 | 23.83 | $ 1,097,600 | $ 26,155,808.00 |
| 2.3.3 | CONCRETO DE 3000 PSI PARA ANDEN | M3 | 0.76 | $ 959,670 | $ 729,349.00 |
| 2.3.4 | BARANDA METALICA EN TUBERIA 3" Y 2" | ML | 24.00 | $ 650,000 | $ 15,600,000.00 |
| **2.4** | **MANEJO DE AGUAS Y OTROS** | 0 | | | $ - |
| 2.4.1 | GEODREN VIAL COMPUESTO POR TUBERIA PERFORADA CORRUGADA DE 4" (100mm) Y GEODREN PLANAR H=1.00 M INCLUYE GRAPAS DE FIJACION CADA METRO | M2 | 26.40 | $ 139,670 | $ 3,687,288.00 |
| 2.4.2 | RELLENO CON SUB BASE GRANULAR | M3 | 38.30 | $ 101,950 | $ 3,904,685.00 |
| 2.4.3 | GAVIONES CON MALLA GALVANIZADA TRIPLE TORSION 8X12 C/0.12 | M3 | 24.00 | $ 359,800 | $ 8,635,200.00 |
| 2.4.4 | CONCRETO PARA RECUBRIMIENTO DE GAVIONES E=0.12 M | M2 | 45.20 | $ 125,944 | $ 5,692,669.00 |
| 2.4.5 | BORDILLO EN CONCRETO H=0,50 M e:0,20M | ML | 54.55 | $ 112,000 | $ 6,109,600.00 |
| 2.4.6 | CINTA PVC PARA JUNTA DE DILATACION | ML | 73.85 | $ 60,000 | $ 4,431,000.00 |
| **III** | **REHABILITACION DE VIA VEREDA EL 25** | | | | |
| **3.1** | **PRELIMINARES** | | | | |
| 3.1.1 | LOCALIZACION Y REPLANTEO | M2 | 255.00 | $ 3,650 | $ 930,750.00 |
| 3.1.2 | ROCERIA Y LIMPIEZA | M2 | 255.00 | $ 2,250 | $ 573,750.00 |
| 3.1.3 | EXCAVACION MECANICA | M3 | 850.00 | $ 19,950 | $ 16,957,500.00 |
| 3.1.4 | EXCAVACION MANUAL | M3 | 190.00 | $ 59,500 | $ 11,305,000.00 |
| **3.2** | **REPOCISION DE ALCANTARILLA** | | | | $ - |
| 3.2.1 | CONCRETO CICLOPEO | M3 | 72.00 | $ 645,850 | $ 46,501,200.00 |
| 3.2.2 | TUBERIA PVC 42" DOBLE PARED TIPO NOVAFORT O SIMILAR | ML | 36.00 | $ 3,450,000 | $ 124,200,000.00 |
| 3.2.3 | GAVIONES CON MALLA GALVANIZADA TRIPLE TORSION 8X12 C/0.12 | M3 | 84.00 | $ 359,800 | $ 30,223,200.00 |
| 3.2.4 | CONCRETO DE 3000 PSI PARA ATRAQUE DE TUBOS | M3 | 30.65 | $ 959,670 | $ 29,413,886.00 |
| 3.2.5 | RECUBRIMIENTO DE GAVIONES EN CONCRETO 3000 PSI ESPESOR 7 CM APROX | M3 | 21.00 | $ 899,600 | $ 18,891,600.00 |
| **3.3** | **RELLENOS Y SUBDRENAJES** | | | | $ - |
| 3.3.1 | FILTRO FRANCES 0.50*0.50 (INCLUYE GEOTEXTIL, MATERIAL FILTRANTE Y TUBERIA PERFORADA DE 4") | ML | 24.00 | $ 150,000 | $ 3,600,000.00 |
| 3.3.2 | RELLENO CON MATERIAL DE LA MISMA EXCAVACION | M3 | 802.00 | $ 30,100 | $ 24,140,200.00 |
| **IV** | **CANALIZACION VALLES DE GIRON - JUAN PABLO II** | | | | |
| | **CONSTRUCCION DE BOX CULVERT JUAN PABLO II** | | | | |
| **4.1** | **PRELIMINARES** | | | | |
| 4.1.1 | EXCAVACION MECANICA EN ARCILLA | M3 | 275.00 | $ 19,950 | $ 5,486,250.00 |
| 4.1.2 | EXCAVACION MANUAL | M3 | 38.50 | $ 59,500 | $ 2,290,750.00 |
| 4.1.3 | EXCAVACION MECANICA PARA AMPLIACION DE CANAL | M3 | 624.00 | $ 20,200 | $ 12,604,800.00 |
| 4.1.4 | RETIRO DE ESCOMBROS | M3 | 1281.15 | $ 38,760 | $ 49,657,374.00 |
| 4.1.5 | DEMOLICION DE ESTRUCTURAS EN CONCRETO | M3 | 48.00 | $ 150,000 | $ 7,200,000.00 |
| 4.1.6 | DESVIO DE CAUCE CON TUBERIA DE 36" PVC | ML | 18.00 | $ 1,655,000 | $ 29,790,000.00 |
| **4.2** | **ESTRUCTURA DEL BOX COULTVER** | | | | $ - |
| 4.2.1 | SUB BASE GRANULAR PARA MEJORAMIENTO DE SUB RASANTE | M3 | 48.00 | $ 101,950 | $ 4,893,600.00 |
| 4.2.2 | CONCRETO CICLOPEO | M3 | 41.20 | $ 645,850 | $ 26,609,020.00 |
| 4.2.3 | CONCRETO 4000 PSI PARA PLACAS Y MUROS BOX COULTVER | M3 | 29.75 | $ 1,138,000 | $ 33,855,500.00 |
| 4.2.4 | ACERO DE REFUERZO | KG | 6150.00 | $ 10,085 | $ 62,022,750.00 |
| 4.2.5 | CONCRETO 4000 PSI PARA ALETAS DE ENCOLE Y DESCOLE | M3 | 6.84 | $ 1,138,000 | $ 7,783,920.00 |
| 4.2.6 | CONCRETO 4000 PSI PARA LOSA DE ENCOLE Y DESCOLE | M3 | 15.00 | $ 1,138,000 | $ 17,070,000.00 |
| 4.2.7 | CONCRETO 3000 PSI PARA GRADAS DISCIPADORAS Y CUNETAS | M3 | 4.62 | $ 959,670 | $ 4,433,675.00 |
| **4.3** | **PASOS PEATONALES Y VEHICULARES** | | | | $ - |
| 4.3.1 | BASE GRANULAR | M3 | 30.00 | $ 101,950 | $ 3,058,500.00 |
| 4.3.2 | CONCRETO DE 4000 PSI PARA LOSA VEHICULAR | M3 | 23.83 | $ 1,097,600 | $ 26,155,808.00 |
| 4.3.3 | CONCRETO DE 3000 PSI PARA ANDEN | M3 | 0.76 | $ 959,670 | $ 729,349.00 |
| 4.3.4 | BARANDA METALICA EN TUBERIA 3" Y 2" | ML | 24.00 | $ 650,000 | $ 15,600,000.00 |
| 4.4 | MANEJO DE AGUAS Y OTROS | 0 | | | $ - |
| 4.4.1 | GEODREN VIAL COMPUESTO POR TUBERIA PERFORADA CORRUGADA DE 4" (100mm) Y GEODREN PLANAR H=1.00 M INCLUYE GRAPAS DE FIJACION CADA METRO | M2 | 26.40 | $ 139,670 | $ 3,687,288.00 |
| 4.4.2 | RELLENO CON SUB BASE GRANULAR | M3 | 38.30 | $ 101,950 | $ 3,904,685.00 |
| 4.4.3 | GAVIONES CON MALLA GALVANIZADA TRIPLE TORSION 8X12 C/0.12 | M3 | 24.00 | $ 359,800 | $ 8,635,200.00 |
| 4.4.4 | CONCRETO PARA RECUBRIMIENTO DE GAVIONES E=0.12 M | M2 | 45.20 | $ 125,944 | $ 5,692,669.00 |
| 4.4.5 | BORDILLO EN CONCRETO H=0,50 M e:0,20M | ML | 54.55 | $ 112,000 | $ 6,109,600.00 |
| 4.4.6 | CINTA PVC PARA JUNTA DE DILATACION | ML | 73.85 | $ 60,000 | $ 4,431,000.00 |
| **V** | **OBRAS DE CANALIZACION** | | | | |
| **5.1** | **PRELIMINARES** | | | | $ - |
| 5.1.1 | COMISION DE TOPOGRAFIA - LOCALIZACION Y REPLANTEO | MES | 6.00 | $ 7,500,000 | $ 45,000,000.00 |
| 5.1.2 | CERRAMIENTO EN TELA VERDE Y POSTES EN MADERA | ML | 150.00 | $ 23,000 | $ 3,450,000.00 |
| 5.1.3 | ROCERIA Y LIMPIEZA | M2 | 2824.00 | $ 2,250 | $ 6,354,000.00 |
| 5.1.4 | EXCAVACIÓN MANUAL | M3 | 388.30 | $ 59,500 | $ 23,103,850.00 |
| 5.1.5 | EXCAVACION MECANICA EN ARCILLA | M3 | 3565.30 | $ 19,950 | $ 71,127,735.00 |
| 5.1.6 | RETIRO DE ESCOMBROS | M3 | 1027.94 | $ 38,760 | $ 39,842,954.00 |
| 5.1.7 | ADECUACION DE MATERIAL DE EXCAVACION EN LOS TALUDES DEL CAÑO | M3 | 4776.97 | $ 13,450 | $ 64,250,247.00 |
| **5.2** | **OBRAS DE CANALIZACION** | | | | $ - |
| 5.2.1 | MEJORAMIENTO EN PIEDRA | M3 | 706.00 | $ 115,000 | $ 81,190,000.00 |
| 5.2.2 | CONCRETO CICLOPEO | M3 | 317.70 | $ 645,850 | $ 205,186,545.00 |
| 5.2.3 | ACERO DE REFUERZO | KG | 70898.70 | $ 10,085 | $ 715,013,390.00 |
| 5.2.4 | SUMINISTRO JUNTA DILATACION EN PVC | ML | 706.00 | $ 60,000 | $ 42,360,000.00 |
| 5.2.5 | LOSA Y MUROS CANAL EN CONCRETO 4000 PSI | M3 | 875.44 | $ 1,138,000 | $ 996,250,720.00 |
| **5.3** | **MANEJO DE AGUAS Y SUBDRENAJES** | | | | $ - |
| 5.3.1 | RELLENO CON MATERIAL DE EXCAVACION | M3 | 706.00 | $ 30,100 | $ 21,250,600.00 |
| 5.3.2 | SUB BASE GRANULAR PARA RELLENO LATERAL | M3 | 353.00 | $ 101,950 | $ 35,988,350.00 |
| 5.3.3 | MANEJO DE AGUAS (INCLUYE MOTOBOMBA Y TUBERIA DE 36" PVC PARA DESVIO DE CAUCE) | MES | 6.00 | $ 12,000,000 | $ 72,000,000.00 |
| 5.3.4 | GEODREN VIAL COMPUESTO POR TUBERIA PERFORADA CORRUGADA DE 4" (100mm) Y GEODREN PLANAR H=1.00 M INCLUYE GRAPAS DE FIJACION CADA METRO | M2 | 706.00 | $ 139,670 | $ 98,607,020.00 |
| | **TOTAL COSTO DIRECTO** | | | | **$ 5,097,223,349.00** |
| | ADMINISTRACION | 25.0% | | | $ 1,274,305,837.00 |
| | IMPREVISTOS | 0.0% | | | $ - |
| | UTILIDAD | 5.0% | | | $ 254,861,167.00 |
| | **TOTAL COSTO INDIRECTO** | | | | **$ 1,529,167,004.00** |
| | **VALOR TOTAL** | | | | **$ 6,626,390,353.00** |

Programación semanal (MES 1: SEMANA 1–4; MES 2: SEMANA 5–8; MES 3: SEMANA 9–12)

| ITEM | SEMANA 1 | SEMANA 2 | SEMANA 3 | SEMANA 4 | SEMANA 5 | SEMANA 6 | SEMANA 7 | SEMANA 8 | SEMANA 9 | SEMANA 10 | SEMANA 11 | SEMANA 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.1.1 | $ 9,581,250.00 | $ 9,581,250.00 | | | | | | | | | | |
| 1.1.2 | | | $ 4,488,750.00 | $ 4,488,750.00 | $ 4,488,750.00 | $ 4,488,750.00 | | | | | | |
| 1.1.3 | | | $ 1,472,625.00 | $ 1,472,625.00 | $ 1,472,625.00 | $ 1,472,625.00 | | | | | | |
| 1.1.4 | | | $ 562,500.00 | $ 562,500.00 | $ 562,500.00 | $ 562,500.00 | | | | | | |
| 1.1.5 | | | $ 3,359,137.50 | $ 3,359,137.50 | $ 3,359,137.50 | $ 3,359,137.50 | | | | | | |
| 1.1.6 | | | | | | | | | $ 14,392,000.00 | $ 14,392,000.00 | $ 14,392,000.00 | |
| 1.1.7 | | | | | | | | | | $ 12,954,240.00 | $ 12,954,240.00 | $ 12,954,240.00 |
| 1.1.8 | | | | | | | $ 6,135,575.00 | $ 6,135,575.00 | | | | |
| 1.4.1 | $ 14,440,623.00 | $ 14,440,623.00 | | | | | | | | | | |
| 1.4.2 | | | $ 31,967,156.50 | $ 31,967,156.50 | $ 31,967,156.50 | $ 31,967,156.50 | | | | | | |
| 1.4.3 | | | $ 16,276,315.00 | $ 16,276,315.00 | $ 16,276,315.00 | $ 16,276,315.00 | | | | | | |
| 1.4.4 | | | $ 41,243,580.00 | $ 41,243,580.00 | $ 41,243,580.00 | $ 41,243,580.00 | | | | | | |
| 1.4.5 | | | $ 4,450,877.00 | $ 4,450,877.00 | $ 4,450,877.00 | $ 4,450,877.00 | | | | | | |
| 1.4.6 | | | $ 11,206,607.25 | $ 11,206,607.25 | $ 11,206,607.25 | $ 11,206,607.25 | | | | | | |
| 1.4.7 | | | | | | | | | | $ 53,970,000.00 | $ 53,970,000.00 | $ 53,970,000.00 |
| 1.4.8 | | | | | | | $ 16,146,250.00 | $ 16,146,250.00 | $ 16,146,250.00 | | | |
| 1.4.9 | | | | | | | | | | | $ 20,241,000.00 | $ 20,241,000.00 |
| 1.5.1 | | | | | | | | | $ 3,102,500.00 | | | |
| 1.5.2 | | | | | | | | | | $ 10,597,800.00 | $ 10,597,800.00 | |
| 1.5.3 | | | | | | | | | | $ 9,103,500.00 | $ 9,103,500.00 | |
| 1.5.4 | | | | | | | | | $ 956,250.00 | | | |
| 1.5.5 | | | | | | | | | | $ 8,917,350.00 | $ 8,917,350.00 | |
| 1.5.6 | | | | | | | | | | | | $ 36,699,600.00 |
| 1.5.8 | | | | | | | | | | | $ 27,448,625.00 | $ 27,448,625.00 |
| 2.1.1 | | $ 584,000.00 | $ 584,000.00 | | | | | | | | | |
| 2.1.2 | | | $ 2,743,125.00 | $ 2,743,125.00 | | | | | | | | |
| 2.1.3 | | | $ 1,145,375.00 | $ 1,145,375.00 | | | | | | | | |
| 2.1.4 | | | $ 3,151,200.00 | $ 3,151,200.00 | $ 3,151,200.00 | $ 3,151,200.00 | | | | | | |
| 2.1.5 | | | $ 6,207,171.75 | $ 6,207,171.75 | $ 6,207,171.75 | $ 6,207,171.75 | | | | | | |
| 2.1.6 | | | $ 7,200,000.00 | | | | | | | | | |
| 2.1.7 | | $ 14,895,000.00 | $ 14,895,000.00 | | | | | | | | | |
| 2.2.1 | | | | | | | $ 4,893,600.00 | | | | | |
| 2.2.2 | | | | | | | | $ 26,609,020.00 | | | | |
| 2.2.3 | | | | | | | | | $ 8,463,875.00 | $ 8,463,875.00 | $ 8,463,875.00 | $ 8,463,875.00 |
| 2.2.4 | | | | | | | | | $ 15,505,687.50 | $ 15,505,687.50 | $ 15,505,687.50 | $ 15,505,687.50 |
| 2.4.6 | | | | | | | | | | | $ 4,431,000.00 | |
| 3.1.1 | | | | | $ 930,750.00 | | | | | | | |
| 3.1.2 | | | | | | $ 573,750.00 | | | | | | |
| 3.1.3 | | | | | | | $ 5,652,500.00 | $ 5,652,500.00 | $ 5,652,500.00 | | | |
| 3.1.4 | | | | | | | $ 3,768,333.33 | $ 3,768,333.33 | $ 3,768,333.33 | | | |
| 3.2.1 | | | | | | | | | | $ 23,250,600.00 | $ 23,250,600.00 | |
| 3.2.2 | | | | | | | | | | | | $ 62,100,000.00 |
| 4.1.1 | | $ 2,743,125.00 | $ 2,743,125.00 | | | | | | | | | |
| 4.1.2 | | | $ 1,145,375.00 | $ 1,145,375.00 | | | | | | | | |
| 4.1.3 | | | $ 6,302,400.00 | $ 6,302,400.00 | | | | | | | | |
| 4.1.4 | | | $ 12,414,343.50 | $ 12,414,343.50 | $ 12,414,343.50 | $ 12,414,343.50 | | | | | | |
| 4.1.5 | | | $ 900,000.00 | $ 900,000.00 | $ 900,000.00 | $ 900,000.00 | | | | | | |
| 4.1.6 | | | $ 29,790,000.00 | | | | | | | | | |
| 4.2.1 | | | | | | | $ 4,893,600.00 | | | | | |
| 4.2.2 | | | | | | | | $ 26,609,020.00 | | | | |
| 4.2.3 | | | | | | | | | $ 8,463,875.00 | $ 8,463,875.00 | $ 8,463,875.00 | $ 8,463,875.00 |
| 4.2.4 | | | | | | | | | $ 15,505,687.50 | $ 15,505,687.50 | $ 15,505,687.50 | $ 15,505,687.50 |
| 4.4.6 | | | | | | | | | | | $ 4,431,000.00 | |
| 5.1.1 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 |
| 5.1.2 | $ 3,450,000.00 | | | | | | | | | | | |
| 5.1.3 | $ 6,354,000.00 | | | | | | | | | | | |
| 5.1.4 | | $ 5,775,962.50 | $ 5,775,962.50 | $ 5,775,962.50 | $ 5,775,962.50 | | | | | | | |
| 5.1.5 | | | $ 8,890,966.88 | $ 8,890,966.88 | $ 8,890,966.88 | $ 8,890,966.88 | $ 8,890,966.88 | $ 8,890,966.88 | $ 8,890,966.88 | $ 8,890,966.88 | | |
| 5.1.6 | | | | | $ 4,980,369.25 | $ 4,980,369.25 | $ 4,980,369.25 | $ 4,980,369.25 | $ 4,980,369.25 | $ 4,980,369.25 | | |
| 5.1.7 | | | $ 8,031,280.88 | $ 8,031,280.88 | $ 8,031,280.88 | $ 8,031,280.88 | $ 8,031,280.88 | $ 8,031,280.88 | $ 8,031,280.88 | $ 8,031,280.88 | | |
| 5.2.1 | | | | $ 10,148,750.00 | $ 10,148,750.00 | $ 10,148,750.00 | $ 10,148,750.00 | $ 10,148,750.00 | $ 10,148,750.00 | $ 10,148,750.00 | $ 10,148,750.00 | |
| 5.2.2 | | | | | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 |
| 5.2.3 | | | | | | | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 |
| 5.2.5 | | | | | | | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 |
| 5.3.3 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 |
| **TOTAL COSTO DIRECTO** | $ 38,700,873.00 | $ 52,894,960.50 | $ 231,821,873.75 | $ 186,758,498.75 | $ 192,732,595.50 | $ 186,599,633.00 | $ 190,478,072.54 | $ 233,908,912.54 | $ 240,945,172.54 | $ 330,112,829.21 | $ 364,761,837.21 | $ 378,289,437.21 |
| ADMINISTRACION | $ 9,675,218.00 | $ 13,223,740.00 | $ 57,955,468.00 | $ 46,689,625.00 | $ 48,183,149.00 | $ 46,649,908.00 | $ 47,619,518.00 | $ 58,477,228.00 | $ 60,236,293.00 | $ 82,528,207.00 | $ 91,190,459.00 | $ 94,572,359.00 |
| IMPREVISTOS | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - |
| UTILIDAD | $ 1,935,044.00 | $ 2,644,748.00 | $ 11,591,094.00 | $ 9,337,925.00 | $ 9,636,630.00 | $ 9,329,982.00 | $ 9,523,904.00 | $ 11,695,446.00 | $ 12,047,259.00 | $ 16,505,641.00 | $ 18,238,092.00 | $ 18,914,472.00 |
| **TOTAL COSTO INDIRECTO** | $ 11,610,262.00 | $ 15,868,488.00 | $ 69,546,562.00 | $ 56,027,550.00 | $ 57,819,779.00 | $ 55,979,890.00 | $ 57,143,422.00 | $ 70,172,674.00 | $ 72,283,552.00 | $ 99,033,848.00 | $ 109,428,551.00 | $ 113,486,831.00 |
| **VALOR TOTAL** | $ 50,311,135.00 | $ 68,763,448.50 | $ 301,368,435.75 | $ 242,786,048.75 | $ 250,552,374.50 | $ 242,579,523.00 | $ 247,621,494.54 | $ 304,081,586.54 | $ 313,228,724.54 | $ 429,146,677.21 | $ 474,190,388.21 | $ 491,776,268.21 |
| **VALOR ACUMULADO** | $ 50,311,135.00 | $ 119,074,583.50 | $ 420,443,019.25 | $ 663,229,068.00 | $ 913,781,442.50 | $ 1,156,360,965.50 | $ 1,403,982,460.04 | $ 1,708,064,046.58 | $ 2,021,292,771.12 | $ 2,450,439,448.32 | $ 2,924,629,836.53 | $ 3,416,406,104.74 |
| **AVANCE PROGRAMADO SEMANAL** | 0.76% | 1.04% | 4.55% | 3.66% | 3.78% | 3.66% | 3.74% | 4.59% | 4.73% | 6.48% | 7.16% | 7.42% |
| **AVANCE PROGRAMADO ACUMUALDO** | | 1.80% | 6.34% | 10.01% | 13.79% | 17.45% | 21.19% | 25.78% | 30.50% | 36.98% | 44.14% | 51.56% |

Programación semanal (MES 4: SEMANA 13–16; MES 5: SEMANA 17–20; MES 6: SEMANA 21–24)

| ITEM | SEMANA 13 | SEMANA 14 | SEMANA 15 | SEMANA 16 | SEMANA 17 | SEMANA 18 | SEMANA 19 | SEMANA 20 | SEMANA 21 | SEMANA 22 | SEMANA 23 | SEMANA 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.2.1 | $ 595,000.00 | | | | | | | | | | | |
| 1.2.2 | | $ 2,151,358.00 | | | | | | | | | | |
| 1.2.3 | | $ 2,622,100.00 | | | | | | | | | | |
| 1.2.4 | | | | $ 285,460.00 | | | | | | | | |
| 1.2.5 | | | $ 10,400,000.00 | | | | | | | | | |
| 1.2.6 | | | $ 2,879,010.00 | | | | | | | | | |
| 1.2.7 | | | $ 2,722,950.00 | | | | | | | | | |
| 1.2.8 | | | | | $ 16,752,000.00 | | | | | | | |
| 1.2.11 | | | $ 3,200,000.00 | | | | | | | | | |
| 1.2.12 | $ 1,291,700.00 | | | | | | | | | | | |
| 1.2.13 | | | | | $ 1,107,691.00 | | | | | | | |
| 1.3.1 | | | | | | $ 6,661,421.67 | $ 6,661,421.67 | $ 6,661,421.67 | | | | |
| 1.3.2 | | | | | | | $ 22,918,237.67 | $ 22,918,237.67 | $ 22,918,237.67 | | | |
| 1.3.3 | | | | | | | $ 8,312,500.00 | $ 8,312,500.00 | $ 8,312,500.00 | | | |
| 1.3.4 | | | | | | | $ 29,673,493.33 | $ 29,673,493.33 | $ 29,673,493.33 | | | |
| 1.4.9 | $ 20,241,000.00 | | | | | | | | | | | |
| 1.5.6 | $ 36,699,600.00 | $ 36,699,600.00 | $ 36,699,600.00 | $ 36,699,600.00 | | | | | | | | |
| 1.5.7 | $ 22,022,208.00 | $ 22,022,208.00 | $ 22,022,208.00 | $ 22,022,208.00 | $ 22,022,208.00 | | | | | | | |
| 1.5.8 | $ 27,448,625.00 | $ 27,448,625.00 | | | | | | | | | | |
| 2.1.5 | | | | | | | | | $ 6,207,171.75 | $ 6,207,171.75 | $ 6,207,171.75 | $ 6,207,171.75 |
| 2.2.5 | $ 3,891,960.00 | $ 3,891,960.00 | | | | | | | | | | |
| 2.2.6 | $ 8,535,000.00 | $ 8,535,000.00 | | | | | | | | | | |
| 2.2.7 | | | $ 4,433,675.00 | | | | | | | | | |
| 2.3.1 | | | | $ 3,058,500.00 | | | | | | | | |
| 2.3.2 | | | | | $ 26,155,808.00 | | | | | | | |
| 2.3.3 | | | | | | $ 729,349.00 | | | | | | |
| 2.3.4 | | | | | | | $ 15,600,000.00 | | | | | |
| 2.4.1 | | | | | | | | $ 3,687,288.00 | | | | |
| 2.4.2 | | | | | | | | | $ 3,904,685.00 | | | |
| 2.4.3 | | | | | | | | $ 8,635,200.00 | | | | |
| 2.4.4 | | | | | | | | | $ 5,692,669.00 | | | |
| 2.4.5 | | | | | | | | | $ 6,109,600.00 | | | |
| 3.2.2 | $ 62,100,000.00 | | | | | | | | | | | |
| 3.2.3 | | $ 15,111,600.00 | $ 15,111,600.00 | | | | | | | | | |
| 3.2.4 | | $ 14,706,943.00 | $ 14,706,943.00 | | | | | | | | | |
| 3.2.5 | | $ 9,445,800.00 | $ 9,445,800.00 | | | | | | | | | |
| 3.3.1 | | $ 1,800,000.00 | $ 1,800,000.00 | | | | | | | | | |
| 3.3.2 | | $ 12,070,100.00 | $ 12,070,100.00 | | | | | | | | | |
| 4.1.5 | | | | | | | | | $ 900,000.00 | $ 900,000.00 | $ 900,000.00 | $ 900,000.00 |
| 4.2.5 | $ 3,891,960.00 | $ 3,891,960.00 | | | | | | | | | | |
| 4.2.6 | $ 8,535,000.00 | $ 8,535,000.00 | | | | | | | | | | |
| 4.2.7 | | | $ 4,433,675.00 | | | | | | | | | |
| 4.3.1 | | | $ 3,058,500.00 | | | | | | | | | |
| 4.3.2 | | | | $ 26,155,808.00 | | | | | | | | |
| 4.3.3 | | | | | $ 729,349.00 | | | | | | | |
| 4.3.4 | | | | | | $ 15,600,000.00 | | | | | | |
| 4.4.1 | | | | | | | | $ 3,687,288.00 | | | | |
| 4.4.2 | | | | | | | | | $ 3,904,685.00 | | | |
| 4.4.3 | | | | | | | | $ 8,635,200.00 | | | | |
| 4.4.4 | | | | | | | | | $ 5,692,669.00 | | | |
| 4.4.5 | | | | | | | | | $ 6,109,600.00 | | | |
| 5.1.1 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 | $ 1,875,000.00 |
| 5.1.6 | | | | | | | | | | | $ 4,980,369.25 | $ 4,980,369.25 |
| 5.2.2 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | $ 11,399,252.50 | | |
| 5.2.3 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | $ 42,059,611.18 | |
| 5.2.4 | $ 21,180,000.00 | $ 21,180,000.00 | | | | | | | | | | |
| 5.2.5 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | $ 58,602,983.53 | |
| 5.3.1 | | | | | $ 7,083,533.33 | $ 7,083,533.33 | $ 7,083,533.33 | | | | | |
| 5.3.2 | | | | | | | | $ 8,997,087.50 | $ 8,997,087.50 | $ 8,997,087.50 | $ 8,997,087.50 | |
| 5.3.3 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 | $ 3,000,000.00 |
| 5.3.4 | | | | | | | | $ 24,651,755.00 | $ 24,651,755.00 | $ 24,651,755.00 | $ 24,651,755.00 | |
| **TOTAL COSTO DIRECTO** | $ 333,368,900.21 | $ 307,049,101.21 | $ 259,920,908.21 | $ 205,158,423.21 | $ 190,787,436.54 | $ 147,011,151.21 | $ 207,186,033.21 | $ 242,796,318.37 | $ 250,011,000.46 | $ 157,692,861.46 | $ 151,273,978.21 | $ 16,962,541.00 |
| ADMINISTRACION | $ 83,342,225.00 | $ 76,762,275.00 | $ 64,980,227.00 | $ 51,289,606.00 | $ 47,696,859.00 | $ 36,752,788.00 | $ 51,796,508.00 | $ 60,699,080.00 | $ 62,502,750.00 | $ 39,423,215.00 | $ 37,818,495.00 | $ 4,240,635.00 |
| IMPREVISTOS | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - |
| UTILIDAD | $ 16,668,445.00 | $ 15,352,455.00 | $ 12,996,045.00 | $ 10,257,921.00 | $ 9,539,372.00 | $ 7,350,558.00 | $ 10,359,302.00 | $ 12,139,816.00 | $ 12,500,550.00 | $ 7,884,643.00 | $ 7,563,699.00 | $ 848,127.00 |
| **TOTAL COSTO INDIRECTO** | $ 100,010,670.00 | $ 92,114,730.00 | $ 77,976,272.00 | $ 61,547,527.00 | $ 57,236,231.00 | $ 44,103,346.00 | $ 62,155,810.00 | $ 72,838,896.00 | $ 75,003,300.00 | $ 47,307,858.00 | $ 45,382,194.00 | $ 5,088,762.00 |
| **VALOR TOTAL** | $ 433,379,570.21 | $ 399,163,831.21 | $ 337,897,180.21 | $ 266,705,950.21 | $ 248,023,667.54 | $ 191,114,497.21 | $ 269,341,843.21 | $ 315,635,214.37 | $ 325,014,300.46 | $ 205,000,719.46 | $ 196,656,172.21 | $ 22,051,303.00 |
| **VALOR ACUMULADO** | $ 3,849,785,674.94 | $ 4,248,949,506.15 | $ 4,586,846,686.35 | $ 4,853,552,636.56 | $ 5,101,576,304.10 | $ 5,292,690,801.30 | $ 5,562,032,644.51 | $ 5,877,667,858.88 | $ 6,202,682,159.34 | $ 6,407,682,878.79 | $ 6,604,339,051.00 | $ 6,626,390,354.00 |
| **AVANCE PROGRAMADO SEMANAL** | 6.54% | 6.02% | 5.10% | 4.02% | 3.74% | 2.88% | 4.06% | 4.76% | 4.90% | 3.09% | 2.97% | 0.33% |
| **AVANCE PROGRAMADO ACUMUALDO** | 58.10% | 64.12% | 69.22% | 73.25% | 76.99% | 79.87% | 83.94% | 88.70% | 93.61% | 96.70% | 99.67% | 100.00% |

ING. JESUS ENRIQUE VARGAS RODRIGUEZ
CONTRATISTA DE OBRA

ING. FREDY ALEXILI VILLAN VALENCIA
INTERVENTOR