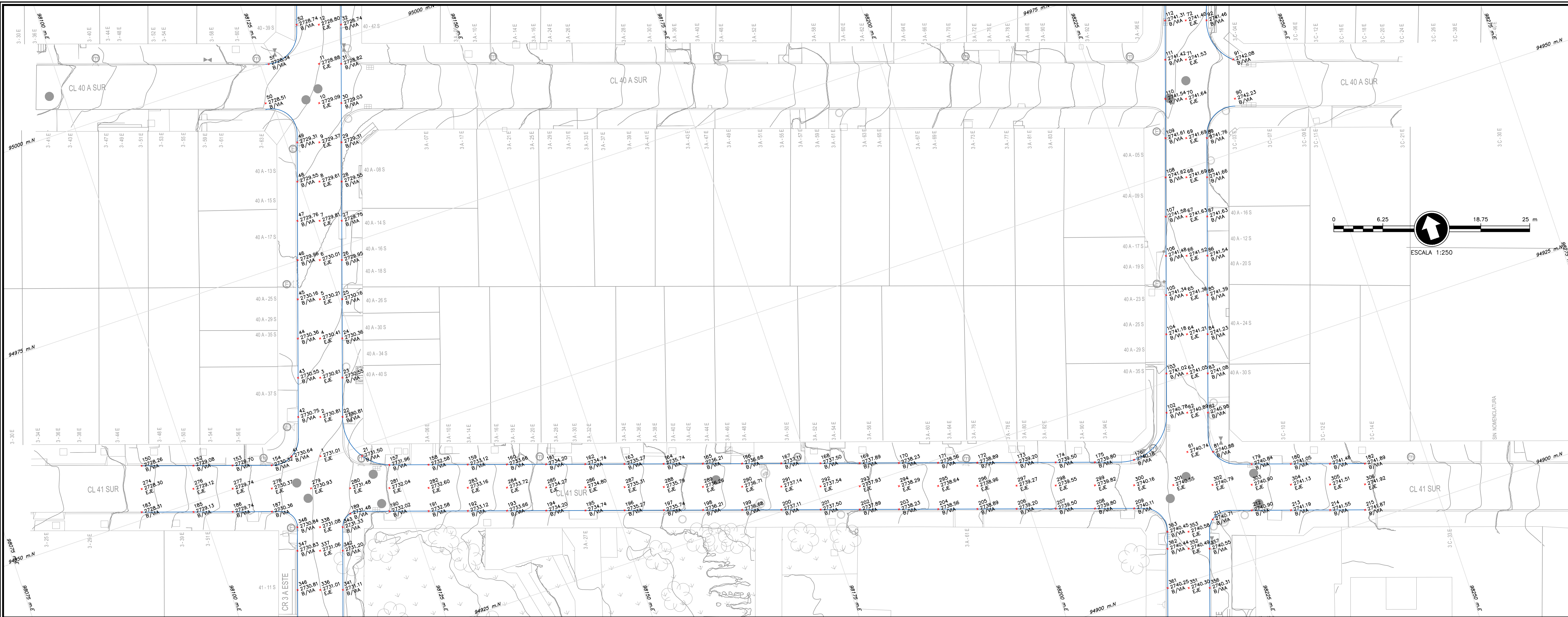




CONVENCIONES DE DISEÑO

- Borde de calzada Actual
- Franja circulación peatonal
- Franja paisajismo y mobiliario
- Sentido de flujo
- Via proyectada
- Muro proyectado

CONVENCIONES DE TOPOGRAFIA

- PUNTOS**
 - Empresas y Servicios Públicos
 - Moviliario Urbano
 - Referencias
 - Vegetación
- LÍNEAS**
 - Ceramientos
 - Hidrología
 - Vías
 - Curvas de Nivel
 - Servicios
 - Varitas

INFORMACIÓN CARTOGRÁFICA

El levantamiento topográfico se encuentra georeferenciado dentro del Marco Geodésico Nacional de Referencia (MAGNA-SIRGAS), adoptado en abril de 2005 por el Instituto Geográfico Agustín Codazzi, como datum oficial de Colombia.

AMARRE IGAC

La georeferenciación del proyecto se realizó mediante el sistema global de navegación satelital (GNSS) y ajuste por nivelación geodésica, tomando como bases para el amarre horizontal las estaciones permanentes **BOGÁ** y **BOTO**, mientras que para el vertical se usó el vértice **4-BOT** de la red MAGNA - SIRGAS, materializado por el Instituto Geográfico "AGUSTÍN CODAZZI" (IGAC); sus coordenadas se describen a continuación:

NOMBRE	COORDENADAS GEOGRÁFICAS WGS84 EPOCA IAC				COORDENADAS MAGNA SIRGAS CARTESIANAS EPOCA 2011				ALTURA GEODÉSICA (GMS00)	ALTURA GEOMÉTRICA (Nivel de Precisión)
	LATITUD WGS84 (grados-min-sec)	LONGITUD WGS84 (grados-min-sec)	ALTURA ELIPSOIDAL WGS84 (m)	UTM	NORTE (m)	Este (m)	Elevación (m)	UTM	NORTE (m)	Elevación (m)
BOGÁ	4°38'10.2577"N	74°4'41.8280"W	2629.779	10A06.704	99232.255	258.558	N/A	10A06.704	99232.255	N/A
BOTO	4°38'10.2577"N	74°4'41.8280"W	2629.779	10A06.704	99232.255	258.558	N/A	10A06.704	99232.255	N/A
4-BOT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2576.783

INFORMACIÓN DE REFERENCIA

COORDENADAS PLANAS CARTESIANAS MAGNA SIRGAS - BOGOTÁ-2011

Sistema de Referencia: MAGNA - SIRGAS
Elipsoide: GR880 + WGS84
Proyección: Transversal Mercator
Coordenadas Geográficas: 4° 40' 40.750" N
74° 08' 47.730" W
Falso Norte: 109320.965 m
Falso Este: 92334.879 m
Factor de Escala: 1.00039880
Plano de Proyección: 2550 m s.n.m.

ESTACION VICTORIA					ESTACION VICTORIA					ESTACION VICTORIA					ESTACION VICTORIA					ESTACION VICTORIA					ESTACION VICTORIA									
NUMERO	NORTE	ESTE	COTA (m.s.n.n.)	DESCRIPCION	NUMERO	NORTE	ESTE	COTA (m.s.n.n.)	DESCRIPCION	NUMERO	NORTE	ESTE	COTA (m.s.n.n.)	DESCRIPCION	NUMERO	NORTE	ESTE	COTA (m.s.n.n.)	DESCRIPCION	NUMERO	NORTE	ESTE	COTA (m.s.n.n.)	DESCRIPCION	NUMERO	NORTE	ESTE	COTA (m.s.n.n.)	DESCRIPCION					
1	94950.44	98116.38	2731.01	EJE	54	95013.03	98134.17	2728.84	B/VIA	107	94945.03	98228.32	2741.58	B/VIA	160	94941.87	98138.59	2733.66	B/VIA	213	94904.48	98231.54	2741.19	B/VIA	266	95015.13	98241.71	2739.35	B/VIA	319	95014.48	98254.47	2740.46	EJE
2	94955.19	98117.96	2730.81	EJE	55	95017.77	98135.75	2728.90	B/VIA	108	94949.78	98229.90	2741.62	B/VIA	161	94940.30	98143.33	2734.20	B/VIA	214	94902.91	98236.29	2741.55	B/VIA	267	95013.56	98246.46	2739.79	B/VIA	320	95019.23	98256.05	2740.50	EJE
3	94959.94	98119.53	2730.61	EJE	56	95022.52	98137.32	2728.96	B/VIA	109	94954.52	98231.47	2741.61	B/VIA	162	94938.72	98148.08	2734.74	B/VIA	215	94901.50	98240.51	2741.87	B/VIA	268	95015.21	98252.27	2740.34	B/VIA	321	95023.97	98257.62	2740.60	EJE
4	94964.68	98121.11	2730.41	EJE	57	95027.26	98138.90	2729.03	B/VIA	110	94959.27	98233.05	2741.54	B/VIA	163	94937.15	98152.82	2735.27	B/VIA	216	95042.82	98140.27	2728.97	B/VIA	269	95013.03	98256.82	2740.57	B/VIA	322	95028.72	98259.20	2740.76	EJE
5	94969.43	98122.68	2730.21	EJE	58	95032.01	98140.47	2729.09	B/VIA	111	94964.01	98234.62	2741.42	B/VIA	164	94935.57	98157.57	2735.74	B/VIA	217	95040.02	98144.61	2729.20	B/VIA	270	95008.83	98260.69	2740.73	B/VIA	323	95030.25	98259.70	2740.82	EJE
6	94974.17	98124.26	2730.01	EJE	59	95036.75	98142.05	2729.13	B/VIA	112	94968.76	98236.20	2741.31	B/VIA	165	94934.00	98162.31	2736.21	B/VIA	218	95038.44	98149.35	2729.41	B/VIA	271	95007.26	98265.44	2740.87	B/VIA	324	95013.65	98259.96	2740.55	B/VIA
7	94978.92	98125.83	2729.81	EJE	60	95040.72	98142.48	2729.09	B/VIA	113	94973.50	98237.77	2741.19	B/VIA	166	94932.42	98167.06	2736.68	B/VIA	219	95038.09	98154.50	2729.67	B/VIA	272	95005.68	98270.18	2741.12	B/VIA	325	95018.40	98258.54	2740.57	B/VIA
8	94983.66	98127.41	2729.61	EJE	61	94915.73	98221.38	2740.74	EJE	114	94978.25	98239.35	2741.08	B/VIA	167	94930.85	98171.81	2737.11	B/VIA	220	95036.52	98159.25	2730.01	B/VIA	273	95004.17	98274.74	2741.41	B/VIA	326	95023.15	98260.11	2740.64	B/VIA
9	94988.41	98128.98	2729.37	EJE	62	94920.47	98222.95	2740.89	EJE	115	94983.00	98240.92	2740.96	B/VIA	168	94929.27	98176.55	2737.50	B/VIA	221	95034.94	98163.99	2730.41	B/VIA	274	94953.75	98093.43	2728.30	EJE	327	95027.89	98261.69	2740.80	B/VIA
10	94993.15	98130.56	2729.09	EJE	63	94925.22	98224.53	2741.05	EJE	116	94987.74	98242.50	2740.84	B/VIA	169	94927.70	98181.30	2737.89	B/VIA	222	95033.37	98168.74	2730.90	B/VIA	275	94953.24	98094.95	2728.50	EJE	328	95029.43	98262.19	2740.85	B/VIA
11	94997.90	98132.13	2728.88	EJE	64	94929.96	98226.10	2741.21	EJE	117	94992.49	98244.07	2740.73	B/VIA	170	94926.12	98186.04	2738.23	B/VIA	223	95031.79	98173.49	2731.45	B/VIA	276	94951.67	98099.69	2729.12	EJE	329	95015.31	98251.98	2740.32	B/VIA
12	95002.65	98133.71	2728.80	EJE	65	94934.71	98227.68	2741.36	EJE	118	94997.32	98245.65	2740.61	B/VIA	171	94924.55	98190.79	2738.56	B/VIA	224	95030.22	98178.23	2732.06	B/VIA	277	94950.09	98104.44	2729.74	EJE	330	95020.05	98253.56	2740.40	B/VIA
13	95007.39	98135.28	2728.83	EJE	66	94939.46	98229.25	2741.52	EJE	119	95002.00	98247.15	2740.47	B/VIA	172	94922.97	98195.53	2738.89	B/VIA	225	95028.66	98182.98	2732.68	B/VIA	278	94948.52	98109.18	2730.37	EJE	331	95024.80	98255.13	2740.49	B/VIA
14	95012.14	98136.86	2728.89	EJE	67	94944.20	98230.83	2741.63	EJE	120	95005.98	98246.43	2740.16	B/VIA	173	94921.40	98200.28	2739.20	B/VIA	226	95027.07	98187.72	2733.92	B/VIA	279	94946.94	98113.93	2730.93	EJE	332	95029.54	98256.71	2740.62	B/VIA
15	95016.88	98138.43	2728.96	EJE	68	94948.95	98232.40	2741.69	EJE	121	95045.51	98141.16	2729.10	EJE	174	94919.82	98205.02	2739.50	B/VIA	227	95025.49	98192.47	2733.92	B/VIA	280	94945.37	98118.68	2731.48	EJE	333	95031.08	98257.21	2740.67	B/VIA
16	95021.63	98140.01	2729.02	EJE	69	94953.69	98233.98	2741.69	EJE	122	95043.94	98145.91	2729.28	EJE	175	94919.82	98205.02	2739.50	B/VIA	228	95023.92	98197.21	2734.54	B/VIA	281	94943.79	98123.42	2732.04	EJE	334	94924.80	98107.77	2730.82	B/VIA
17	95026.37	98141.58	2729.08	EJE	70	94958.44	98235.55	2741.64	EJE	123	95042.36	98150.65	2729.47	EJE	176	94916.94	98214.60	2740.18	B/VIA	229	95022.34	98201.96	2735.16	B/VIA	282	94942.22	98128.17	2732.60	EJE	335	94929.55	98109.35	2730.93	EJE
18	95031.12	98143.16	2729.15	EJE	71	94963.18	98237.13	2741.53	EJE	124	95040.79	98155.40	2729.73	EJE	177	94916.30	98219.66	2740.60	B/VIA	230	95020.77	98206.70	2735.78	B/VIA	283	94940.64	98132.91	2733.16	EJE	336	94934.30	98110.92	2731.01	EJE
19	95035.86	98144.73	2729.21	EJE	72	94967.93	98238.70	2741.40	EJE	125	95039.21	98160.14	2730.06	EJE	178	94914.72	98224.40	2740.88	B/VIA	231	95019.19	98211.45	2736.39	B/VIA	284	94939.07	98137.66	2733.72	EJE	337	94939.04	98112.50	2731.06	EJE
20	95039.57	98145.96	2729.26	EJE	73	94972.67	98240.28	2741.28	EJE	126	95037.64	98164.89	2730.47	EJE	179	94911.65	98228.65	2740.84	B/VIA	232	95017.62	98216.20	2736.97	B/VIA	285	94937.49	98142.40	2734.27	EJE	338	94941.89	98113.44	2731.08	EJE
21	94948.77	98121.42	2731.50	B/VIA	74	94977.42	98241.85	2741.15	EJE	127	95036.06	98169.63	2730.95	EJE	180	94910.08	98233.40	2741.05	B/VIA	233	95016.04	98220.94	2737.51	B/VIA	286	94935.92	98147.15	2734.80	EJE	339	94923.89	98110.52	2730.99	B/VIA
22	94954.30	98120.64	2730.81	B/VIA	75	94982.16	98243.43	2741.03	EJE	128	95034.49	98174.38	2731.50	EJE	181	94908.50	98238.14	2741.48	B/VIA	234	95014.47	98225.69	2738.01	B/VIA	287	94934.35	98151.89	2735.31	EJE	340	94928.64	98112.09	2731.05	B/VIA
23	94959.05	98122.22	2730.55	B/VIA	76	94986.91	98245.00	2740.90	EJE	129	95032.91	98179.13	2732.12	EJE	182	94907.10	98242.37	2741.89	B/VIA	235	95012.89	98230.43	2738.07	B/VIA	288	94932.77	98156.64	2735.79	EJE	341	94933.38	98113.67	2731.11	B/VIA
24	94963.79	98123.79	2730.36	B/VIA	77	94991.66	98246.58	2740.78	EJE	130	95031.34	98183.87	2732.74	EJE	183	94950.95	98092.50	2728.31	B/VIA	236	95011.32	98235.18	2738.90	B/VIA	289	94931.20	98161.38	2736.26	EJE	342	94938.13	98115.24	2731.20	B/VIA
25	94968.54	98125.37	2730.16	B/VIA	78	94996.40	98248.15	2740.65	EJE	131	95029.68	98188.62	2733.36	EJE	184	94950.44	98094.02	2728.51	B/VIA	237	95009.74	98239.92	2739.50	B/VIA	290	94929.62	98175.62	2736.71	EJE	343	94940.98	98116.19	2731.33	B/VIA
26	94973.28	98126.94	2729.95	B/VIA	79	95001.15	98249.73	2740.53	EJE	132	95028.19	98193.36	2733.98	EJE	185	94948.87	98098.76	2729.13	B/VIA	238	95007.96	98244.60	2739.88	B/VIA	291	94928.05	98170.88	2737.14	EJE	344	94925.72	98105.03	2730.70	B/VIA
27	94978.03	98128.52	2729.75	B/VIA	80	95004.52	98250.84	2740.44	EJE	133	95026.61	98198.11	2734.60	EJE	186	94947.29	98103.51	2729.74	B/VIA	239	95005.15	98248.93	2740.32	B/VIA	292	94926.47	98175.62	2737.54	EJE	345	94930.46	98106.60	2730.78	B/VIA
28	94983.27	98130.00	2729.58	B/VIA	81	94914.70	98224.47	2740.88	B/VIA	134	95025.04	98202.85	2735.22	EJE	187	94945.72	98108.25	2730.36	B/VIA	240	95003.38	98253.68	2740.27	B/VIA	293	94924.90	98180.37	2737.93	EJE	346	94935.21	98108.18	2730.81	B/VIA
29	94987.52	98131.66	2729.31	B/VIA	82	94924.39	98227.03	2741.08	B/VIA	135	95024.92	98203.46	2735.27	EJE	188	94942.30	98107.12	2730.47	B/VIA	241	95003.38	98253.68	2740.27	B/VIA	294	94924.90	98180.37	2737.93	EJE	347	94935.21	98108.18	2730.81	B/VIA
30	94992.26	98133.24	2729.03	B/VIA	83	94924.39	98227.03	2741.08	B/VIA	136	95021.89	98212.34	2736.45	EJE	189	94942.30	98117.66	2731.48	B/VIA	242	95001.72	98263.60	2740.87	B/VIA	295	94924.90	98180.37	2737.93	EJE	348	94942.80	98110.70	2730.84	B/VIA
31	94997.01	98134.81	2728.82	B/VIA	84	94929.13	98228.61	2741.23	B/VIA	137	95020.31	98217.09	2737.03	EJE	190	94940.99	98122.49	2732.02	B/VIA	243	95000.14	98268.34	2741.13	B/VIA	296	94920.17	98194.60	2738.96	EJE	349	94989.75	98212.87	2739.99	EJE
32	95001.76	98136.39	2728.74	B/VIA	85	94933.88	98230.18	2741.39	B/VIA	138	95018.74	98221.84	2737.57	EJE	191	94939.42	98127.24	2732.58	B/VIA	244	94998.63	98272.90	2741.45	B/VIA	297	94918.60	98199.35	2739.27	EJE	350	94984.50	98214.44	2740.14	EJE
33	95006.50	98137.96	2728.77	B/VIA	86	94938.62	98231.76	2741.54	B/VIA	139	95017.16	98226.58	2738.06	EJE	192	94937.84	98131.98	27337																