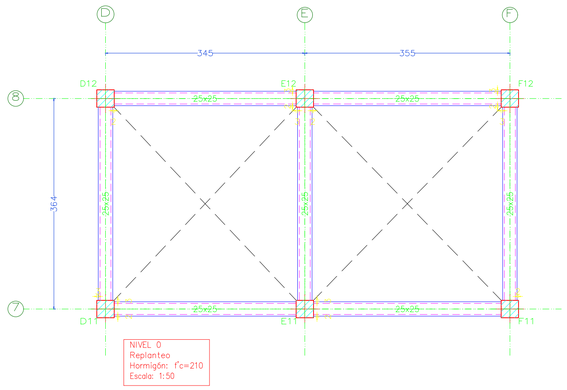
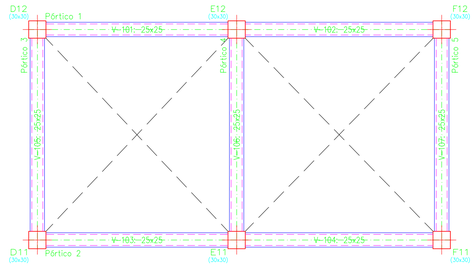
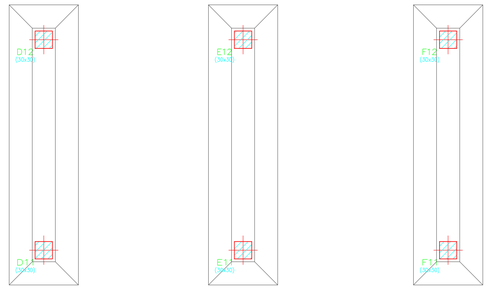


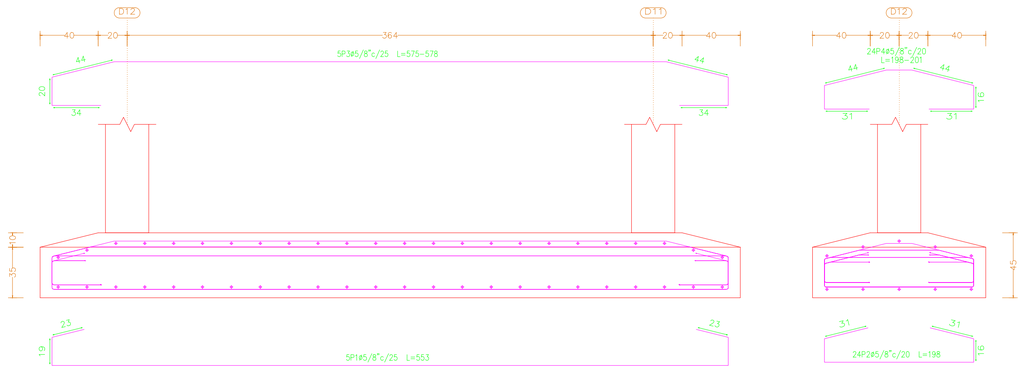




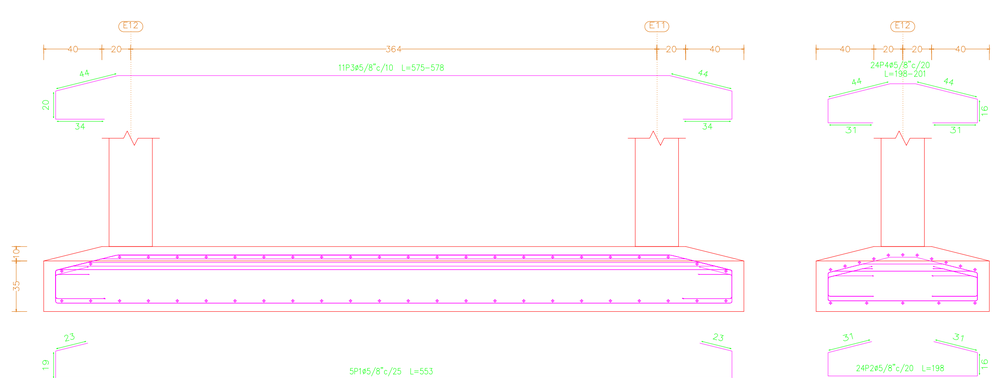
Elemento	Pos.	Diám.	No.	Long (cm)	Total (cm)	Grado 60 (kg)
D12–D11	1	#5/8"	5	553	2765	43.2
	2	#5/8"	24	198	4752	74.2
	3	#5/8"	5	VAR.	2885	45.1
	4	#5/8"	24	VAR.	4824	75.4
	5	#1/2"	2	357	714	7.1
	6	#5/8"	5	353	2118	33.1
	7	#3/8"	3	103	309	1.7
	8	#1/2"	2	357	714	7.1
	9	#5/8"	6	353	2118	33.1
	10	#3/8"	3	103	309	1.7
				Total+10%:		353.9
				#3/8":		3.8
				#1/2":		15.6
				#5/8":		334.5
				Total:		353.9

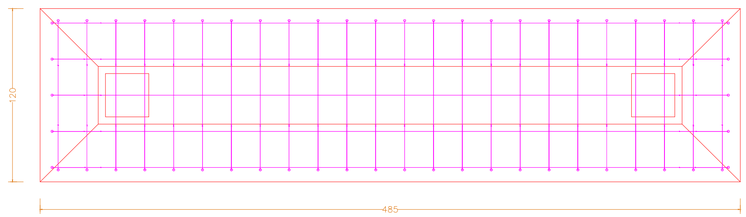
Elemento	Pos.	Diám.	No.	Long (cm)	Total (cm)	Grado 60 (kg)
E12–E11	1	#5/8"	5	553	2765	43.2
	2	#5/8"	24	198	4752	74.2
	3	#5/8"	11	VAR.	6347	99.1
	4	#5/8"	24	VAR.	4824	75.4
	5	#1/2"	4	340	1360	13.5
	6	#3/4"	4	366	1464	32.8
	7	#3/8"	3	103	309	1.7
	8	#1/2"	4	340	1360	13.5
	9	#3/4"	4	366	1464	32.8
	10	#3/8"	3	103	309	1.7
				Total+10%:		426.7
				#3/8":		3.7
				#1/2":		29.7
				#5/8":		321.1
				#3/4":		72.2
				Total:		426.7

D12–D11

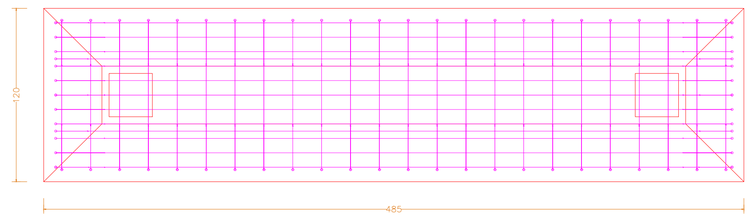


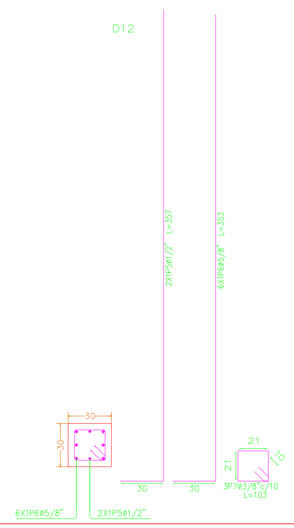
E12–E11

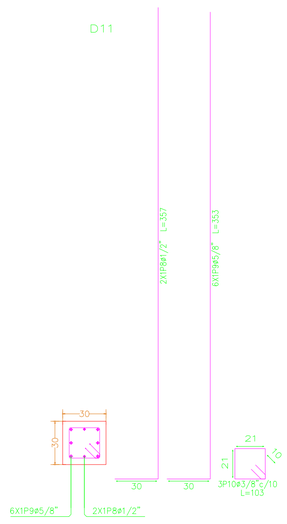


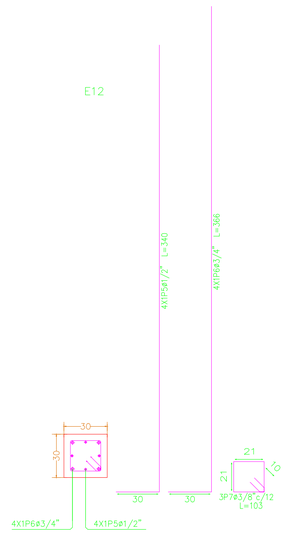


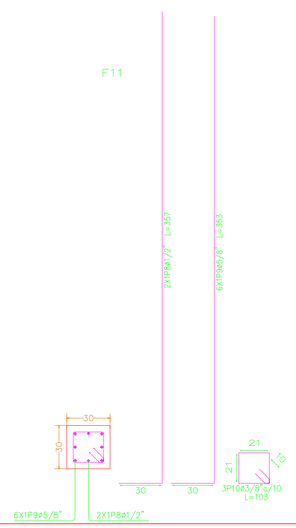
Fundación
Replanteo
Escala: 1:50











Proyecto: MEJORAMIENTO DE LA INFRAESTRUCTURA FÍSICA DE LAS INSTITUCIONES Y CENTROS EDUCATIVOS OFICIALES QUE IMPLEMENTAN LA ESTRATEGIA DE RESIDENCIA ESCOLAR EN EL DEPARTAMENTO DE ARAUCA	
Sede intervenida: IE Tutukana Sinaiaka (Saravena) – Sede principal **Ubicación:** Resguardo. Playas De Bojaba Área rural – Municipio Saravena	
Diseñó ORIGINAL FIRMADO Ing. Eduard Mora Cabrera MP: 54202118271 NTS Profesional Universitario SEDA	
Dibujó ORIGINAL FIRMADO Ing. Eduard Mora Cabrera Profesional Universitario SEDA	
Contenido Replanteo cimentación Construcción batería sanitaria	
Escala: 1:20 1:50	**Plano:** EST- 1 DE 4