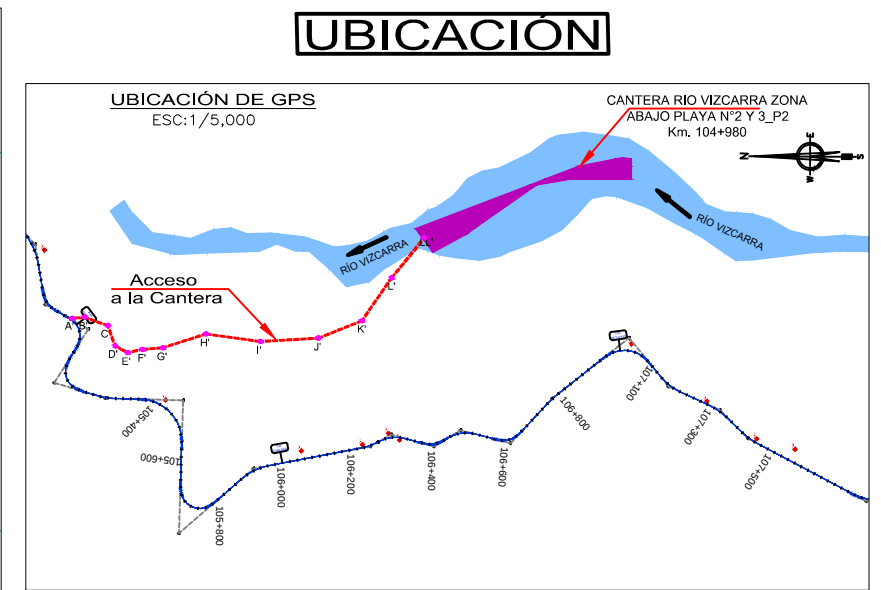
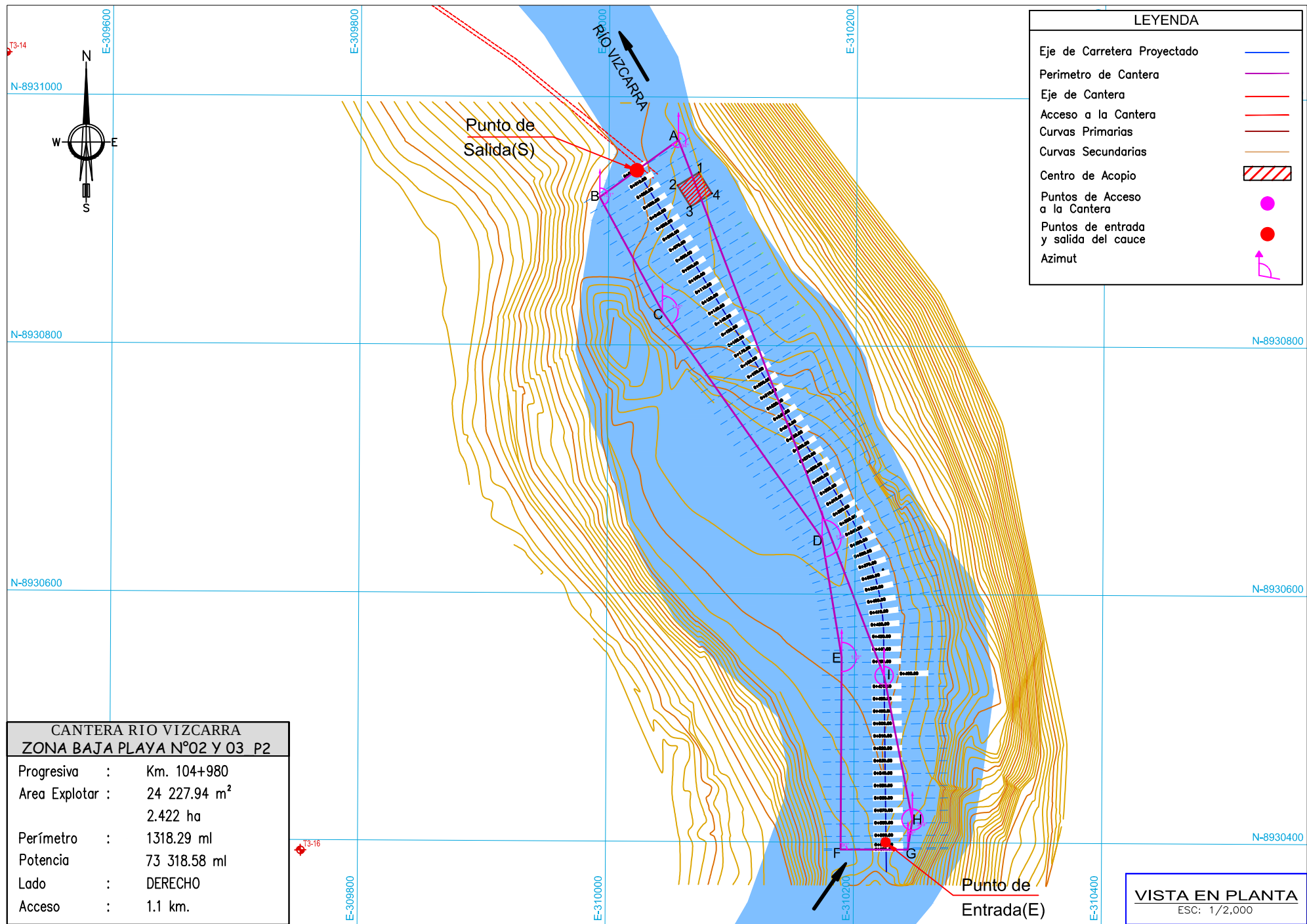




COORDENADAS UTM (POLIGONAL)
DATUM: WGS 84

CUADRO DE CANTERA					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A - B	78.19	75°9'28"	310055.918	8930965.231
B	B - C	105.21	97°13'34"	309992.778	8930919.118
C	C - D	223.80	173°28'6"	310043.646	8930827.028
D	D - E	96.88	205°50'52"	310173.437	8930644.709
E	E - F	154.94	189°34'37"	310189.593	8930549.182
F	F - G	54.19	89°55'57"	310189.652	8930394.243
G	G - H	24.51	98°16'26"	310243.841	8930394.327
H	H - I	118.13	160°22'24"	310247.330	8930418.588
I	I - A	462.44	170°8'35"	310223.895	8930534.373

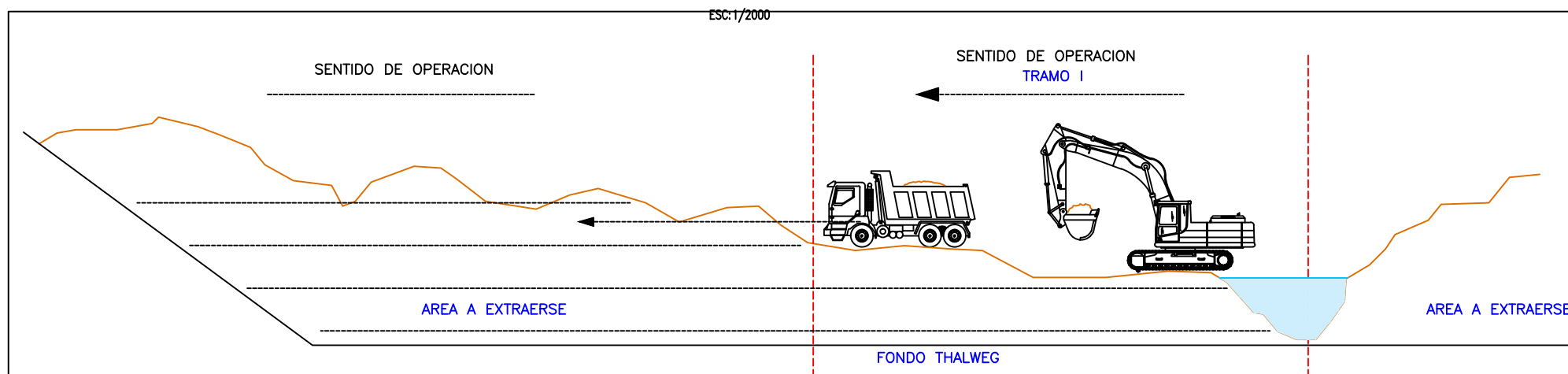
COORDENADAS UTM (POLIGONAL)
DATUM: WGS 84

CUADRO DE ZONA DE ACOPIO					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
1	1 - 2	20.00	90°0'0"	310072.496	8930939.310
2	2 - 3	20.00	90°0'0"	310055.523	8930928.730
3	3 - 4	20.00	90°0'0"	310066.102	8930911.757
4	4 - 1	20.00	90°0'0"	310083.075	8930922.337

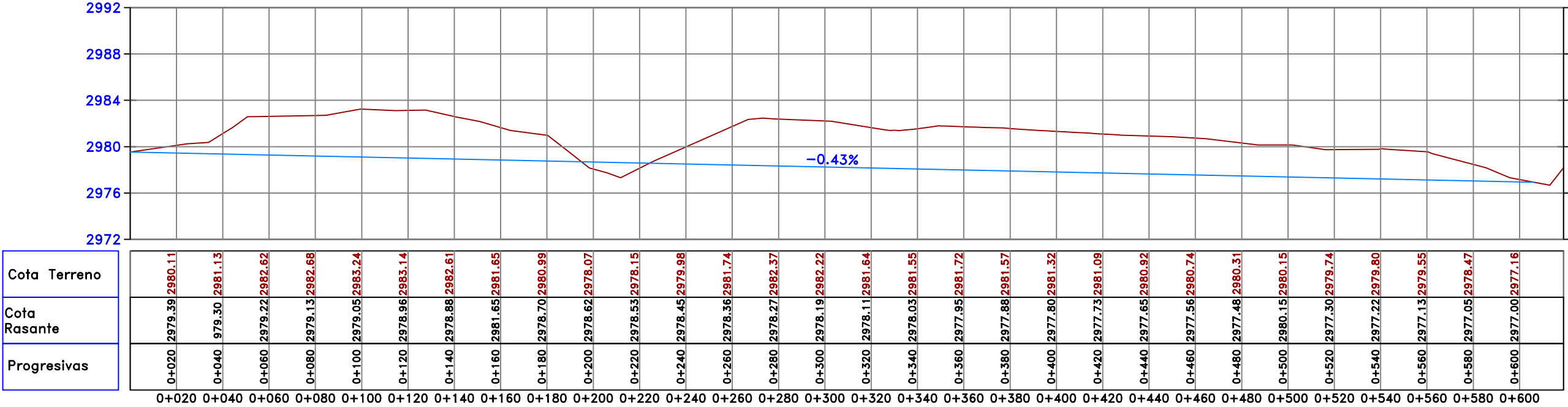
COORDENADAS UTM-WGS 84 ACCESO A LA CANTERA		
VERTICES	NORTE	ESTE
A'	8931872.154	309813.344
B'	8931839.244	309817.467
C'	8931777.507	309795.341
D'	8931757.624	309741.549
E'	8931724.834	309723.864
F'	8931684.999	309732.736
G'	8931631.730	309737.086
H'	8931517.804	309774.418
I'	8931373.921	309755.399
J'	8931220.505	309764.911
K'	8931105.067	309811.632
L'	8931027.581	309924.901
LL'	8930936.146	310037.320

NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



PERFIL LONGITUDINAL
ESC: 1/1,000



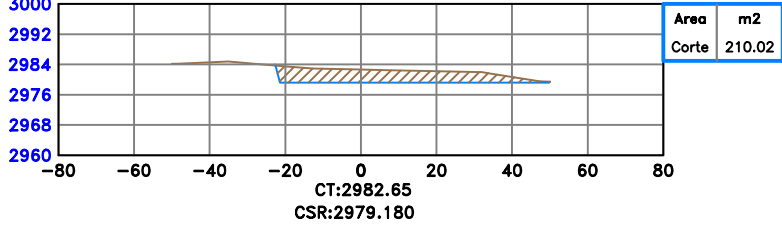
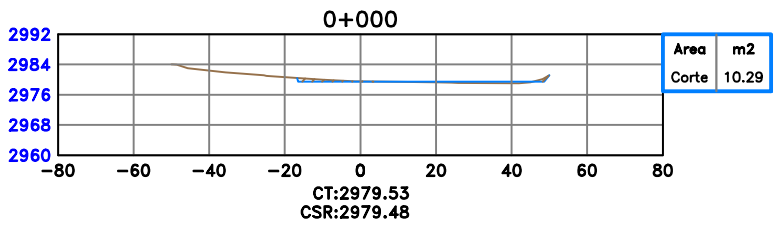
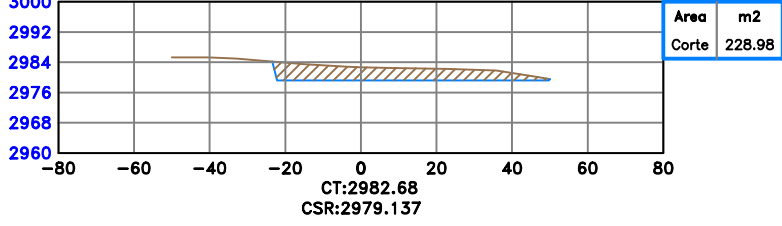
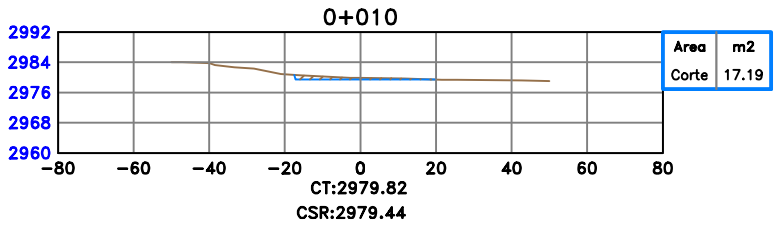
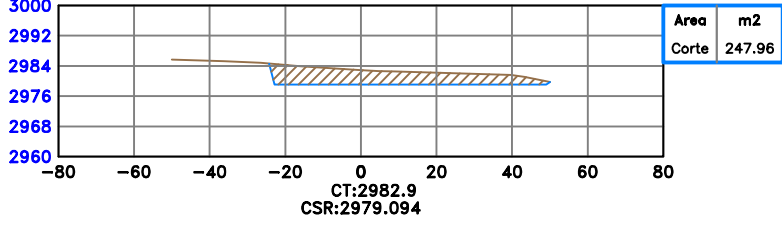
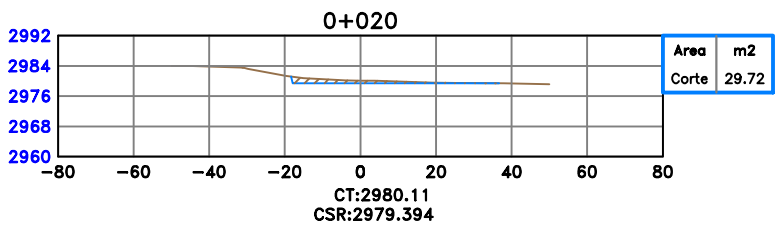
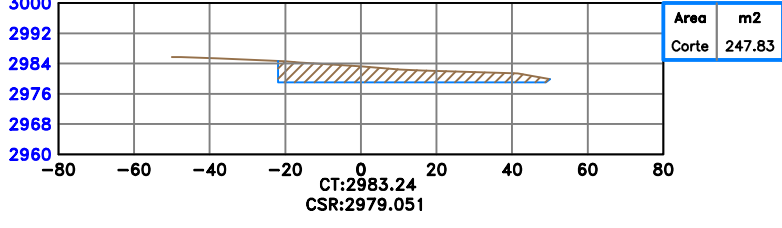
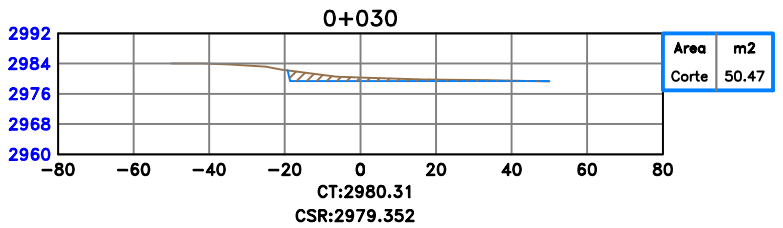
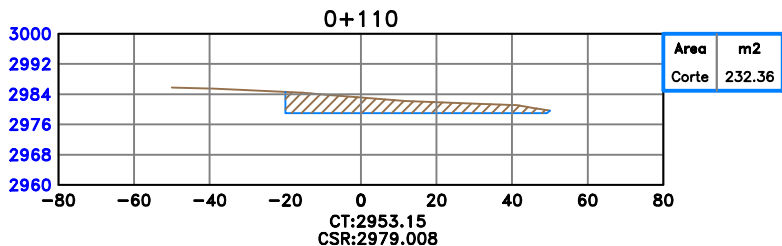
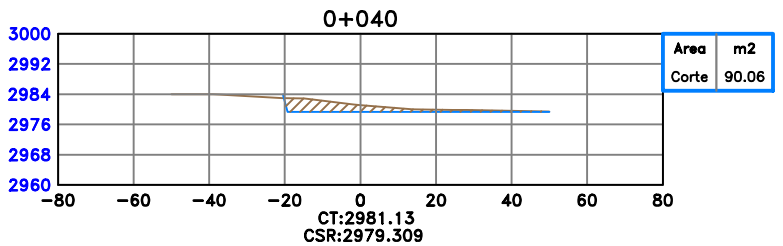
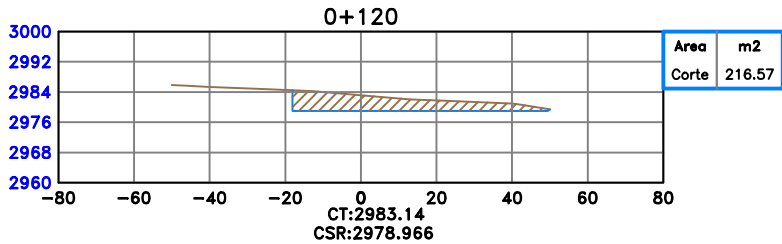
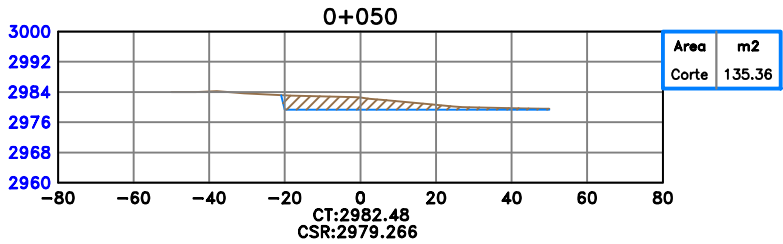
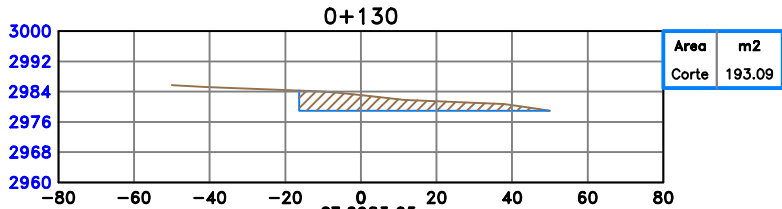
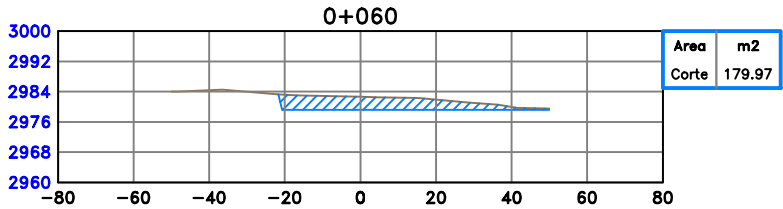
NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

LEYENDA	
Plataforma de Terreno	
Terreno natural	

SECCIONES TRANSVERSALES

ESC: 1/750



LEYENDA

Plataforma de Terreno
Terreno natural

NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

CONSULTOR:

DISEÑO:
DIBUJO:
VERIFICO:
PRESENTO:

APROBO :

REVISIONES

N°	FECHA	DESCRIPCION

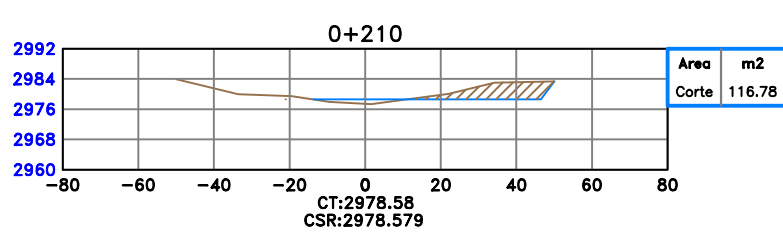
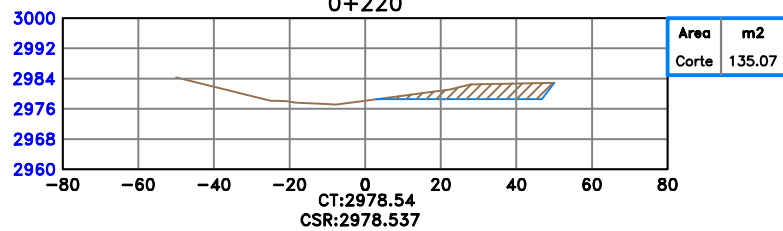
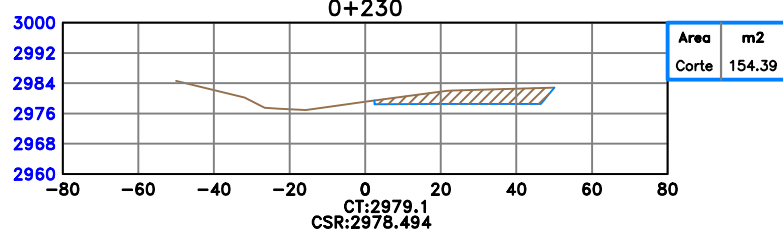
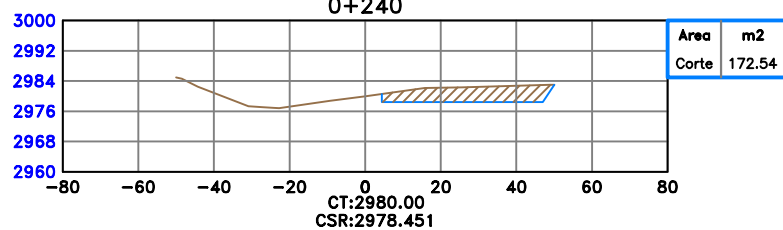
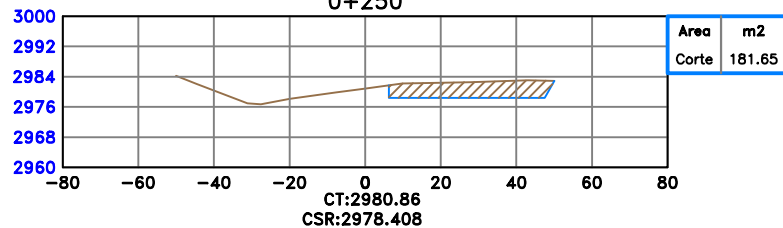
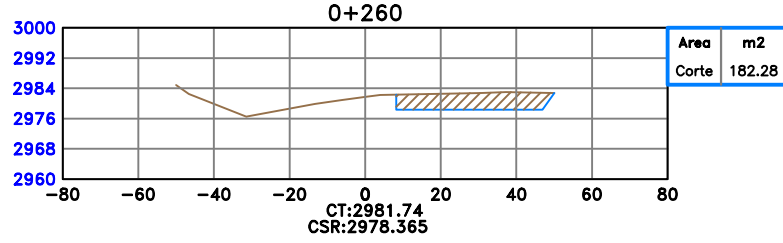
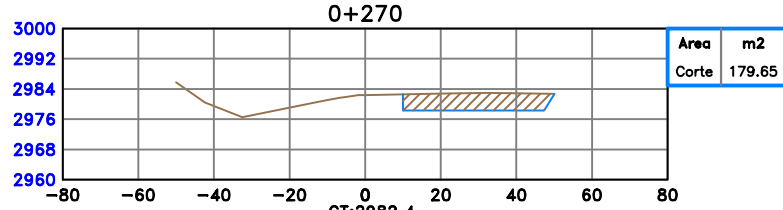
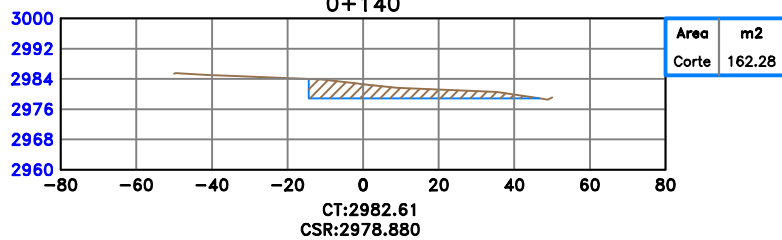
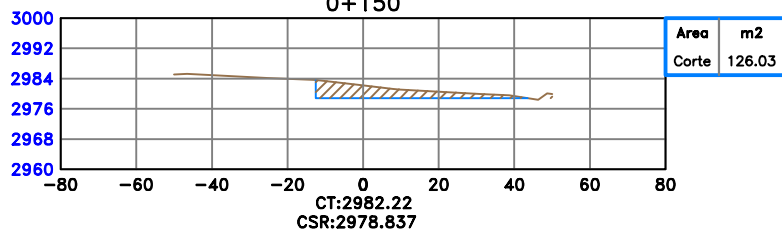
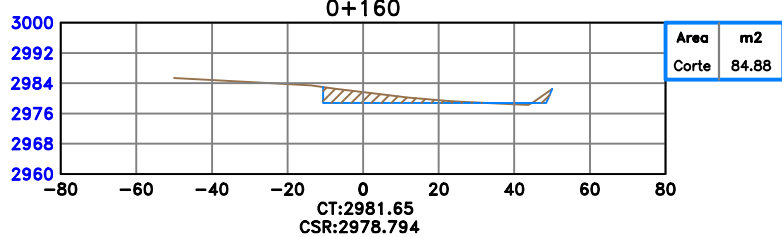
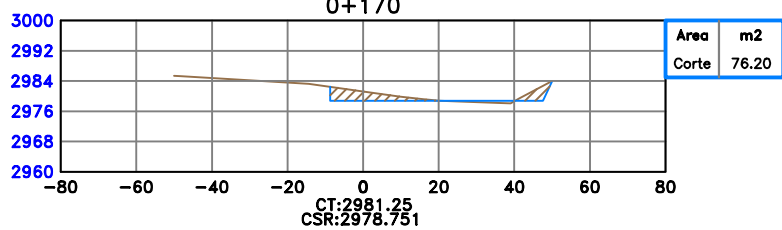
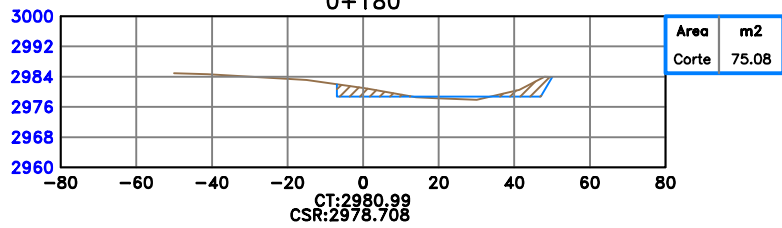
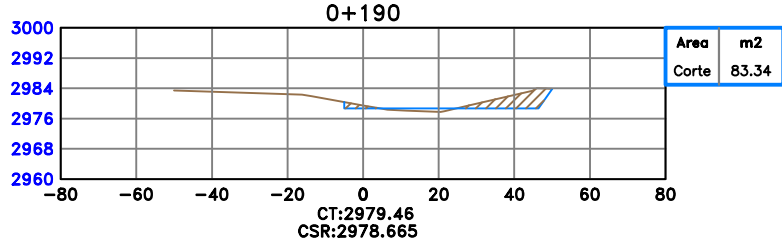
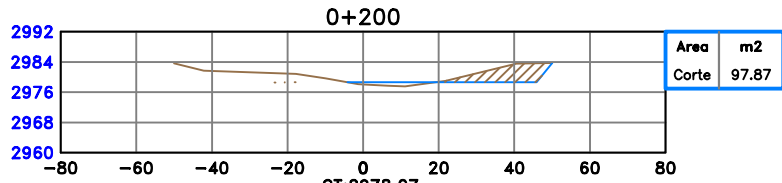
ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO-CONOCOCCHA, SECTOR HUÁNUCO-LA UNIÓN-HUALLANCA RUTA PE-3N
CONTRATO N°DU 078-2009(CP) - 1-2009-DU-GR-LL-GRI-CE

PLANO DE CANTERA
RIO VIZCARRA ABAJO
PLAYA N°02 Y 03 - P2
Km. 104+980

ESCALA: INDICADA
FECHA: DICIEMBRE 2015
SU-CANT-02-3/7

SECCIONES TRANSVERSALES

ESC: 1/750



LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -

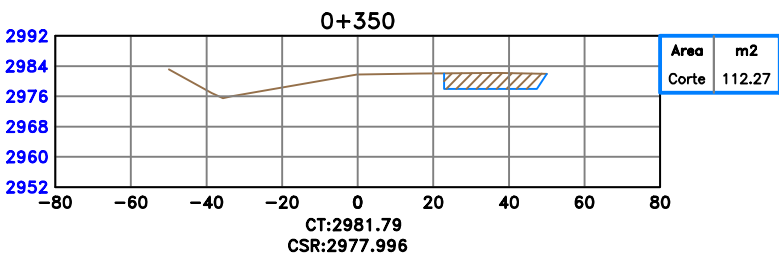
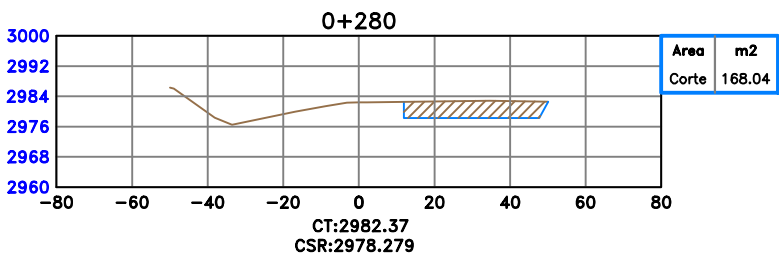
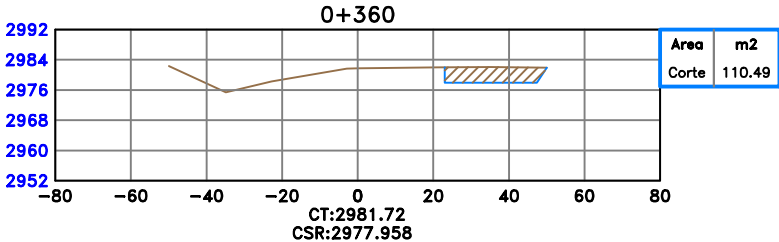
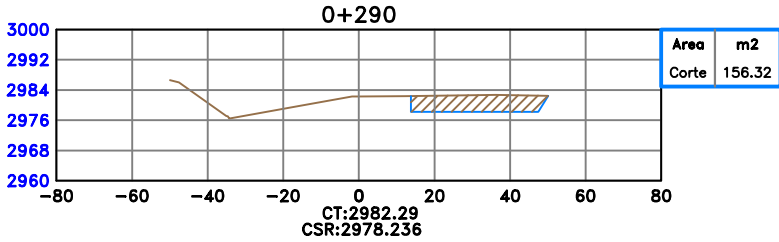
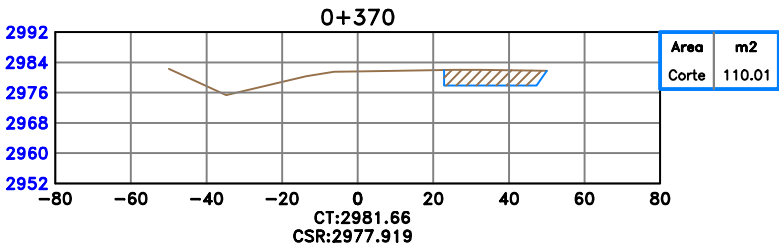
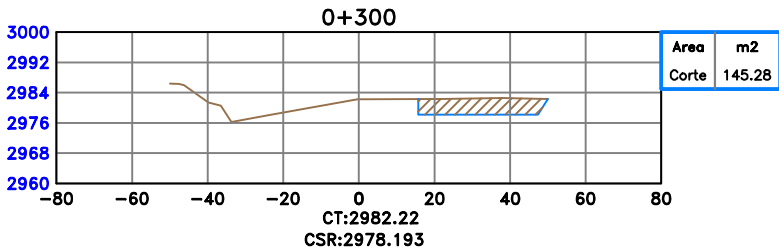
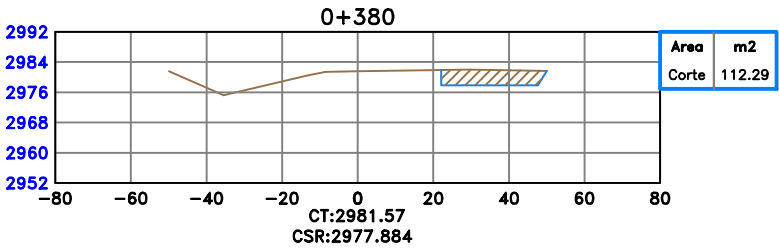
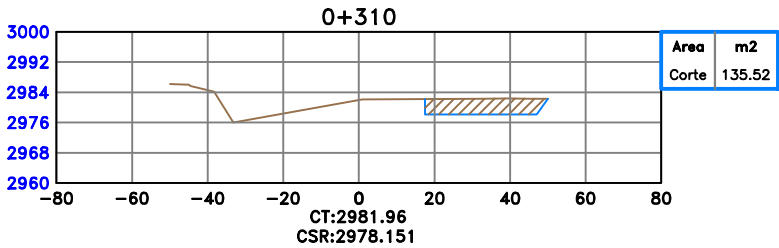
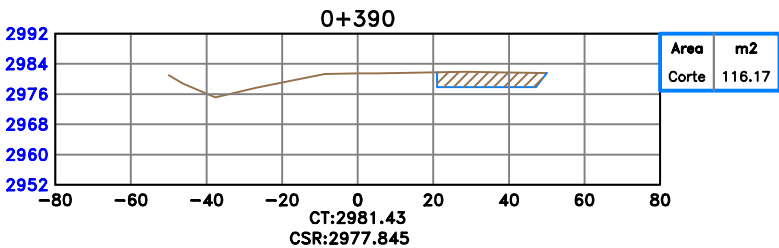
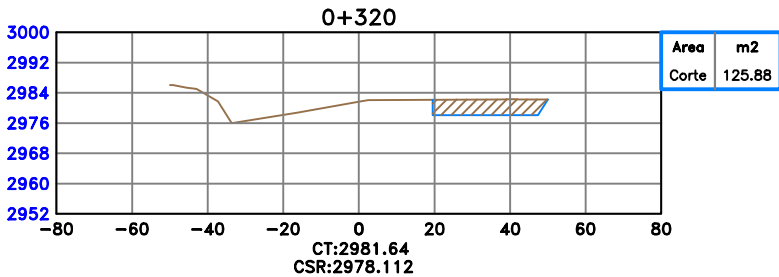
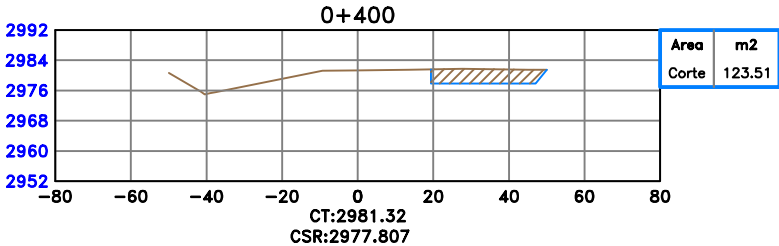
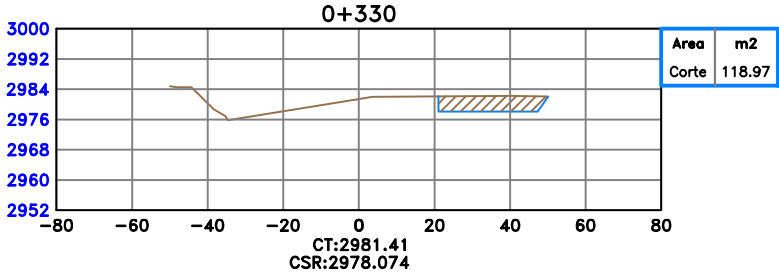
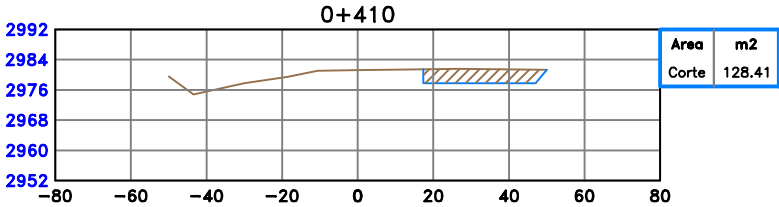
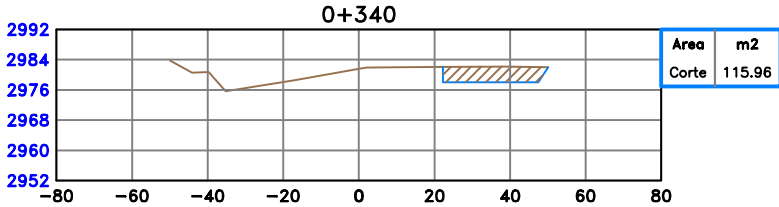
NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

N°	FECHA	DESCRIPCION

SECCIONES TRANSVERSALES

ESC: 1/750



LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -

NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

CONSULTOR:

DISEÑO:

DIBUJO:

VERIFICO:

PRESENTO:

APROBO :

REVISIONES

N°	FECHA	DESCRIPCION

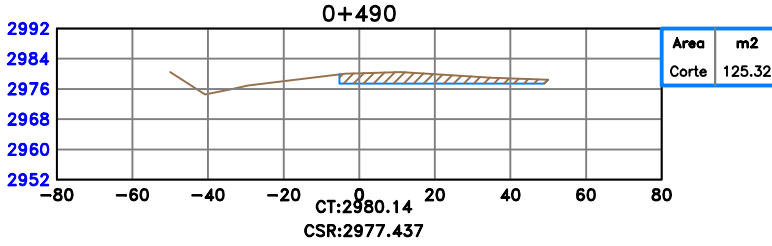
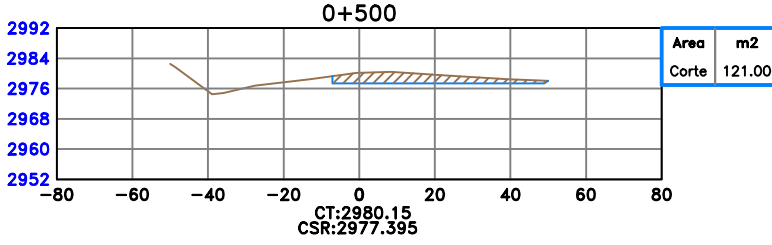
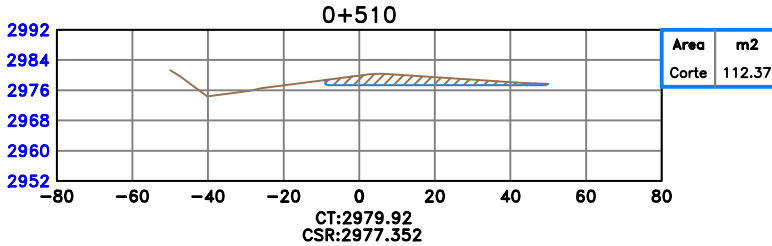
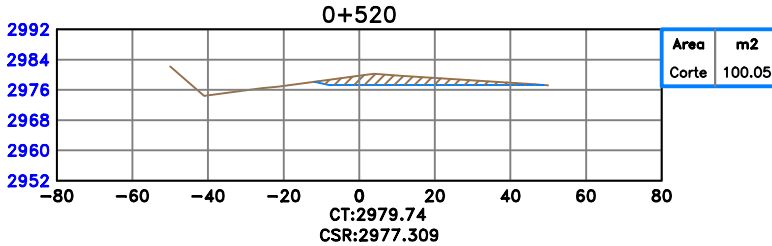
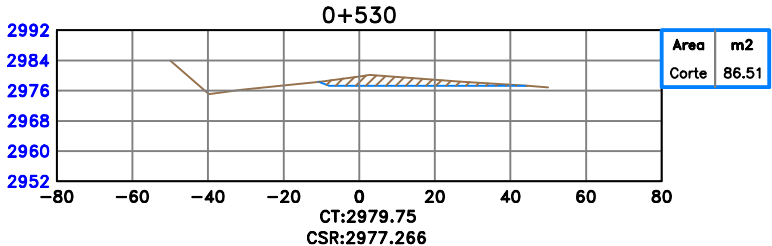
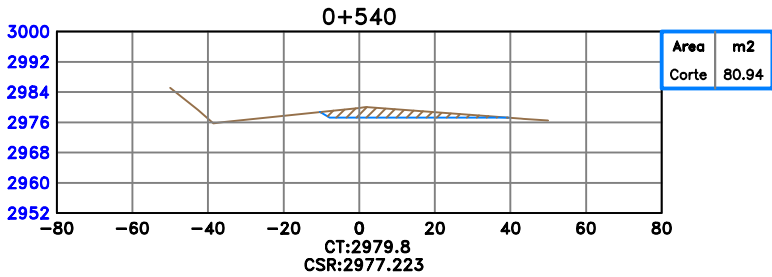
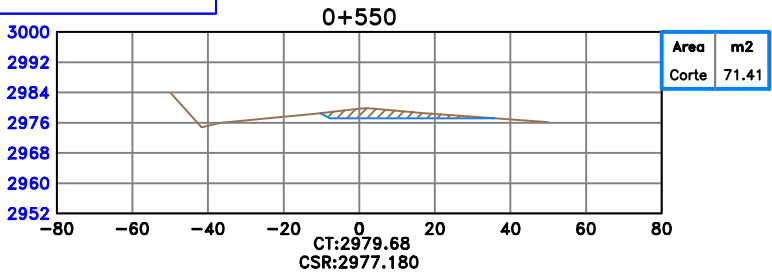
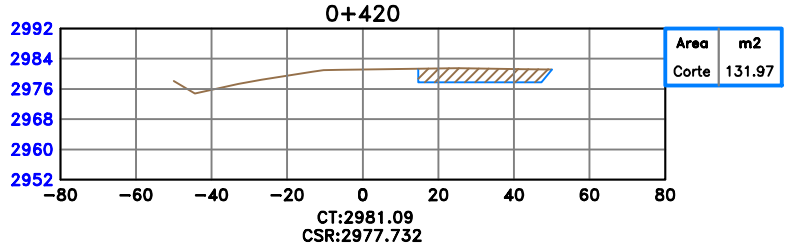
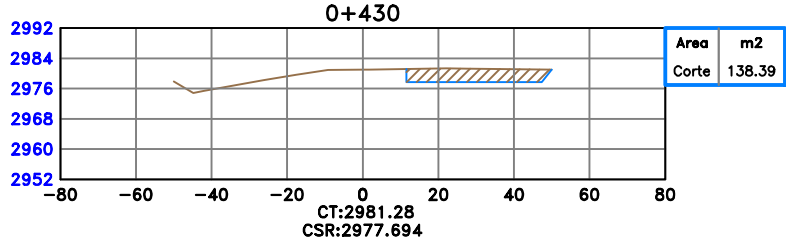
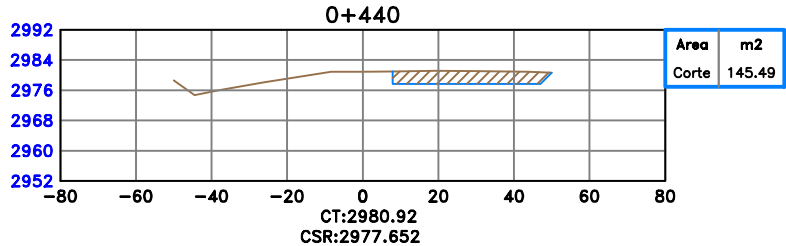
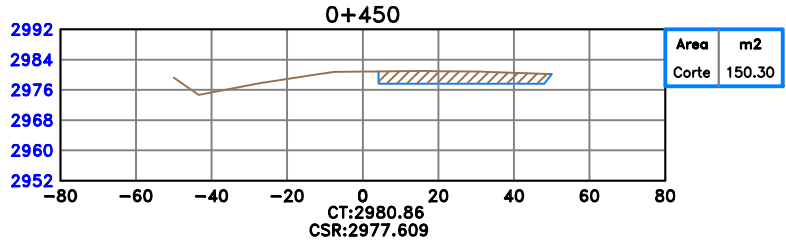
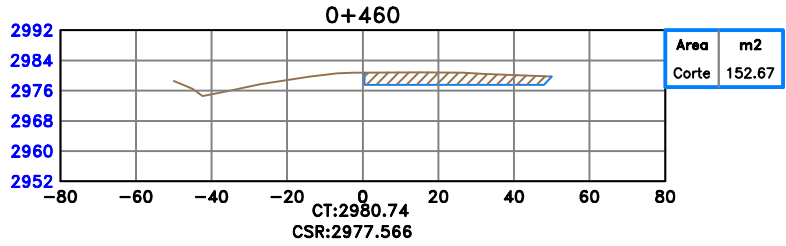
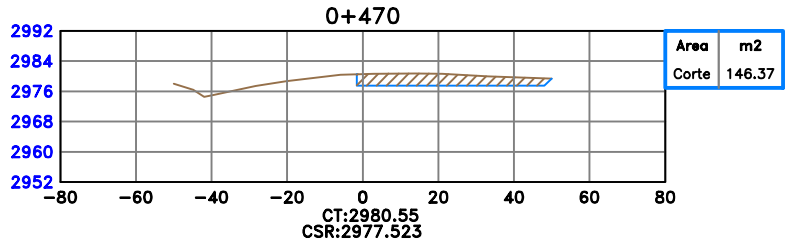
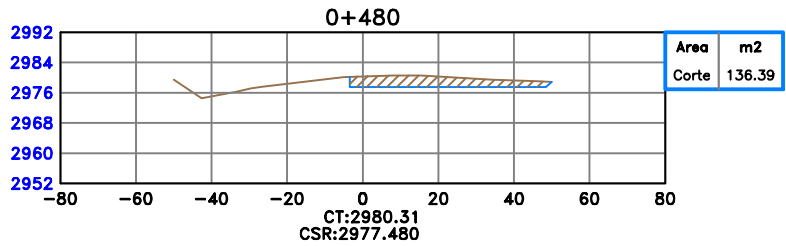
ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO—CONOCCOCHA, SECTOR HUÁNUCO—LA UNIÓN—HUALLANCA RUTA PE-3N
CONTRATO N°DU 078—2009(CP) — 1—2009—DU—GR—LL—GRI—CE

PLANO DE CANTERA
RIO VIZCARRA ABAJO
PLAYA N°02 Y 03 - P2
Km. 104+980

ESCALA: INDICADA
FECHA: DICIEMBRE 2015
SU-CANT-02-5/7

SECCIONES TRANSVERSALES

ESC: 1/750



LEYENDA

Plataforma de Terreno
Terreno natural

NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

CONSULTOR:

DISEÑO:

DIBUJO:

VERIFICO:

PRESENTO:

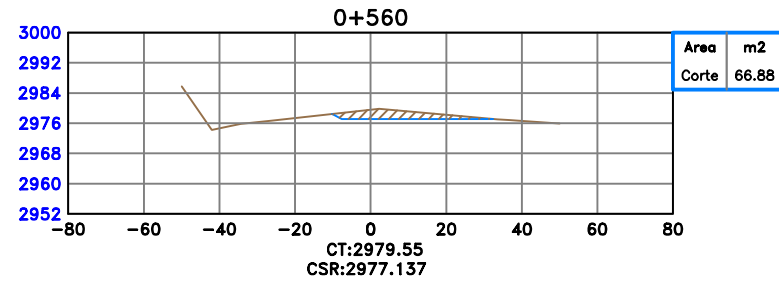
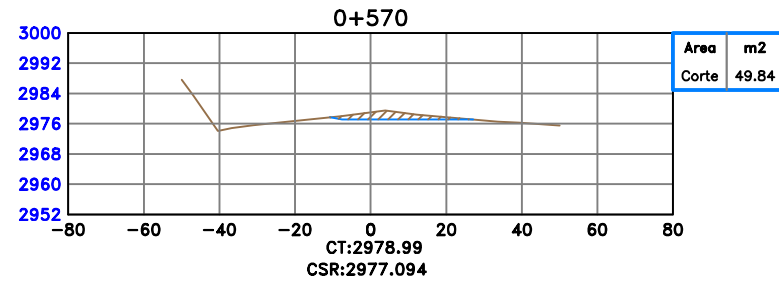
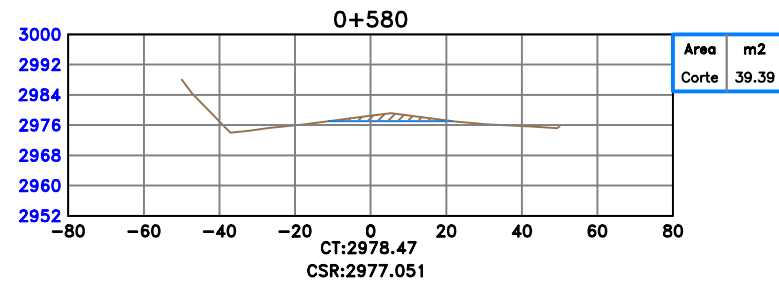
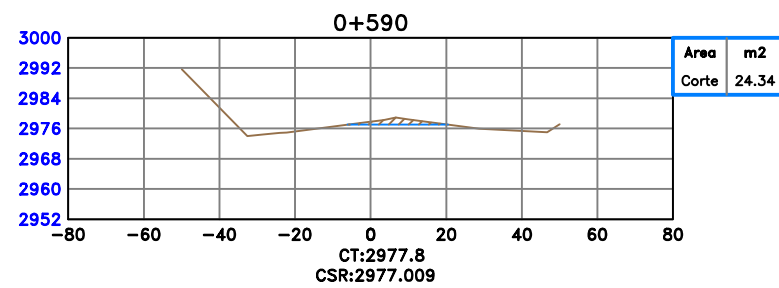
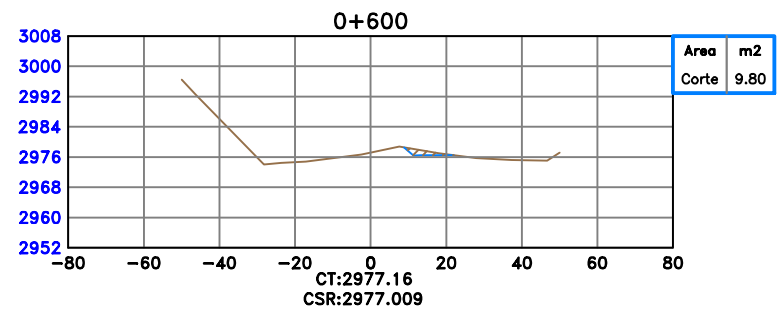
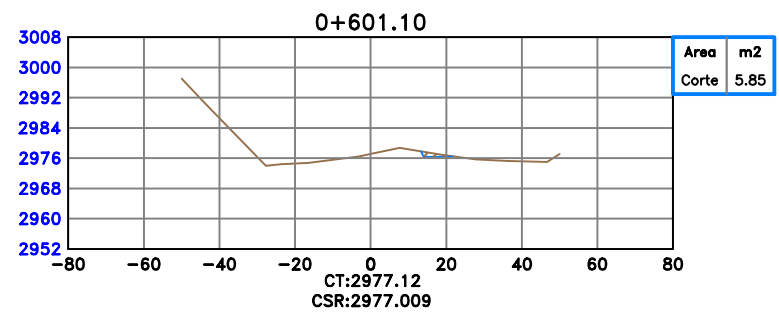
APROBO :

REVISIONES

N°	FECHA	DESCRIPCION

SECCIONES TRANSVERSALES

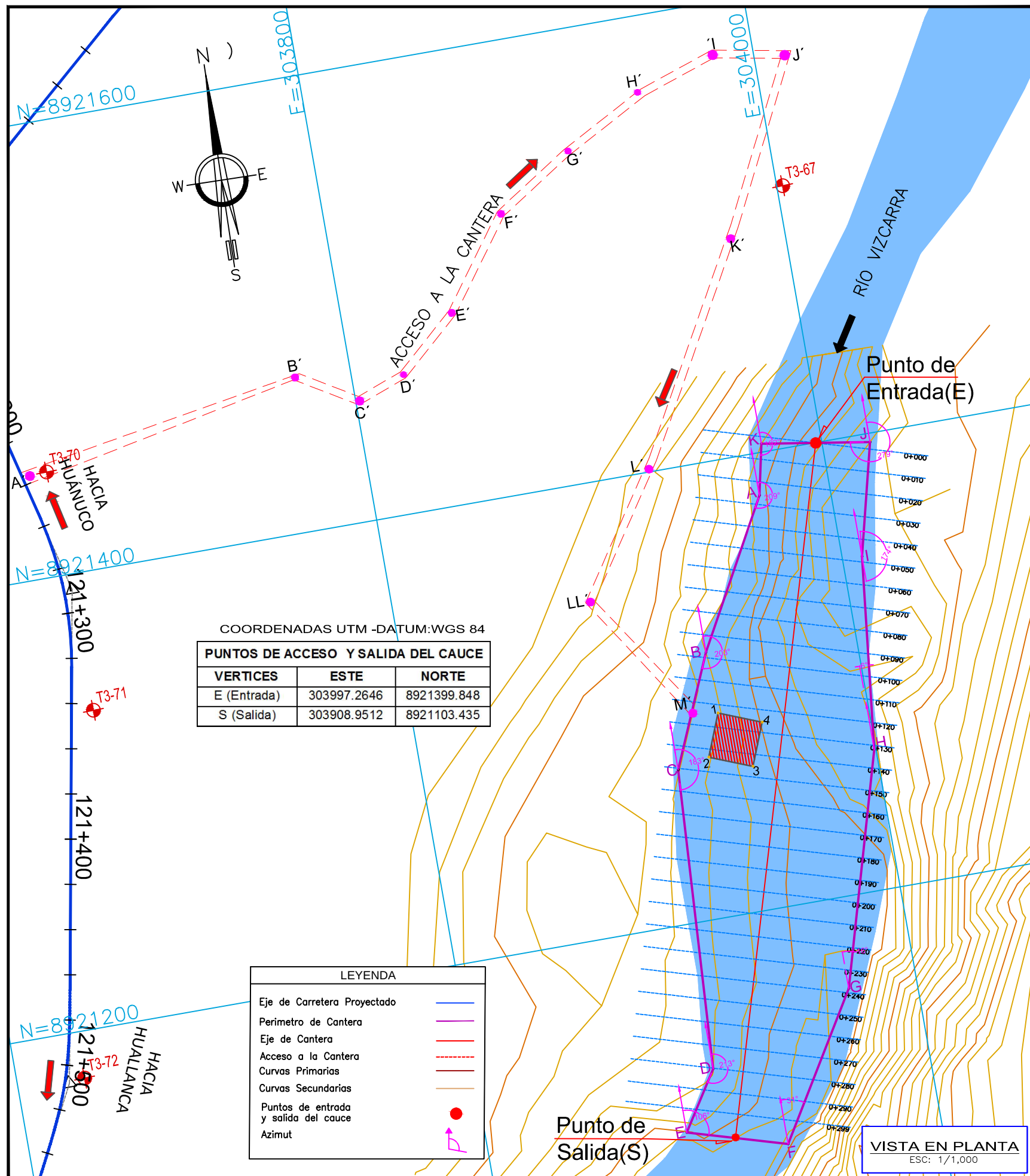
ESC: 1/750



LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -

NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



COORDENADAS UTM -DATUM:WGS 84

PUNTOS DE ACCESO Y SALIDA DEL CAUCE		
VERTICES	ESTE	NORTE
E (Entrada)	303997.2646	8921399.848
S (Salida)	303908.9512	8921103.435

LEYENDA

Eje de Carretera Projectado	—
Perimetro de Cantera	—
Eje de Cantera	—
Acceso a la Cantera	—
Curvas Primarias	—
Curvas Secundarias	—
Puntos de entrada y salida del cauce	●
Azímüt	↻

COORDENAS UTM-WGS 84
ACCESO A LA CANTERA

VERTICES	ESTE	NORTE
A'	303652.181	8921445.809
B'	303775.36	8921468.42
C'	303801.70	8921453.281
D'	303822.863	8921461.271
E'	303848.621	8921484.511
F'	303877.723	8921523.864
G'	303911.736	8921546.063
H'	303949.50	8921566.292
I'	303982.126	8921576.814
J'	304013.521	8921571.193
K'	303975.905	8921495.341
L'	303922.558	8921401.248
LL'	303886.86	8921347.84
M'	303922.936	8921291.547

CANTERA RIO
CONOC VIZCARRA PLAYA N°4

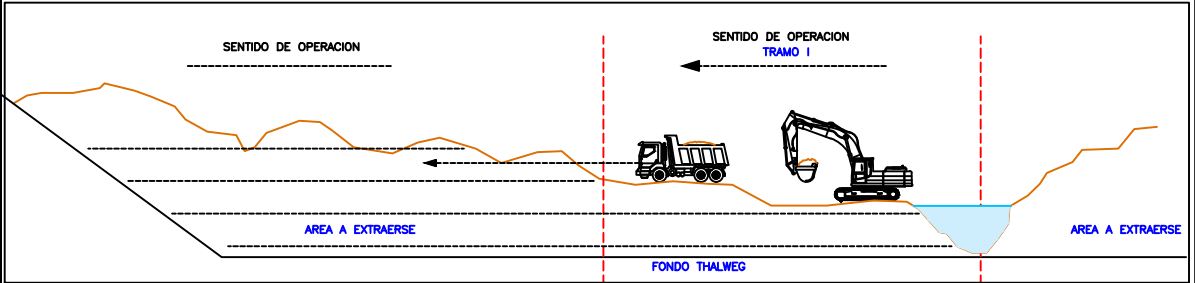
Progresiva	: Km. 121+240
Area Explotar	: 19930.51 m ² 1.9930.51 ha
Perímetro	: 723.04 ml
Potencia	: 34725.25 m ³
Lado	: IZQUIERDO
Acceso	: 740 m

COORDENADAS UTM (ZONA DE ACOPIO)
DATUM: WGS 84

VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
1	1 - 2	20.00	90°0'0"	303933.941	8921289.715
2	2 - 3	20.00	90°0'0"	303926.522	8921271.142
3	3 - 4	20.00	90°0'0"	303945.096	8921263.723
4	4 - 1	20.00	90°0'0"	303952.514	8921282.297

COORDENADAS UTM (POLIGONAL)
DATUM: WGS 84 / CUADRO DE CANTERA

VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A - B	73.36	196°41'19"	303968.699	8921381.310
B	B - C	53.35	174°27'30"	303933.336	8921317.033
C	C - D	133.19	160°2'36"	303912.255	8921268.028
D	D - E	30.50	209°13'43"	303904.542	8921135.066
E	E - F	45.14	73°53'16"	303888.132	8921109.356
F	F - G	73.81	104°51'12"	303931.427	8921096.584
G	G - H	106.32	164°49'33"	303969.759	8921159.655
H	H - I	85.54	170°13'34"	303999.272	8921261.800
I	I - J	50.83	187°42'4"	304008.720	8921346.814
J	J - K	48.14	84°58'2"	304021.054	8921396.126
K	K - A	22.87	93°7'10"	303973.504	8921403.666

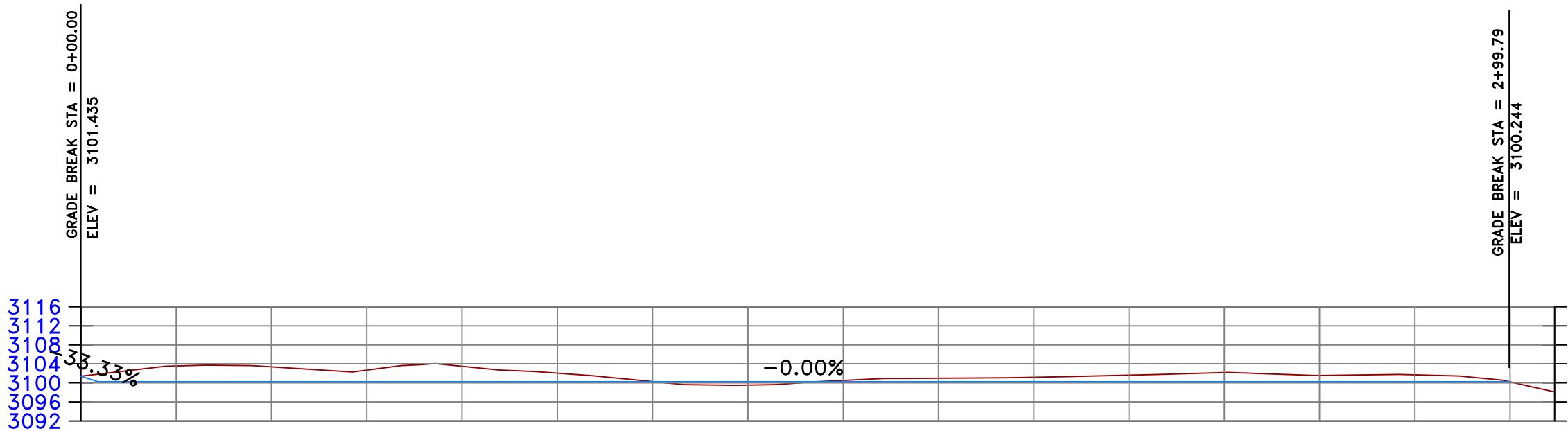


NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

VISTA EN PLANTA
ESC: 1/1,000

PERFIL LONGITUDINAL

ESC: 1/550



Cota Terreno

Cota
Rasante

Progresivas

0+020	3103.58	3100.245
0+040	3103.37	3100.245
0+060	3102.67	3100.245
0+080	3103.51	3100.245
0+100	3102.05	3100.245
0+120	3100.29	3100.245
0+140	3099.54	3100.245
0+160	3100.52	3100.245
0+180	3101.00	3100.245
0+200	3101.18	3100.245
0+220	3101.64	3100.245
0+240	3102.16	3100.245
0+260	3101.55	3100.245
0+280	3101.69	3100.244
0+300	3100.20	3100.244

NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



CONSULTOR:



DISEÑO:

DIBUJO:

VERIFICO:

PRESENTO:

APROBO :

REVISIONES

N°	FECHA	DESCRIPCION

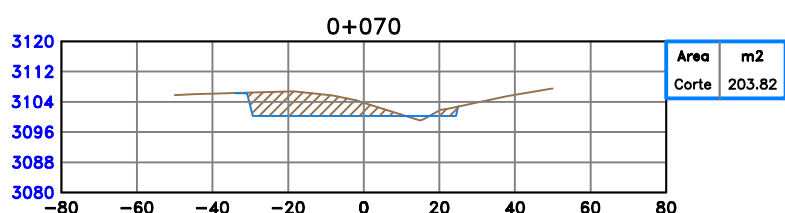
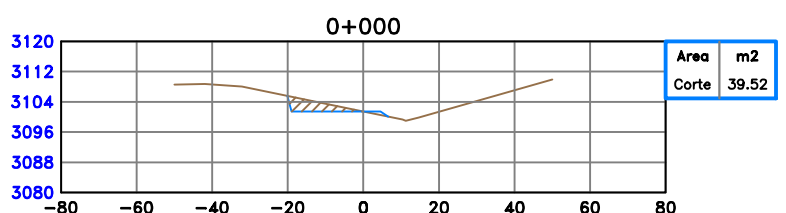
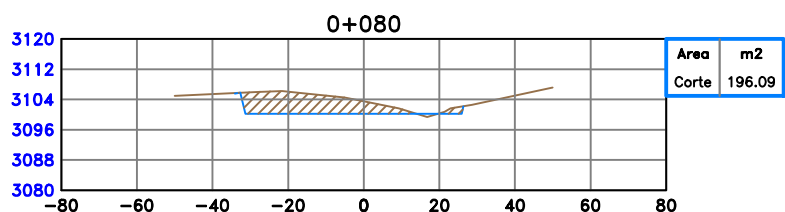
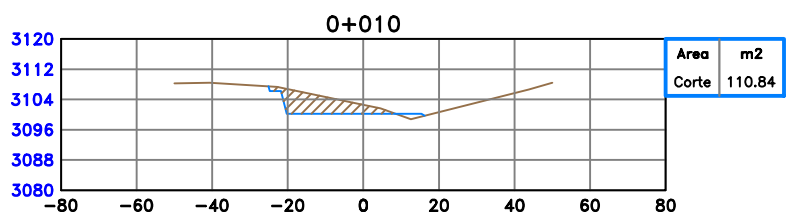
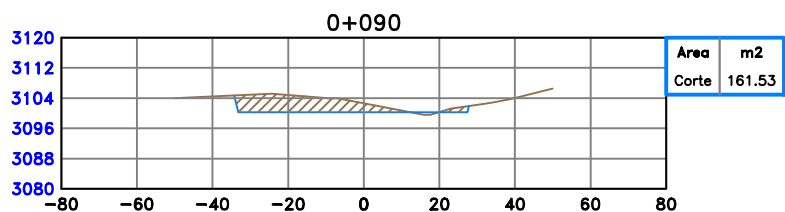
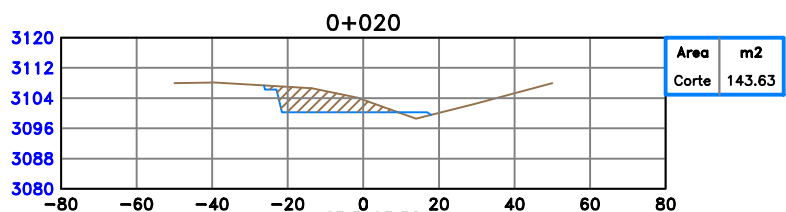
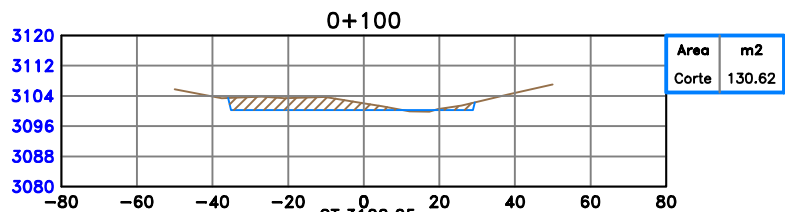
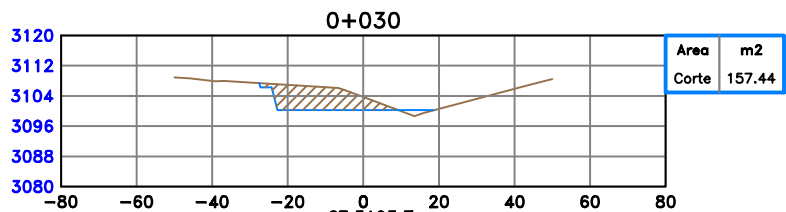
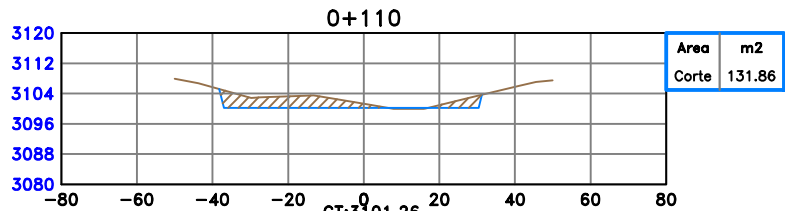
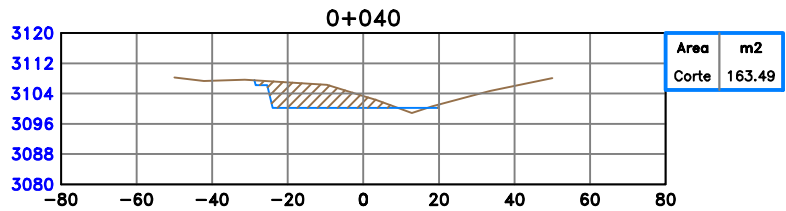
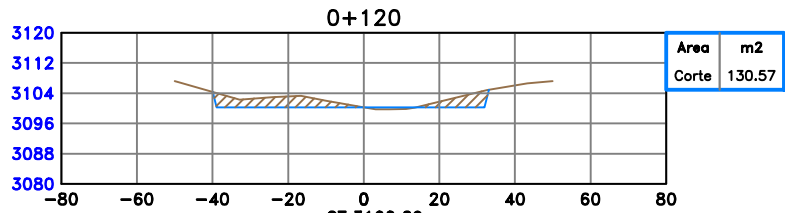
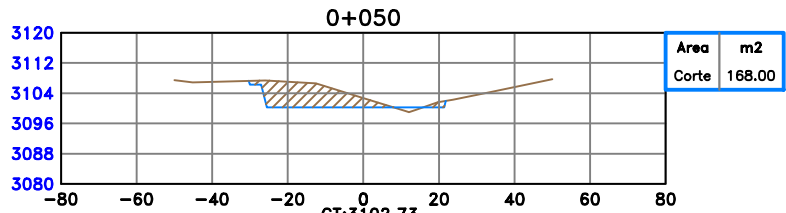
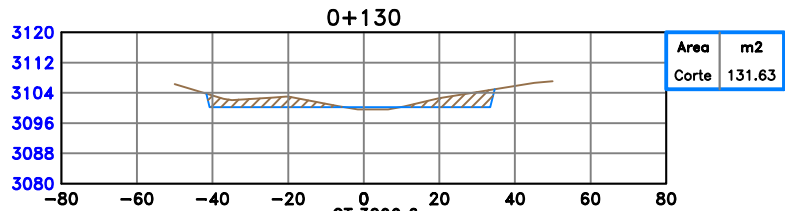
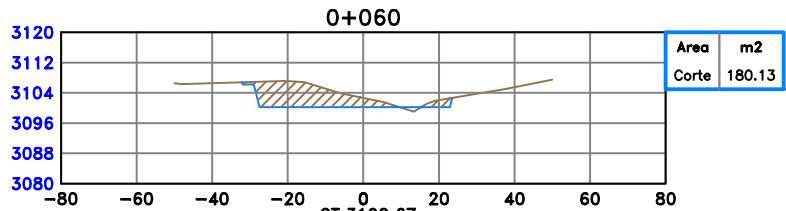
ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO-CONOCHOCHA, SECTOR HUÁNUCO-LA UNIÓN-HUALLANCA RUTA PE-3N
CONTRATO N°DU 078-2009(CP) - 1-2009-DU-GR-LL-GRI-GE

PERFIL LONGITUDINAL
CONOC VIZCARRA PLAYA N°04
Km. 121+240

ESCALA: INDICADA
FECHA: DICIEMBRE 2015
SU-CANT-03-2/5

SECCIONES TRANSVERSALES

ESC: 1/1000



LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -

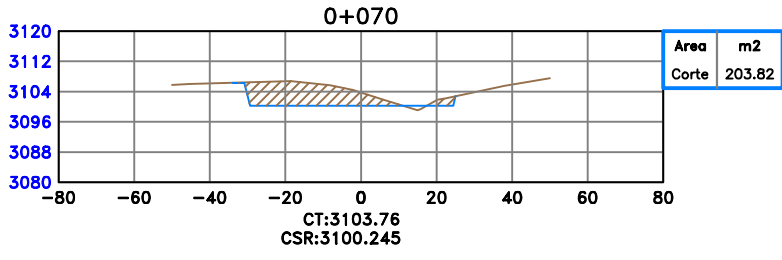
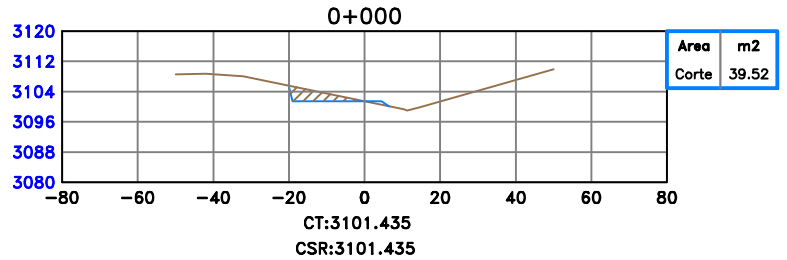
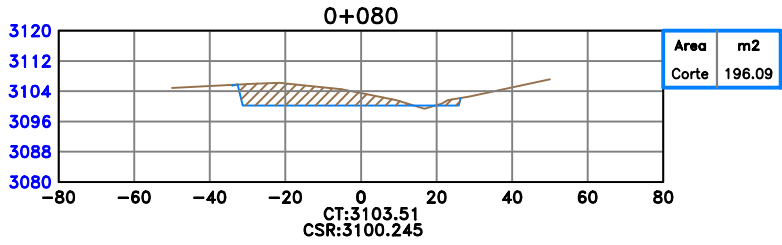
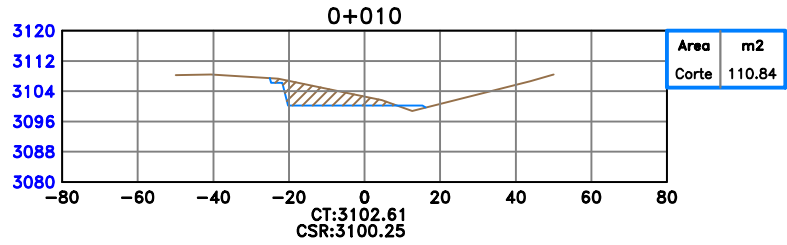
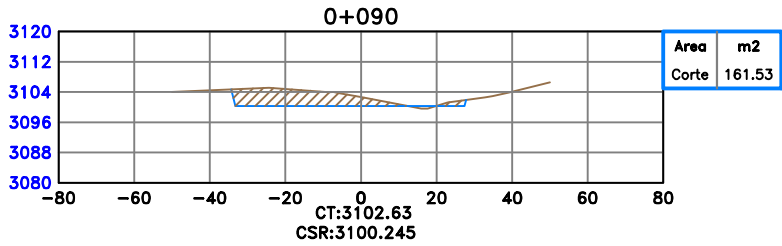
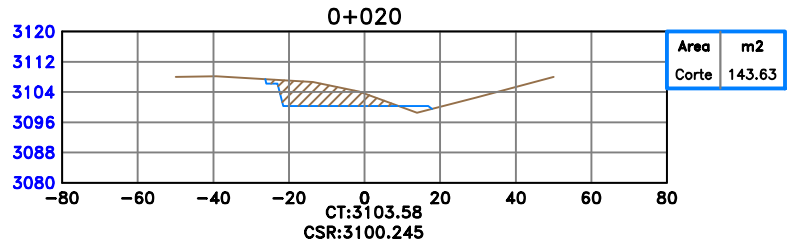
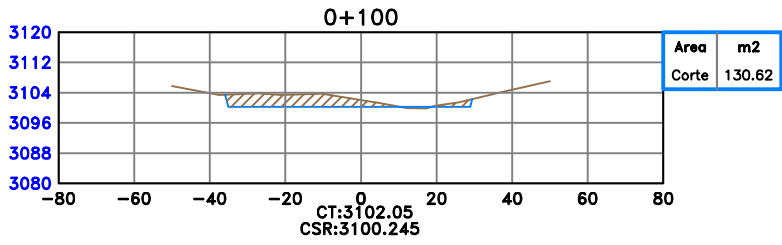
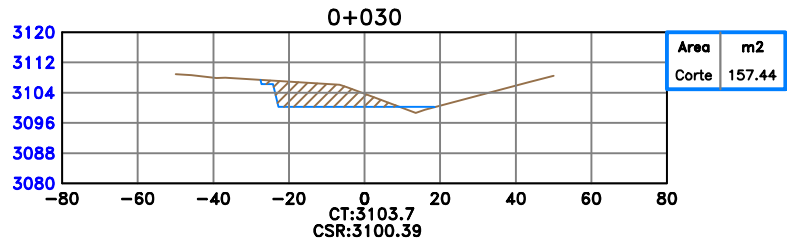
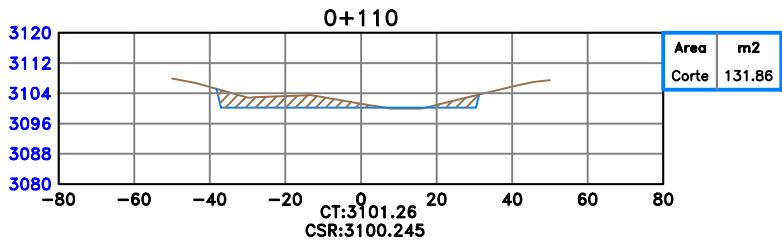
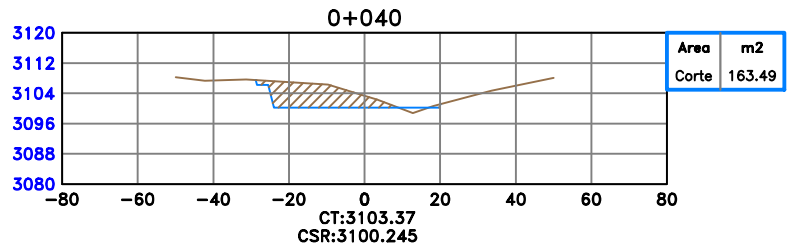
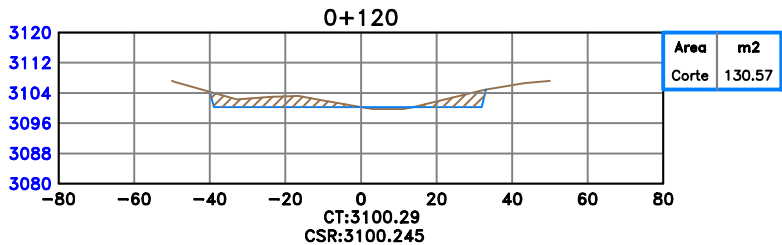
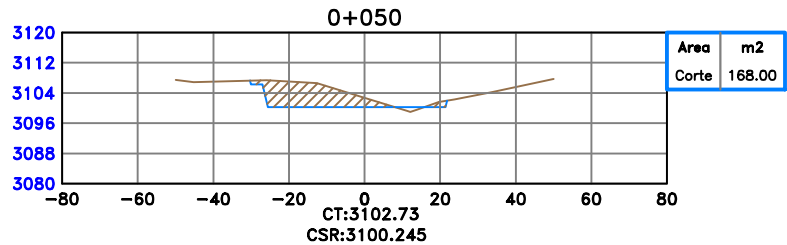
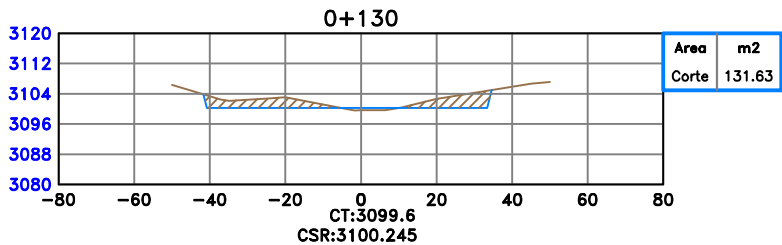
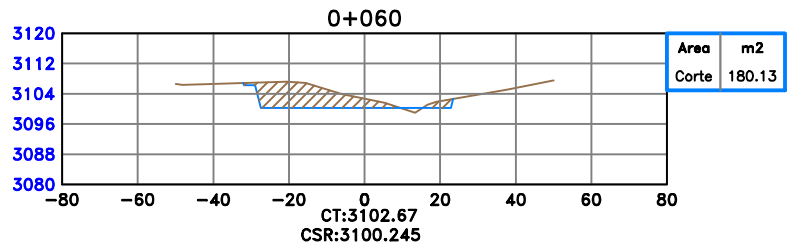
NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

REVISIONES		
N°	FECHA	DESCRIPCION

SECCIONES TRANSVERSALES

ESC: 1/1000



LEYENDA

Plataforma de Terreno
Terreno natural

NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

CONSULTOR:

DISEÑO:

DIBUJO:

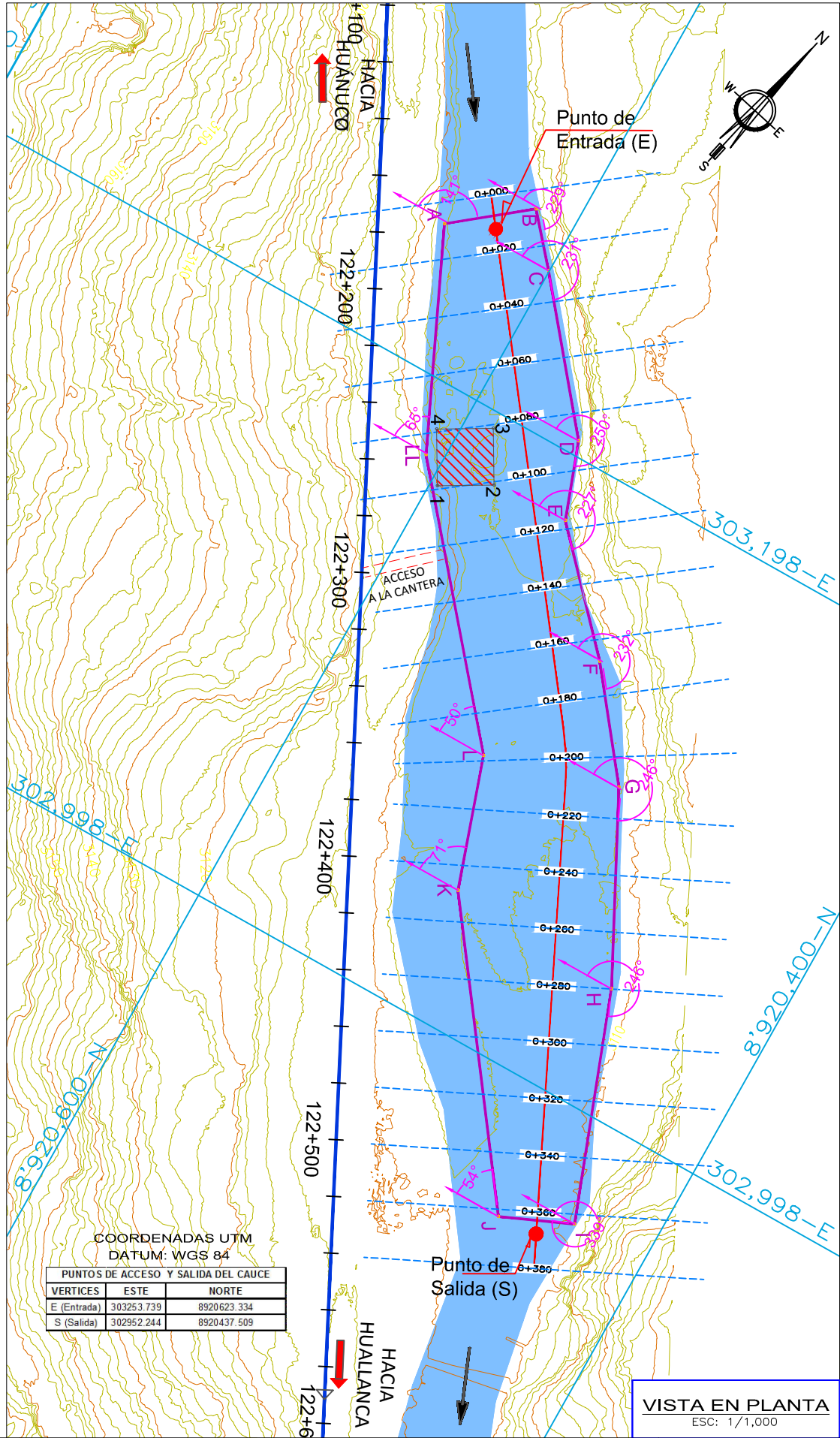
VERIFICÓ:

PRESENTÓ:

APROBO :

REVISIONES

N°	FECHA	DESCRIPCION



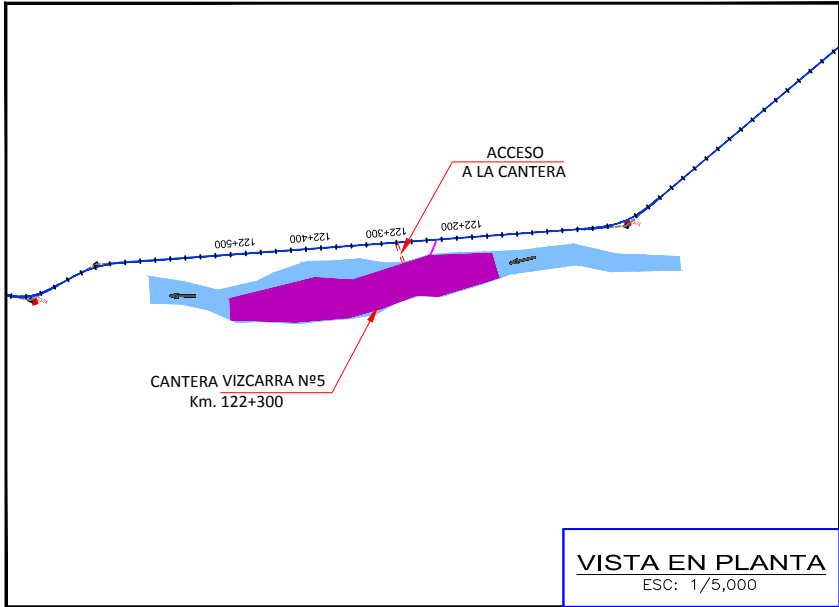
CANTERA CONOC VIZCARRA PLAYA N°2	
Progresiva	Km 122+300
Area Explotar	19 995.11 m ²
	1.9995 ha
Perímetro	775.58 ml
Potencia	64520.71 m ³
Lado	IZQUIERDO
Acceso	40 m. por habilitar

COORDENADAS UTM-WGS 84 ACCESO A LA CANTERA		
VERTICES	ESTE	NORTE
A'	303125.794	8920601.749
B'	303143.354	8920582.441

COORDENADAS UTM (POLIGONAL) DATUM: WGS 84					
CUADRO DE ZONA DE ACOPIO					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
1	1 - 2	20.00	90°0'0"	303164.824	8920597.057
2	2 - 3	20.00	90°0'0"	303174.847	8920579.749
3	3 - 4	20.00	90°0'0"	303192.154	8920589.772
4	4 - 1	20.00	90°0'0"	303182.131	8920607.080

LEYENDA	
Eje de Carretera Projectado	—
Perímetro de Cantera	—
Eje de Cantera	—
Acceso a la Cantera	---
Curvas Primarias	—
Curvas Secundarias	—
Puntos de entrada y salida del cauce	●
Azímüt	↻

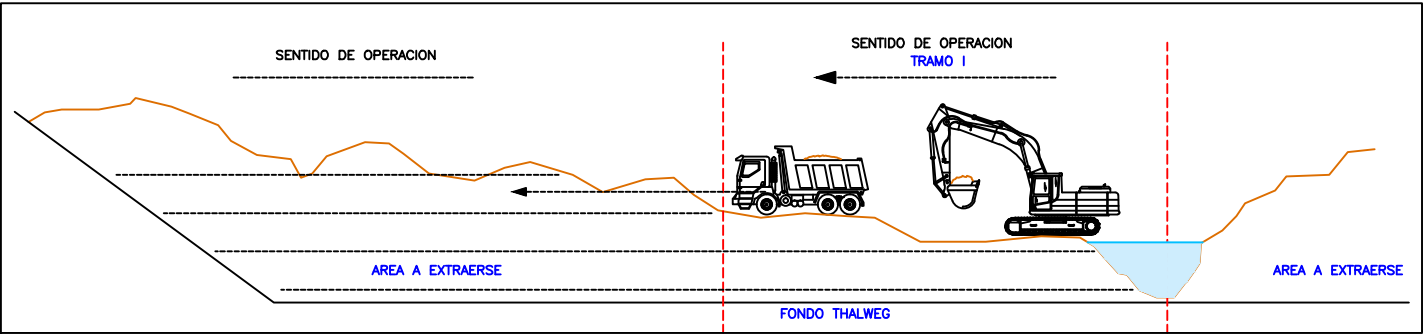
UBICACIÓN



COORDENADAS UTM (POLIGONAL) DATUM: WGS 84

COORDENADAS UTM (POLIGONAL) DATUM: WGS 84

CUADRO DE CANTERA					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A - B	32.65	256°12'49"	303246.537	8920640.046
B	B - C	22.19	267°43'36"	303266.885	8920614.506
C	C - D	60.90	181°29'7"	303250.090	8920600.000
D	D - E	28.36	199°22'58"	303202.987	8920561.401
E	E - F	51.04	156°52'11"	303176.328	8920551.725
F	F - G	44.93	185°1'43"	303139.048	8920516.862
G	G - H	71.09	190°50'56"	303103.668	8920489.169
H	H - I	83.85	186°46'5"	303040.446	8920456.673
I	I - J	27.01	266°49'45"	302961.872	8920427.397
J	J - K	115.73	257°12'8"	302951.057	8920452.143
K	K - L	48.37	197°46'55"	303044.202	8920520.824
L	L - LL	107.87	158°26'3"	303090.039	8920536.269
LL	LL - A	81.59	195°25'44"	303172.445	8920605.876



NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

VISTA EN PLANTA ESC: 1/1,000

APROBO :

REVISIONES	
N°	FECHA

ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO-CONOCHOCHA, SECTOR HUÁNUCO-LA UNIÓN-HUALLANCA RUTA PE-3N
CONTRATO N°DU 078-2009(CP) - 1-2009-DU-GR-LL-GRI-CE

PLANO DE CANTERA
CONOC VIZCARRA PLAYA N°2
Km. 122+300

ESCALA:	INDICADA
FECHA:	DICIEMBRE 2015
SU-CANT-04-1/3	



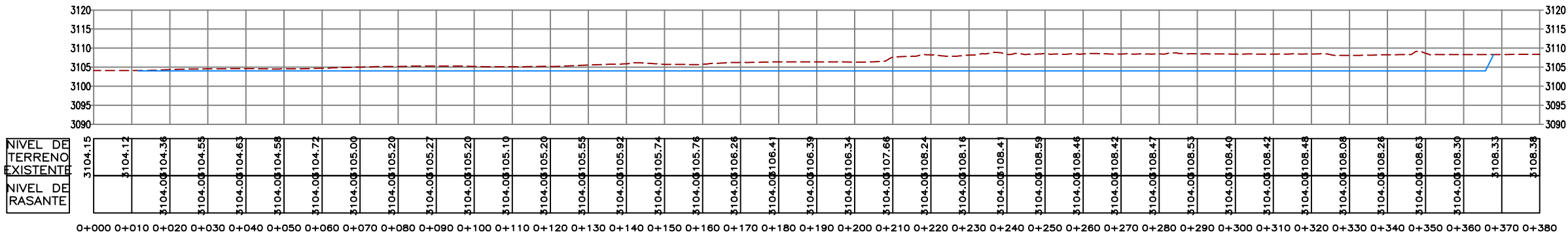
CONSULTOR:



DISEÑO:	
DIBUJO:	
VERIFICO:	
PRESENTO:	

PERFIL LONGITUDINAL

ESC: 1/650



NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



CONSULTOR:



DISEÑO:

DIBUJO:

VERIFICO:

PRESENTO:

APROBO :

REVISIONES

N°	FECHA	DESCRIPCION

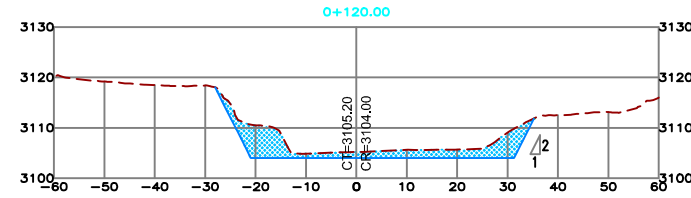
ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO-CONOCOCHA, SECTOR HUÁNUCO-LA UNIÓN-HUALLANCA RUTA PE-3N
CONTRATO N°DU 078-2009(CP) - 1-2009-DU-GR-LL-GRI-CE

PLANO DE CANTERA
RIO VIZCARRA AGUAS ABAJO N°05
Km. 122+300

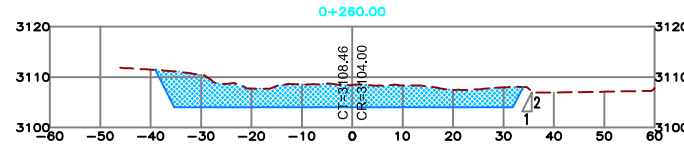
ESCALA: INDICADA
FECHA: DICIEMBRE 2015
SU-CANT-04-2/3

SECCIONES TRANSVERSALES

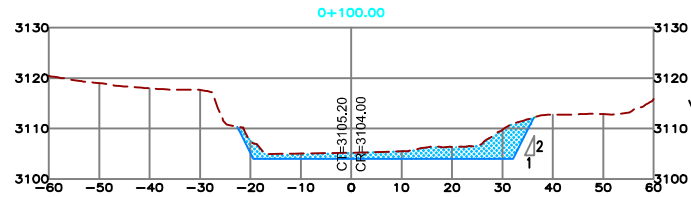
ESC: 1/750



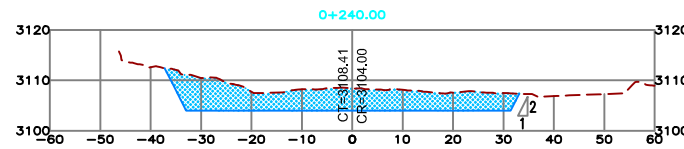
Area Corte = 149.88m²
Vol Corte = 2743.14m³
Vol Corte Acumulado 8982.39m³



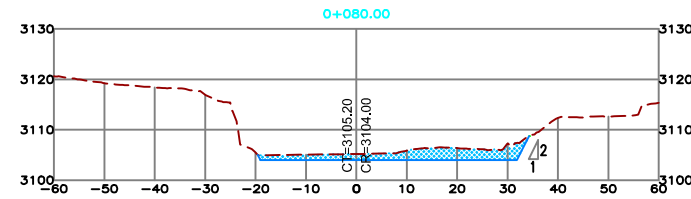
Area Corte = 318.08m²
Vol Corte = 6147.59m³
Vol Corte Acumulado 15129.98m³



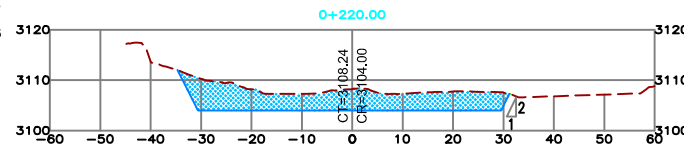
Area Corte = 124.44m²
Vol Corte = 2133.12m³
Vol Corte Acumulado 11123.05m³



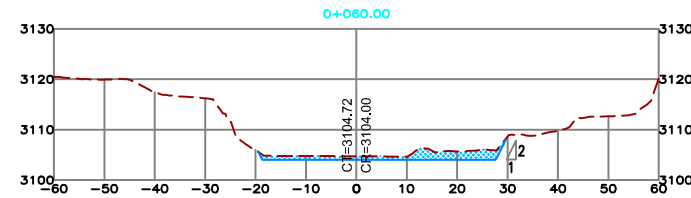
Area Corte = 296.67m²
Vol Corte = 5487.84m³
Vol Corte Acumulado 20611.89m³



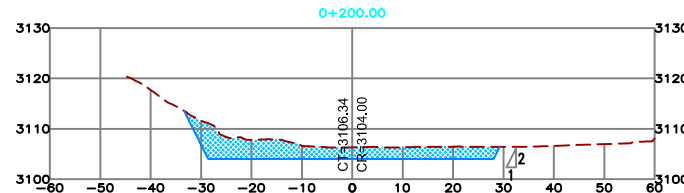
Area Corte = 88.88m²
Vol Corte = 1444.28m³
Vol Corte Acumulado 22056.17m³



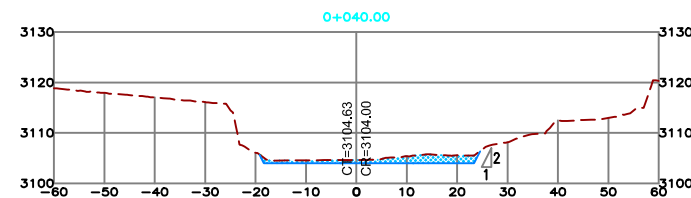
Area Corte = 252.11m²
Vol Corte = 4493.47m³
Vol Corte Acumulado 27149.66m³



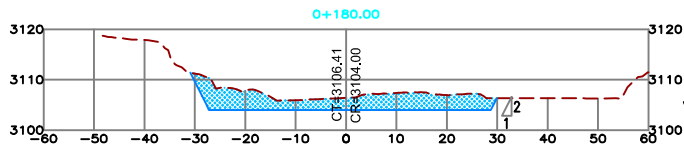
Area Corte = 55.55m²
Vol Corte = 974.83m³
Vol Corte Acumulado 28124.50m³



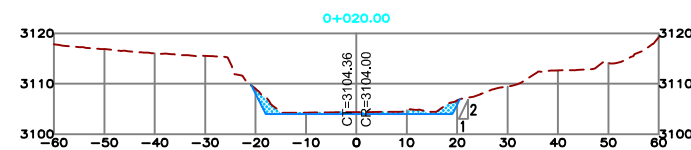
Area Corte = 187.16m²
Vol Corte = 3788.29m³
Vol Corte Acumulado 31912.85m³



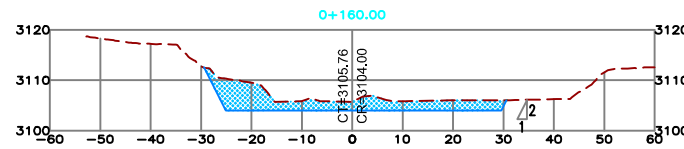
Area Corte = 41.93m²
Vol Corte = 703.17m³
Vol Corte Acumulado 31616.02m³



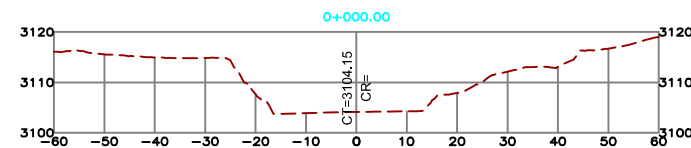
Area Corte = 183.81m²
Vol Corte = 3384.06m³
Vol Corte Acumulado 35299.91m³



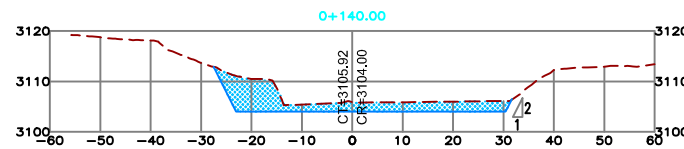
Area Corte = 28.38m²
Vol Corte = 283.84m³
Vol Corte Acumulado 35583.75m³



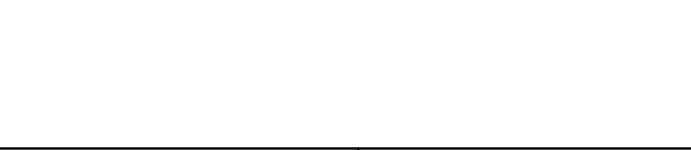
Area Corte = 154.60m²
Vol Corte = 3091.12m³
Vol Corte Acumulado 38674.87m³



Area Corte = 0.00m²
Vol Corte = 0.00m³
Vol Corte Acumulado 38674.87m³



Area Corte = 154.51m²
Vol Corte = 3043.90m³
Vol Corte Acumulado 41718.77m³



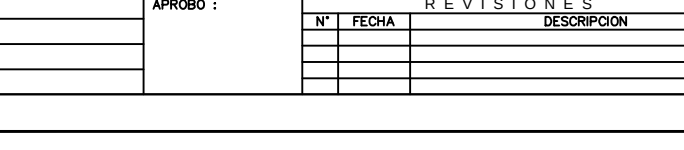
Area Corte = 323.54m²
Vol Corte = 6416.22m³
Vol Corte Acumulado 48135.00m³



Area Corte = 300.48m²
Vol Corte = 6240.22m³
Vol Corte Acumulado 54375.22m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 58624.43m³



Area Corte = 132.12m²
Vol Corte = 3165.21m³
Vol Corte Acumulado 61789.64m³



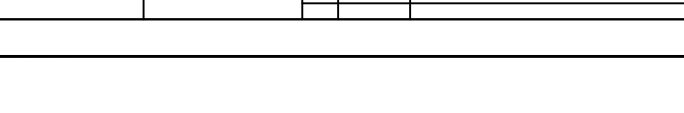
Area Corte = 0.00m²
Vol Corte = 1321.17m³
Vol Corte Acumulado 63110.81m³



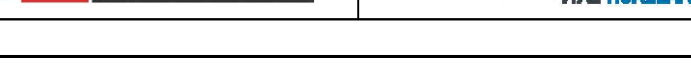
Area Corte = 0.00m²
Vol Corte = 1321.17m³
Vol Corte Acumulado 64431.98m³



Area Corte = 132.12m²
Vol Corte = 3165.21m³
Vol Corte Acumulado 67277.19m³



Area Corte = 0.00m²
Vol Corte = 1321.17m³
Vol Corte Acumulado 68598.36m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 72847.57m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 77096.78m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 81346.00m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 85595.21m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 89844.42m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 94093.63m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 98342.84m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 102592.05m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 106841.26m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 111090.47m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 115339.68m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 119588.89m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 123838.10m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 128087.31m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 132336.52m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 136585.73m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 140834.94m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 145084.15m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 149333.36m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 153582.57m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 157831.78m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 162080.99m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 166330.20m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 170579.41m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 174828.62m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 179077.83m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 183327.04m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 187576.25m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 191825.46m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 196074.67m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 200323.88m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 204573.09m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 208822.30m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 213071.51m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 217320.72m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 221569.93m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 225819.14m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 230068.35m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 234317.56m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 238566.77m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 242815.98m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 247065.19m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 251314.40m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 255563.61m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 259812.82m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 264062.03m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 268311.24m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 272560.45m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 276809.66m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 281058.87m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 285308.08m³



Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 289557.29m³

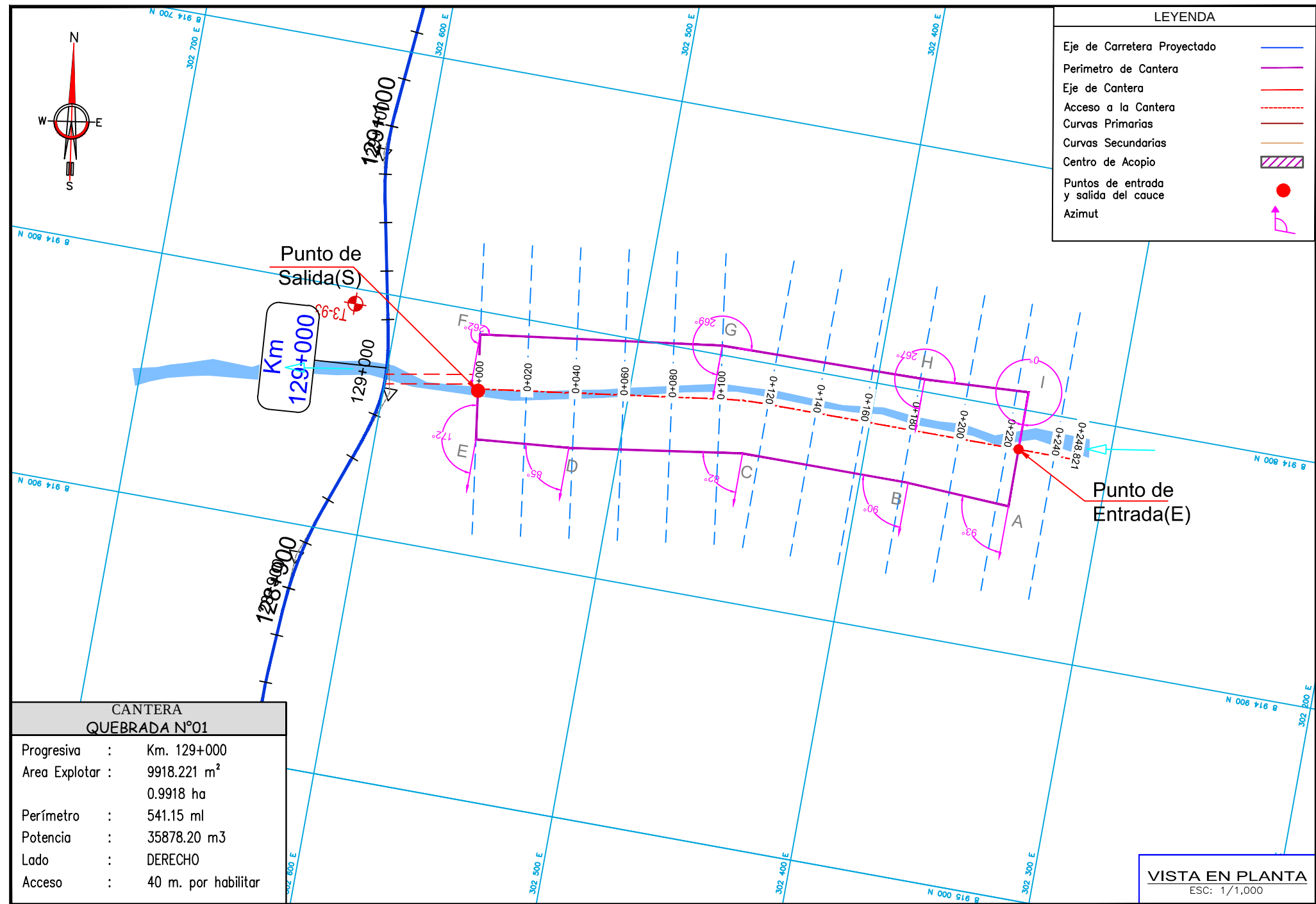


Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 293806.50m³

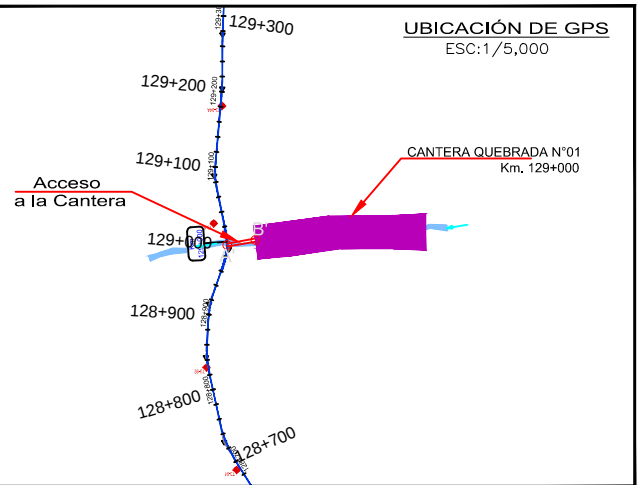


Area Corte = 184.40m²
Vol Corte = 4249.21m³
Vol Corte Acumulado 298055.71m³





UBICACIÓN



COORDENADAS UTM (POLIGONAL) / DATUM: WGS 84 CANTERA

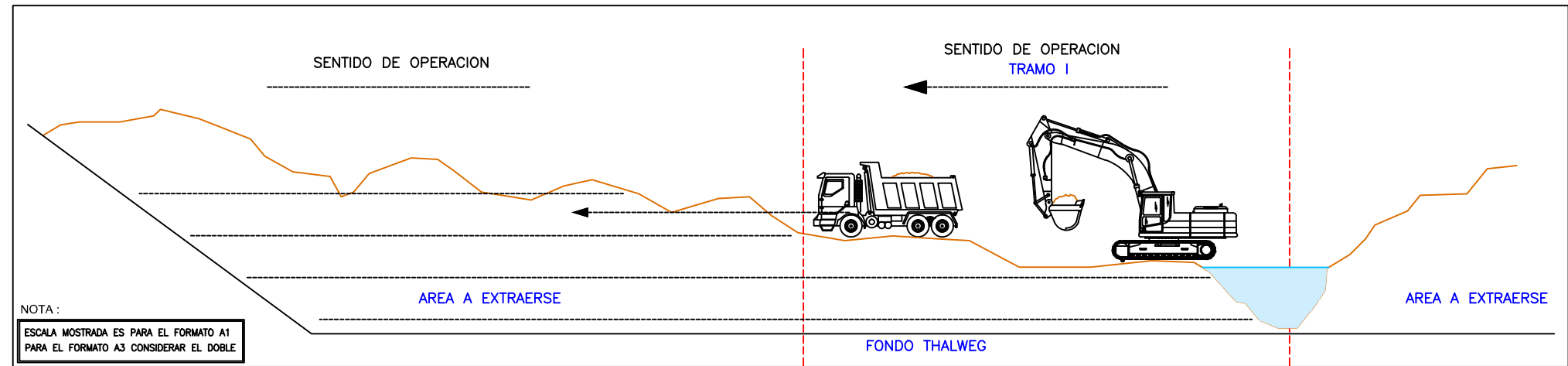
VERTICE	LADO	DIST.	ANGULO	ESTE (X)	NORTE (Y)
A	A - B	42.52	86°52'57"	302337.616	8914840.317
B	B - C	69.35	183°8'30"	302380.078	8914838.158
C	C - D	71.82	188°11'47"	302449.427	8914838.437
D	D - E	38.44	176°40'29"	302520.474	8914848.963
E	E - F	43.35	92°49'33"	302558.763	8914852.381
F	F - G	100.25	89°41'24"	302564.741	8914809.445
G	G - H	84.43	173°13'43"	302465.375	8914796.156
H	H - I	43.23	182°16'4"	302380.956	8914794.909
I	I - A	47.76	87°5'33"	302337.788	8914792.561

PUNTOS DE ACCESO Y SALIDA DEL CAUCE

VERTICES	ESTE	NORTE
E(ENTRADA)	302337.8898	8914810.214
S (SALIDAD)	302561.9101	8914833.274

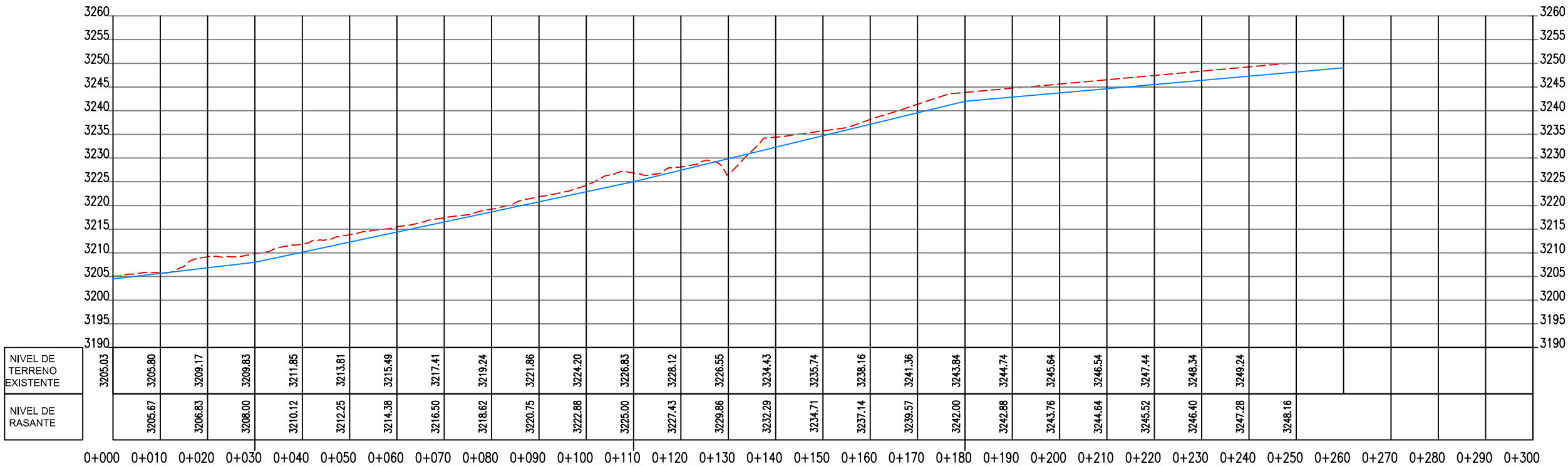
COORDENADAS UTM-WGS 84 ACCESO A LA CANTERA

VERTICES	NORTE	ESTE
A'	8914834.488	302599.772
B'	8914827.887	302562.664



N°	FECHA	DESCRIPCION

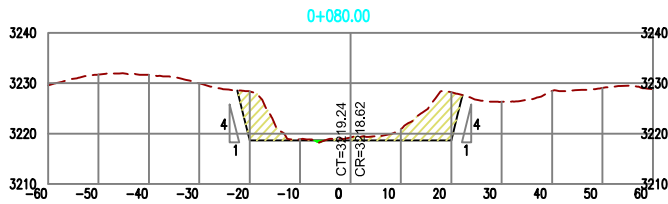
PERFIL LONGUITUDINAL
ESC: 1/500



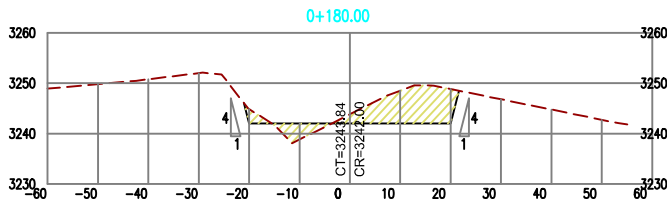
NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

LEYENDA	
Plataforma de Terreno	
Terreno natural	

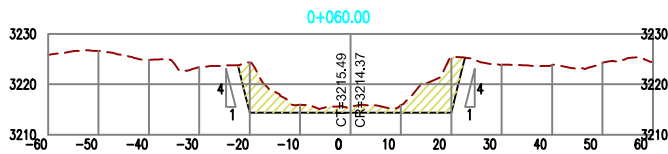
SECCIONES TRANSVERSALES
ESC: 1/750



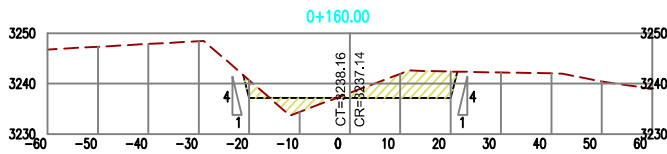
Area Corte = 141.13m²
Vol Corte = 2950.03m³
Vol Corte Acumulado = 11293.71m³



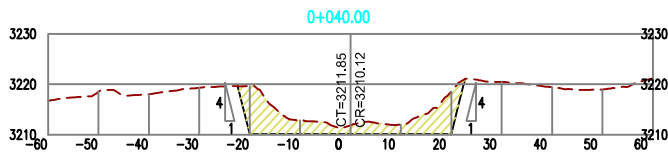
Area Corte = 132.63m²
Vol Corte = 2289.52m³
Vol Corte Acumulado = 24477.68m³



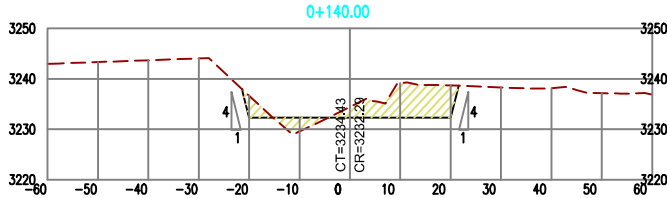
Area Corte = 153.87m²
Vol Corte = 3183.36m³
Vol Corte Acumulado = 8343.68m³



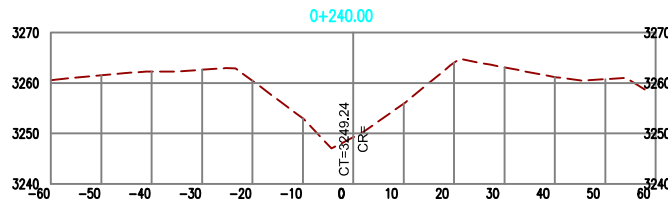
Area Corte = 96.32m²
Vol Corte = 2229.05m³
Vol Corte Acumulado = 22188.16m³



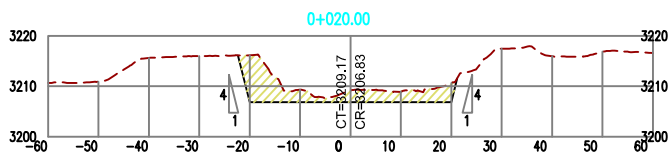
Area Corte = 164.46m²
Vol Corte = 2950.89m³
Vol Corte Acumulado = 5160.32m³



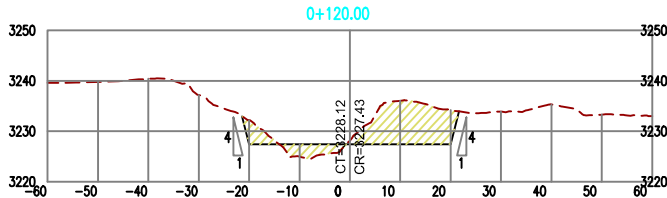
Area Corte = 126.58m²
Vol Corte = 2838.89m³
Vol Corte Acumulado = 19959.11m³



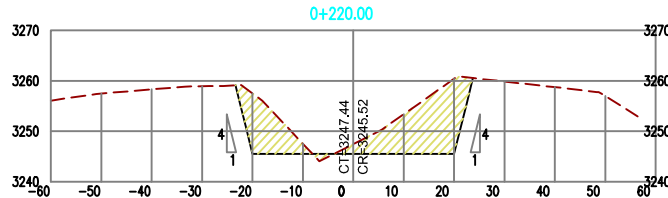
Area Corte = 0.00m²
Vol Corte = 2875.74m³
Vol Corte Acumulado = 35878.20m³



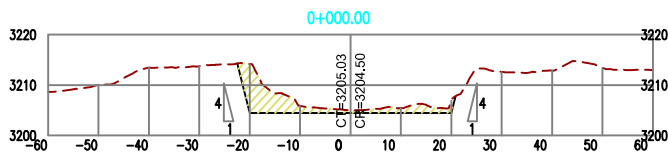
Area Corte = 130.63m²
Vol Corte = 2209.43m³
Vol Corte Acumulado = 2209.43m³



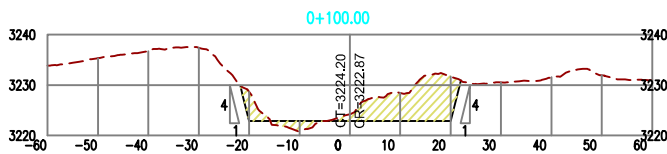
Area Corte = 157.31m²
Vol Corte = 2903.32m³
Vol Corte Acumulado = 17120.22m³



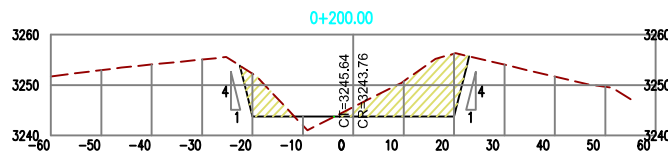
Area Corte = 287.57m²
Vol Corte = 5037.12m³
Vol Corte Acumulado = 33002.47m³



Area Corte = 90.32m²
Vol Corte = 0.00m³
Vol Corte Acumulado = 0.00m³

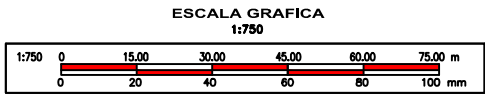


Area Corte = 151.19m²
Vol Corte = 2923.20m³
Vol Corte Acumulado = 14216.91m³



Area Corte = 216.14m²
Vol Corte = 3487.67m³
Vol Corte Acumulado = 27965.35m³

LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -



Proyección: UTM 18S
Datum: WGS84

NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



CONSULTOR:



DISEÑO:
DIBUJO:
VERIFICADO:
PRESENTO:

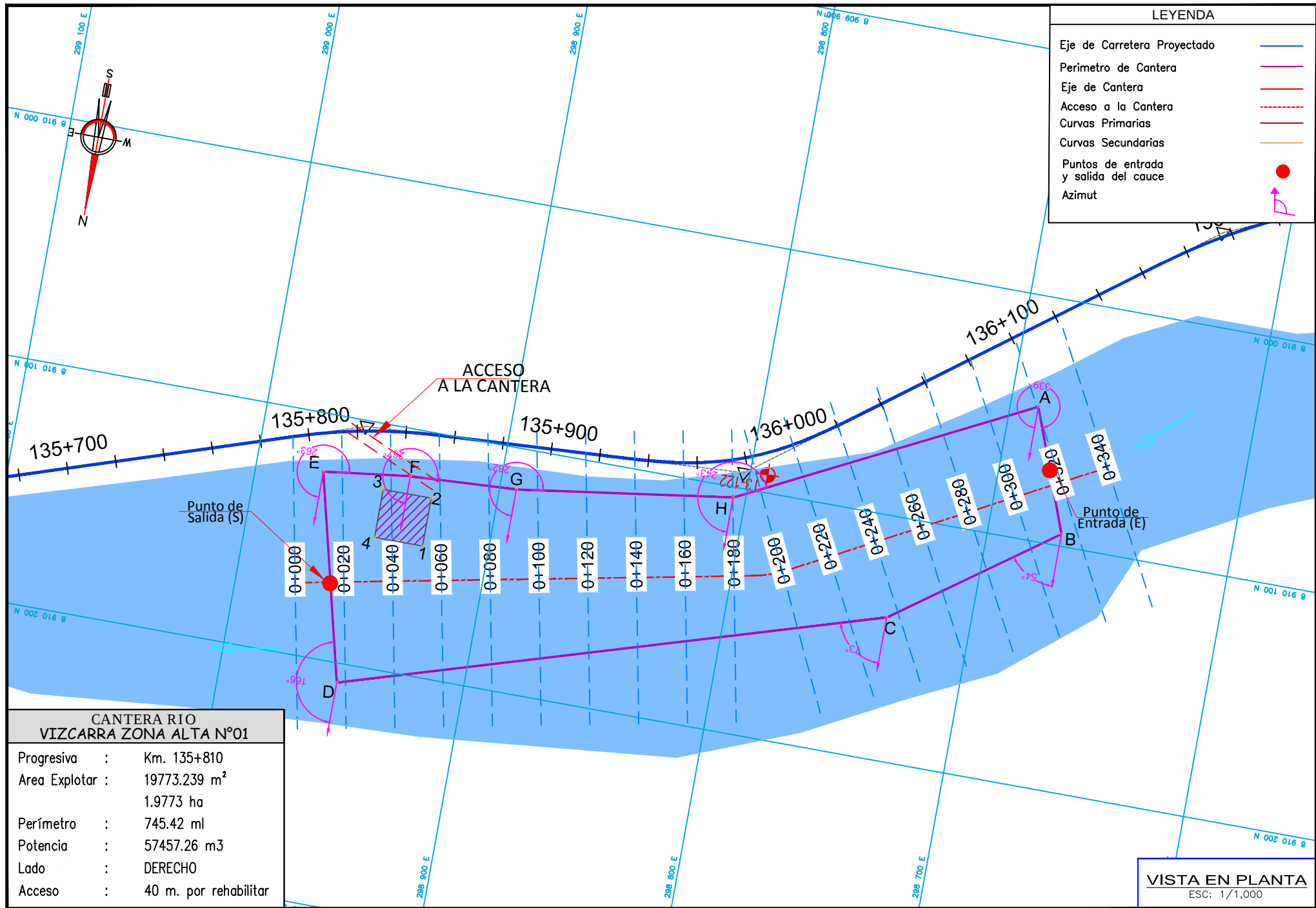
APROBO :

REVISIONES		
N°	FECHA	DESCRIPCION

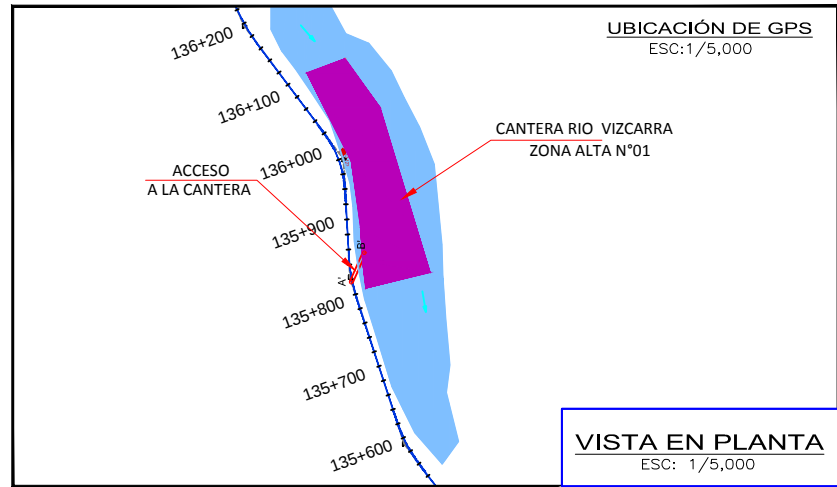
ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO-CONOCHCA, SECTOR HUÁNUCO-LA UNIÓN-HUALLANCA RUTA PE-3N
CONTRATO N°DU 078-2009(CP) - 1-2009-DU-GR-LL-GRI-CE

SECCIONES TRANSVERSALES
QUEBRADA N°01
Km. 129+000

ESCALA: INDICADA
FECHA: DICIEMBRE 2015
SU-CANT-06-3/3



UBICACIÓN



COORDENADAS UTM (POLIGONAL)
DATUM: WGS 84

CUADRO DE CANTERA					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A - B	53.06	83°43'26"	298688.536	8910045.338
B	B - C	79.36	105°12'36"	298669.925	8910095.031
C	C - D	227.14	161°18'36"	298734.342	8910141.390
D	D - E	86.75	86°51'15"	298951.499	8910207.995
E	E - F	35.70	83°16'52"	298972.346	8910123.791
F	F - G	43.83	175°58'40"	298936.931	8910119.325
G	G - H	88.98	185°11'16"	298893.171	8910116.906
H	H - A	130.60	198°37'18"	298805.098	8910104.236

COORDENADAS ZONA DE ACOPIO

VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A - B	20.00	90°0'0"	298926.863	8910146.632
B	B - C	20.00	90°0'0"	298926.863	8910126.632
C	C - D	20.00	90°0'0"	298946.863	8910126.632
D	D - A	20.00	90°0'0"	298946.863	8910146.632

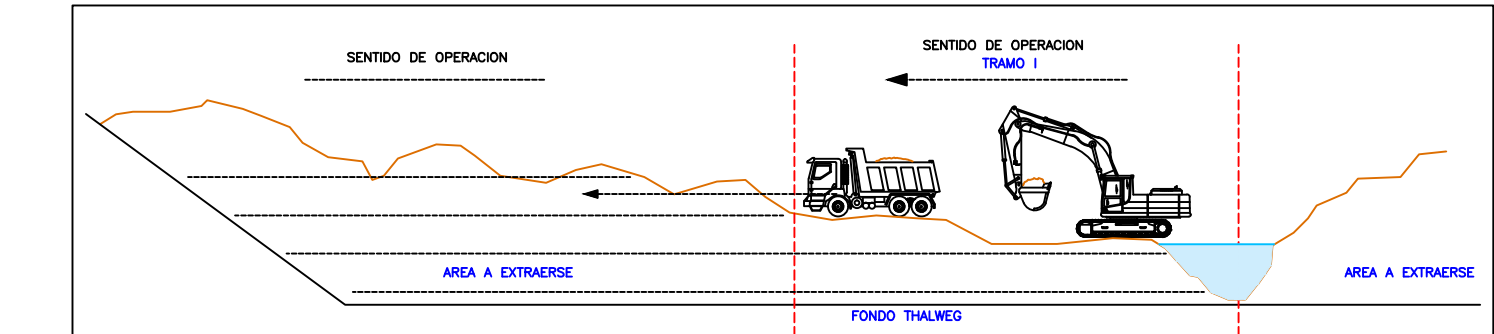
COORDENADAS UTM-WGS 84
ACCESO A LA CANTERA

VERTICES	NORTE	ESTE
A'	8910104.173	298965.173
B'	8910121.391	298926.093

PUNTOS DE ACCESO Y SALIDA DEL CAUCE		
VERTICES	NORTE	ESTE
E (Entrada)	8910070.604	298675.7738
S (Salida)	8910169.311	298962.423

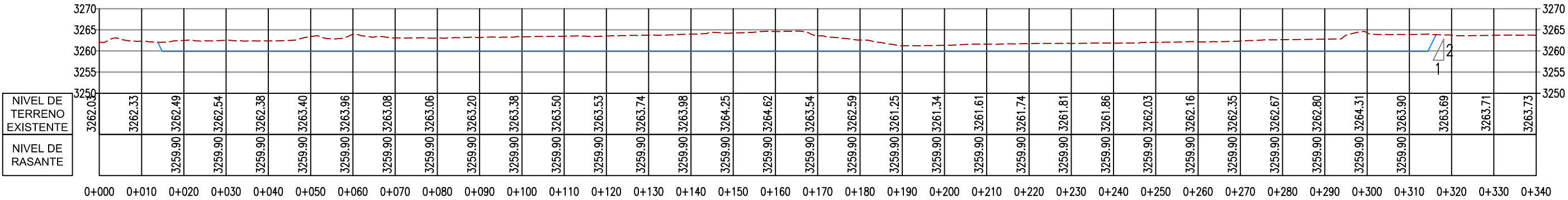
NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



PERFIL LONGITUDINAL

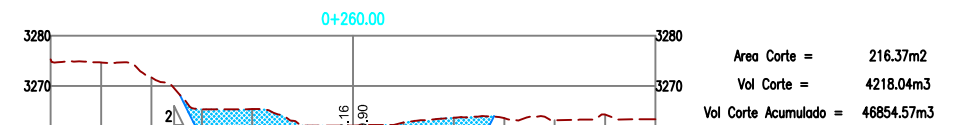
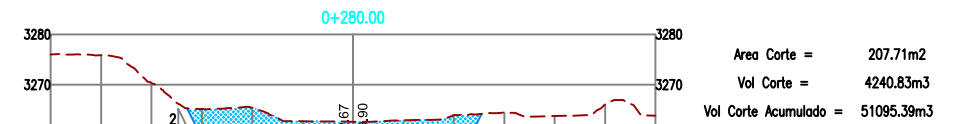
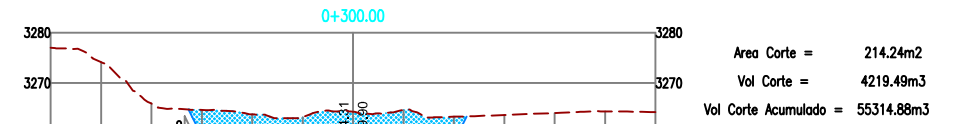
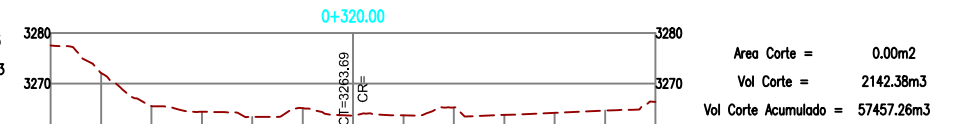
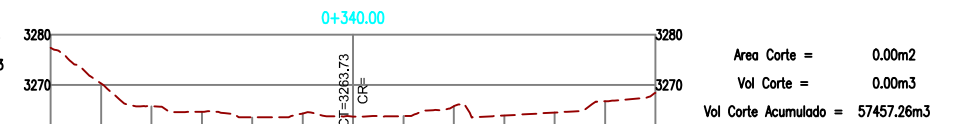
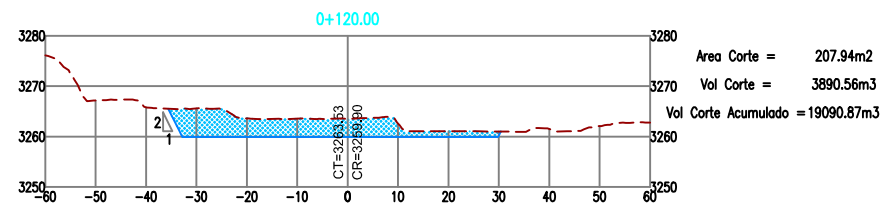
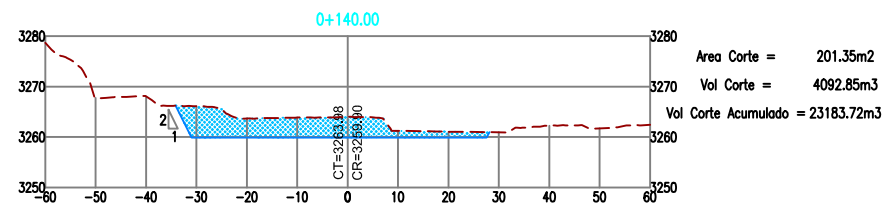
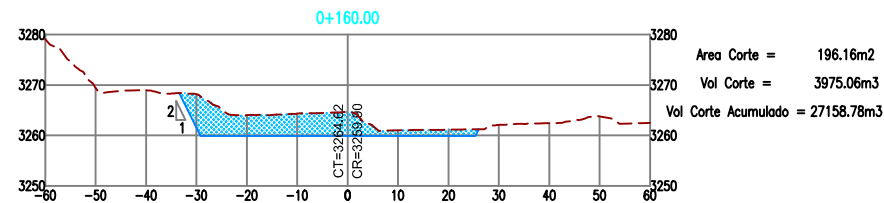
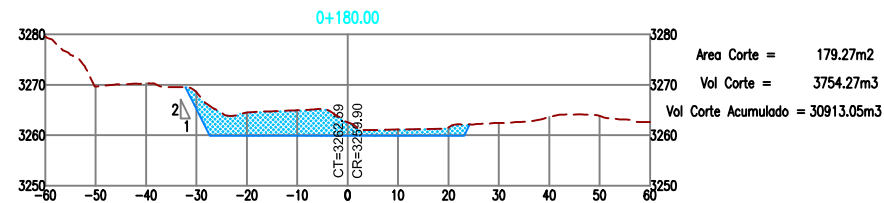
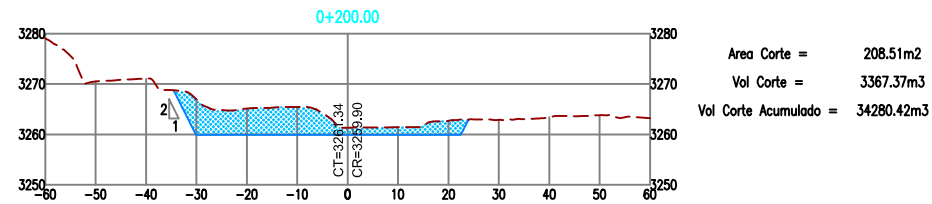
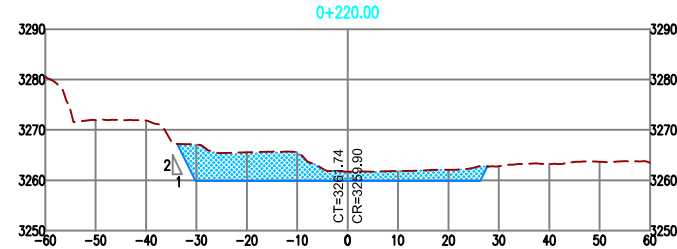
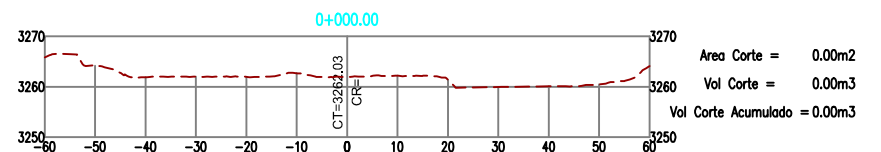
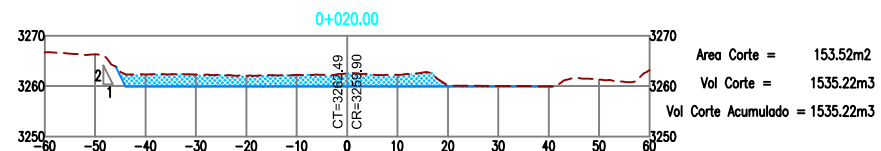
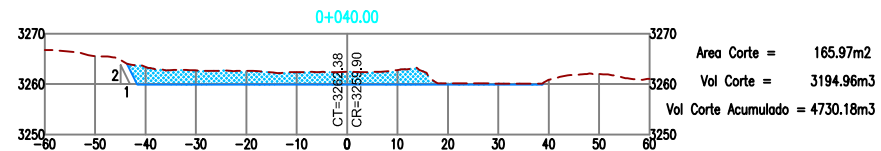
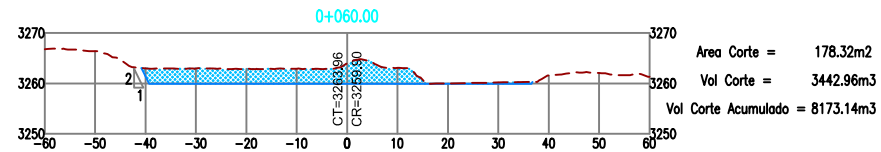
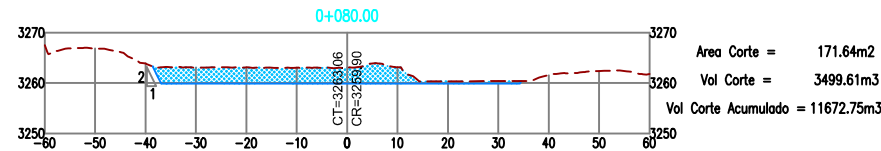
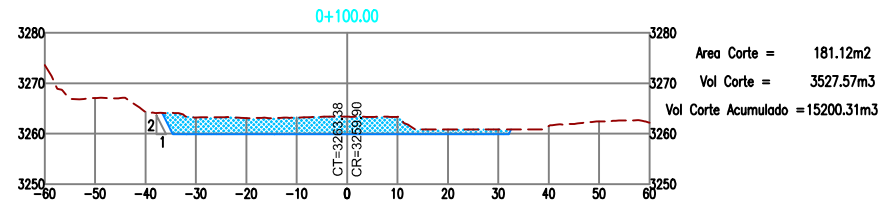
ESC: 1/500



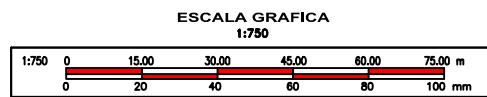
NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

SECCIONES TRANSVERSALES

ESC: 1/750



LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -



Proyección: UTM 18S
Datum: WGS84

NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



DISEÑO:
DIBUJO:
VERIFICO:
PRESENTO:

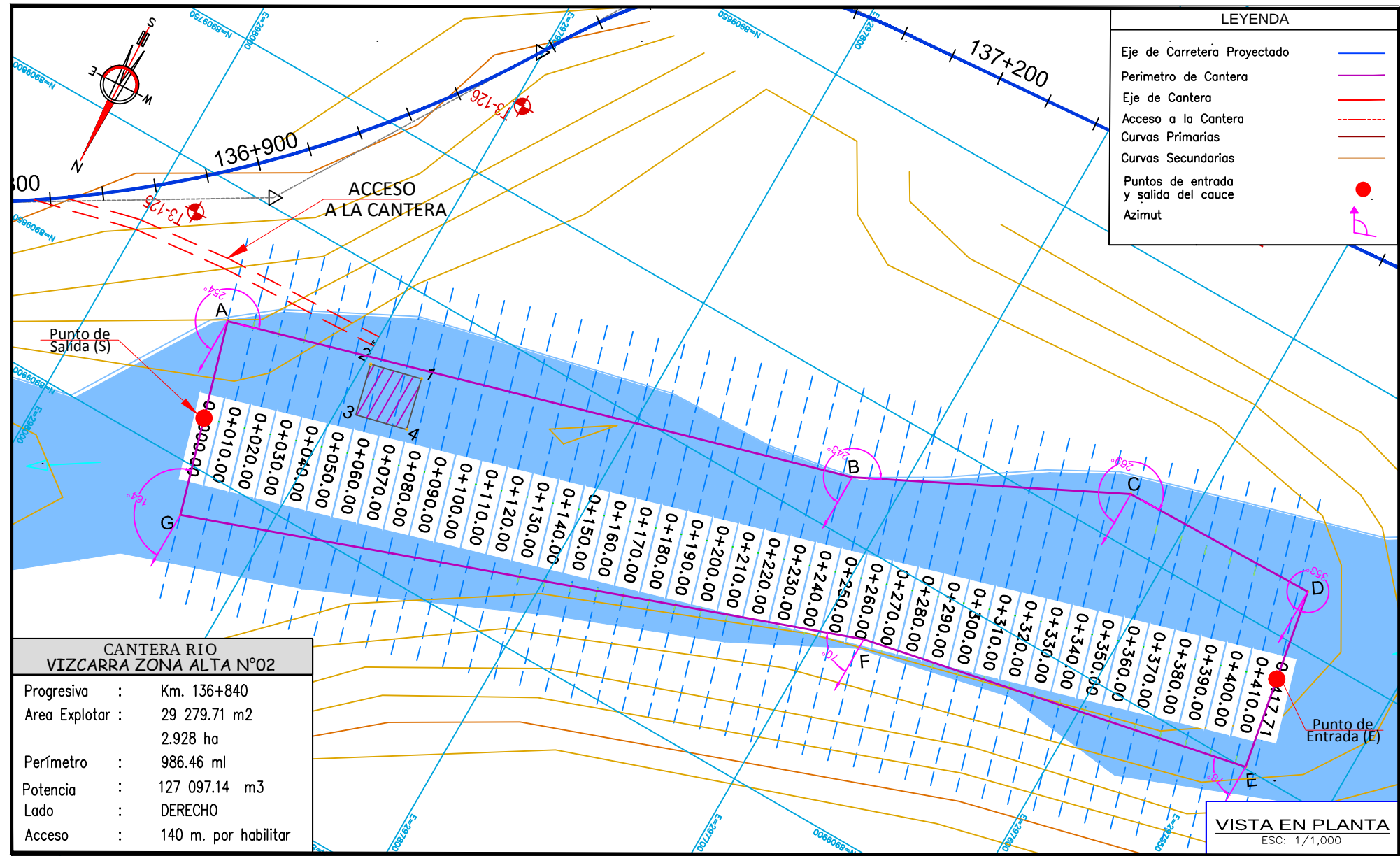
APROBO :

REVISIONES		
N°	FECHA	DESCRIPCION

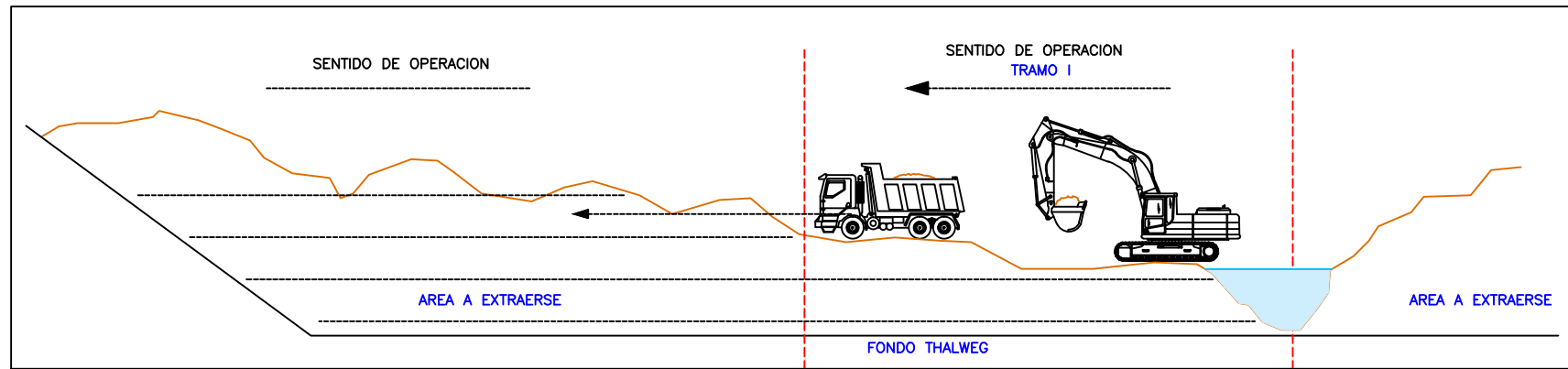
ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO—CONOCCOCHA, SECTOR HUÁNUCO—LA UNIÓN—HUALLANCA RUTA PE-3N
CONTRATO N°DU 078—2009(CP) — 1—2009—DU—GR—LL—GRI—GE

SECCIONES TRANSVERSALES
RIO VIZCARRA ZONA ALTA N°01
Km. 135+810

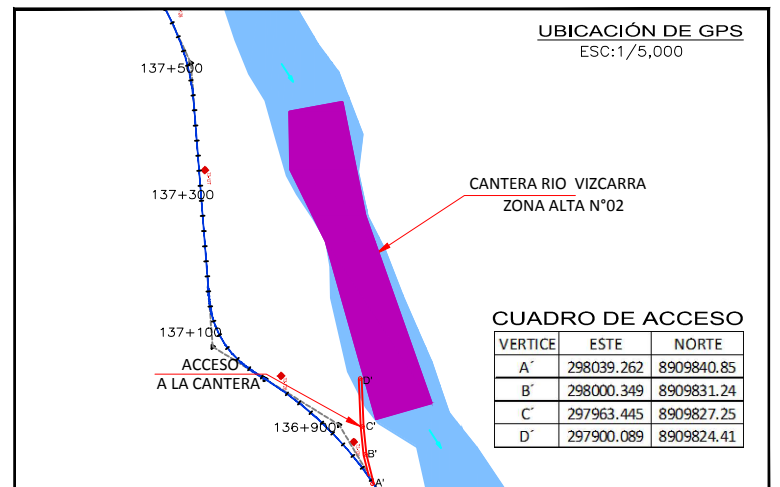
ESCALA: INDICADA
FECHA: DICIEMBRE 2015
SU-CANT-09-3/3



ESC: 1/1000



UBICACIÓN



COORDENADAS UTM (POLIGONAL)
DATUM: WGS 84

CANTERA					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A - B	243.55	89°42'55"	297952.589	8909846.005
B	B - C	105.66	190°32'36"	297718.462	8909778.897
C	C - D	76.45	154°37'10"	297623.939	8909731.693
D	D - E	70.38	99°14'25"	297547.503	8909730.149
E	E - F	152.23	91°8'7"	297534.802	8909799.375
F	F - G	262.87	188°8'31"	297683.954	8909829.807
G	G - A	75.32	86°36'17"	297931.476	8909918.306

COORDENADAS ZONA DE ACOPIO

VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
1	1 - 2	20.00	90°0'0"	297878.213	8909828.165
2	2 - 3	20.00	90°0'0"	297897.629	8909832.961
3	3 - 4	20.00	90°0'0"	297892.833	8909852.378
4	4 - 1	20.00	90°0'0"	297873.417	8909847.582

COORDENADAS UTM-WGS 84 ACCESO A LA CANTERA		
VERTICES	NORTE	ESTE
A'	8909840.850	298039.262
B'	8909831.241	298000.349
C'	8909827.248	297963.445
D'	8909824.411	297900.089

PUNTOS DE ACCESO Y SALIDA DEL CAUCE		
VERTICES	ESTE	NORTE
E (Entrada)	297541.1528	8909764.762
S (Salida)	297942.0803	8909882.17

NOTA:

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



CONSULTOR:



DISEÑO:

DIBUJO:

VERIFICO:

PRESENTO:

APROBO:

REVISIONES

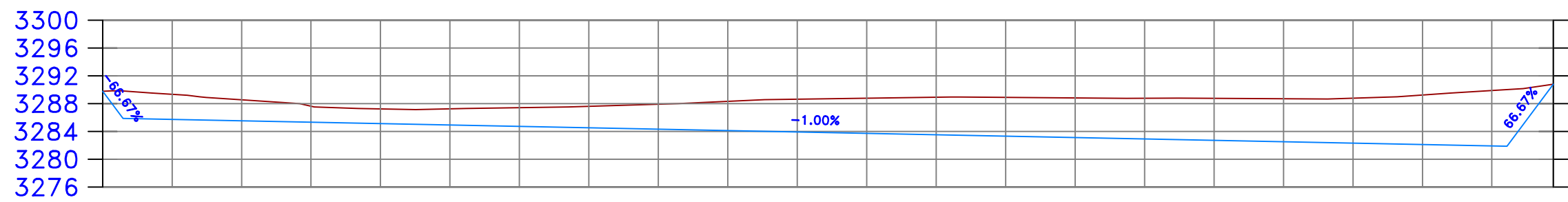
N°	FECHA	DESCRIPCION

ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO-CONOCOCHA, SECTOR HUÁNUCO-LA UNIÓN-HUALLANCA RUTA PE-3N
CONTRATO N°DU 078-2009(CP) - 1-2009-DU-GR-LL-GRI-CE

PLANO DE CANTERA
VIZCARRA ZONA ALTA N°02
Km. 136+840

ESCALA: INDICADA
FECHA: DICIEMBRE 2015
SU-CANT-10-1/6

PERFIL LONGITUDINAL
ESC: 1/750



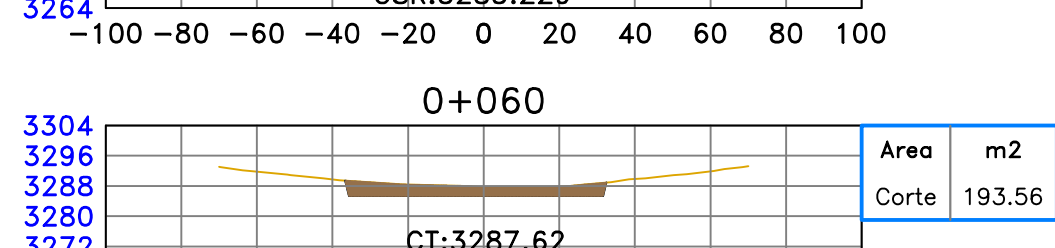
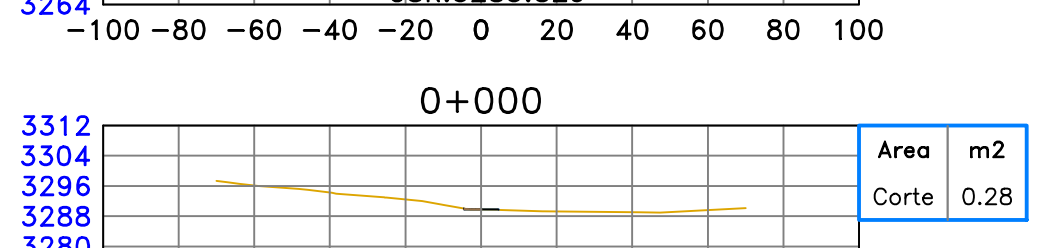
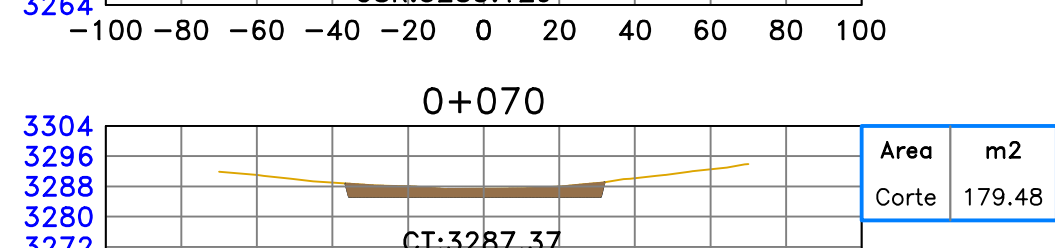
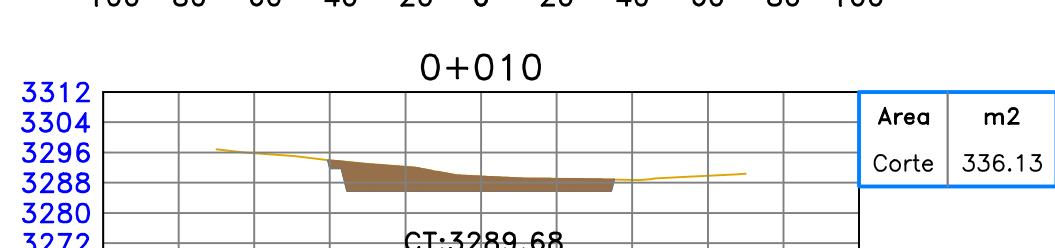
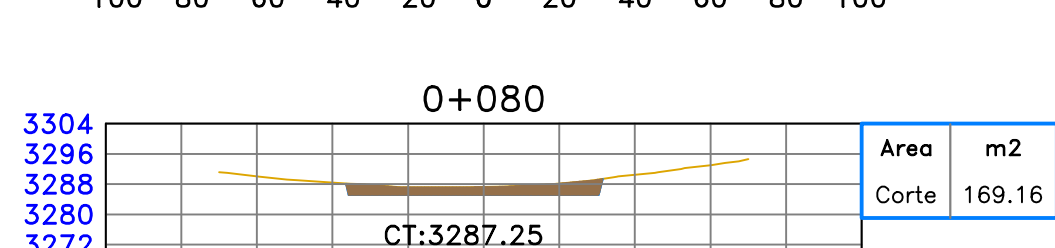
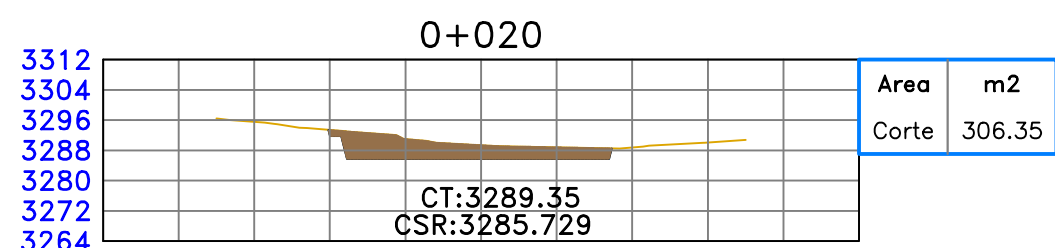
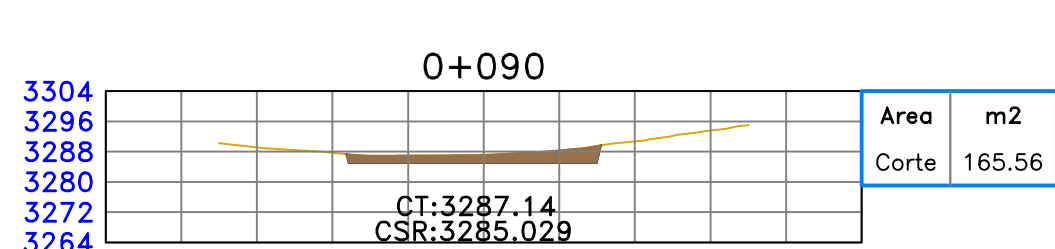
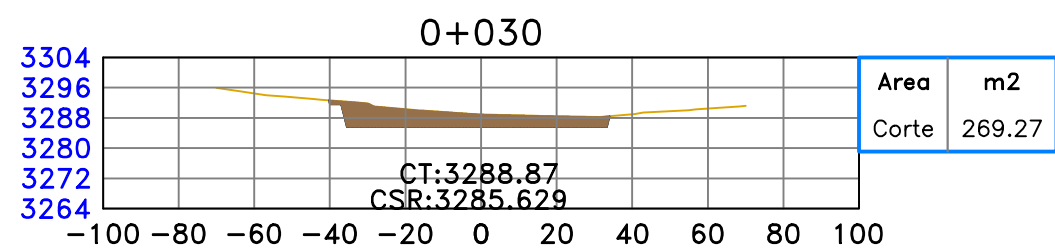
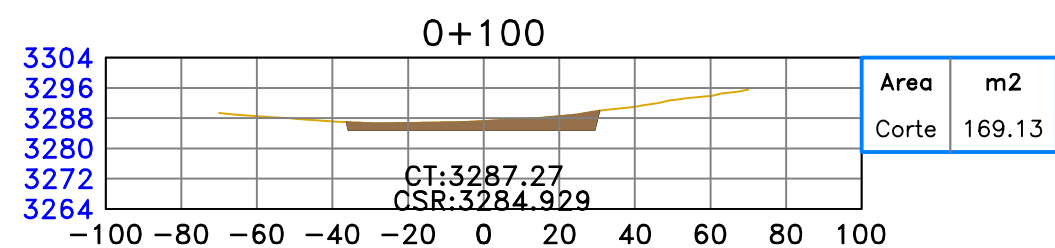
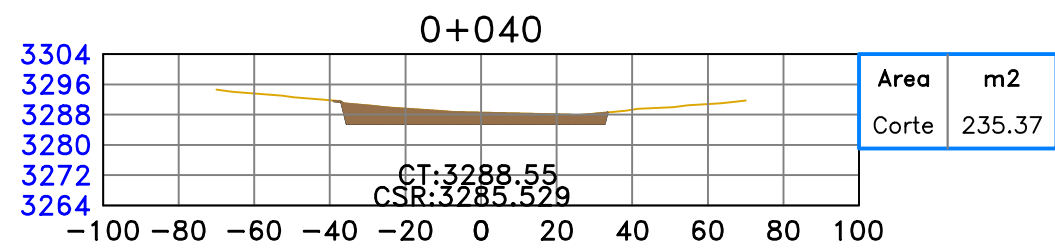
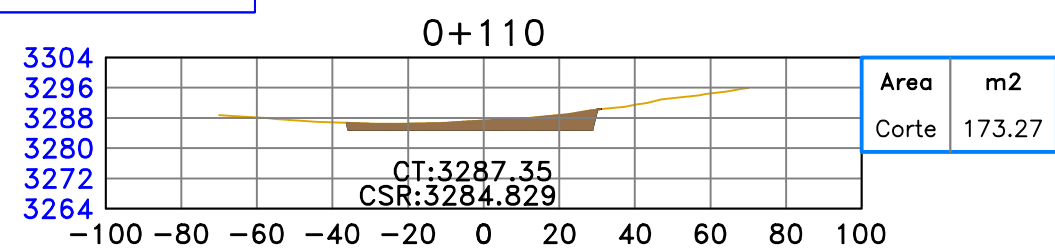
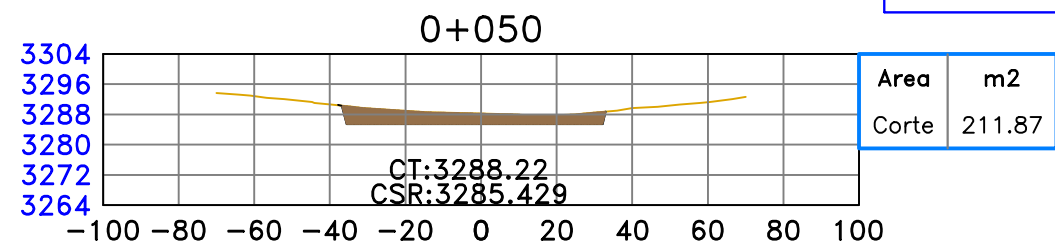
Cota Terreno
Cota Rasante
Progresivas

0+020	3289.35	3289.35
0+040	3288.55	3288.55
0+060	3287.62	3287.62
0+080	3287.25	3287.25
0+100	3287.27	3284.92
0+120	3287.42	3284.72
0+140	3287.61	3284.52
0+160	3287.91	3284.32
0+180	3288.33	3284.12
0+200	3288.64	3283.929
0+220	3288.79	3283.729
0+240	3288.93	3283.52
0+260	3288.91	3288.32
0+280	3288.83	3283.12
0+300	3288.78	3282.92
0+320	3288.78	3282.72
0+340	3288.72	3282.52
0+360	3288.80	3282.32
0+380	3289.24	3282.12
0+400	3289.89	3281.92

0+0200+0400+0600+0800+1000+1200+1400+1600+1800+2000+2200+2400+2600+2800+3000+3200+3400+3600+3800+400

NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

SECCIONES TRANSVERSALES
ESC: 1/1000

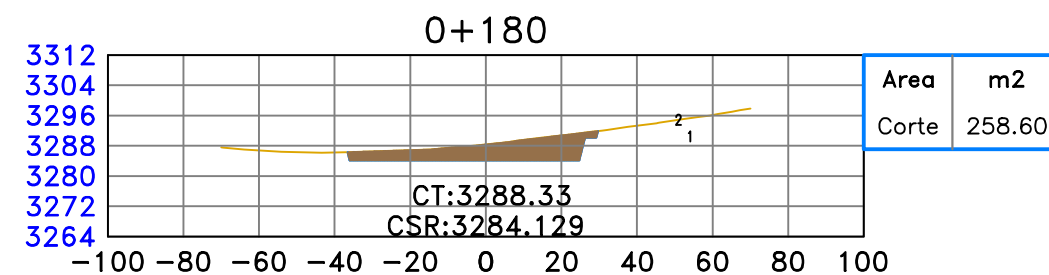
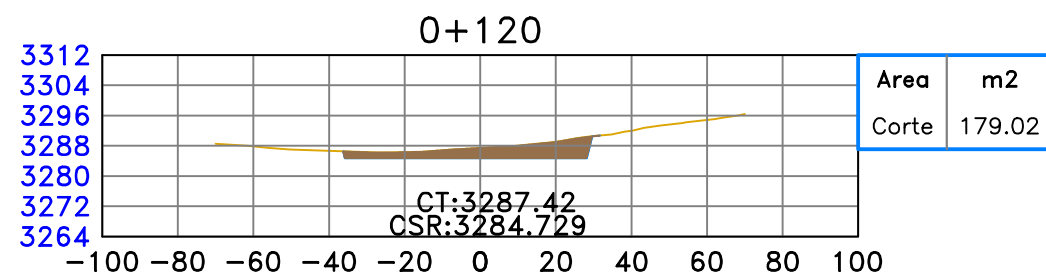
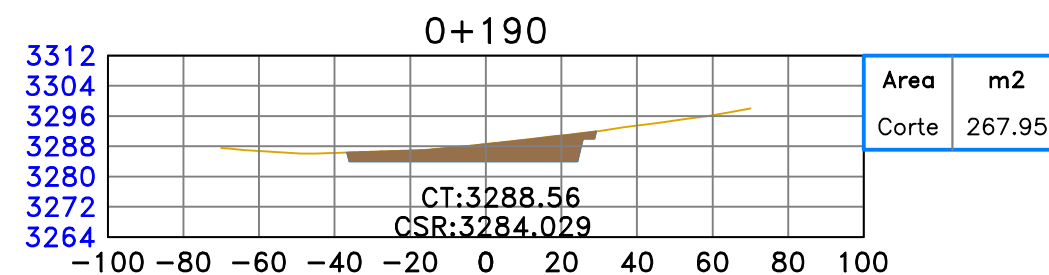
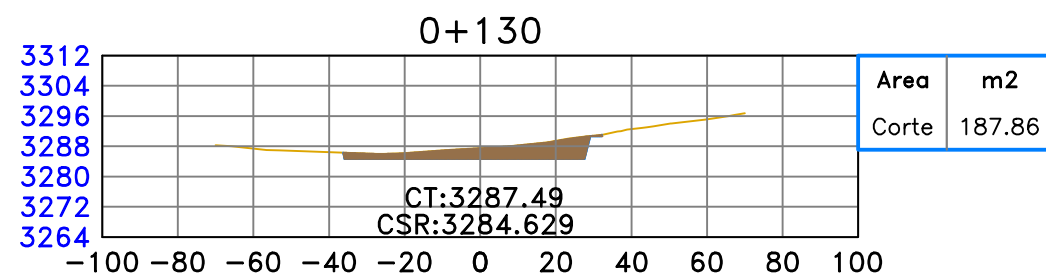
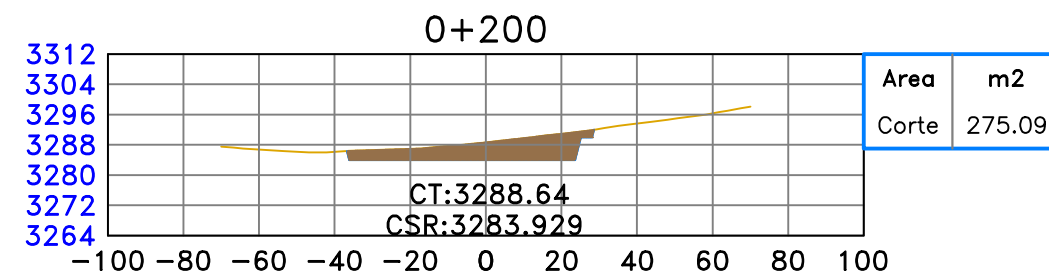
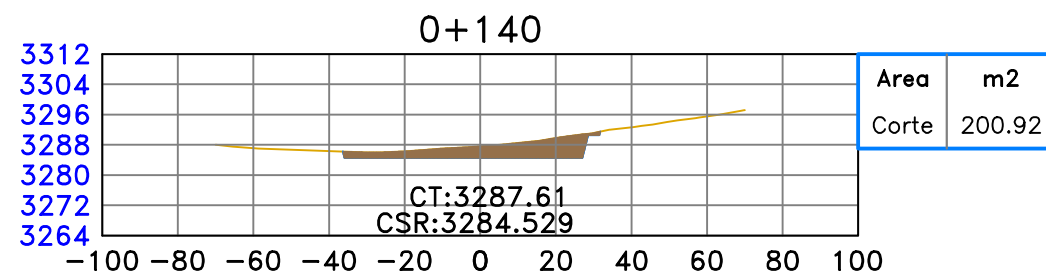
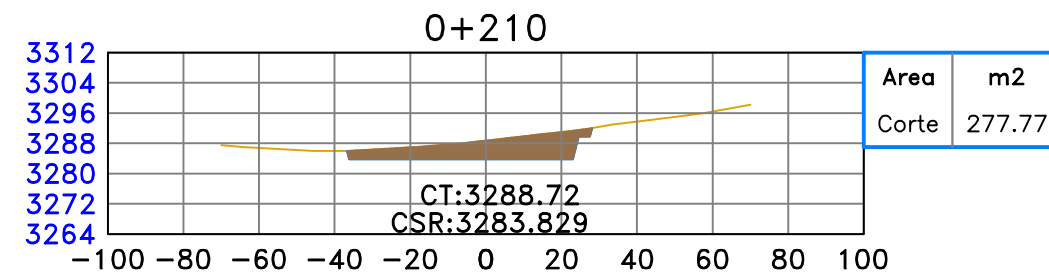
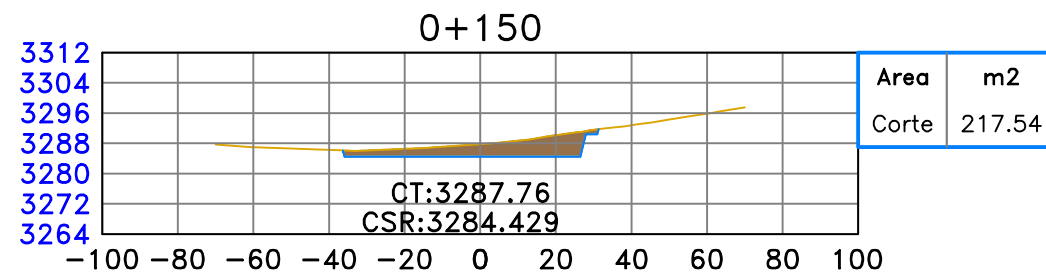
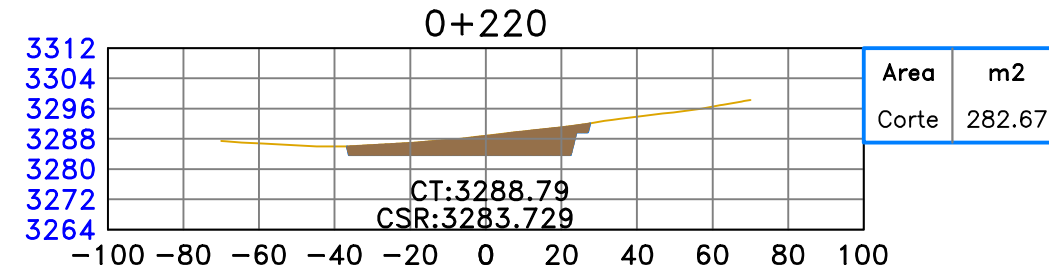
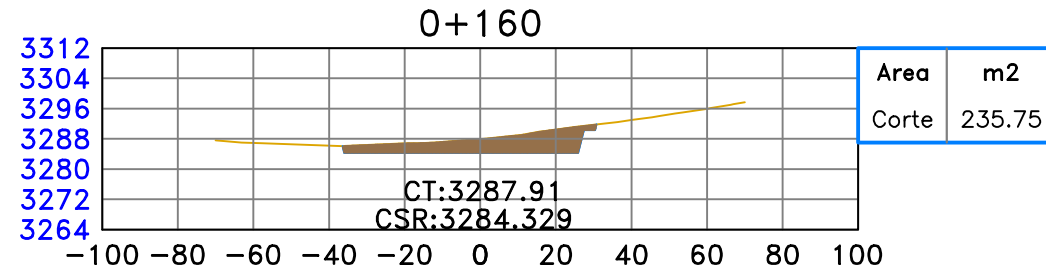
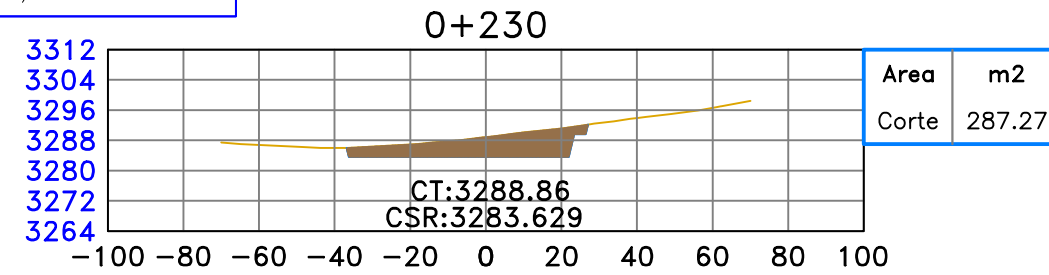
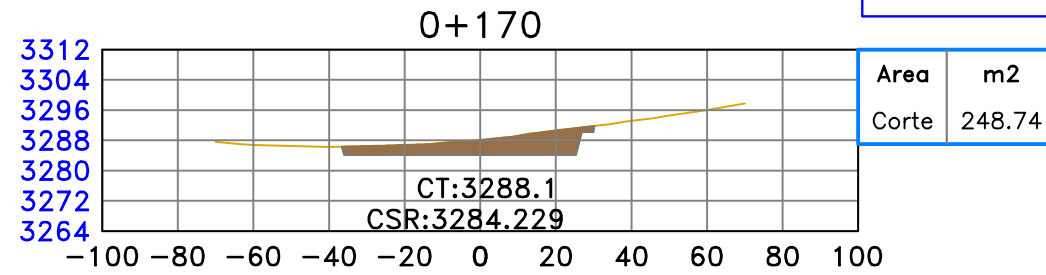


LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -

NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

SECCIONES TRANSVERSALES

ESC: 1/1000



LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -

NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

CONSULTOR:

DISEÑO:

DIBUJO:

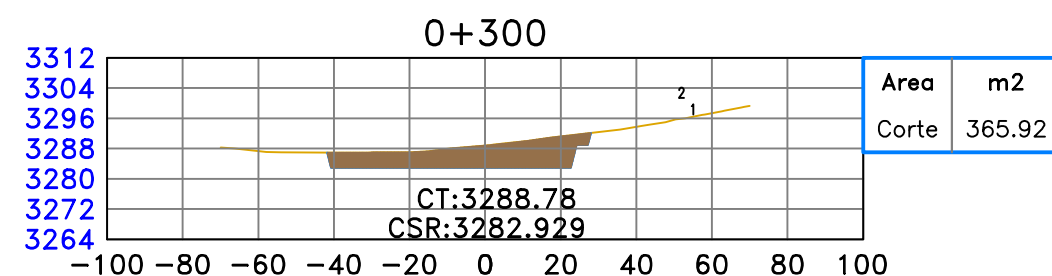
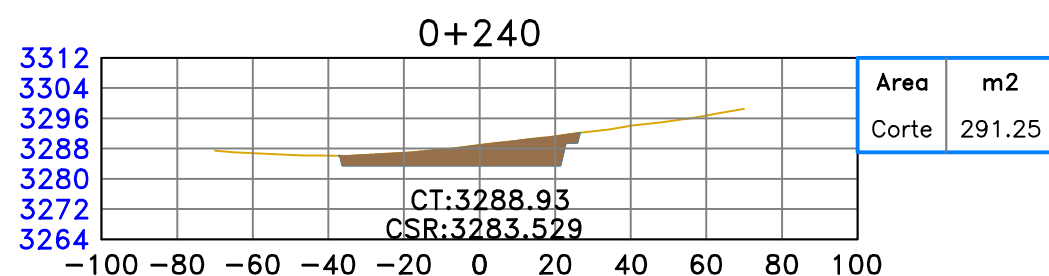
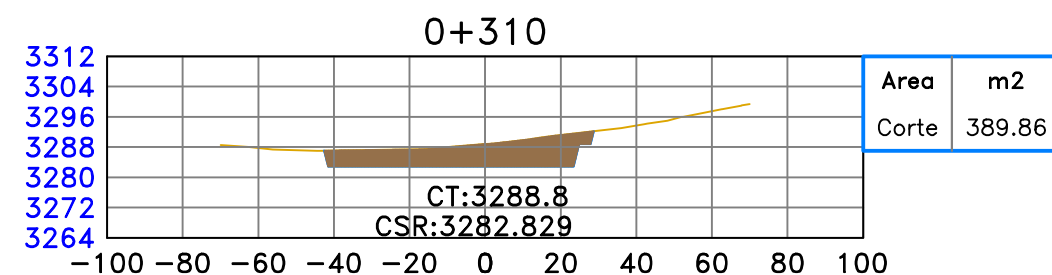
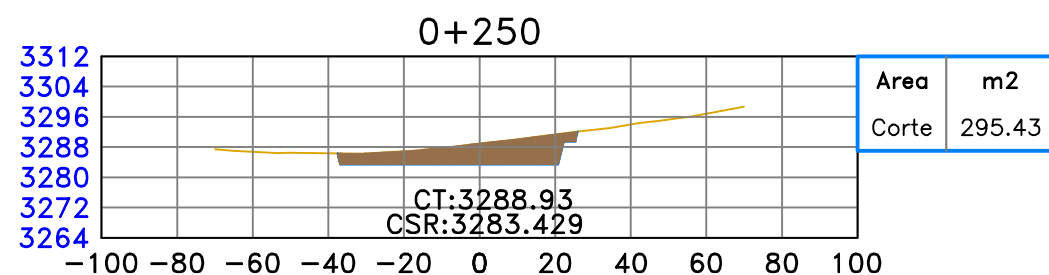
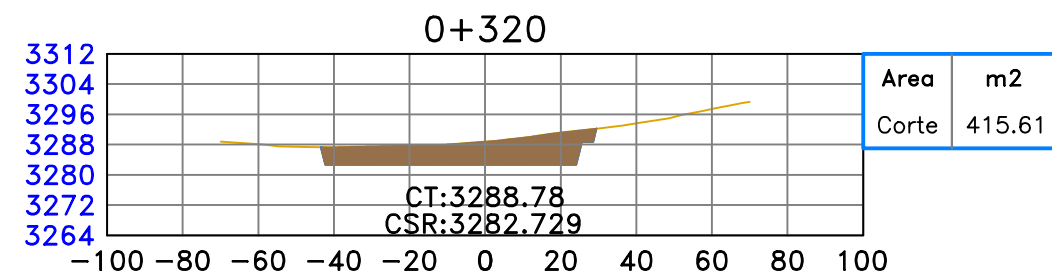
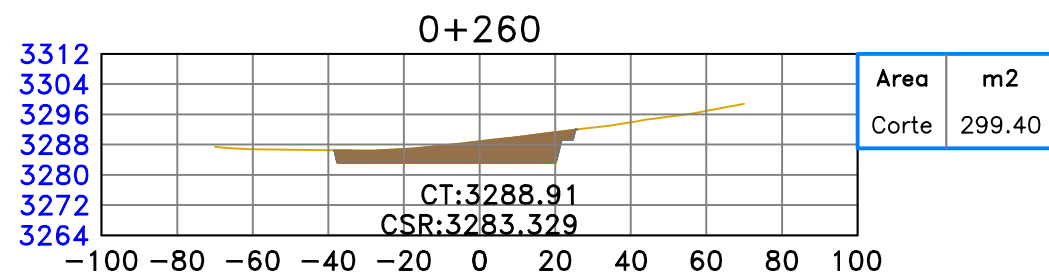
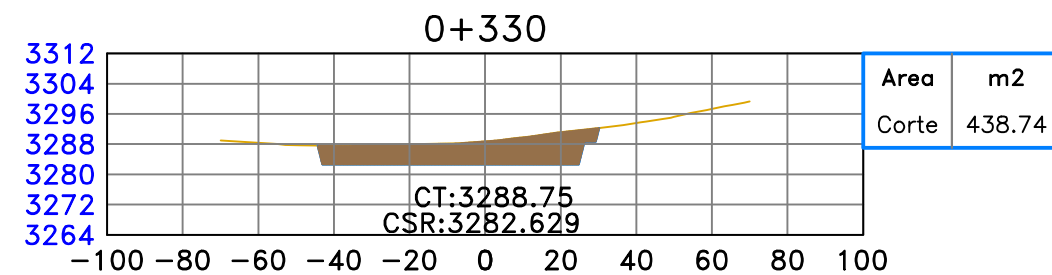
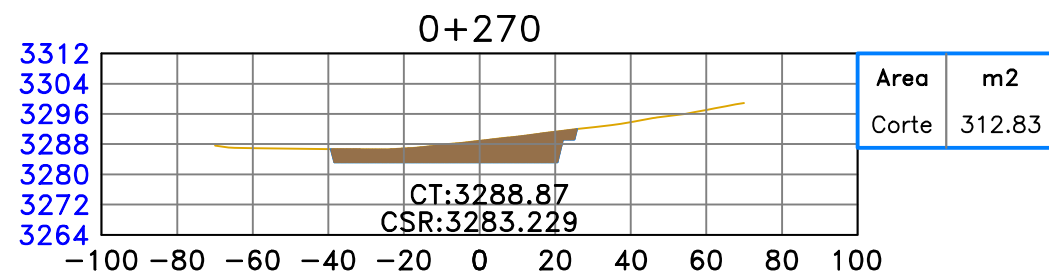
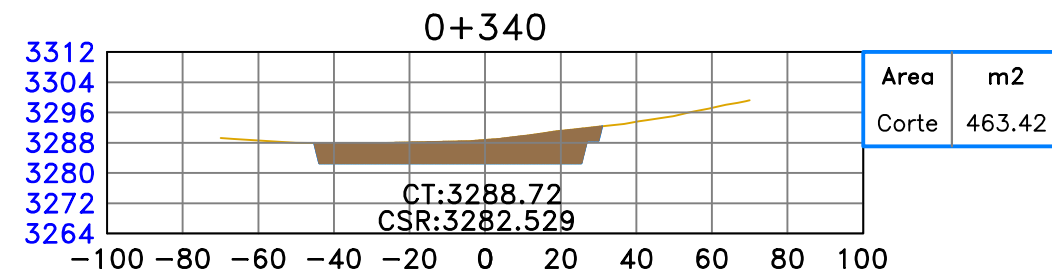
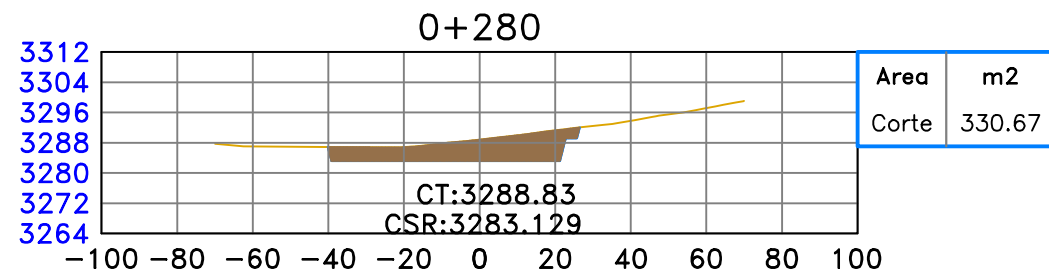
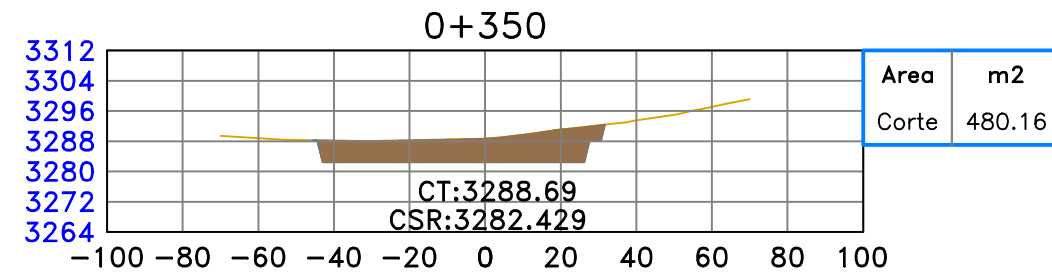
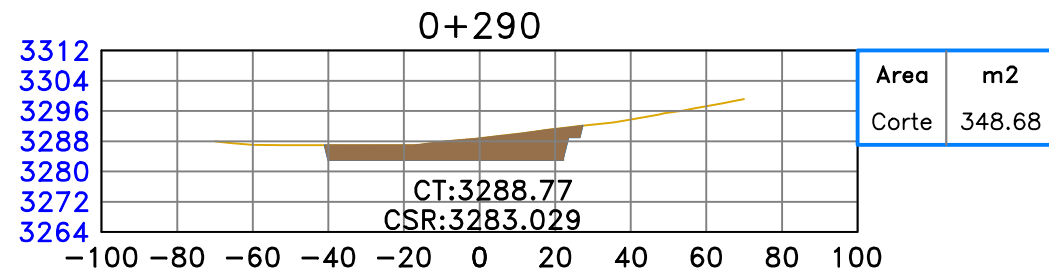
VERIFICO:

PRESENTO:

APROBO :

REVISIONES		
N°	FECHA	DESCRIPCION

SECCIONES TRANSVERSALES
ESC: 1/1000

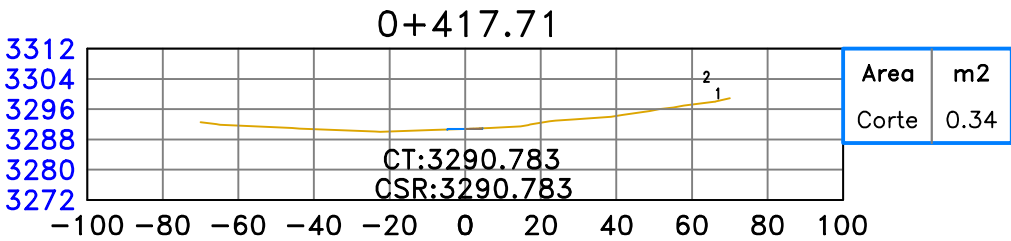
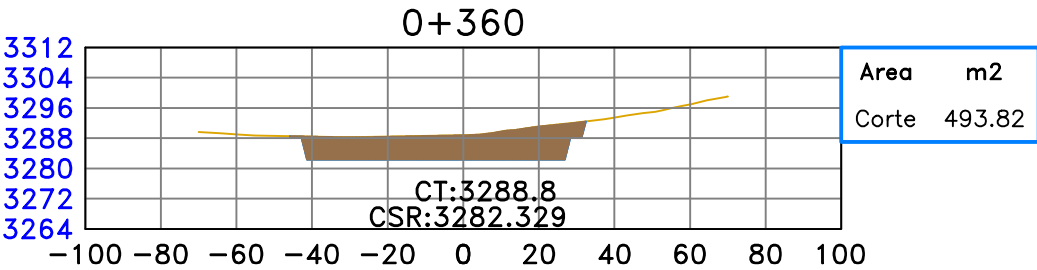
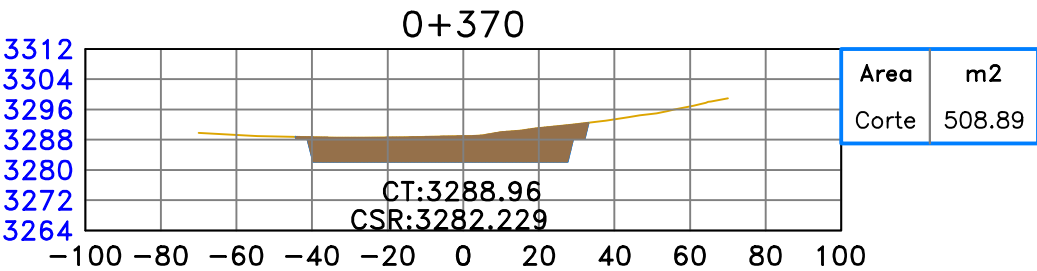
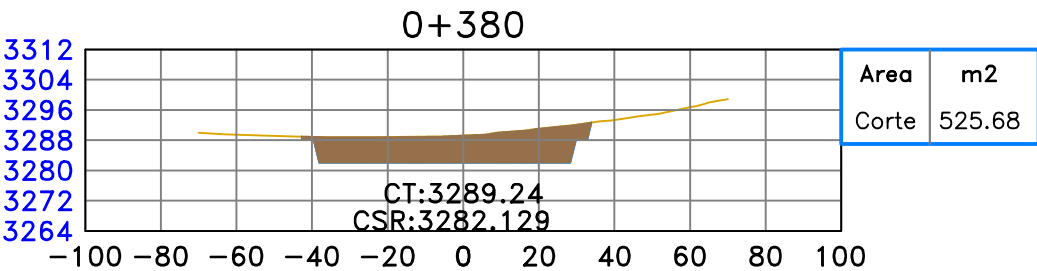
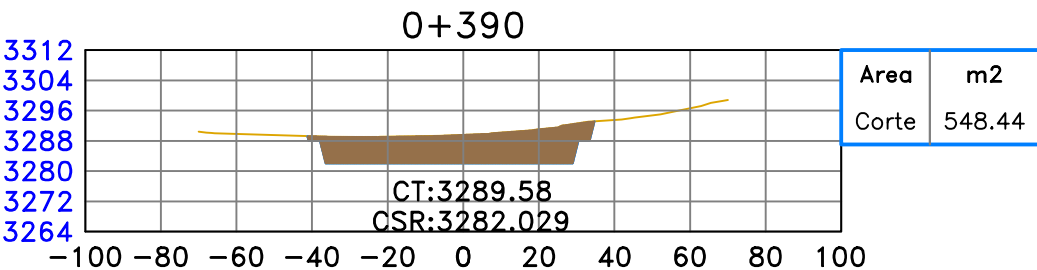
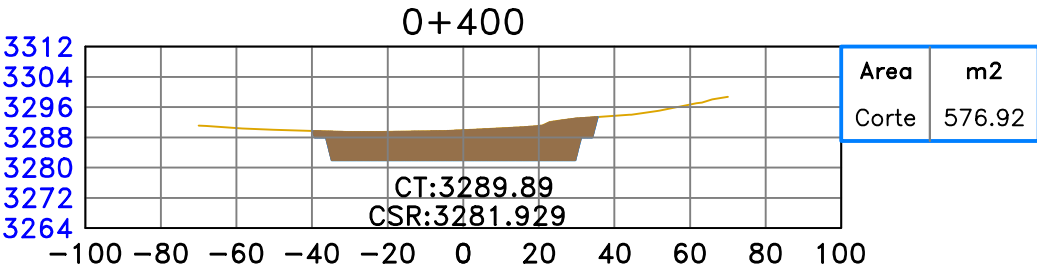
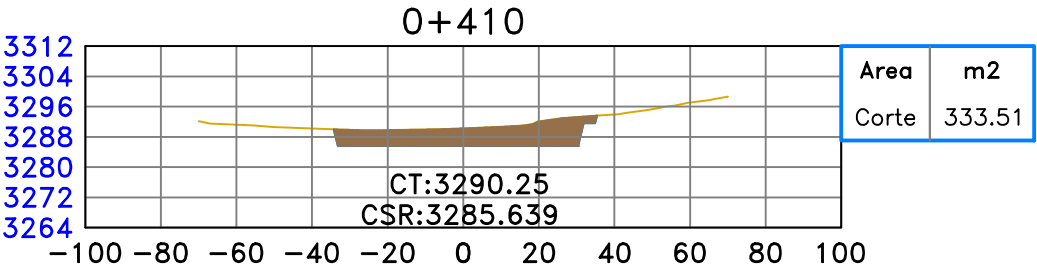


LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -

NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

SECCIONES TRANSVERSALES

ESC: 1/1000



LEYENDA	
Plataforma de Terreno	---
Terreno natural	---

NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



Eje de Carretera Proyectoado	
Perimetro de Cantera	
Eje de Cantera	
Acceso a la Cantera	
Curvas Primarias	
Curvas Secundarias	
Puntos de entrada y salida del cauce	
Azimut	

UBICACIÓN DE GPS
ESC:1/5,000



CANTERA					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A - B	20.77	76°53'50"	295011.690	8909471.081
B	B - C	57.34	123°27'34"	295014.000	8909450.439
C	C - D	40.33	74°40'39"	294969.975	8909413.701
D	D - A	62.01	84°57'57"	294953.235	8909450.395

VERTICES	NORTE	ESTE
A'	8909357.634	295003.344
B'	8909379.856	294999.461

VERTICES	ESTE	NORTE
E (Entrada)	294961.6047	8909432.0
S (Salida)	295012.8448	8909460.7



SENTIDO DE OPERACION
TRAMO I

AREA A EXTRAERSE

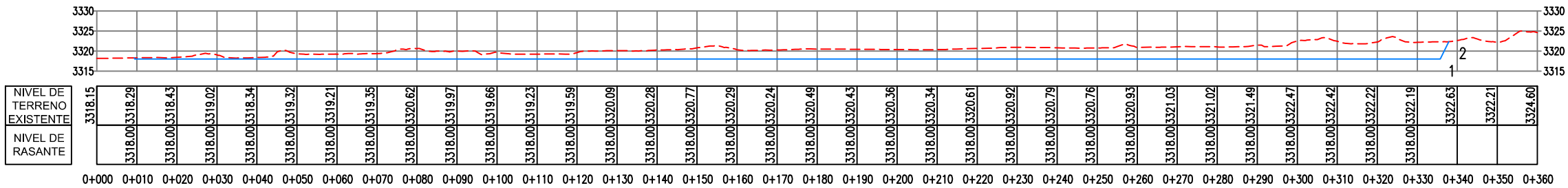
FONDO THALWEG

AREA A EXTRAERSE

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

PERFIL LONGITUDINAL

ESC: 1/650



NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



CONSULTOR:



DISEÑO:

DIBUJO:

VERIFICO:

PRESENTO:

APROBO :

REVISIONES

N°	FECHA	DESCRIPCION

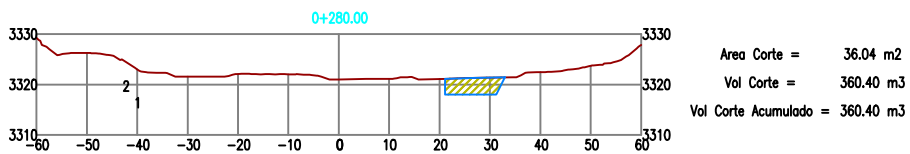
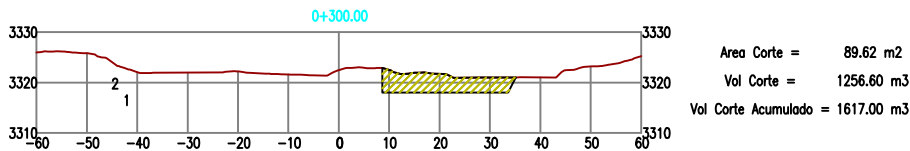
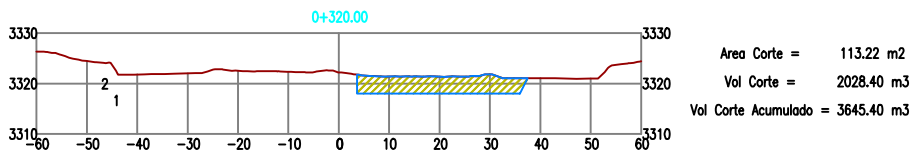
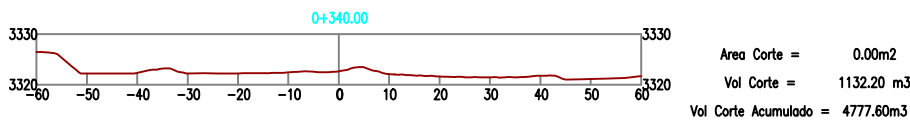
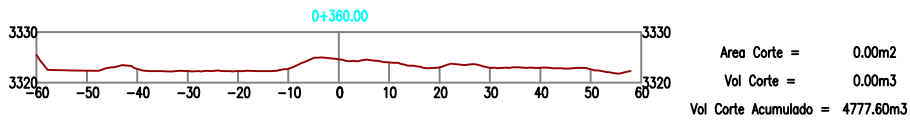
ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO-CONOCOCHA, SECTOR HUÁNUCO-LA UNIÓN-HUALLANCA RUTA PE-3N
CONTRATO N°DU 078-2009(CP) - 1-2009-DU-GR-LL-GRI-CE

PLANO DE CANTERA
RIO VIZCARRA ZONA ALTA N°03-P1
Km. 140+220

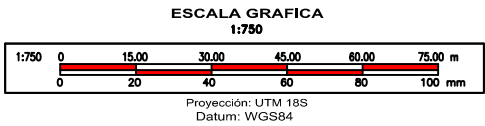
ESCALA: INDICADA
FECHA: DICIEMBRE 2015
SU-CANT-11-2/3 A

SECCIONES TRANSVERSALES

ESC: 1/750



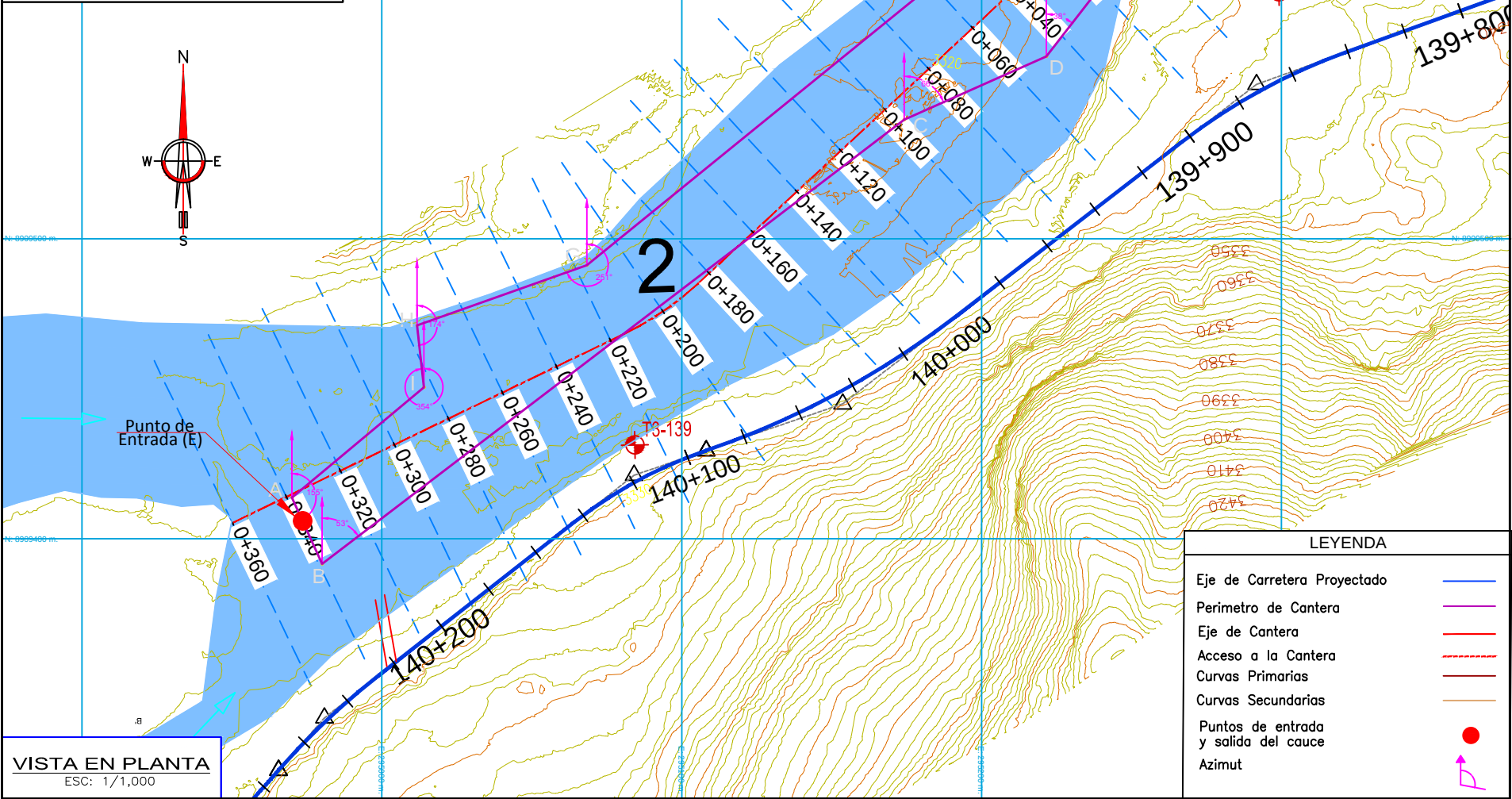
LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -



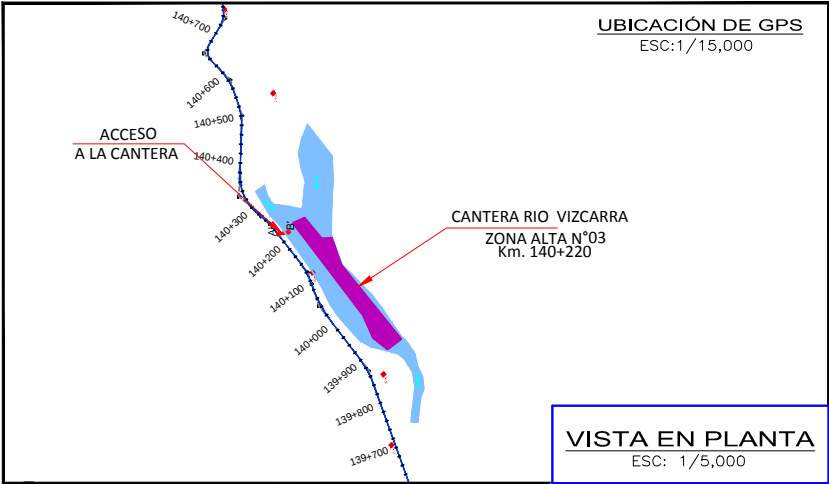
NOTA :

ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

CANTERA RIO VIZCARRA ZONA ALTA N°03 - P2	
Progresiva	: Km. 140+220
Area Explotar	: 10173.350 m ² 1.0173 ha
Perímetro	: 731.32 ml
Potencia	: 22180.31 m ³
Lado	: DERECHO
Acceso	: 20 m. por habilitar



UBICACIÓN

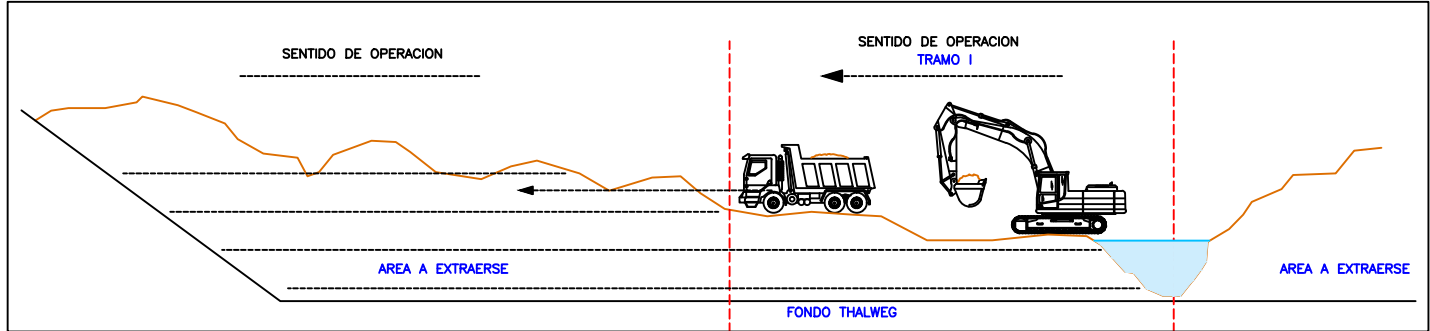


COORDENADAS UTM (POLIGONAL)
DATUM: WGS 84

CUADRO DE CANTERA					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A - B	24.33	105°19'21"	294969.975	8909413.701
B	B - C	244.17	77°10'15"	294980.072	8909391.566
C	C - D	51.86	193°22'24"	295174.171	8909539.706
D	D - E	38.07	151°54'5"	295221.554	8909560.781
E	E - F	33.99	104°16'18"	295244.952	8909590.813
F	F - G	200.68	88°43'3"	295224.120	8909617.665
G	G - H	60.11	199°35'59"	295068.357	8909491.135
H	H - I	20.77	103°6'10"	295011.690	8909471.081
I	I - A	57.34	236°32'26"	295014.000	8909450.439

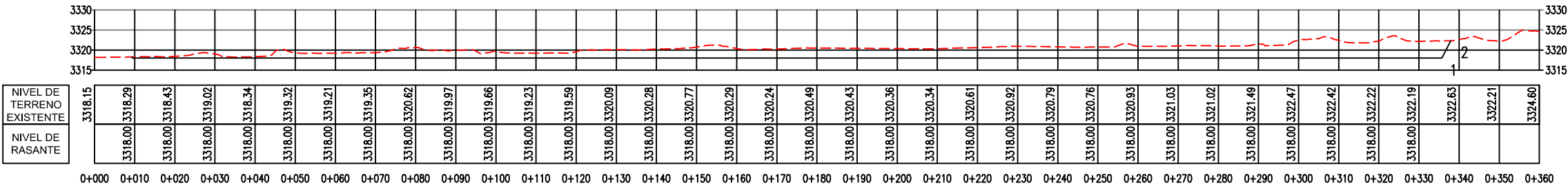
COORDENADAS UTM-WGS 84 ACCESO A LA CANTERA		
VERTICES	NORTE	ESTE
A'	8909357.634	295003.344
B'	8909379.856	294999.461

PUNTOS DE ACCESO Y SALIDA DEL CAUCE		
VERTICES	NORTE	ESTE
E	8909403.708	294973.1041
S	8909605.923	295233.2285



NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

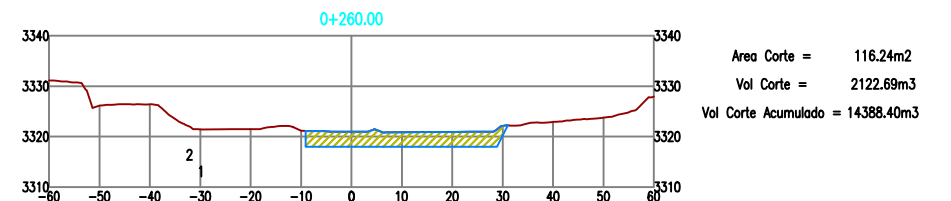
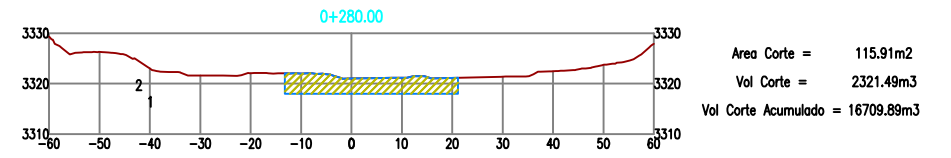
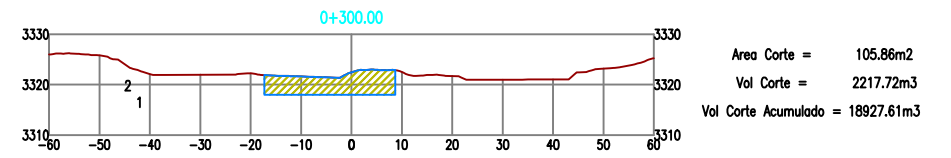
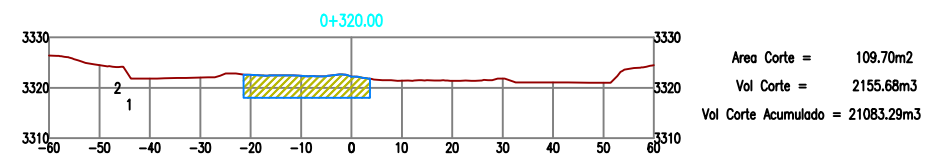
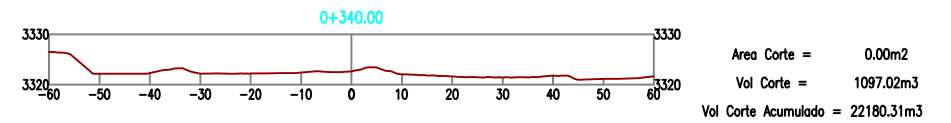
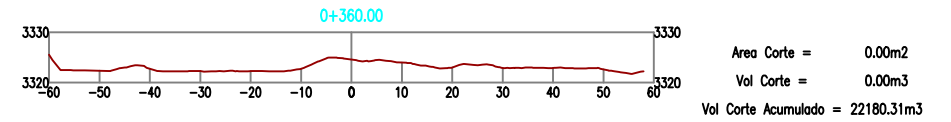
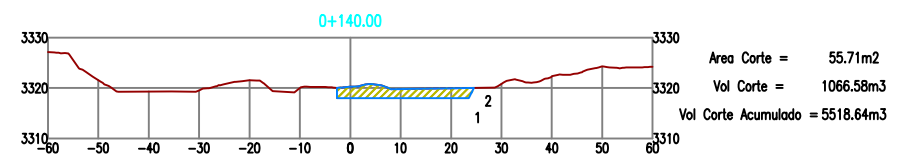
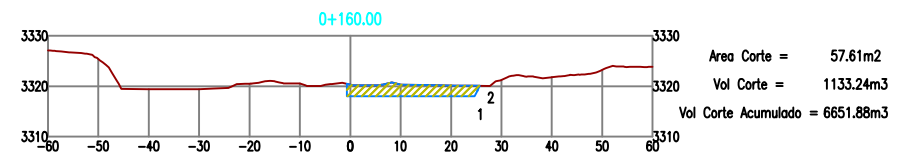
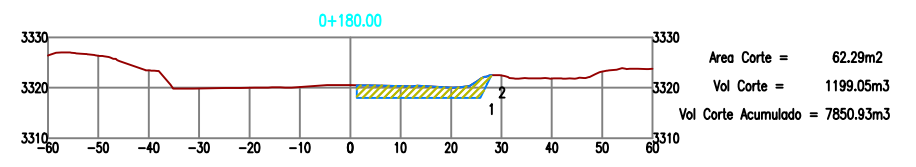
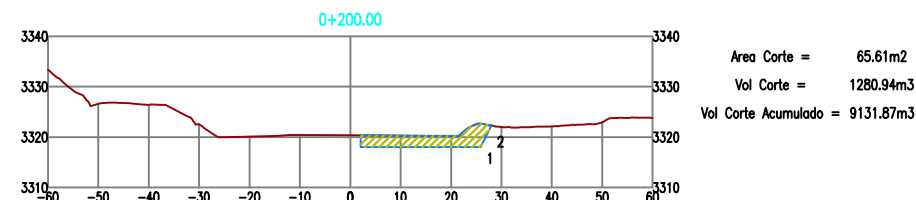
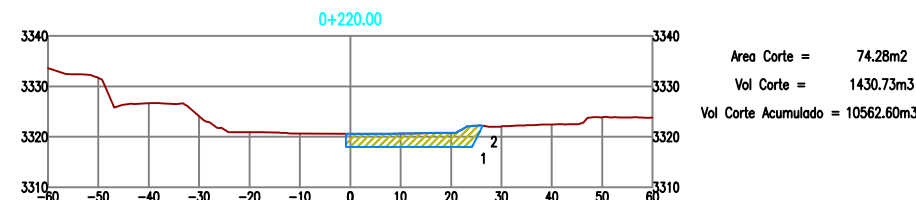
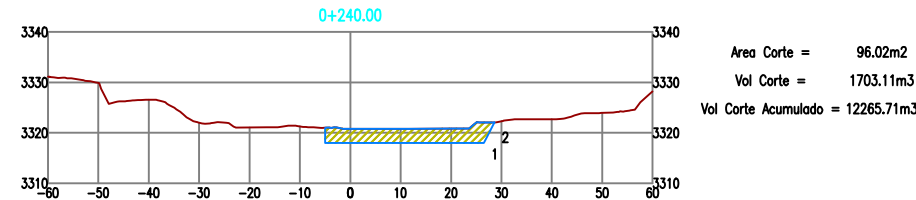
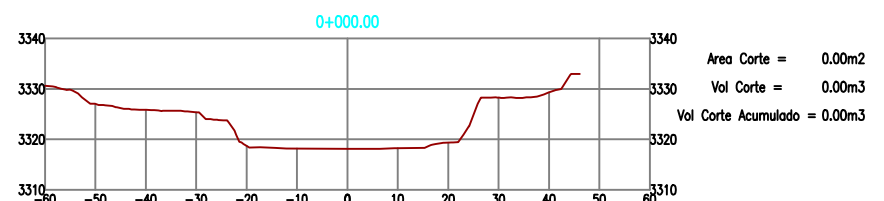
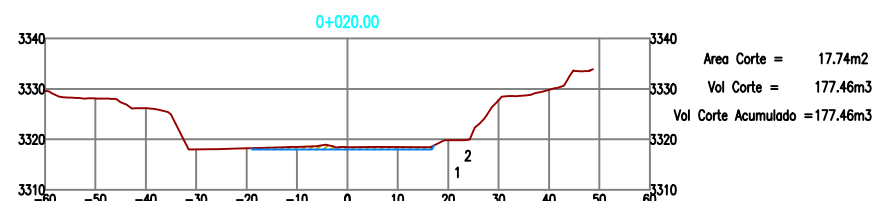
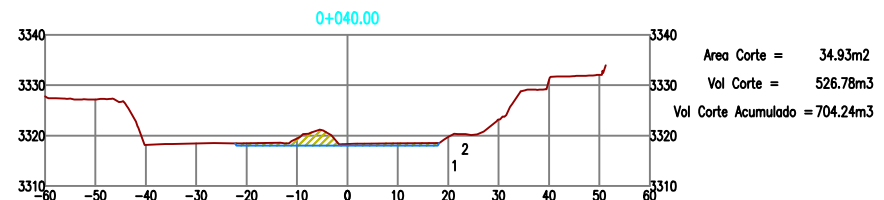
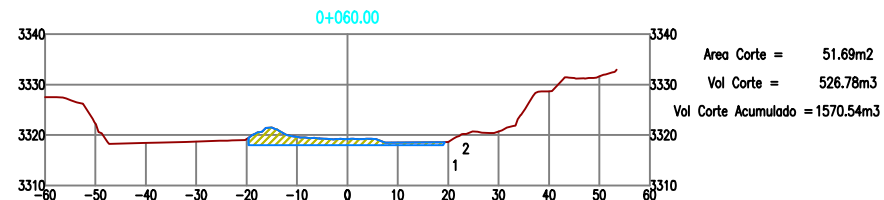
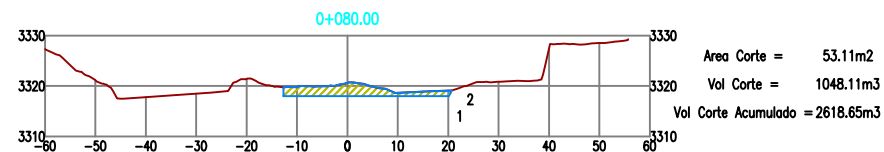
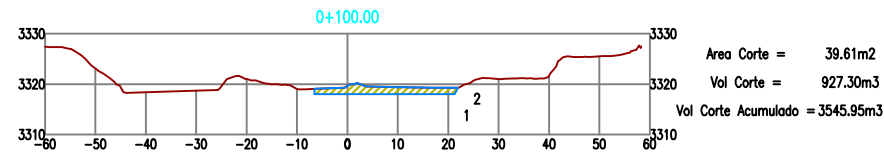
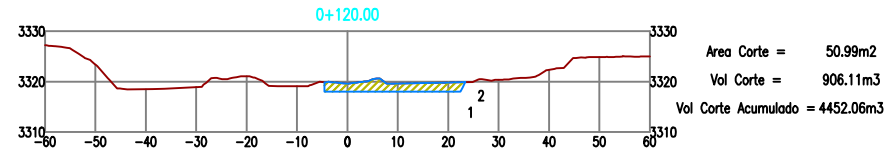
PERFIL LONGITUDINAL
ESC: 1/650



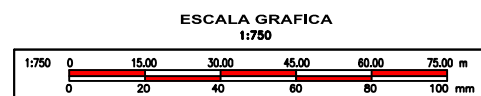
NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

SECCIONES TRANSVERSALES

ESC: 1/750



LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -



NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE



CONSULTOR:



DISEÑO:
DIBUJO:
VERIFICADO:
PRESENTO:

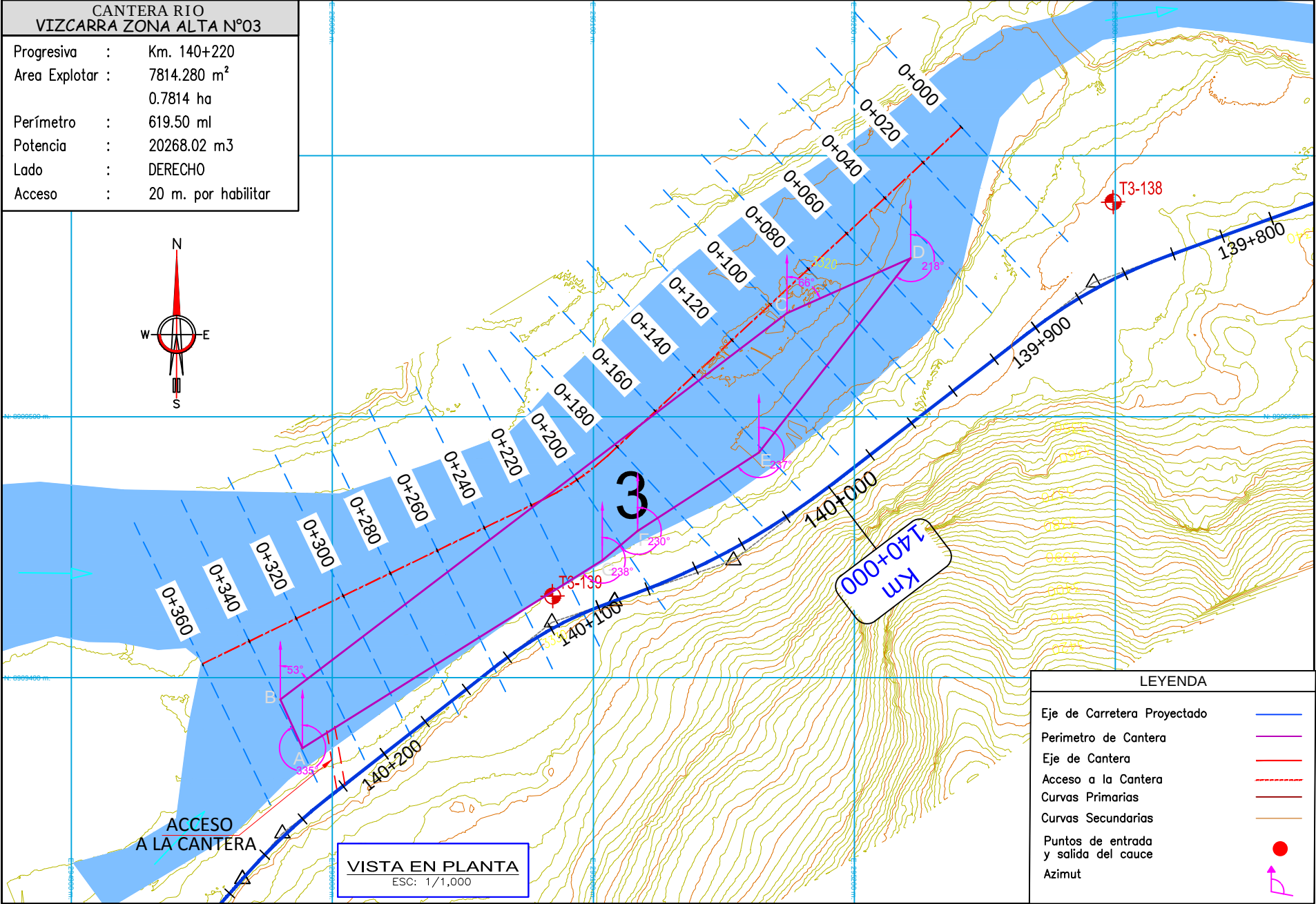
APROBO :

REVISIONES		
N°	FECHA	DESCRIPCION

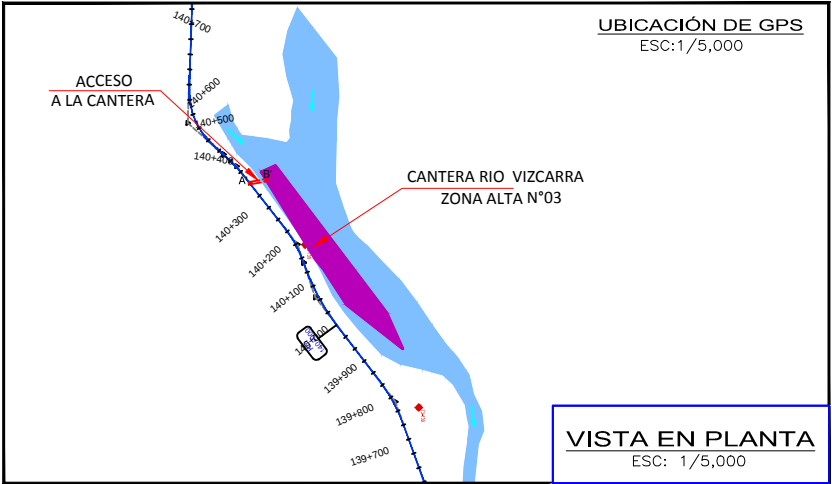
ESTUDIO DEFINITIVO PARA EL MEJORAMIENTO DE LA CARRETERA
HUÁNUCO-CONOCCOCHA, SECTOR HUÁNUCO-LA UNIÓN-HUALLANCA RUTA PE-3N
CONTRATO N°DU 078-2009(CP) - 1-2009-DU-GR-LL-GRI-CE

PLANO DE CANTERA
RIO VIZCARRA
ZONA ALTA N°03 - P2
Km. 140+220

ESCALA: INDICADA
FECHA: DICIEMBRE 2015
SU-CANT-11-3/3 B



UBICACIÓN

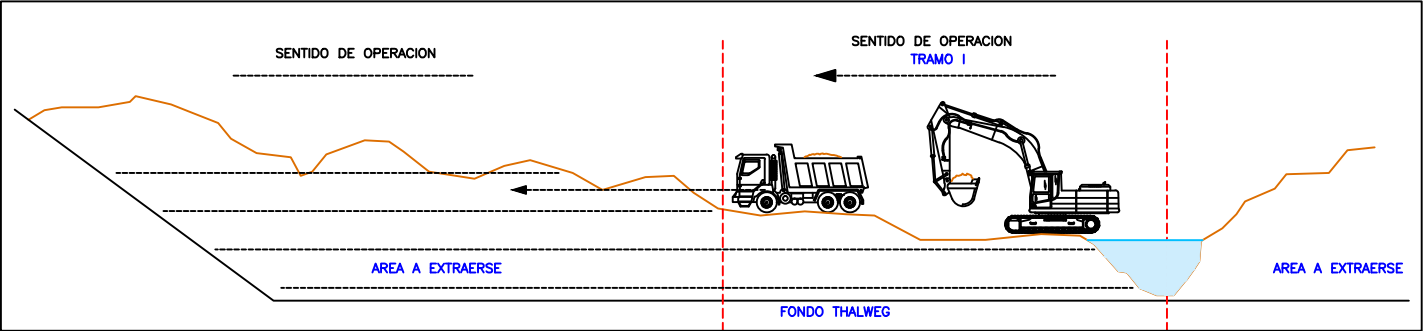


COORDENADAS UTM (POLIGONAL)
DATUM: WGS 84

CUADRO DE CONSTRUCCION					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A - B	20.44	82°27'51"	294988.556	8909372.969
B	B - C	244.17	102°49'45"	294980.072	8909391.566
C	C - D	51.86	166°37'36"	295174.171	8909539.706
D	D - E	94.50	28°5'55"	295221.554	8909560.781
E	E - F	55.37	160°49'45"	295163.474	8909486.237
F	F - G	17.60	186°46'18"	295116.989	8909456.157
G	G - A	135.56	172°22'49"	295103.441	8909444.918

COORDENADAS UTM-WGS 84 ACCESO A LA CANTERA		
VERTICES	NORTE	ESTE
A'	8909357.634	295003.344
B'	8909379.856	294999.461

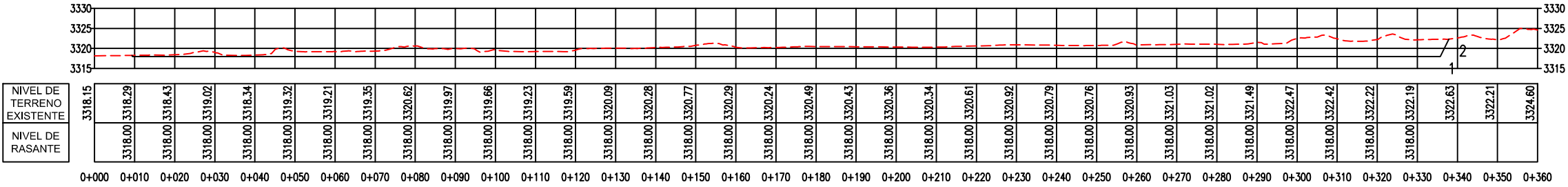
PUNTOS DE ACCESO Y SALIDA DEL CAUCE		
VERTICES	NORTE	ESTE
E	8909415.27	294968.1511
S	8909607.522	295235.2431



NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

PERFIL LONGITUDINAL

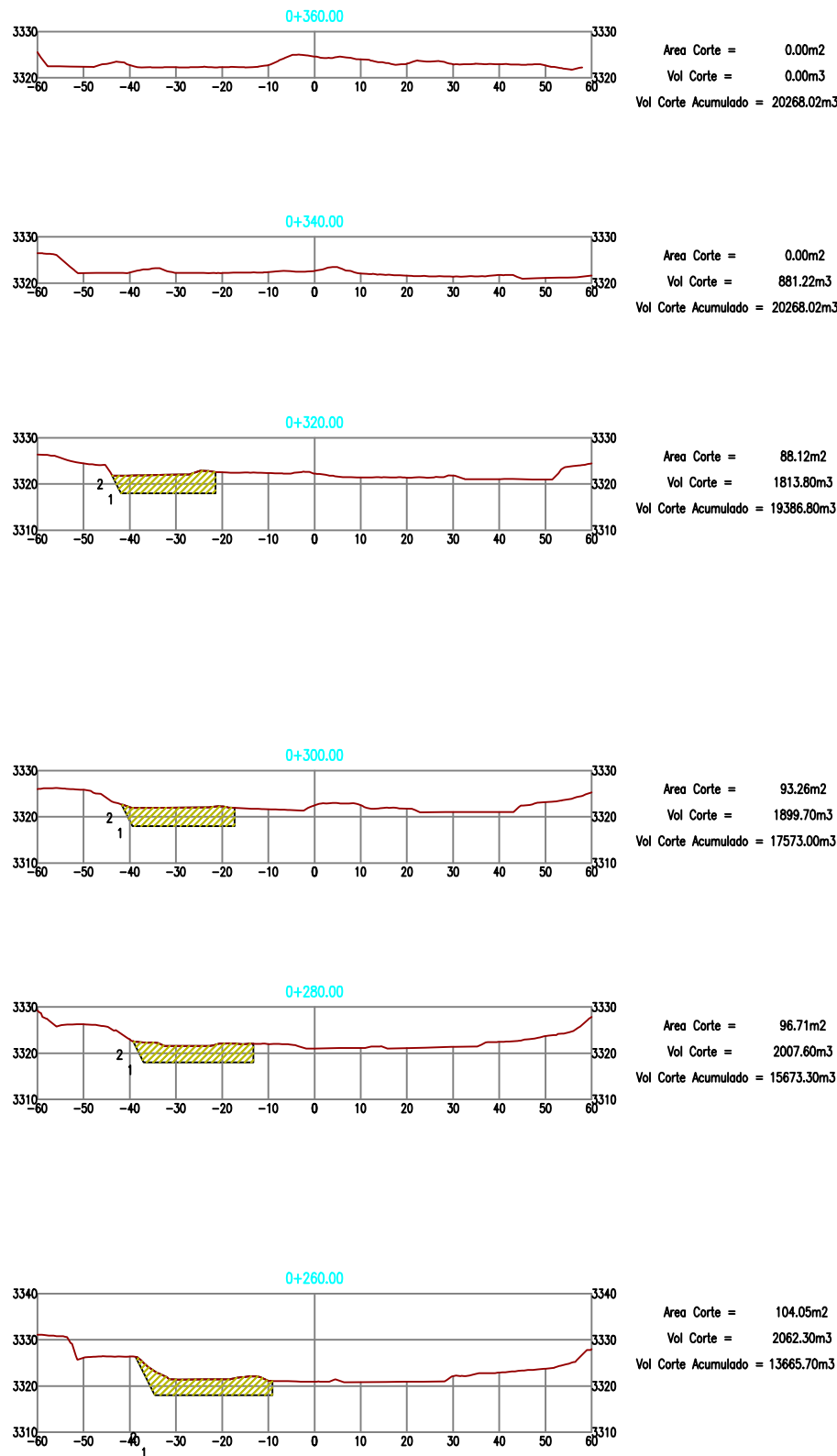
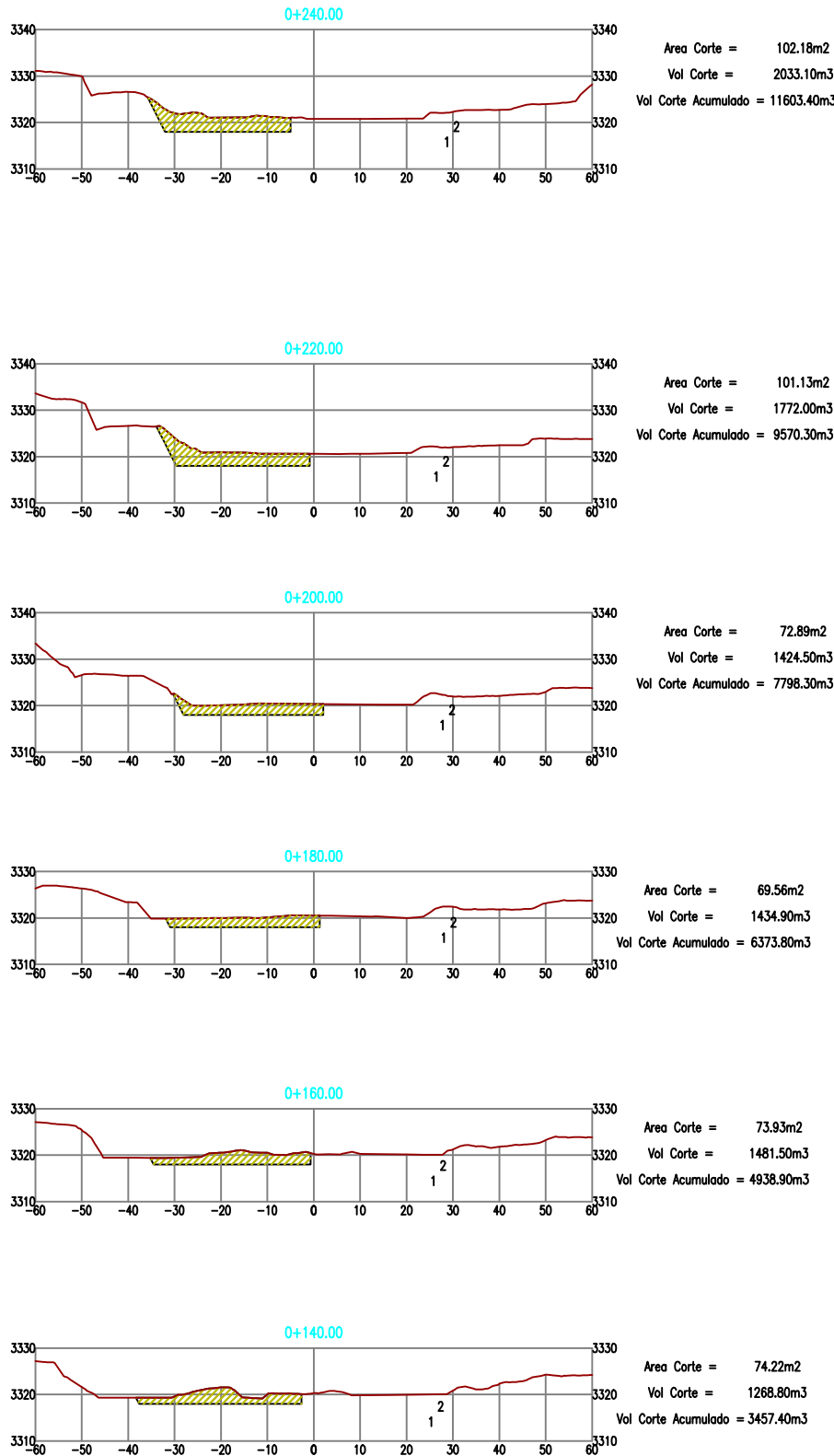
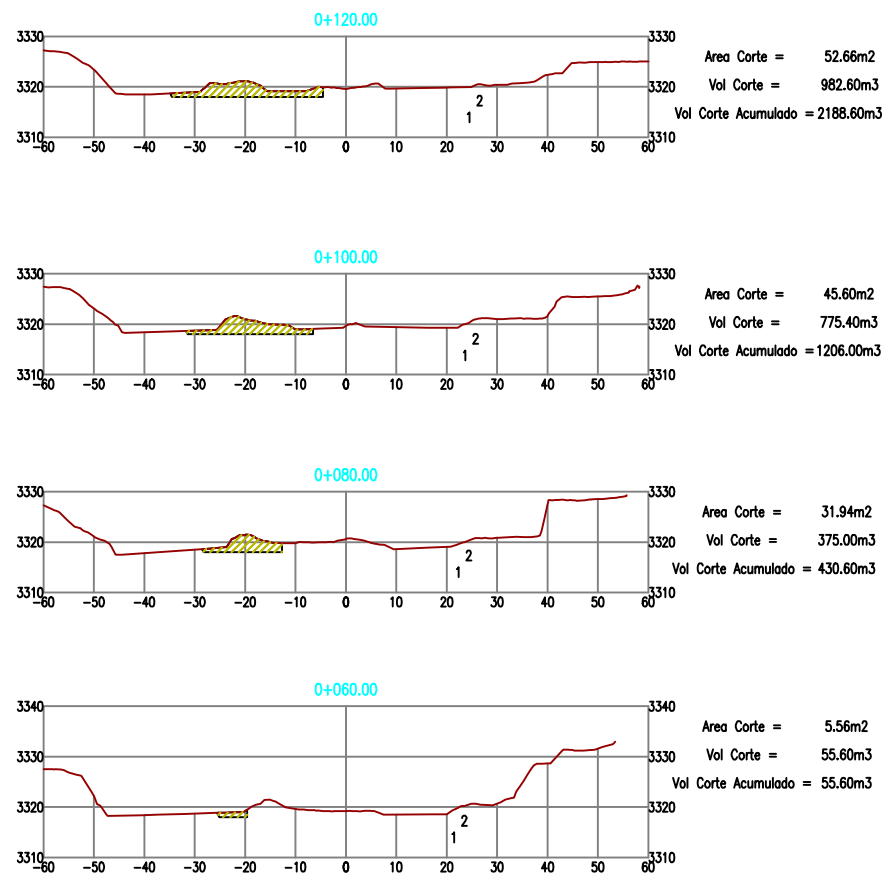
ESC: 1/650



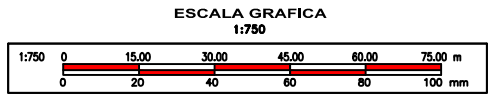
NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE

SECCIONES TRANSVERSALES

ESC: 1/750



LEYENDA	
Plataforma de Terreno	—
Terreno natural	- - -



NOTA :
ESCALA MOSTRADA ES PARA EL FORMATO A1
PARA EL FORMATO A3 CONSIDERAR EL DOBLE