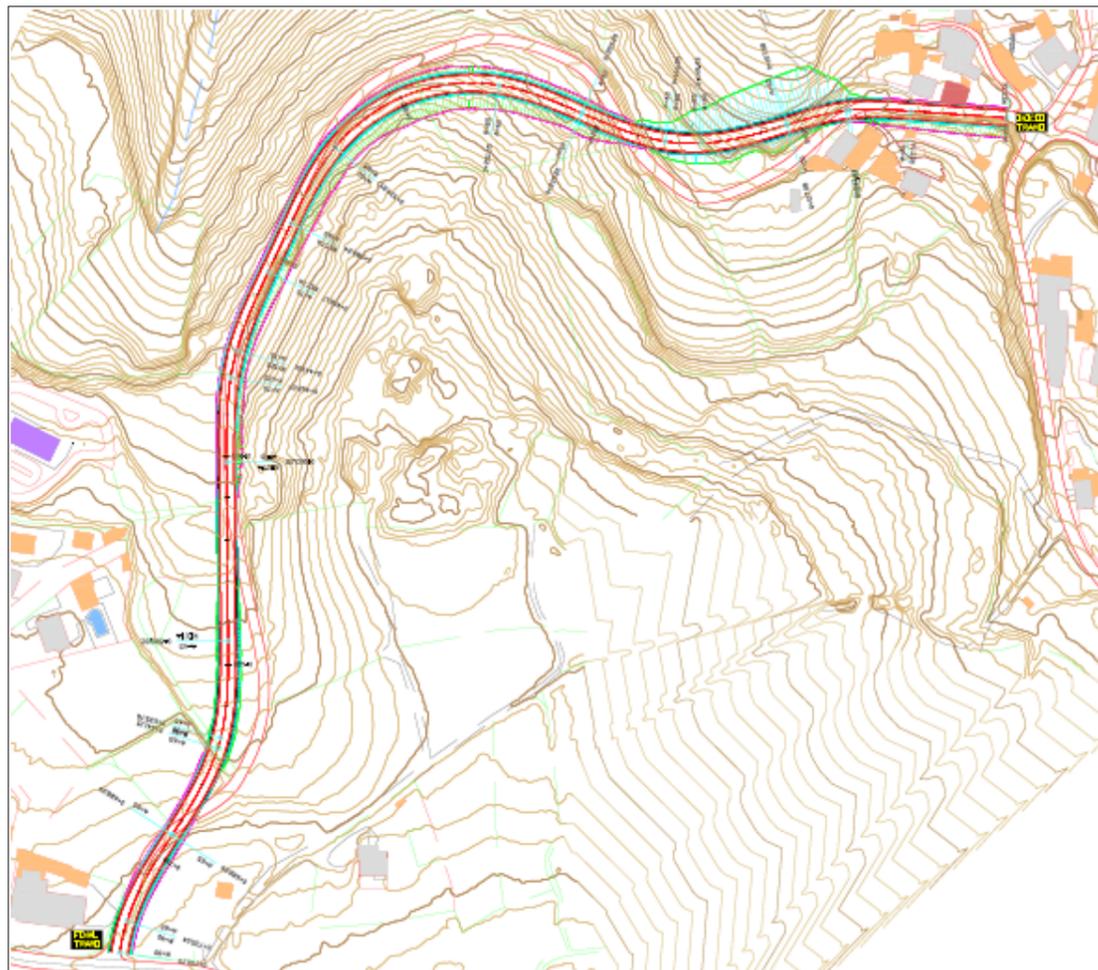




ENSANCHE Y MEJORA DE LA CP-1707 A SU PASO POR ARMENTAL, CAMBRE (ANTEPROYECTO)



DOCUMENTO N°2: PLANOS

Patricia Fontenla Naya

Proyecto Fin de Grado

Grado en Tecnología de la Ingeniería Civil

Septiembre 2015



**Ensanche y mejora de la CP-1707
a su paso por Armental, Cambre**



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**Ensanche y mejora de la CP-1707
a su paso por Armental, Cambre**



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PLANO 6.- SECCIÓN TIPO





ESCUELA TÉCNICA SUPERIOR DE INGENIEROS DE CAMINOS, CANALES Y PUERTOS

DESIGNACIÓN DEL PLANO

ENSANCHE Y MEJORA DE LA CP-1707 A SU PASO POR ARMENTAL, CAMBRE

AUTOR DEL PROYECTO

PATRICIA FONTENLA NAYA

FECHA

Septiembre 2015

DESIGNACIÓN DEL PLANO

SITUACIÓN ACTUAL

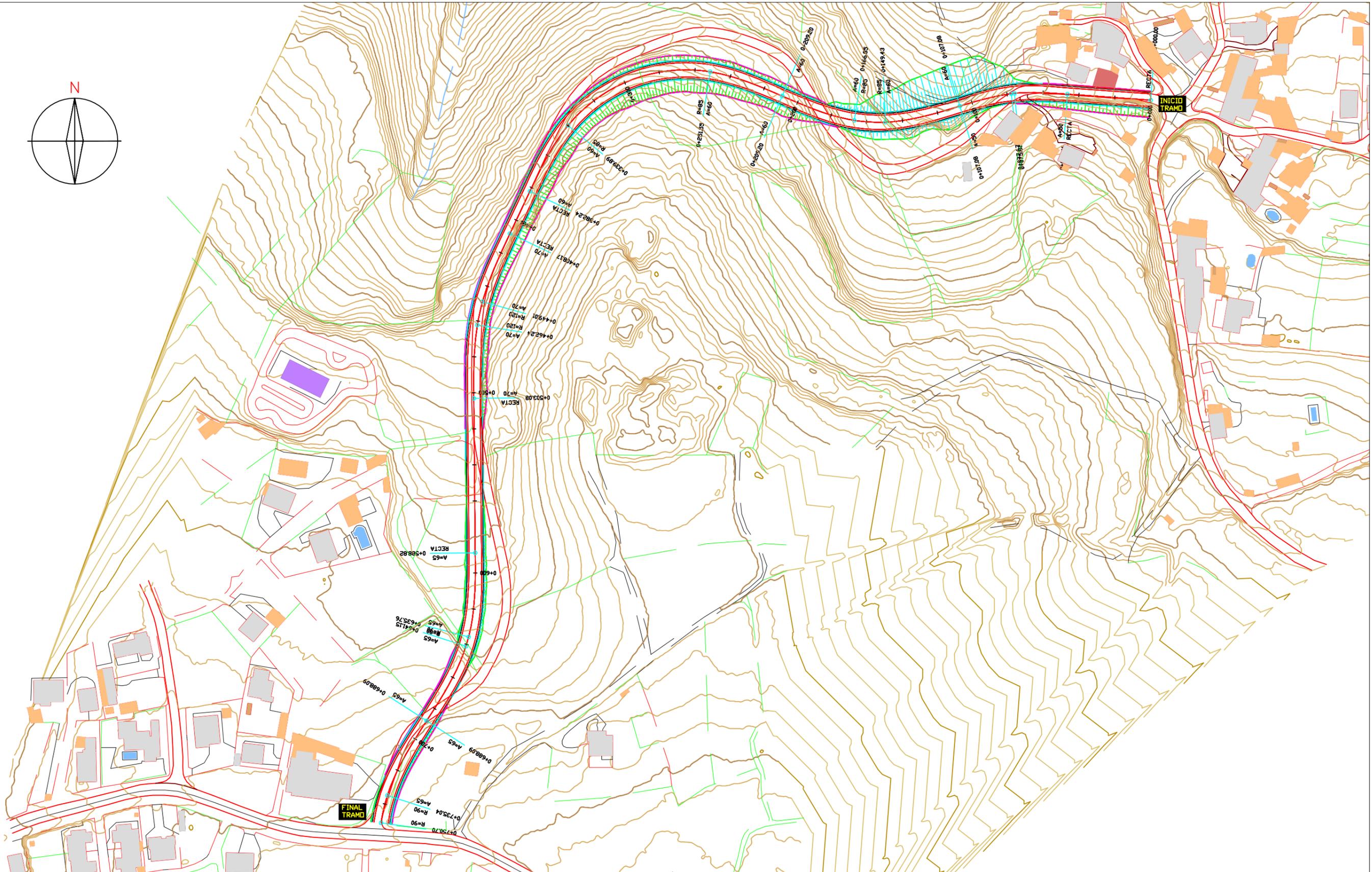
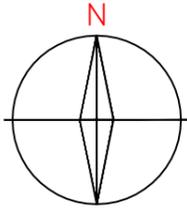
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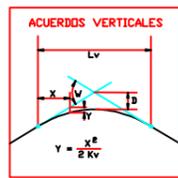
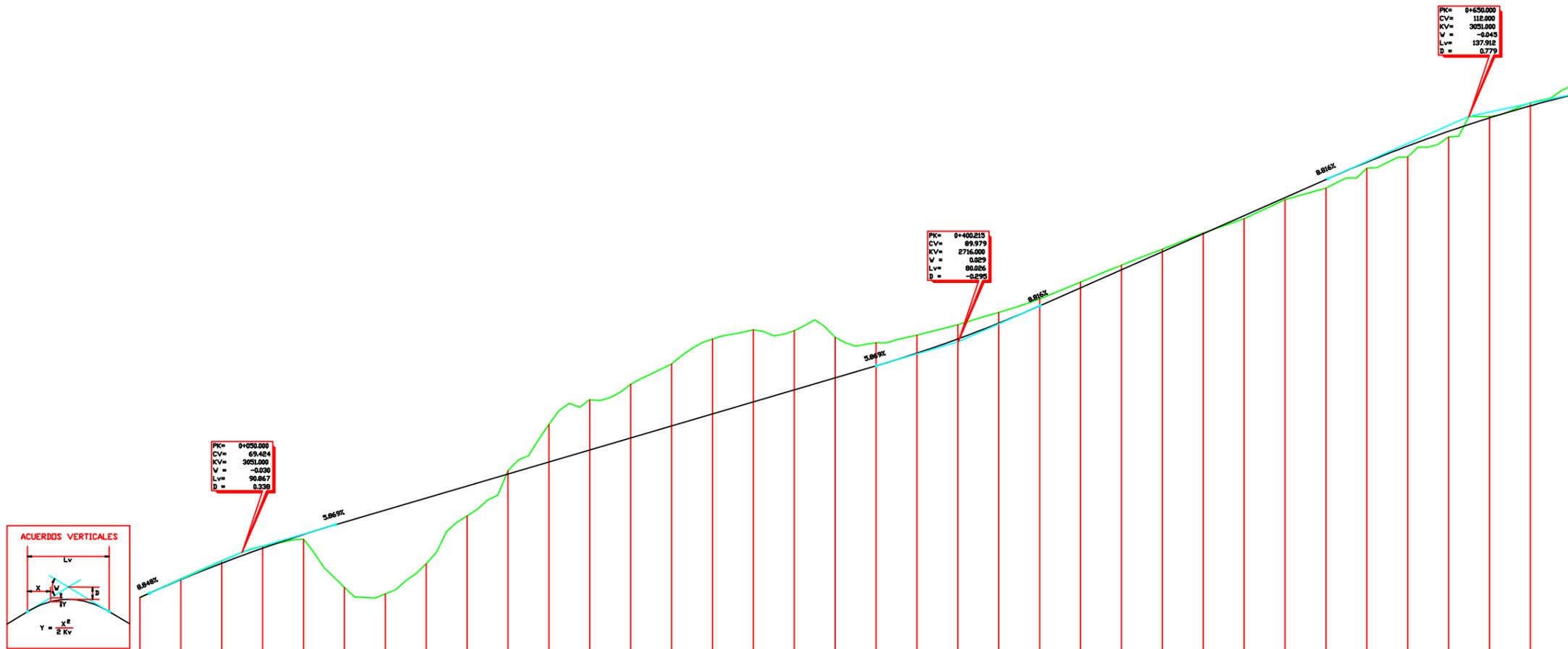
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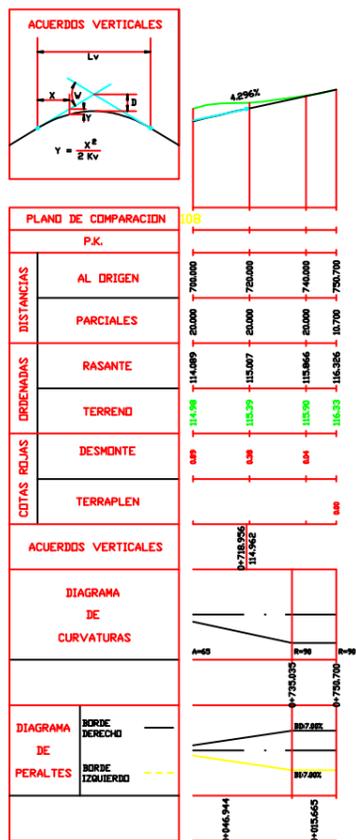
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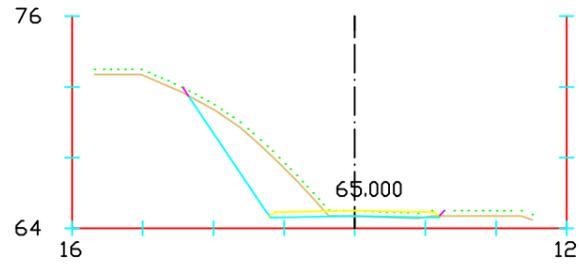
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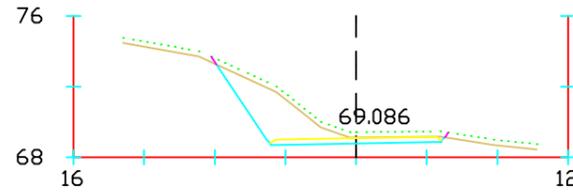
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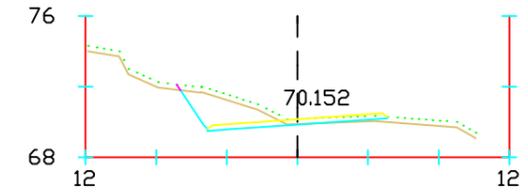
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S. FIRME = 2.82 m².
 S. D TIERRA = 15.42 m².
 S. TERRAPLEN = 0.17 m².
 S. VEGETAL = 4.35 m².



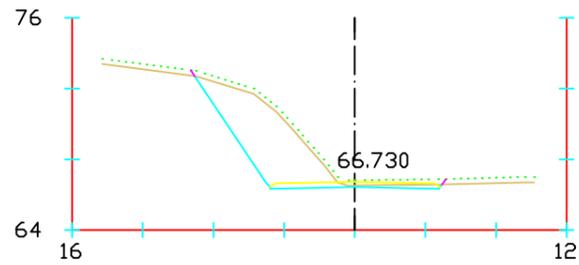
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S. FIRME = 2.85 m².
 S. D TIERRA = 13.63 m².
 S. VEGETAL = 3.95 m².



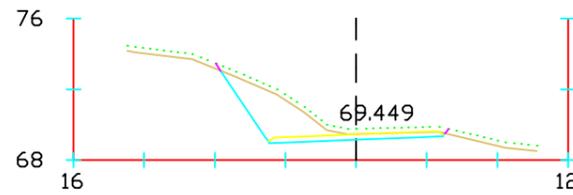
Pk=0+065

S. FIRME = 3.00 m².
 S. D TIERRA = 6.94 m².
 S. TERRAPLEN = 0.31 m².
 S. VEGETAL = 3.55 m².



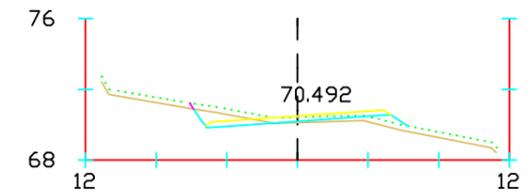
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S. FIRME = 2.82 m².
 S. D TIERRA = 21.44 m².
 S. VEGETAL = 4.27 m².



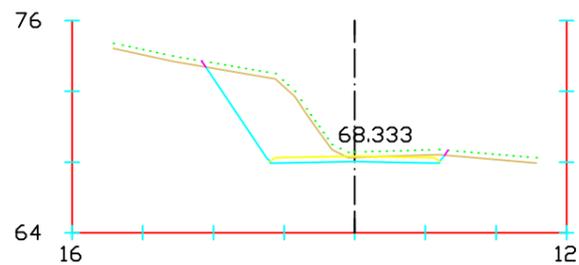
Pk=0+055

S. FIRME = 2.90 m².
 S. D TIERRA = 12.29 m².
 S. VEGETAL = 3.88 m².



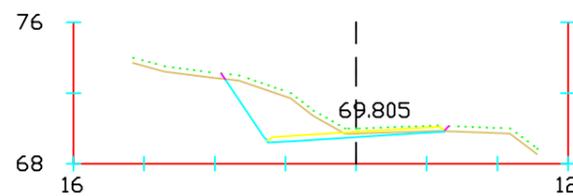
Pk=0+070

S. FIRME = 3.05 m².
 S. D TIERRA = 2.16 m².
 S. TERRAPLEN = 1.86 m².
 S. VEGETAL = 3.67 m².



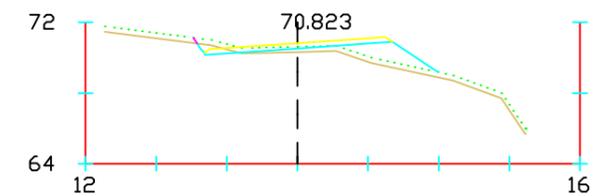
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S. FIRME = 2.82 m².
 S. D TIERRA = 21.74 m².
 S. VEGETAL = 4.12 m².



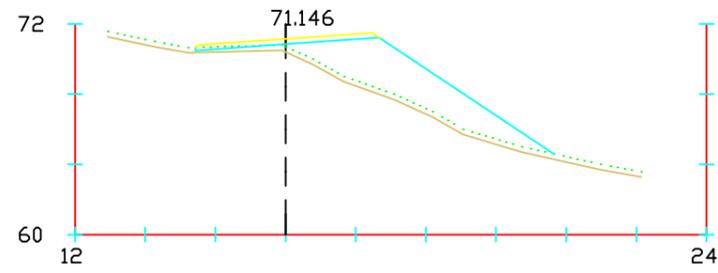
Pk=0+060

S. FIRME = 2.95 m².
 S. D TIERRA = 11.77 m².
 S. VEGETAL = 3.79 m².



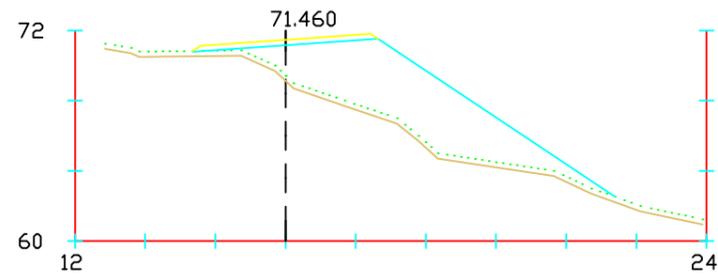
Pk=0+075

S. FIRME = 3.10 m².
 S. D TIERRA = 0.72 m².
 S. TERRAPLEN = 6.18 m².
 S. VEGETAL = 4.12 m².



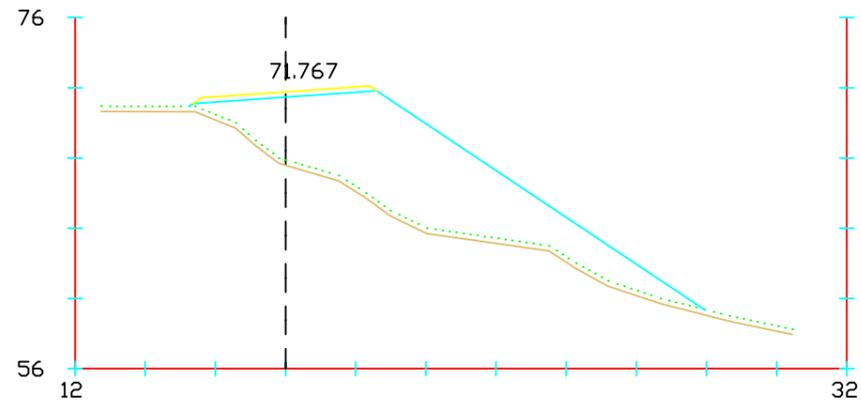
Pk=0+080

S. FIRME = 3.07 m².
 S. TERRAPLEN = 31.27 m².
 S. VEGETAL = 6.13 m².



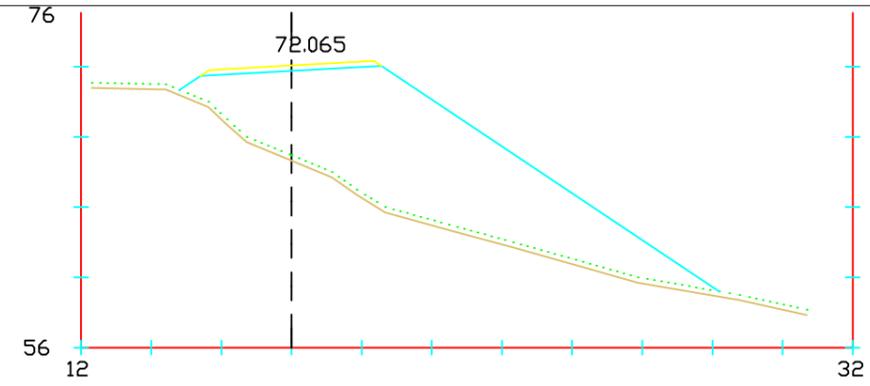
Pk=0+085

S. FIRME = 3.05 m².
 S. TERRAPLEN = 57.68 m².
 S. VEGETAL = 7.22 m².



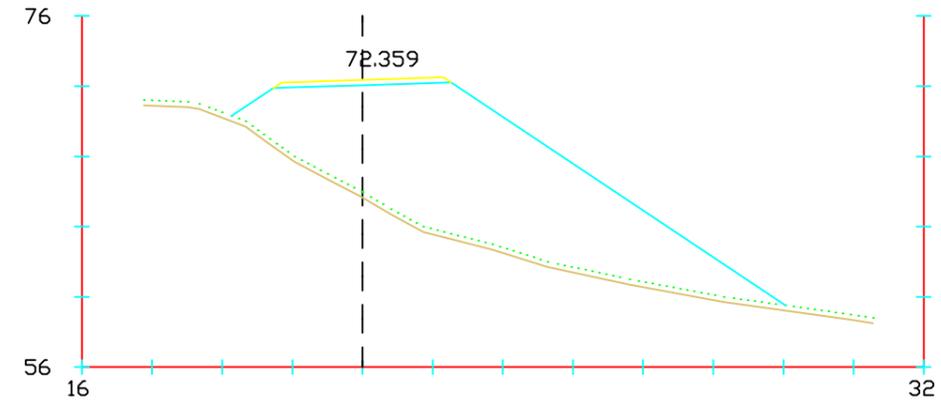
Pk=0+090

S. FIRME = 3.00 m².
 S. TERRAPLEN = 101.46 m².
 S. VEGETAL = 8.82 m².



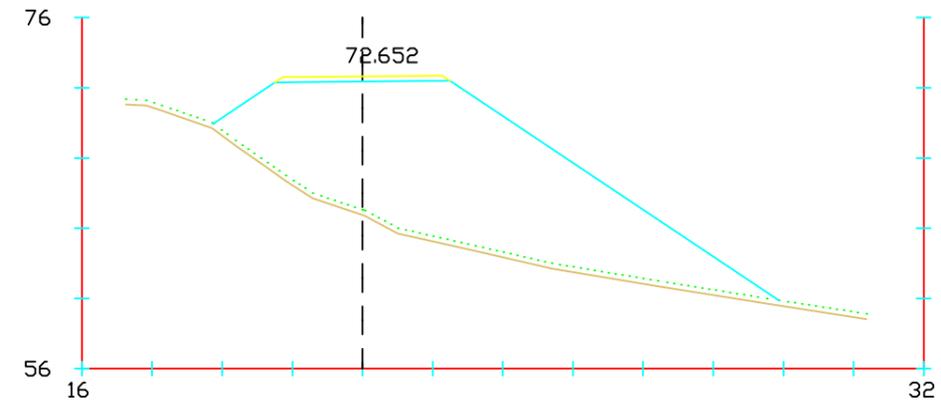
Pk=0+095

S. FIRME = 2.95 m².
 S. TERRAPLEN = 139.21 m².
 S. VEGETAL = 9.23 m².



Pk=0+100

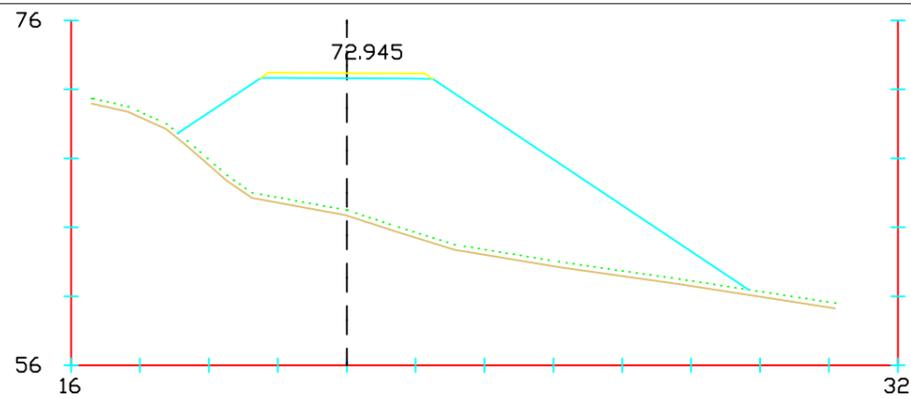
S. FIRME = 2.90 m².
 S. TERRAPLEN = 161.98 m².
 S. VEGETAL = 9.47 m².



Pk=0+105

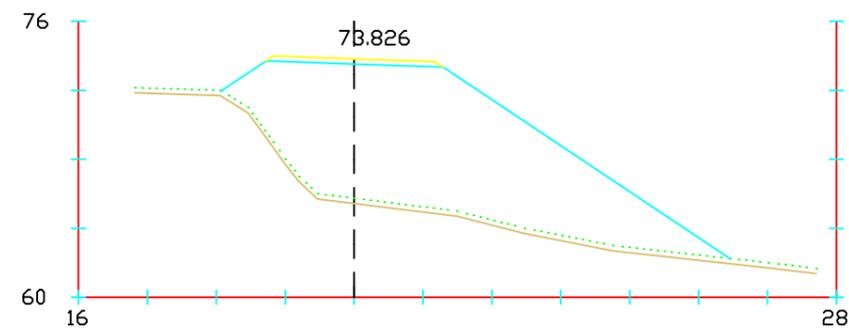
S. FIRME = 2.86 m².
 S. TERRAPLEN = 179.03 m².
 S. VEGETAL = 9.67 m².





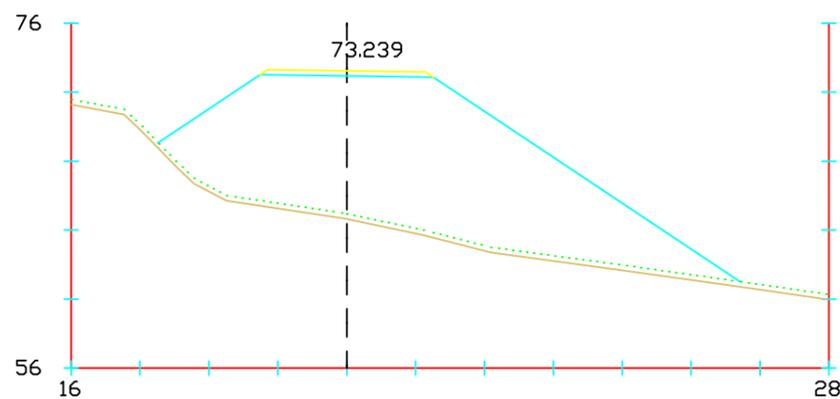
Pk=0+110

S. FIRME = 2.85 m2.
 S. TERRAPLEN = 192.24 m2.
 S. VEGETAL = 9.95 m2.



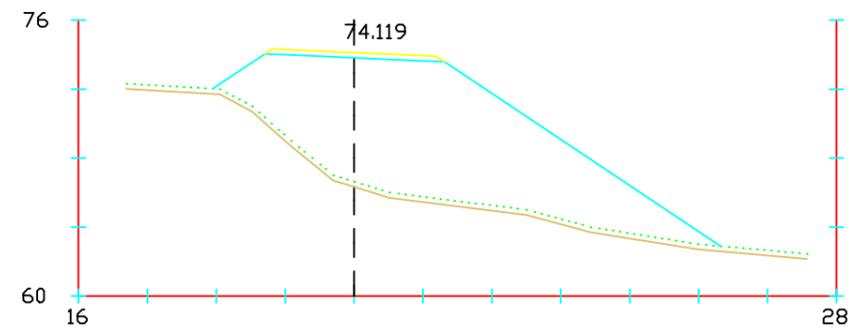
Pk=0+125

S. FIRME = 2.96 m2.
 S. TERRAPLEN = 161.87 m2.
 S. VEGETAL = 8.87 m2.



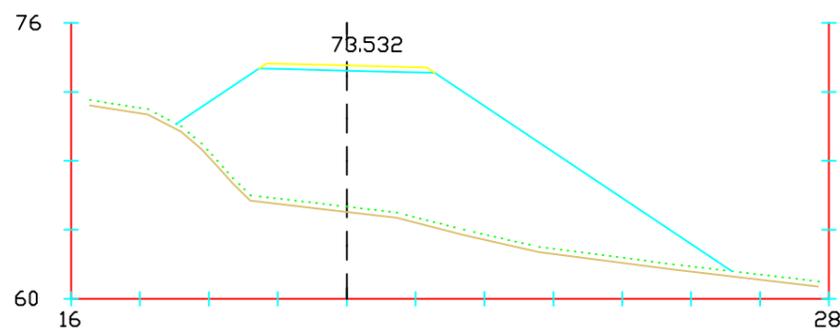
Pk=0+115

S. FIRME = 2.89 m2.
 S. TERRAPLEN = 199.27 m2.
 S. VEGETAL = 10.14 m2.



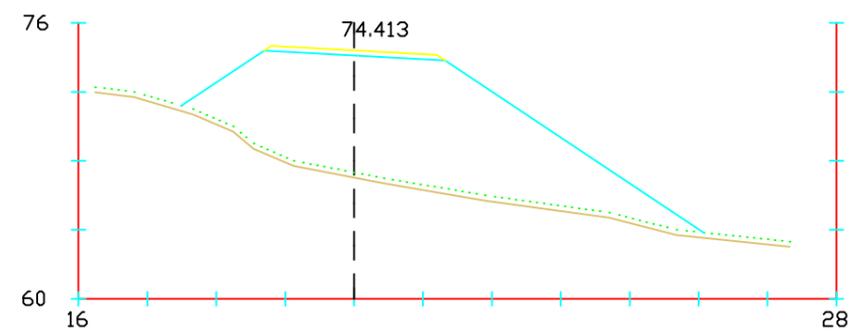
Pk=0+130

S. FIRME = 2.99 m2.
 S. TERRAPLEN = 148.43 m2.
 S. VEGETAL = 8.85 m2.



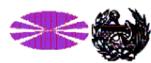
Pk=0+120

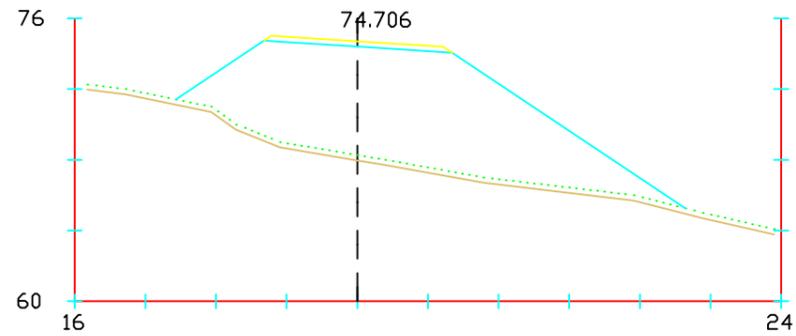
S. FIRME = 2.92 m2.
 S. TERRAPLEN = 187.67 m2.
 S. VEGETAL = 9.68 m2.



Pk=0+135

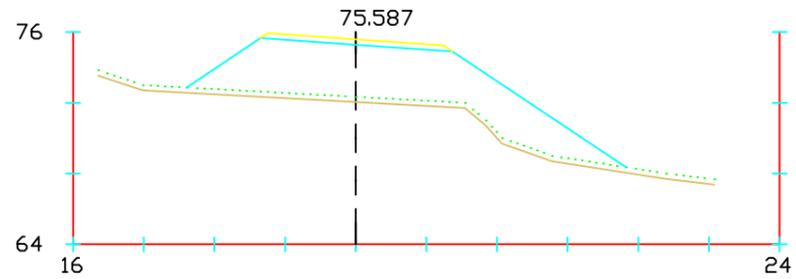
S. FIRME = 3.02 m2.
 S. TERRAPLEN = 147.64 m2.
 S. VEGETAL = 9.10 m2.





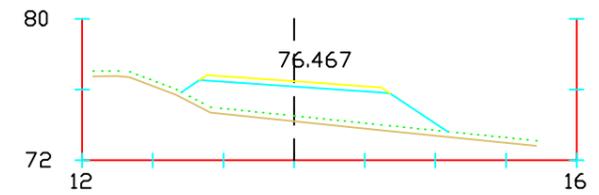
Pk=0+140

S. FIRME = 3.06 m2.
 S. TERRAPLEN = 129.99 m2.
 S. VEGETAL = 8.66 m2.



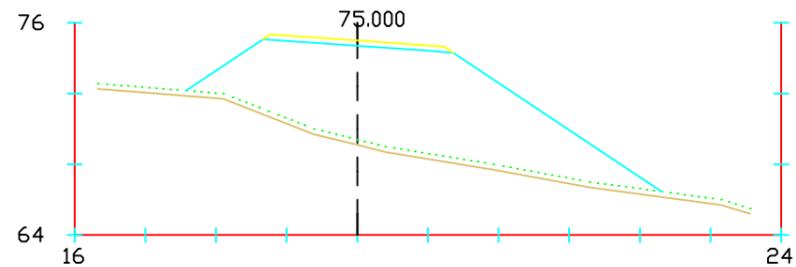
Pk=0+155

S. FIRME = 3.12 m2.
 S. TERRAPLEN = 65.14 m2.
 S. VEGETAL = 7.47 m2.



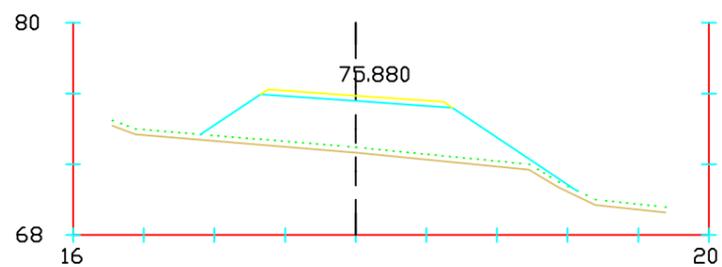
Pk=0+170

S. FIRME = 3.10 m2.
 S. TERRAPLEN = 26.00 m2.
 S. VEGETAL = 4.52 m2.



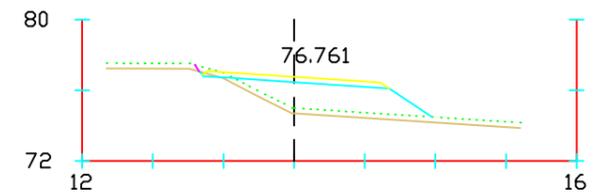
Pk=0+145

S. FIRME = 3.09 m2.
 S. TERRAPLEN = 107.64 m2.
 S. VEGETAL = 8.08 m2.



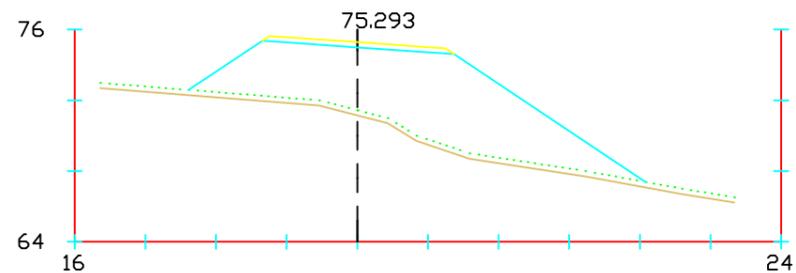
Pk=0+160

S. FIRME = 3.12 m2.
 S. TERRAPLEN = 46.60 m2.
 S. VEGETAL = 6.39 m2.



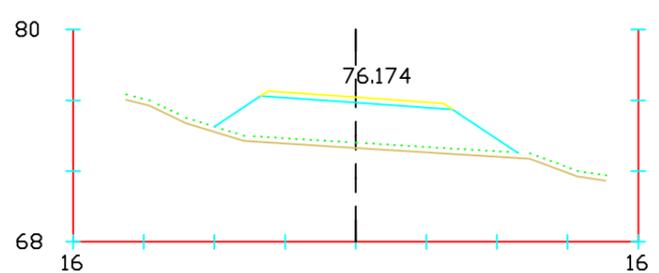
Pk=0+175

S. FIRME = 3.06 m2.
 S. D TIERRA = 0.12 m2.
 S. TERRAPLEN = 15.76 m2.
 S. VEGETAL = 3.99 m2.



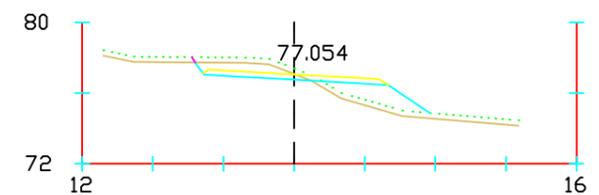
Pk=0+150

S. FIRME = 3.12 m2.
 S. TERRAPLEN = 85.00 m2.
 S. VEGETAL = 7.77 m2.



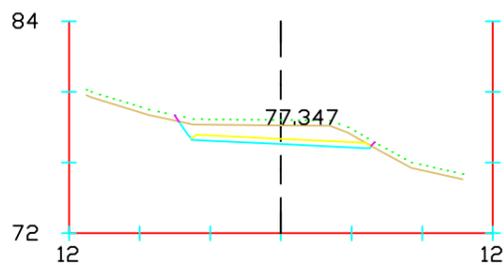
Pk=0+165

S. FIRME = 3.12 m2.
 S. TERRAPLEN = 37.04 m2.
 S. VEGETAL = 5.14 m2.



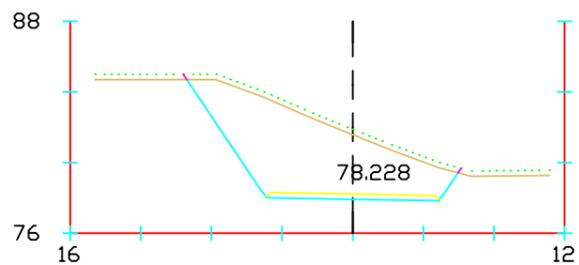
Pk=0+180

S. FIRME = 3.03 m2.
 S. D TIERRA = 3.91 m2.
 S. TERRAPLEN = 6.24 m2.
 S. VEGETAL = 4.02 m2.



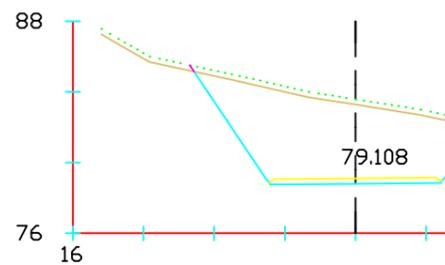
Pk=0+185

S. FIRME = 2.98 m2.
 S. D TIERRA = 9.94 m2.
 S. VEGETAL = 3.33 m2.



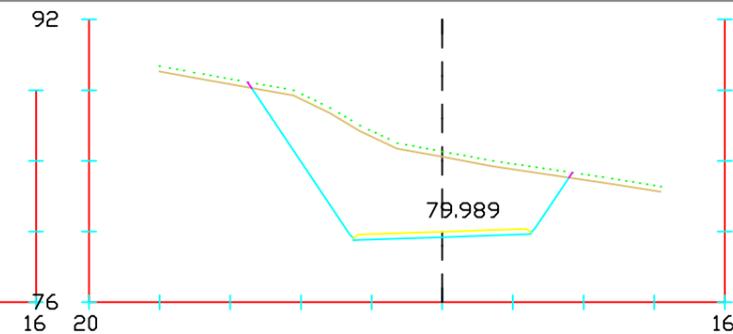
Pk=0+200

S. FIRME = 2.88 m2.
 S. D TIERRA = 50.57 m2.
 S. VEGETAL = 4.66 m2.



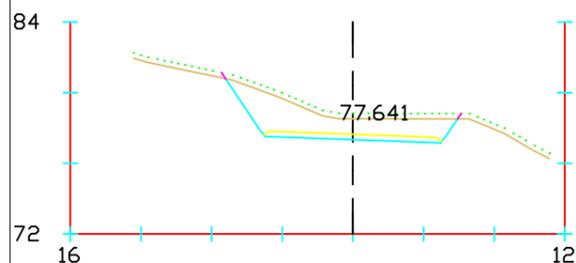
Pk=0+215

S. FIRME = 2.86 m2.
 S. D TIERRA = 59.11 m2.
 S. VEGETAL = 4.90 m2.



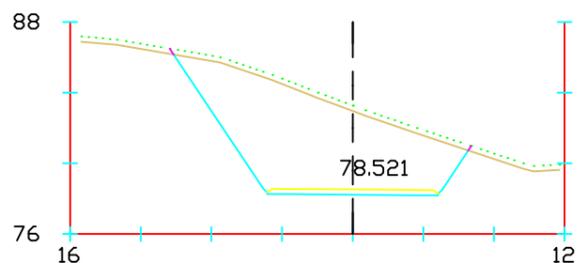
Pk=0+230

S. FIRME = 2.96 m2.
 S. D TIERRA = 70.36 m2.
 S. VEGETAL = 5.45 m2.



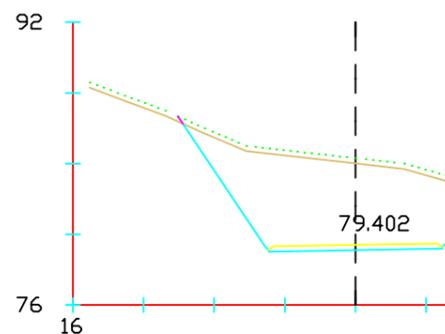
Pk=0+190

S. FIRME = 2.95 m2.
 S. D TIERRA = 18.21 m2.
 S. VEGETAL = 4.00 m2.



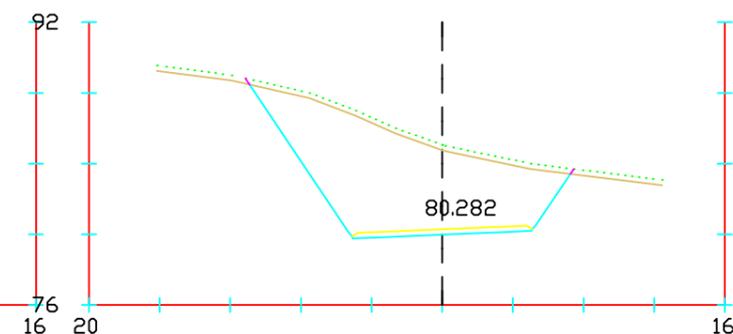
Pk=0+205

S. FIRME = 2.85 m2.
 S. D TIERRA = 66.82 m2.
 S. VEGETAL = 5.06 m2.



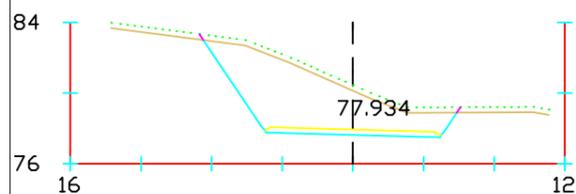
Pk=0+220

S. FIRME = 2.89 m2.
 S. D TIERRA = 64.82 m2.
 S. VEGETAL = 5.14 m2.



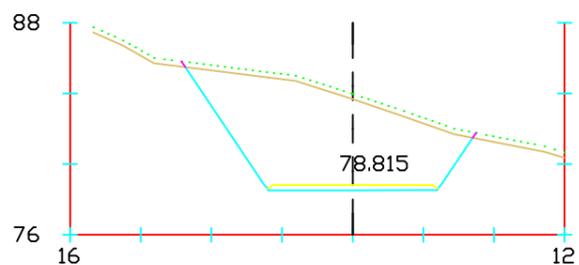
Pk=0+235

S. FIRME = 2.99 m2.
 S. D TIERRA = 75.48 m2.
 S. VEGETAL = 5.51 m2.



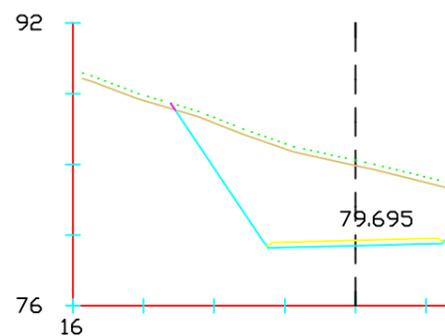
Pk=0+195

S. FIRME = 2.91 m2.
 S. D TIERRA = 34.76 m2.
 S. VEGETAL = 4.37 m2.



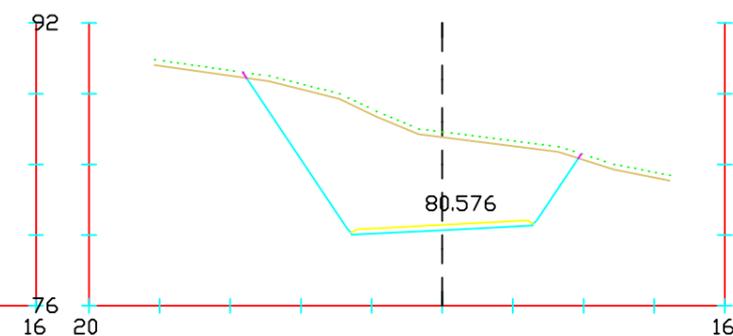
Pk=0+210

S. FIRME = 2.82 m2.
 S. D TIERRA = 67.39 m2.
 S. VEGETAL = 4.94 m2.



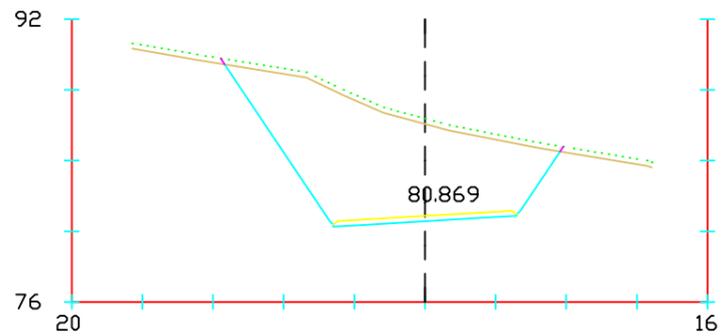
Pk=0+225

S. FIRME = 2.93 m2.
 S. D TIERRA = 63.90 m2.
 S. VEGETAL = 5.22 m2.



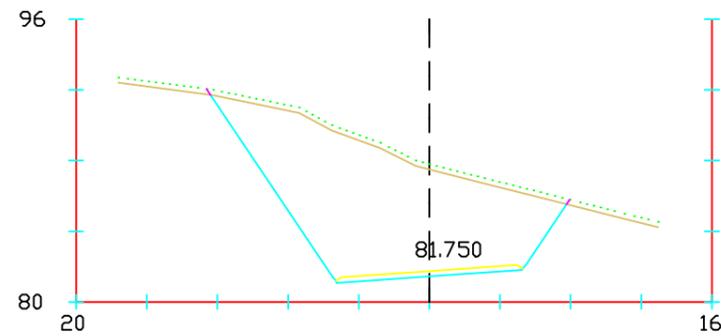
Pk=0+240

S. FIRME = 3.03 m2.
 S. D TIERRA = 84.44 m2.
 S. VEGETAL = 5.69 m2.



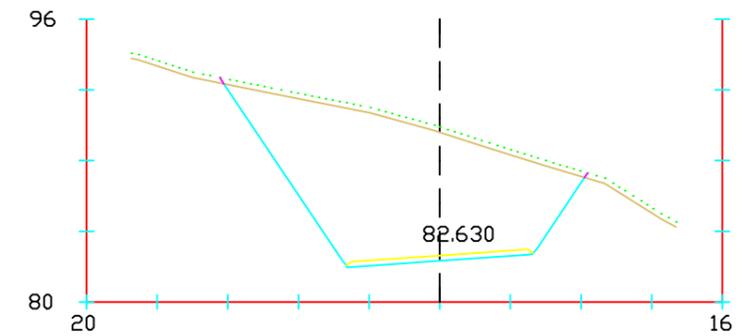
Pk=0+245

S. FIRME = 3.06 m2.
S. D TIERRA = 88.19 m2.
S. VEGETAL = 5.76 m2.



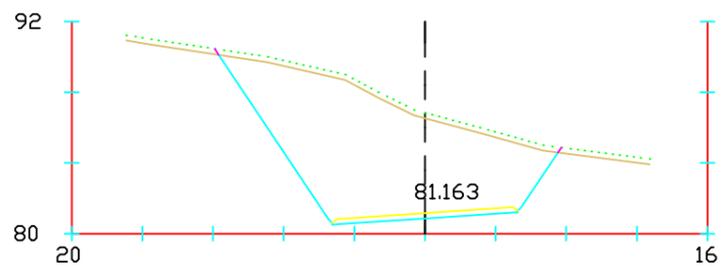
Pk=0+260

S. FIRME = 3.10 m2.
S. D TIERRA = 103.23 m2.
S. VEGETAL = 6.11 m2.



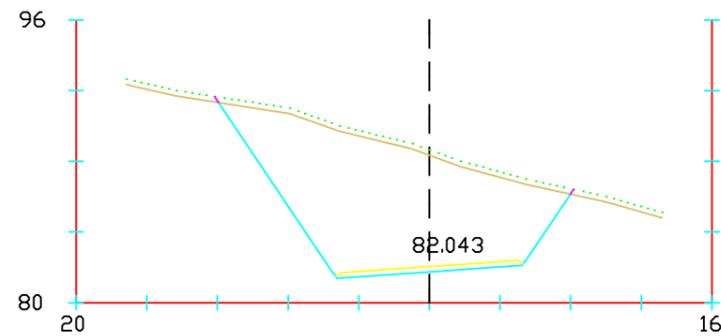
Pk=0+275

S. FIRME = 3.11 m2.
S. D TIERRA = 114.89 m2.
S. VEGETAL = 6.19 m2.



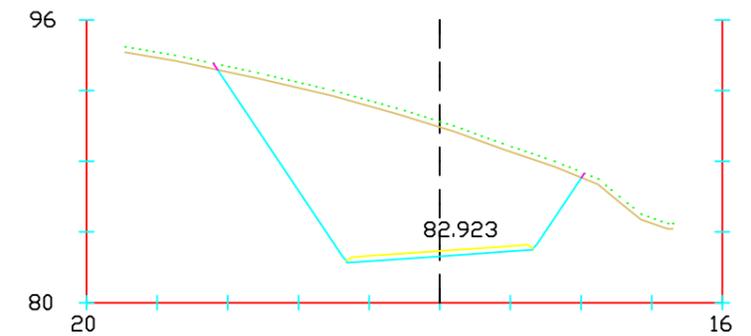
Pk=0+250

S. FIRME = 3.09 m2.
S. D TIERRA = 93.60 m2.
S. VEGETAL = 5.83 m2.



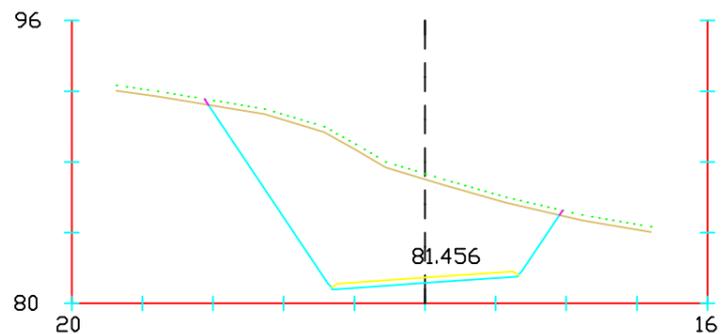
Pk=0+265

S. FIRME = 3.10 m2.
S. D TIERRA = 104.30 m2.
S. VEGETAL = 6.04 m2.



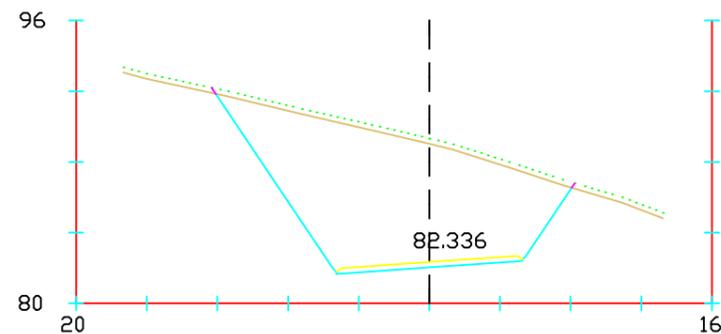
Pk=0+280

S. FIRME = 3.10 m2.
S. D TIERRA = 117.57 m2.
S. VEGETAL = 6.24 m2.



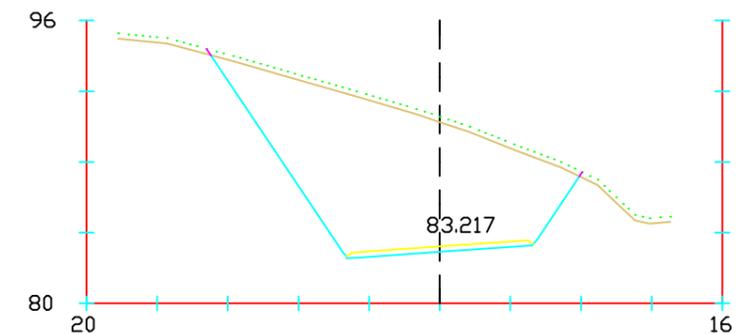
Pk=0+255

S. FIRME = 3.10 m2.
S. D TIERRA = 99.41 m2.
S. VEGETAL = 6.02 m2.



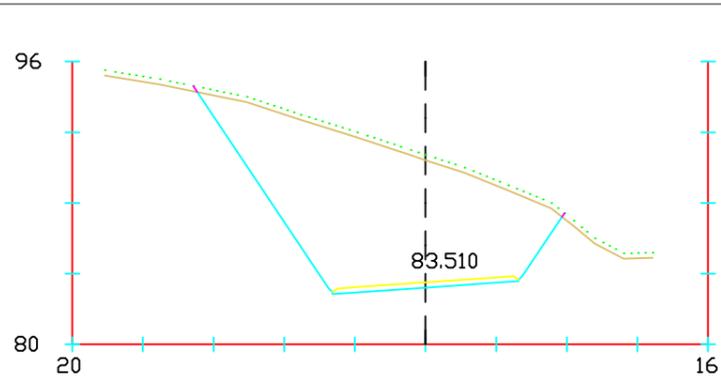
Pk=0+270

S. FIRME = 3.10 m2.
S. D TIERRA = 109.29 m2.
S. VEGETAL = 6.10 m2.



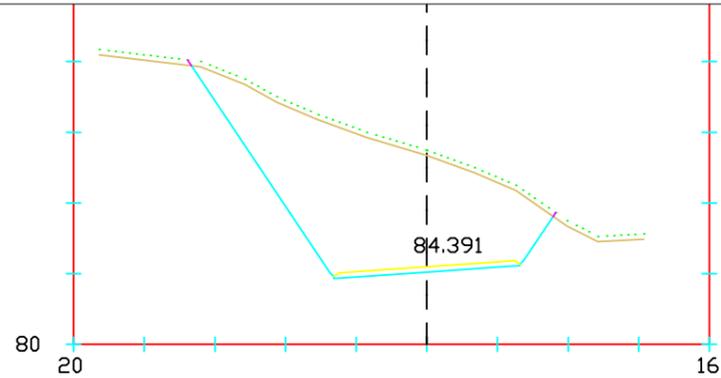
Pk=0+285

S. FIRME = 3.10 m2.
S. D TIERRA = 119.18 m2.
S. VEGETAL = 6.32 m2.



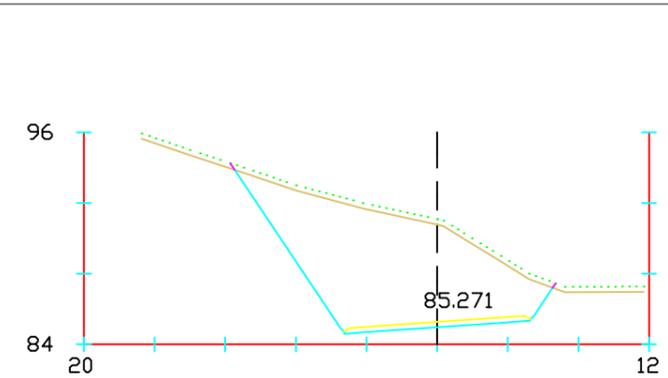
Pk=0+290

S. FIRME = 3.10 m².
 S. D TIERRA = 118.20 m².
 S. VEGETAL = 6.25 m².



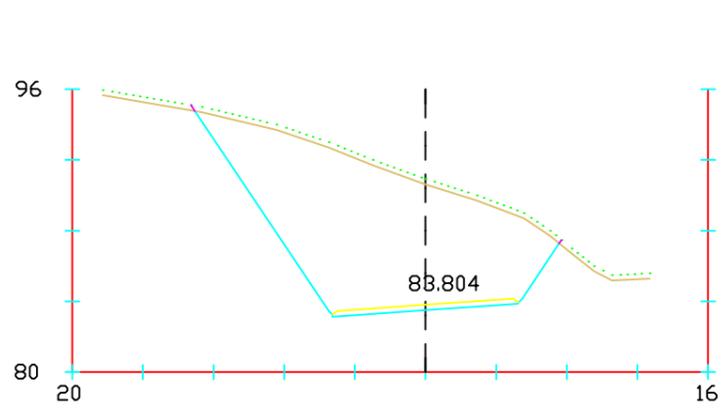
Pk=0+305

S. FIRME = 3.10 m².
 S. D TIERRA = 107.71 m².
 S. VEGETAL = 6.20 m².



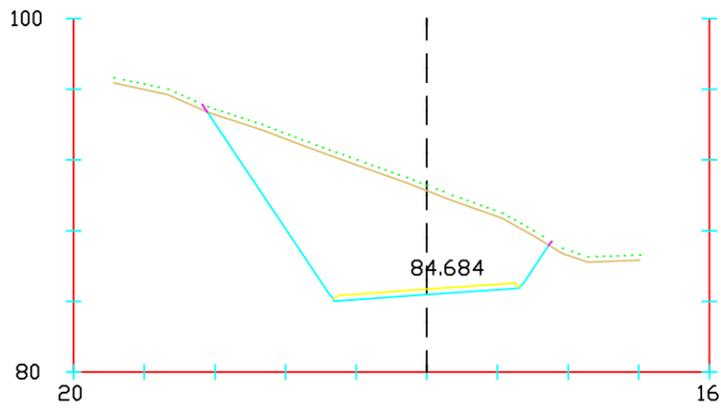
Pk=0+320

S. FIRME = 3.10 m².
 S. D TIERRA = 80.37 m².
 S. VEGETAL = 5.47 m².



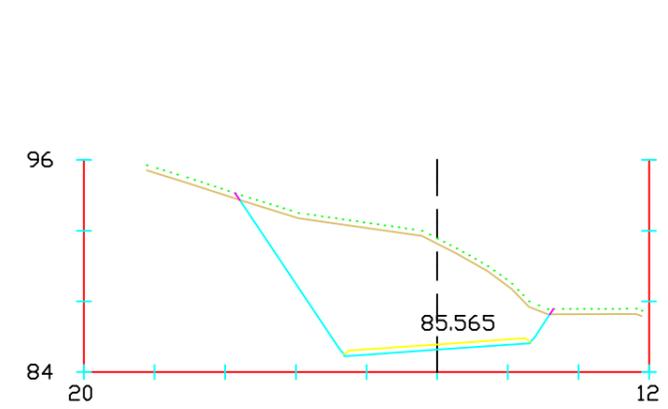
Pk=0+295

S. FIRME = 3.10 m².
 S. D TIERRA = 119.17 m².
 S. VEGETAL = 6.24 m².



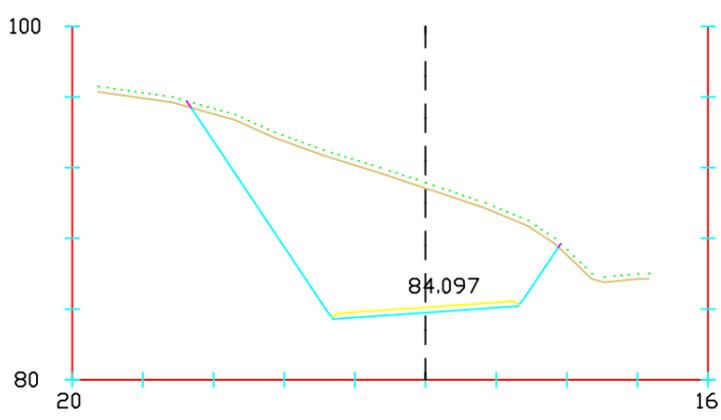
Pk=0+310

S. FIRME = 3.10 m².
 S. D TIERRA = 94.00 m².
 S. VEGETAL = 5.87 m².



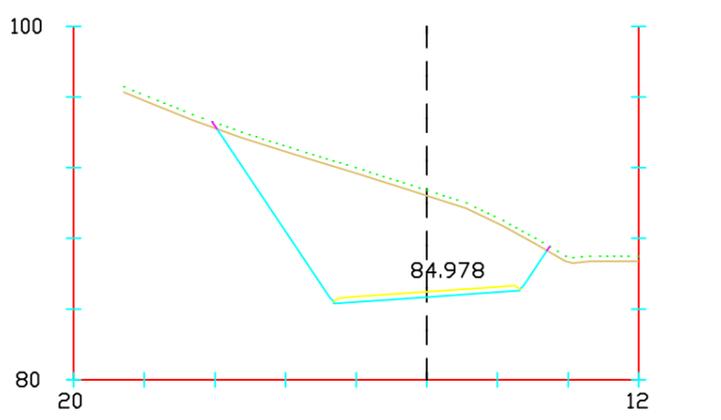
Pk=0+325

S. FIRME = 3.10 m².
 S. D TIERRA = 80.82 m².
 S. VEGETAL = 5.34 m².



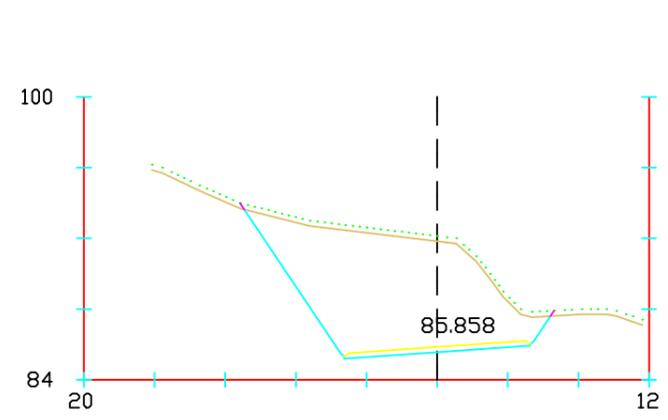
Pk=0+300

S. FIRME = 3.10 m².
 S. D TIERRA = 116.37 m².
 S. VEGETAL = 6.30 m².



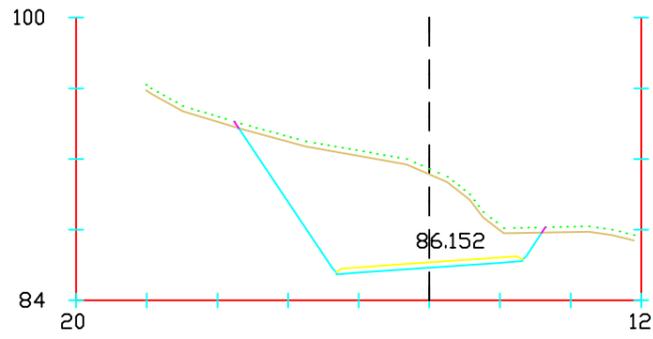
Pk=0+315

S. FIRME = 3.10 m².
 S. D TIERRA = 87.51 m².
 S. VEGETAL = 5.67 m².



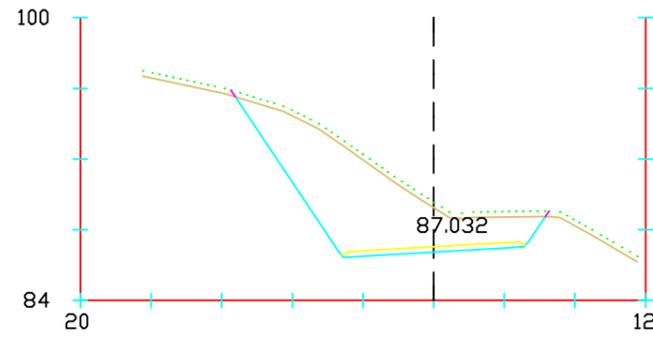
Pk=0+330

S. FIRME = 3.11 m².
 S. D TIERRA = 78.84 m².
 S. VEGETAL = 5.27 m².



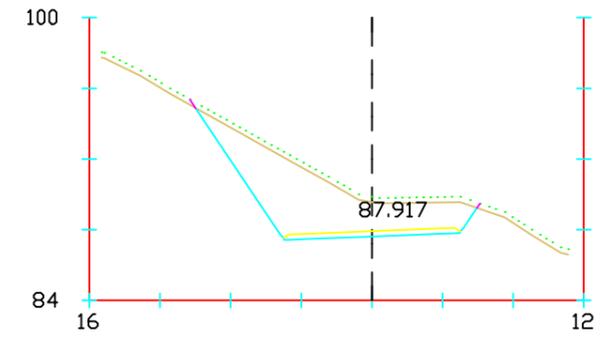
Pk=0+335

S. FIRME = 3.10 m².
 S. D TIERRA = 69.51 m².
 S. VEGETAL = 5.22 m².



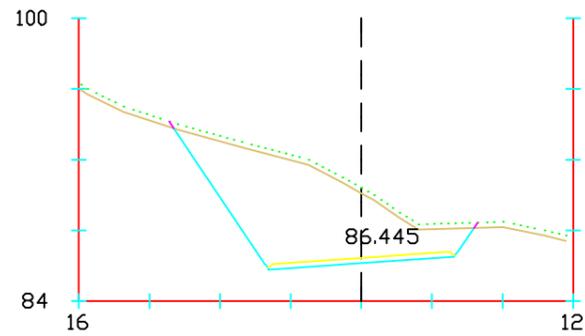
Pk=0+350

S. FIRME = 3.04 m².
 S. D TIERRA = 53.95 m².
 S. VEGETAL = 5.33 m².



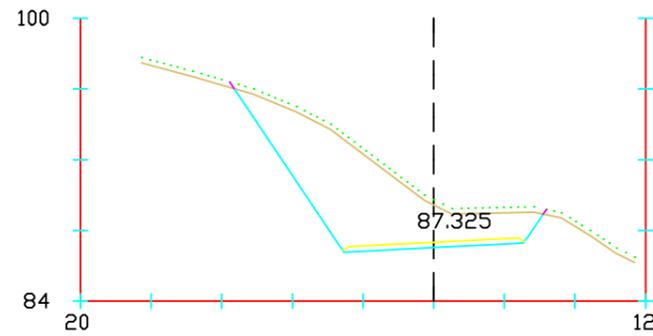
Pk=0+365

S. FIRME = 2.94 m².
 S. D TIERRA = 37.48 m².
 S. VEGETAL = 4.85 m².



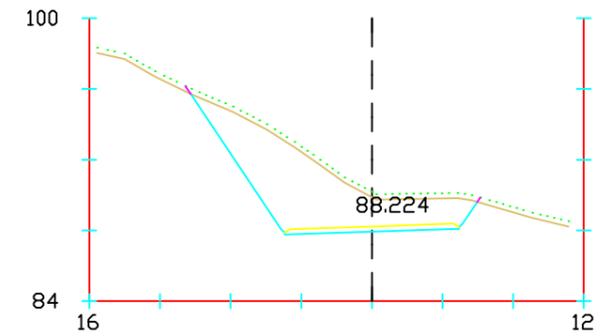
Pk=0+340

S. FIRME = 3.10 m².
 S. D TIERRA = 59.27 m².
 S. VEGETAL = 5.17 m².



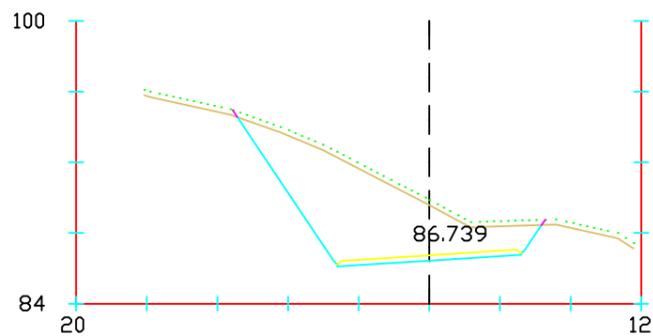
Pk=0+355

S. FIRME = 3.00 m².
 S. D TIERRA = 53.68 m².
 S. VEGETAL = 5.31 m².



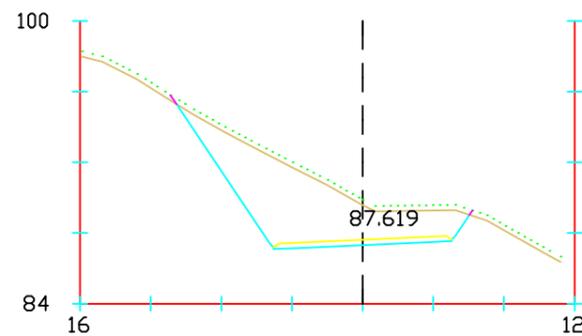
Pk=0+370

S. FIRME = 2.90 m².
 S. D TIERRA = 41.83 m².
 S. VEGETAL = 4.94 m².



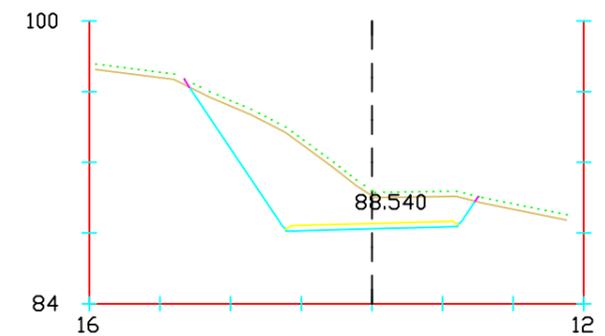
Pk=0+345

S. FIRME = 3.07 m².
 S. D TIERRA = 53.61 m².
 S. VEGETAL = 5.24 m².



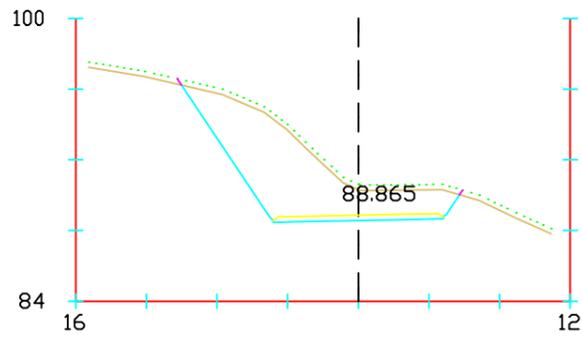
Pk=0+360

S. FIRME = 2.97 m².
 S. D TIERRA = 43.05 m².
 S. VEGETAL = 5.05 m².



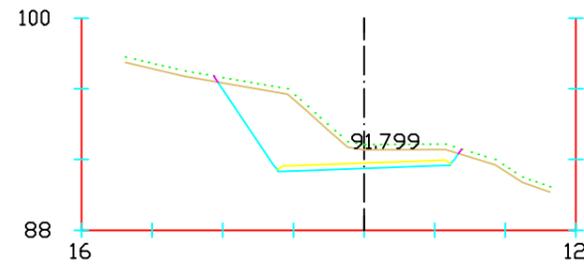
Pk=0+375

S. FIRME = 2.87 m².
 S. D TIERRA = 42.63 m².
 S. VEGETAL = 4.92 m².



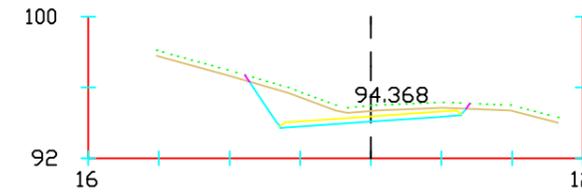
Pk=0+380

S. FIRME = 2.83 m2.
 S. D TIERRA = 42.77 m2.
 S. VEGETAL = 4.79 m2.



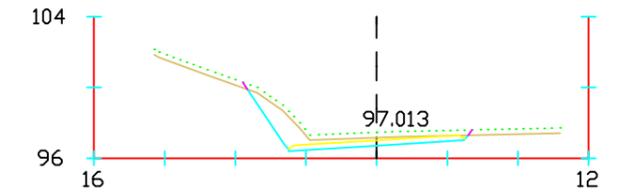
Pk=0+420

S. FIRME = 2.88 m2.
 S. D TIERRA = 25.53 m2.
 S. VEGETAL = 4.15 m2.



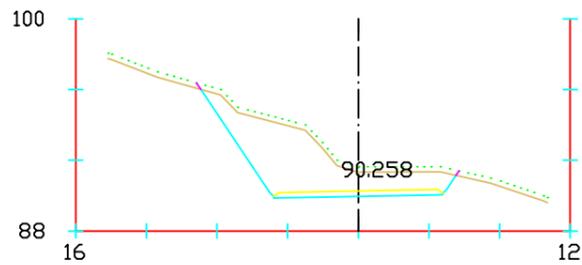
Pk=0+450

S. FIRME = 3.02 m2.
 S. D TIERRA = 10.46 m2.
 S. VEGETAL = 3.75 m2.



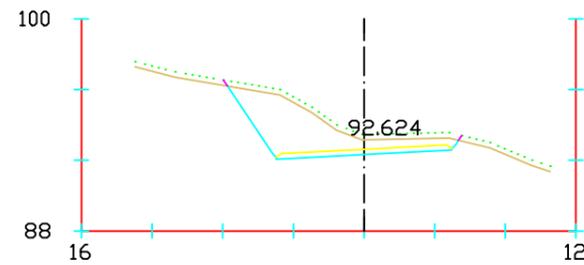
Pk=0+480

S. FIRME = 2.93 m2.
 S. D TIERRA = 7.77 m2.
 S. VEGETAL = 3.82 m2.



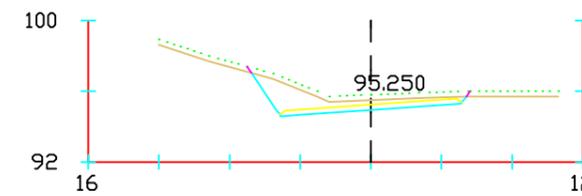
Pk=0+400

S. FIRME = 2.82 m2.
 S. D TIERRA = 29.52 m2.
 S. VEGETAL = 4.40 m2.



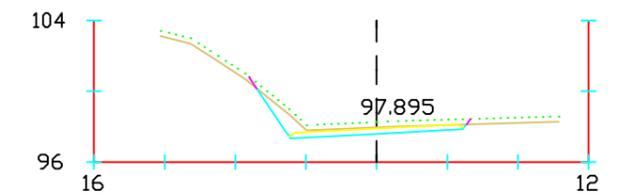
Pk=0+430

S. FIRME = 2.93 m2.
 S. D TIERRA = 19.84 m2.
 S. VEGETAL = 3.99 m2.



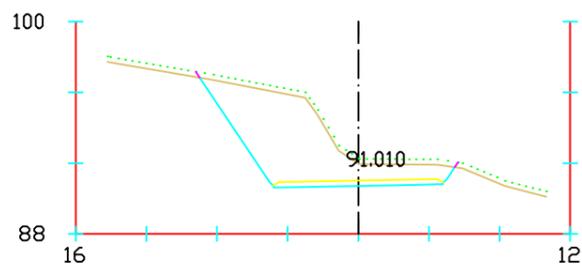
Pk=0+460

S. FIRME = 3.02 m2.
 S. D TIERRA = 9.06 m2.
 S. VEGETAL = 3.72 m2.



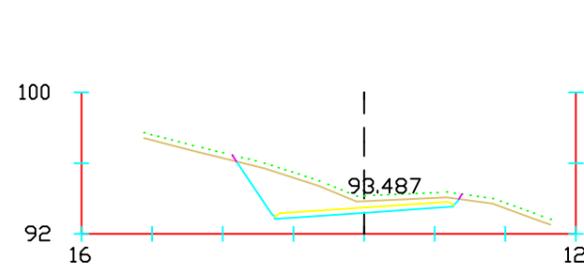
Pk=0+490

S. FIRME = 2.88 m2.
 S. D TIERRA = 5.16 m2.
 S. VEGETAL = 3.66 m2.



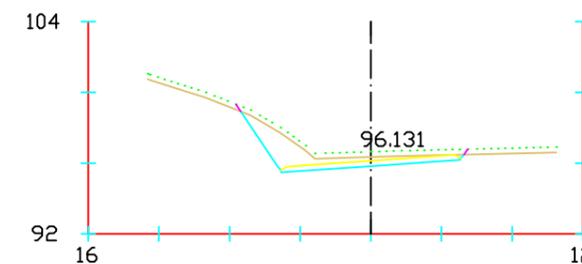
Pk=0+410

S. FIRME = 2.83 m2.
 S. D TIERRA = 35.35 m2.
 S. VEGETAL = 4.39 m2.



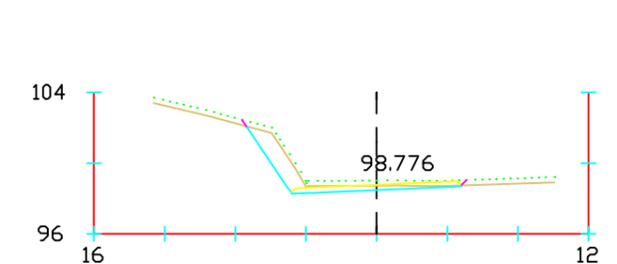
Pk=0+440

S. FIRME = 2.98 m2.
 S. D TIERRA = 14.28 m2.
 S. VEGETAL = 3.84 m2.



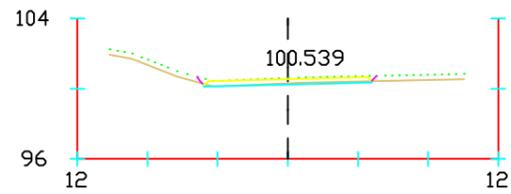
Pk=0+470

S. FIRME = 2.98 m2.
 S. D TIERRA = 9.25 m2.
 S. VEGETAL = 3.87 m2.



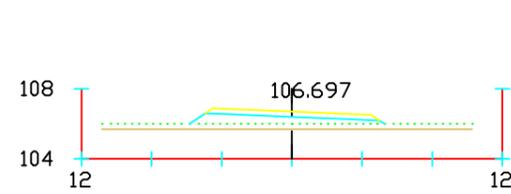
Pk=0+500

S. FIRME = 2.83 m2.
 S. D TIERRA = 5.98 m2.
 S. VEGETAL = 3.73 m2.



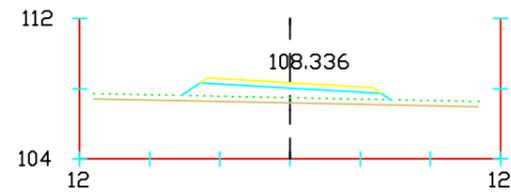
Pk=0+520

S. FIRME = 2.82 m2.
S. D TIERRA = 0.55 m2.
S. VEGETAL = 2.99 m2.



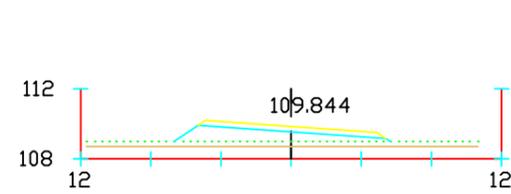
Pk=0+590

S. FIRME = 2.84 m2.
S. TERRAPLEN = 7.56 m2.
S. VEGETAL = 3.33 m2.



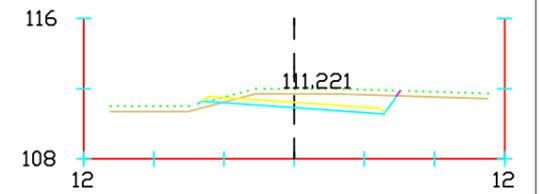
Pk=0+610

S. FIRME = 2.96 m2.
S. TERRAPLEN = 9.69 m2.
S. VEGETAL = 3.58 m2.



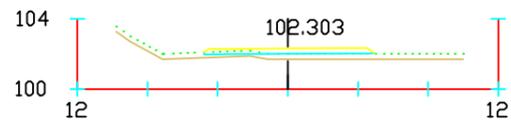
Pk=0+630

S. FIRME = 3.07 m2.
S. TERRAPLEN = 10.13 m2.
S. VEGETAL = 3.70 m2.



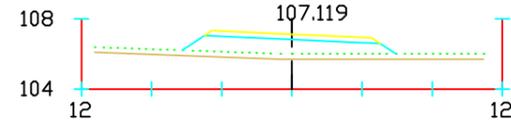
Pk=0+650

S. FIRME = 3.04 m2.
S. D TIERRA = 7.31 m2.
S. TERRAPLEN = 0.30 m2.
S. VEGETAL = 3.43 m2.



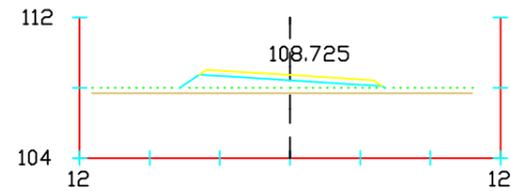
Pk=0+540

S. FIRME = 2.82 m2.
S. TERRAPLEN = 2.52 m2.
S. VEGETAL = 2.93 m2.



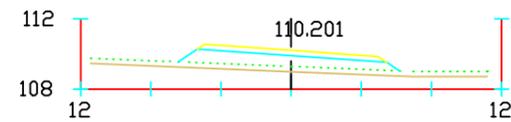
Pk=0+595

S. FIRME = 2.87 m2.
S. TERRAPLEN = 12.34 m2.
S. VEGETAL = 3.65 m2.



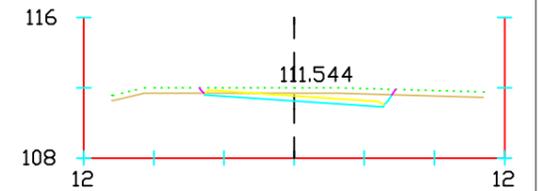
Pk=0+615

S. FIRME = 2.99 m2.
S. TERRAPLEN = 8.33 m2.
S. VEGETAL = 3.50 m2.



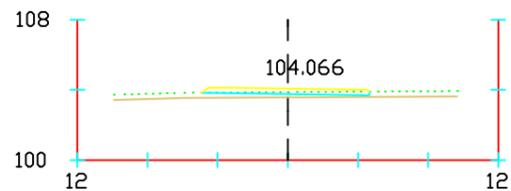
Pk=0+635

S. FIRME = 3.10 m2.
S. TERRAPLEN = 11.00 m2.
S. VEGETAL = 3.78 m2.



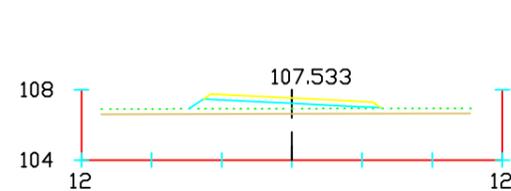
Pk=0+655

S. FIRME = 3.01 m2.
S. D TIERRA = 4.71 m2.
S. VEGETAL = 3.29 m2.



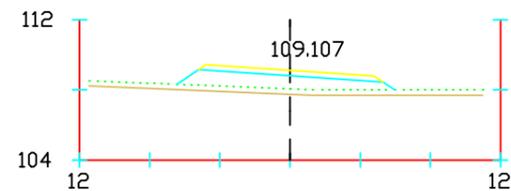
Pk=0+560

S. FIRME = 2.80 m2.
S. TERRAPLEN = 1.88 m2.
S. VEGETAL = 2.87 m2.



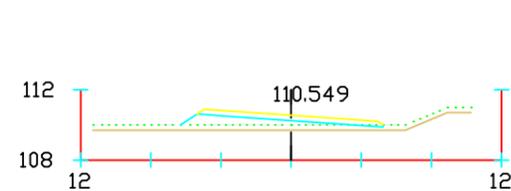
Pk=0+600

S. FIRME = 2.90 m2.
S. TERRAPLEN = 6.57 m2.
S. VEGETAL = 3.31 m2.



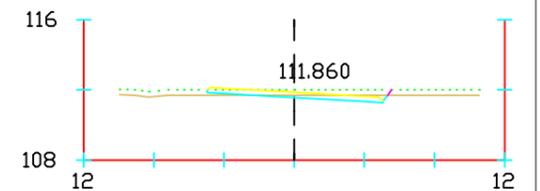
Pk=0+620

S. FIRME = 3.02 m2.
S. TERRAPLEN = 12.03 m2.
S. VEGETAL = 3.73 m2.



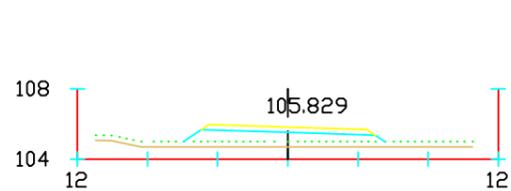
Pk=0+640

S. FIRME = 3.09 m2.
S. TERRAPLEN = 6.43 m2.
S. VEGETAL = 3.46 m2.



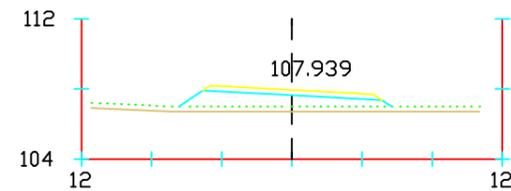
Pk=0+660

S. FIRME = 2.97 m2.
S. D TIERRA = 1.66 m2.
S. TERRAPLEN = 0.18 m2.
S. VEGETAL = 3.12 m2.



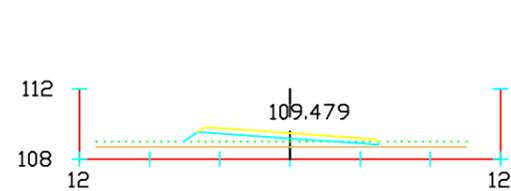
Pk=0+580

S. FIRME = 2.84 m2.
S. TERRAPLEN = 9.13 m2.
S. VEGETAL = 3.45 m2.



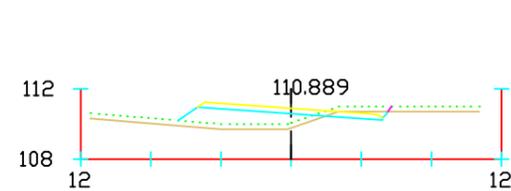
Pk=0+605

S. FIRME = 2.93 m2.
S. TERRAPLEN = 10.87 m2.
S. VEGETAL = 3.64 m2.



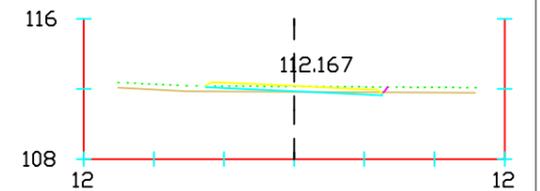
Pk=0+625

S. FIRME = 3.02 m2.
S. TERRAPLEN = 5.49 m2.
S. VEGETAL = 3.34 m2.



Pk=0+645

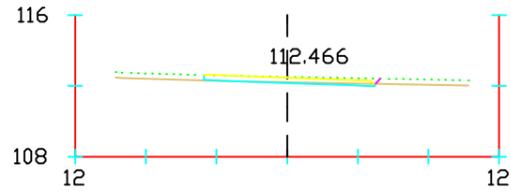
S. FIRME = 3.07 m2.
S. D TIERRA = 1.14 m2.
S. TERRAPLEN = 7.28 m2.
S. VEGETAL = 3.62 m2.



Pk=0+665

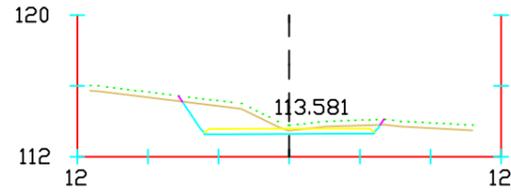
S. FIRME = 2.95 m2.
S. D TIERRA = 0.38 m2.
S. TERRAPLEN = 0.68 m2.
S. VEGETAL = 3.08 m2.





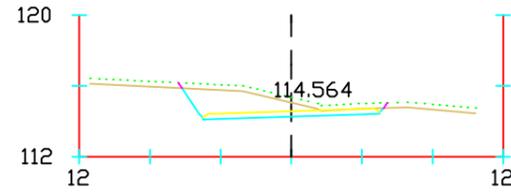
Pk=0+670

S. FIRME = 2.88 m2.
 S. D TIERRA = 0.49 m2.
 S. TERRAPLEN = 0.04 m2.
 S. VEGETAL = 2.96 m2.



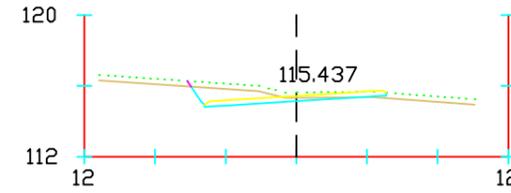
Pk=0+690

S. FIRME = 2.83 m2.
 S. D TIERRA = 8.35 m2.
 S. VEGETAL = 3.43 m2.



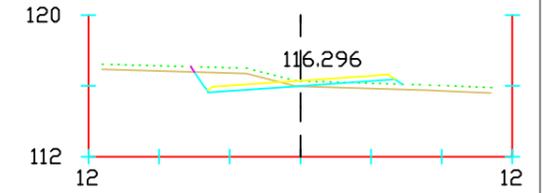
Pk=0+710

S. FIRME = 2.94 m2.
 S. D TIERRA = 9.78 m2.
 S. VEGETAL = 3.49 m2.



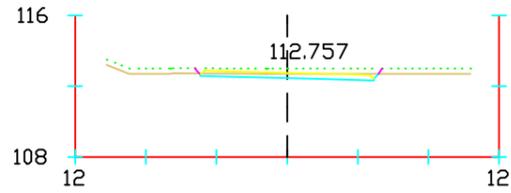
Pk=0+730

S. FIRME = 3.05 m2.
 S. D TIERRA = 4.33 m2.
 S. TERRAPLEN = 0.08 m2.
 S. VEGETAL = 3.35 m2.



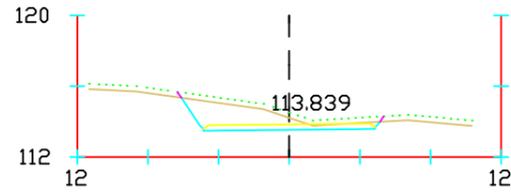
Pk=0+750

S. FIRME = 3.09 m2.
 S. D TIERRA = 3.95 m2.
 S. TERRAPLEN = 1.73 m2.
 S. VEGETAL = 3.56 m2.



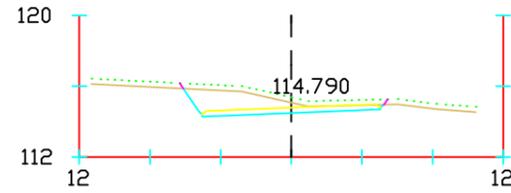
Pk=0+675

S. FIRME = 2.89 m2.
 S. D TIERRA = 2.46 m2.
 S. VEGETAL = 3.11 m2.



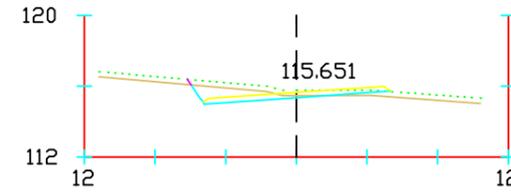
Pk=0+695

S. FIRME = 2.86 m2.
 S. D TIERRA = 8.94 m2.
 S. VEGETAL = 3.44 m2.



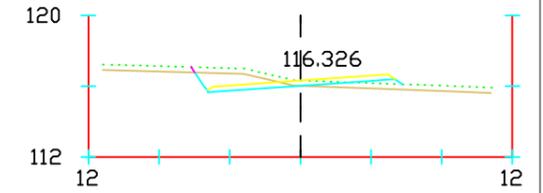
Pk=0+715

S. FIRME = 2.97 m2.
 S. D TIERRA = 8.33 m2.
 S. VEGETAL = 3.47 m2.



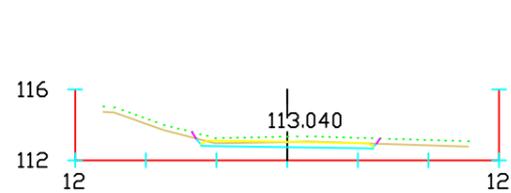
Pk=0+735

S. FIRME = 3.09 m2.
 S. D TIERRA = 3.50 m2.
 S. TERRAPLEN = 0.51 m2.
 S. VEGETAL = 3.44 m2.



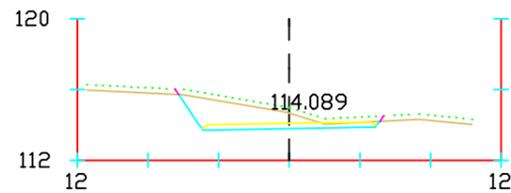
Pk=0+750.700

S. FIRME = 3.09 m2.
 S. D TIERRA = 3.77 m2.
 S. TERRAPLEN = 1.71 m2.
 S. VEGETAL = 3.56 m2.



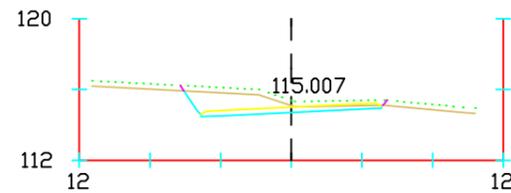
Pk=0+680

S. FIRME = 2.87 m2.
 S. D TIERRA = 2.67 m2.
 S. VEGETAL = 3.13 m2.



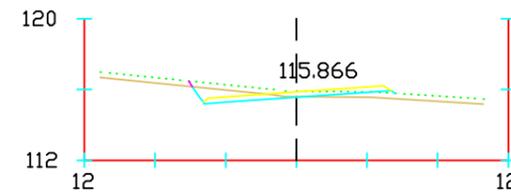
Pk=0+700

S. FIRME = 2.89 m2.
 S. D TIERRA = 9.83 m2.
 S. VEGETAL = 3.48 m2.



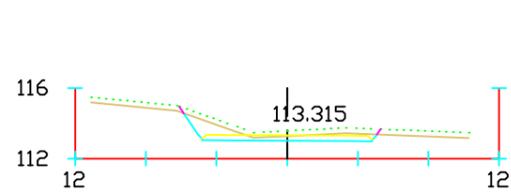
Pk=0+720

S. FIRME = 3.00 m2.
 S. D TIERRA = 7.27 m2.
 S. VEGETAL = 3.44 m2.



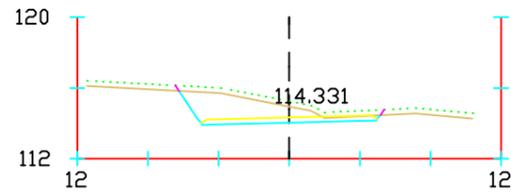
Pk=0+740

S. FIRME = 3.09 m2.
 S. D TIERRA = 2.64 m2.
 S. TERRAPLEN = 1.04 m2.
 S. VEGETAL = 3.47 m2.



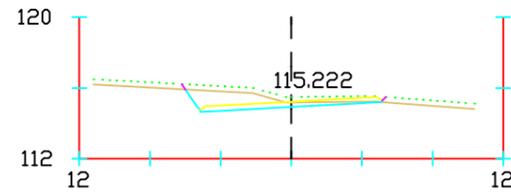
Pk=0+685

S. FIRME = 2.84 m2.
 S. D TIERRA = 4.72 m2.
 S. VEGETAL = 3.35 m2.



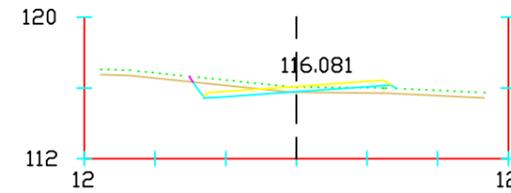
Pk=0+705

S. FIRME = 2.92 m2.
 S. D TIERRA = 10.40 m2.
 S. VEGETAL = 3.49 m2.



Pk=0+725

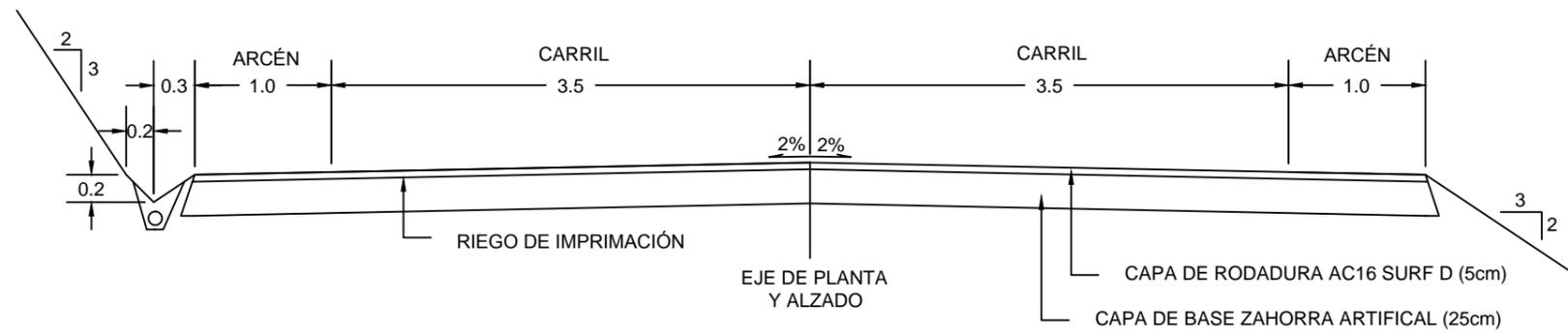
S. FIRME = 3.03 m2.
 S. D TIERRA = 5.59 m2.
 S. VEGETAL = 3.40 m2.



Pk=0+745

S. FIRME = 3.09 m2.
 S. D TIERRA = 2.34 m2.
 S. TERRAPLEN = 1.43 m2.
 S. VEGETAL = 3.48 m2.

SECCIÓN TIPO TRONCO EN RECTA



SECCIÓN TIPO TRONCO EN CURVA

