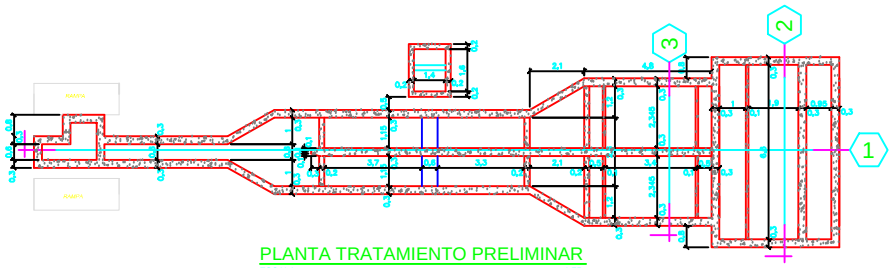
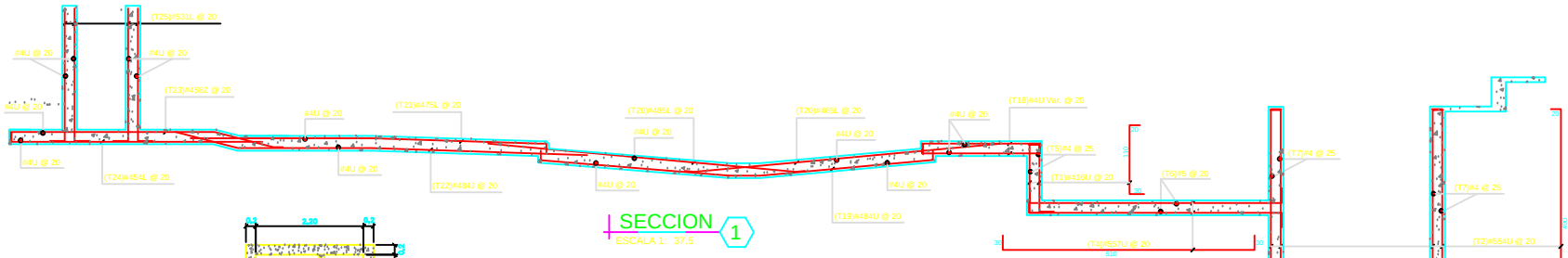
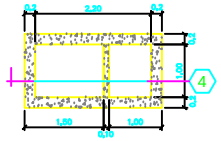


PLANTA TRATAMIENTO PRELIMINAR
ESCALA 1:75

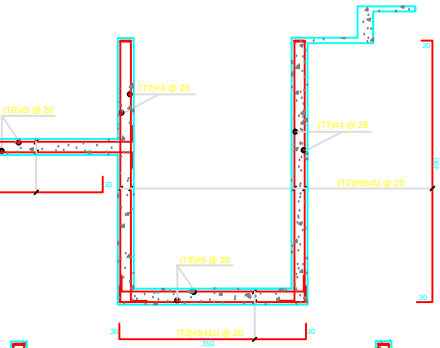
SECCION 1
ESCALA 1: 75

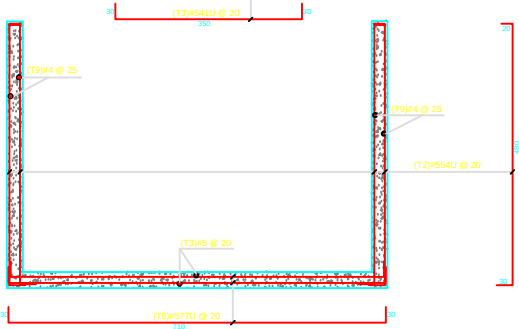


SECCION 1
ESCALA 1: 37.5

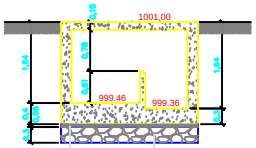


PLANTA ESTRUCTURA DE SEPARACION
ESCALA 1:37.5



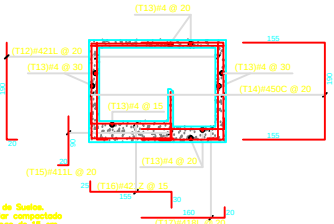


SECCION 2
ESCALA 1: 37.5

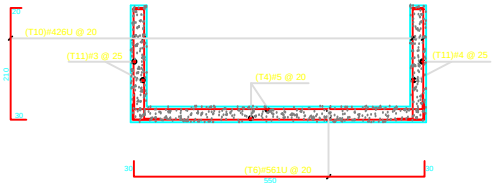


Segun recomendacion del Estudio de Suelos.
Hacer Relleno con material Granular compactado
al 95% Proctor modificado en capas de 15 cm.
Encapsulado en un geotextil no tejido 2000 o similar.

SECCION 4
ESCALA 1: 37.5



SECCION 4
ESCALA 1: 37.5



SECCION 3
ESCALA 1: 37.5

CUADRO REFUERZO TRATAMIENTO PRELIMINAR

TIPO	Ø	NOMENCLATURA	FIGURA	LONG. (m)	CANTIDAD
T-1	1/2"	# 416U	30 120 30	1.60	56
T-2	5/8"	# 554U	30 490 30	5.40	244
T-3	5/8"	# 541U	30 390 30	4.10	72
T-4	5/8"	# 557U	30 510 30	5.70	56
T-5	3/8"	# 360U	30 550 30	6.00	24
T-6	5/8"	# 581U	30 550 30	6.10	26
T-7	1/2"	# 477U	30 710 30	7.70	80
T-8	5/8"	# 577U	30 710 30	7.70	50
T-9	1/2"	# 452U	30 470 30	5.20	80
T-10	1/2"	# 426U	30 210 30	2.60	104
T-11	3/8"	# 358U	30 530 30	5.80	32
T-12	1/2"	# 421L	120 30	2.10	14
T-13	1/2"	# 417U	30 120 30	1.70	61
T-14	1/2"	# 450C	120 30 120 30	5.00	14
T-15	1/2"	# 411L	90 30	1.10	7
T-16	1/2"	# 421Z	30 125 30	2.10	9
T-17	1/2"	# 418L	120 30	1.80	9
T-18	1/2"	# 4U Var.	30 Variable 30		28
T-19	1/2"	# 484U	30 420 30	8.40	16
T-20	1/2"	# 465L	20 520 20	6.50	32
T-21	1/2"	# 475L	150 30	7.50	8
T-22	1/2"	# 484J	120 30 720	8.40	6
T-23	1/2"	# 458P	30 120 120 30	5.80	6
T-24	1/2"	# 454L	30 120 30	5.40	6
T-25	1/2"	# 531L	30 120 30	3.10	36

ESPECIFICACIONES:
f'c = 28 MPa (4000 psi)
fy = 420 MPa (60.000 psi) Ø >= 1/2"

MUNICIPIO DE SANTANDER DE QUILICHAO
DEPARTAMENTO DEL CAUCA

ESTUDIOS Y DISEÑOS PLANTA DE TRATAMIENTO DE AGUAS RESIDUALES ZONA URBANA SANTANDER DE QUILICHAO

CONTIENE: TRATAMIENTO PRELIMINAR
REFUERZO ESTRUCTURAL

FECHA	REVISIONES	REVISO	APROBO

DISEÑO: ING. JAIME HERNAN DE LA CRUZ
REVISO: Ing. NYRAM ROMERO
APROBO: Ing. SLADIMIR VELASCO GARCIA
DIBUJO: JOSE MIGUEL ENRIQUEZ

PLANO Nº: E1 DE: 8
ESCALA: 1 : 75
FECHA: SEPTIEMBRE 2012
CAD: E1-Tratamiento Preliminar.dwg