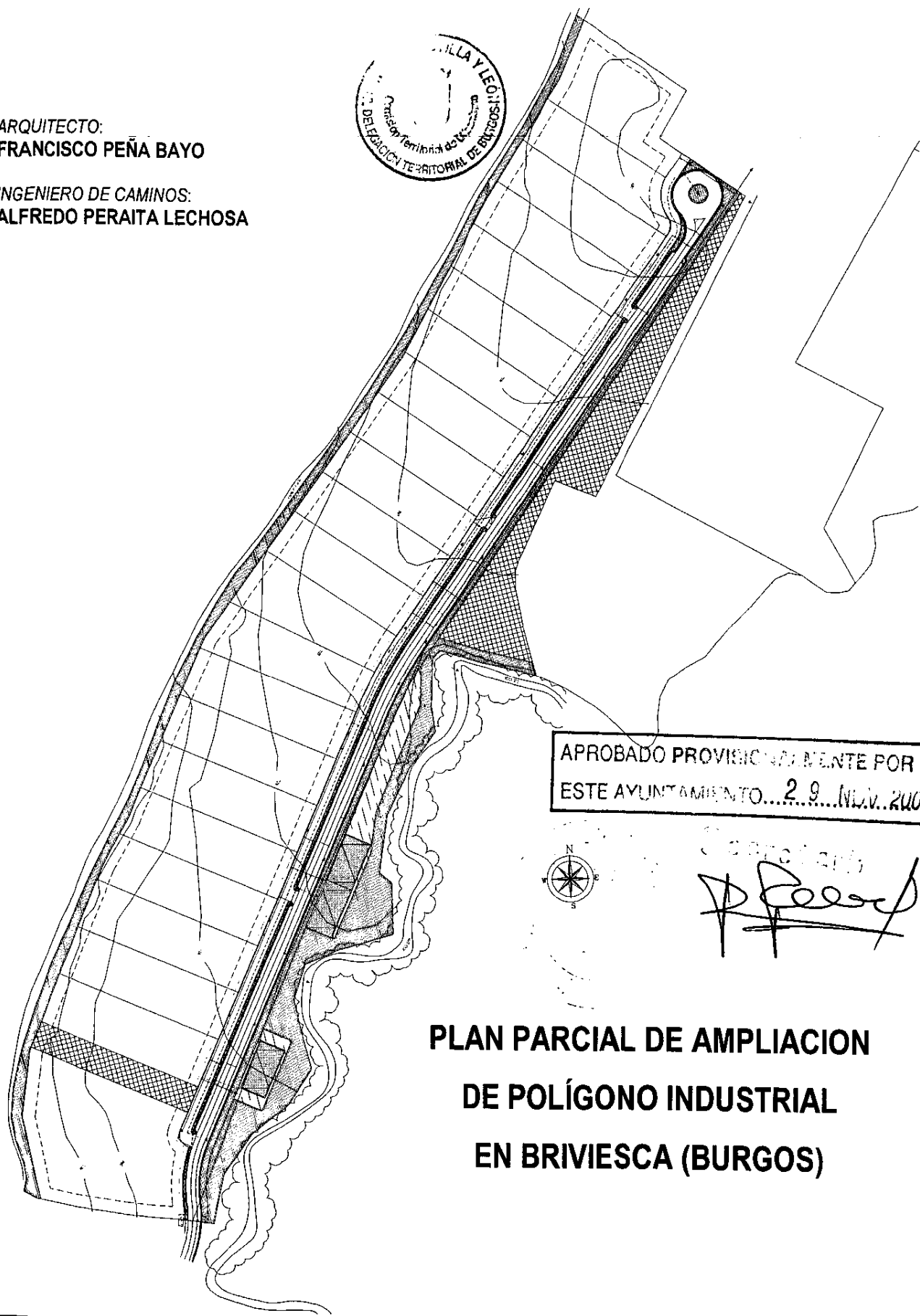


ARQUITECTO:  
**FRANCISCO PEÑA BAYO**

INGENIERO DE CAMINOS:  
**ALFREDO PERAITA LECHOSA**



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO... 29... NOV. 2005



*Alfredo Peraita Lechosa*  
*[Signature]*

**PLAN PARCIAL DE AMPLIACION  
DE POLÍGONO INDUSTRIAL  
EN BRIVIESCA (BURGOS)**

PLAN PARCIAL DE AMPLIACION DE POLIGONO INDUSTRIAL EN BRIVIESCA (BURGOS)



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 20 NOV 2005



Secretaría

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PLAN PARCIAL DE AMPLIACION DE  
POLIGONO INDUSTRIAL EN BRIVIESCA  
(BURGOS)

Arquitecto: Francisco Peña Bayo  
Ingeniero de Caminos: Alfredo Peraita Lechosa

## INDICE GENERAL

**DOCUMENTO Nº 1: Memoria descriptiva y justificativa.**

**DOCUMENTO Nº 2: Ordenanzas reguladoras.**

**DOCUMENTO Nº 3: Plan de etapas.**

**DOCUMENTO Nº 4: Anejos**

Anejo nº 1: Prescripciones del Plan General

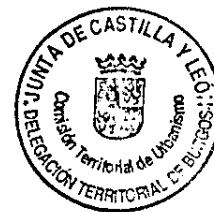
Anejo nº 2: Cuadro de superficies y estudio económico

Anejo nº 3: Información Catastral y Nota Simple del Registro de la Propiedad

Anejo nº 4: Condiciones de reparcelación para parcelas nido

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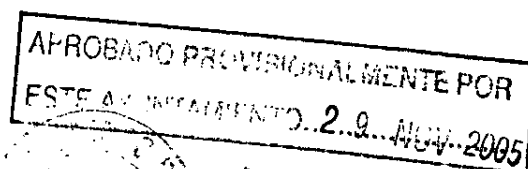
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**Planos de información**

1. Situación y emplazamiento
2. Clasificación del suelo
3. Catastral
4. Topográfico
5. Edificaciones e infraestructuras existentes



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**Planos de ordenación**

1. Zonificación
2. Parcelación
3. Alineaciones, rasantes y secciones tipo
4. Perfiles longitudinales
5. Abastecimiento y Saneamiento
6. Energía eléctrica y alumbrado
7. Telecomunicaciones



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 NOV. 2005

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**DOCUMENTO Nº 1**  
**MEMORIA DESCRIPTIVA Y JUSTIFICATIVA**

## MEMORIA DESCRIPTIVA Y JUSTIFICATIVA

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#### 1.- INTRODUCCIÓN

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#### 2.- PROCEDENCIA DE LA FORMULACION DEL PLAN PARCIAL

#### 3.- DELIMITACIÓN DEL ÁREA DE PLANEAMIENTO

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##### 4.1.- TOPOGRAFIA DE LOS TERRENOS

##### 4.2.- ESTADO ACTUAL DE LOS TERRENOS Y SU ENTORNO

##### 4.2.1.- VEGETACIÓN Y CULTIVOS

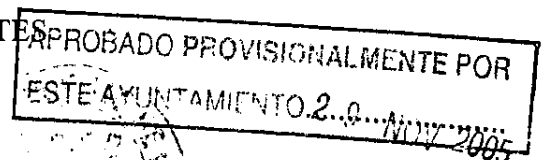
##### 4.2.2.- USOS Y EDIFICACIONES

##### 4.2.3.- INFRAESTRUCTURAS EXISTENTES

##### 4.3.- ESTRUCTURA DE LA PROPIEDAD

#### 5.- PLANEAMIENTO MUNICIPAL DE APLICACIÓN

#### 6.- CONDICIONANTES DE LA ORDENACIÓN DERIVADOS DE LA



Secretario

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## SITUACIÓN ACTUAL

## 7.- CRITERIOS Y ALTERNATIVAS DE LA ORDENACIÓN

8.- JUSTIFICACIÓN Y DESCRIPCIÓN DE LA ORDENACIÓN  
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8.4.- DOTACIONES

8.5.- EL ESQUEMA VIARIO

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11.- EJECUCIÓN POR UNIDADES DE ACTUACIÓN Y DETERMINACIÓN DEL  
SISTEMA DE ACTUACION

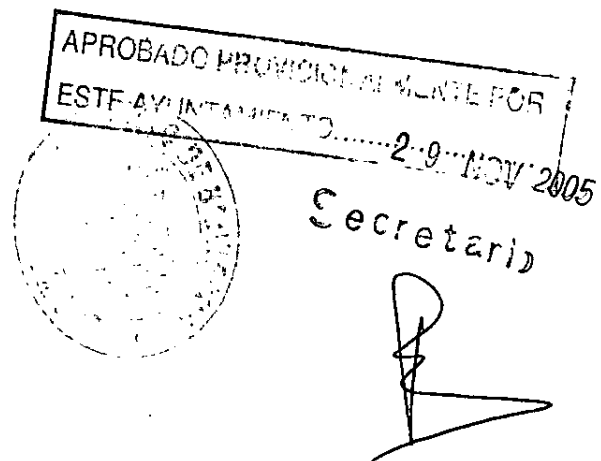
APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 2-9-NOV-2005  
Secretario

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## 1.- INTRODUCCION.

### 1.1.- INICIATIVA.

La iniciativa de la formulación del Presente Plan Parcial, ha sido asumida por el Excmo. Ayuntamiento de Briviesca, Para lo cual y como actuación previa acordó con fecha de 24 de Noviembre de 2.004 en sesión plenaria la aprobación inicial de la Modificación del Plan General de Ordenación Urbana de Briviesca a fin de reclasificar una superficie de suelo de 205.925,73 m<sup>2</sup> (en el documento de Modificación del Plan General se establece como superficie, la que figura en el catastro y que es la de 204.700 m<sup>2</sup>) de suelo no urbanizable como urbanizable delimitado de uso industrial.



## 1.2.- SITUACION DEL AREA DE PLANEAMIENTO.

Los terrenos objeto del presente Plan Parcial se encuentran situados al Norte del núcleo urbano, a una distancia aproximada de 1 Km. y en el borde Norte del Polígono Industrial "La Vega" y corresponden a la finca nº 234 del polígono Catastral 1 de Briviesca.

Según los datos de dicho Catastro tiene una superficie de 204.700 m<sup>2</sup> y según medición realizada para la redacción del presente documento es de 205.925,73 m<sup>2</sup>.

La finca tiene los siguientes linderos:

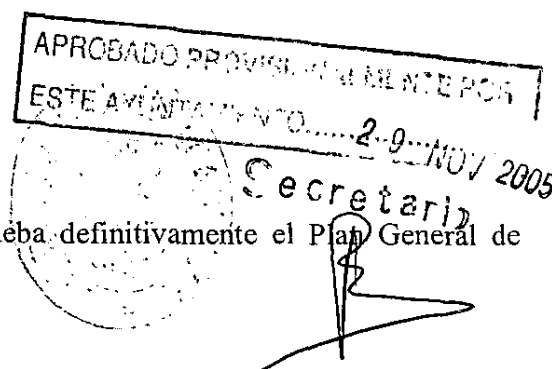
- \* Norte: Fincas catastrales nº 90 y nº 91 del polígono 202
- \* Sur: Polígono industrial "La Vega"
- \* Este: Río Oca y fincas núms. 91 y 99 del polígono 202 y finca nº 1552 del polígono 1
- \* Oeste: Camino Ladreros



La situación concreta con respecto al entorno municipal, se define en la documentación gráfica adjunta, adjuntándose también fotocopia de la nota simple informativa del Registro de la Propiedad de Briviesca.

## 1.3.- ANTECEDENTES.

Con fecha 29 de Agosto de 1.997, se aprueba definitivamente el Plan General de Ordenación Urbana de Briviesca.



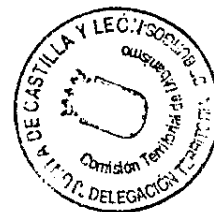
Previamente al presente Plan Parcial, a iniciativa del Ayuntamiento de Briviesca, y ante la necesidad de contar con suelo industrial en el término Municipal, se promueve una modificación puntual del Plan General de Ordenación Urbana, para la reclasificación de la citada parcela, actualmente No Urbanizable (Rústico), como Urbanizable delimitado de uso industrial.



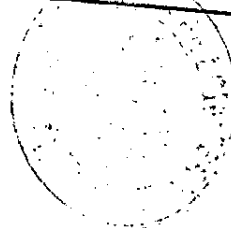
Los terrenos objeto de dicha modificación puntual, son los que se pretende ordenar mediante el presente Plan Parcial.

## **2.- PROCEDENCIA DE LA FORMULACION DEL PLAN PARCIAL**

El presente Plan Parcial desarrolla el terreno delimitado en la Modificación puntual del Plan General mencionado en el punto anterior, justificándose la conveniencia y oportunidad de la ordenación propuesta por el desarrollo económico del municipio, que ha dado origen a una fuerte demanda de terreno industrial y que en la actualidad está prácticamente agotado siendo por lo tanto de una necesidad y urgencia ineludibles la creación de suelo industrial urbanizado.



APROBADO PROVISIONALMENTE POR  
ESTE ANUNCIAMIENTO.....2.0.11.01.2005



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### 3.- DELIMITACION DEL AREA DE PLANEAMIENTO.

La delimitación del área de planeamiento, como ya se ha descrito en los antecedentes de esta memoria justificativa, se ajusta a la modificación puntual del Plan General vigente que se aprobó inicialmente con fecha de 24 de Noviembre de 2.004 en Sesión Plenaria del Ayuntamiento de Briviesca.

Los terrenos objeto del presente Plan Parcial se encuentran situados al Norte del núcleo urbano, a una distancia aproximada de 1 Km. y en el borde Norte del Polígono Industrial "La Vega" y corresponden a la finca nº 234 del polígono Catastral 1 de Briviesca.

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La finca tiene los siguientes linderos:

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Sur: Polígono industrial "La Vega"

Este: Río Oca y fincas núms.. 91 y 99 del polígono 202 y finca nº 1552 del polígono 1

Oeste: Camino Ladreros

La situación concreta con respecto al entorno municipal, se define en la documentación gráfica adjunta.



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO.....29 NOV 2005  
Secretario

#### **4.- INFORMACIÓN URBANÍSTICA**

##### **4.1.- TOPOGRAFIA DE LOS TERRENOS.**

El relieve corresponde al de unos terrenos con pendientes suaves en toda su extensión presentando su punto más alto en el linderos Sur, pendiente en dirección Sur - Norte y una diferencia de cotas entre los puntos más alto y más bajo del mismo de unos 4 m aproximadamente.

Las características pormenorizadas de la topografía del terreno se describen en la documentación gráfica adjunta.

La situación del río Oca en uno de sus linderos obliga al estudio de la inundabilidad de los terrenos objeto de ordenación. Éste estudio de inundabilidad, para una avenida de periodo de retorno de 500 años , se adjunta en un anejo al presente documento en el que se justifica que la finca no resulta inundada, no produciéndose daños catastróficos.

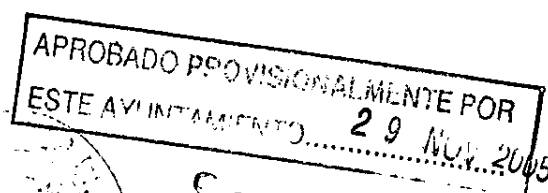
##### **4.2.- ESTADO ACTUAL DE LOS TERRENOS Y SU ENTORNO.**

###### **4.2.1.- VEGETACIÓN Y CULTIVOS**

El terreno objeto del proyecto tiene un uso agrícola.

###### **4.2.2.- EDIFICACIONES**

No hay ninguna edificación en los terrenos objeto de este Plan Parcial.



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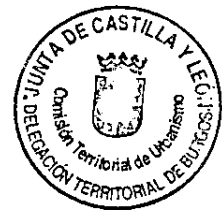
#### 4.2.3.- INFRAESTRUCTURAS EXISTENTES

En la actualidad, los terrenos delimitados por el presente Plan Parcial no poseen infraestructura alguna en cuanto a viario, saneamiento, abastecimiento de agua, energía eléctrica... etc. Discurre por la misma el colector de aducción de aguas fecales del Municipio hacia la E.D.A.R. que se encuentra situada aguas abajo. En su lindero Sur, se sitúan las tuberías de agua potable a las que se empalmarán las de esta ampliación. En este mismo lindero y tal como se deduce de la información gráfica se encuentran los viales y demás infraestructuras necesarias para la ampliación de la zona industrial.

#### 4.3.- ESTRUCTURA DE LA PROPIEDAD

Los terrenos comprendidos en el ámbito del presente Plan Parcial son propiedad de D<sup>a</sup>. M<sup>a</sup> Ángeles Torres Martínez con domicilio en Avda. de las Arenas nº 2 3º A en Getxo (Vizcaya).

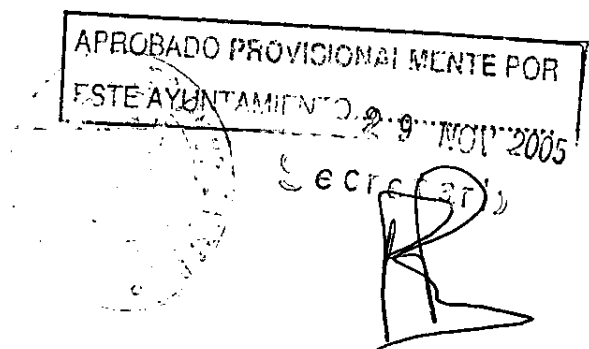
#### 5.- PLANEAMIENTO MUNICIPAL DE APLICACIÓN.



La normativa vigente en el término municipal de Briviesca, la constituye el Plan General de Ordenación Urbana aprobado el 29 de Agosto de 1.997.

En dicho instrumento de ordenación figuran los terrenos objeto de esta actuación, clasificados como suelo No Urbanizable Común.

La incorporación de los mismos al suelo Urbanizable con el uso global industrial se lleva a cabo mediante la oportuna Modificación del mismo, aprobada inicialmente con fecha 24 de Noviembre de 2.004.



- Usos Globales

\* El uso característico es el industrial y los usos compatibles quedan establecidos en el Plan General de Ordenación Urbana de Briviesca para suelo industrial, capítulo 7, sección 3, artículo 11.7.5 usos característicos y 11.7.6 usos compatibles.

\* Industrial

\* Terciario

\* Equipamiento

- Usos pormenorizados:

\* Industria

\* Terciario

\* Servicios de interés público y social.

- Parcela mínima:

\* Uso industrial: 350 m<sup>2</sup>

\* Uso terciario: 350 m<sup>2</sup>

\* Uso equipamiento: 350 m<sup>2</sup>

- Altura máxima de la edificación:

\* Uso industrial: Dos plantas.

\* Uso terciario: Dos plantas ( 8 m.)

\* Uso equipamiento: Dos plantas ( 8 m.)

- Tipología edificatoria:

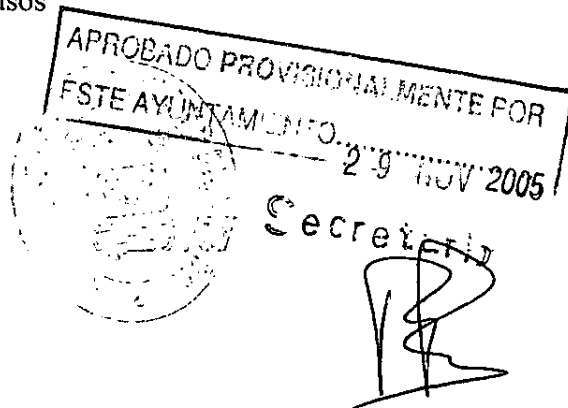
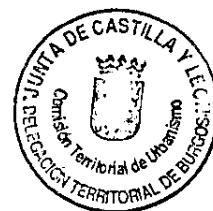
\* Alineada a vial o aislada para todos los usos

- Ocupación máxima de parcela neta:

\* Uso industrial: 80 %

\* Uso terciario: 80 %

\* Uso equipamiento: 80 %



- Edificabilidad sobre parcela.

\*  $0,80 \text{ m}^2 / \text{m}^2$ .



## **6.- CONDICIONANTES DE LA ORDENACION DERIVADOS DE LA SITUACION ACTUAL.**

De toda la información urbanística del estado actual y del planeamiento vigente, se derivan unos condicionantes que sirven de base para la fijación de los objetivos de la ordenación del Plan Parcial.

- Las características naturales del terreno no son especialmente significativas ni establecen condiciones determinantes para las posibles alternativas de ordenación.
- La estructura de la propiedad del suelo no condiciona el proceso de gestión del Planeamiento, facilitándose ésta al tratarse de una única propiedad. En la modificación del Plan General se propone como sistema de actuación el de expropiación.
- Las infraestructuras existentes en el lindero Sur, es decir en el actual polígono industrial, hacen que las posibilidades de diseño del Plan Parcial quede muy limitado por ser preciso el enganche con las citadas infraestructuras. La existencia de las infraestructuras facilita en gran medida el desarrollo de la actuación.
- La parcelación que se presenta es orientativa, se prevé la posibilidad de agrupar parcelas y la de dividir las mismas con las premisas y limitaciones que se exponen en el presente documento.

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 de mayo de 2005

## **7.- CRITERIOS Y ALTERNATIVAS DE LA ORDENACION**

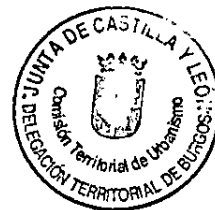
Las infraestructuras en las que se apoya el Polígono son las citadas anteriormente y que son las que cuenta el polígono industrial. En su día ya se previeron a la hora de realizar

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*[Firma]*

las obras que se podría producir una ampliación como la que se pretende, por lo que las infraestructuras de apoyo son suficientes.

Se traza por tanto un vial paralelo a la dirección Sur – Norte, por uno de los bordes de la finca, dejando entre este vial y el río Oca las zonas de equipamiento y los espacios libres Públicos, con el fin de proteger el cauce del río. En el lindero Este y entre las parcelas y el camino de Ladreros se prevé asimismo otra zona verde.

El polígono se parcela con los linderos perpendiculares a la calle única



## **8.- JUSTIFICACION Y DESCRIPCION DE LA ORDENACION PROPUESTA**

En este apartado se trata de justificar la solución propuesta acreditando que constituye una unidad funcional perfectamente conectada con las áreas colindantes mediante la adecuada relación con su estructura urbana, y acorde con la legislación vigente.

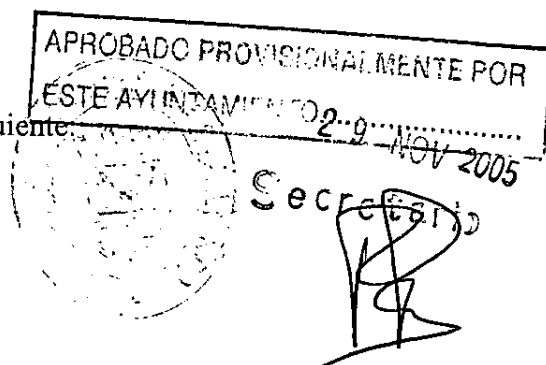
### **8.1.- CAPACIDAD DEL PLAN**

El aprovechamiento máximo es de 0,50m<sup>2</sup>/m<sup>2</sup>, con una ocupación máxima de dos tercios de la superficie del sector, con las determinaciones que se establecen en los artículos 101 y siguientes del Reglamento de Urbanismo de Castilla y León.

### **8.2.- ZONIFICACIÓN**

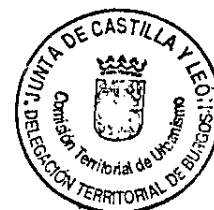
Según recoge el plano de zonificación, se establecen dos zonas edificables, una para uso industrial y otra para equipamientos, destinada a acoger los servicios de interés público y social.

En resumen, la zonificación propuesta es la siguiente.



| <i>ZONA</i>                          | <i>M<sup>2</sup> PARCIALES</i> | <i>M<sup>2</sup> TOTALES</i> |
|--------------------------------------|--------------------------------|------------------------------|
| <b>Industrial</b>                    | 137.247,75                     | 137.247,75                   |
| <b>Equipamiento</b>                  |                                |                              |
| Parque deportivo                     | 5.978,44                       | 21.959,64                    |
| Comercial y social                   | 15.981,20                      |                              |
| <b>Espacios libres</b>               |                                | 21.959,64                    |
| Jardines y áreas peatonales          | 21.959,64                      |                              |
| <b>Sistema viario y aparcamiento</b> | 24.758,70                      | 24.758,70                    |

### 8.3.- PONDERACIÓN RELATIVA DE USOS PORMENORIZADOS.



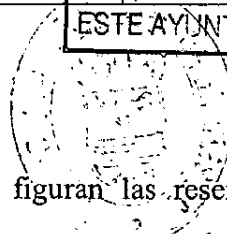
En el Plan Parcial, considerando el uso y tipología de la zona como característicos, obtenemos los valores que se indican a continuación:

| <i>Zona</i>                           | <i>Superficie<br/>m<sup>2</sup></i> | <i>Edificabilidad<br/>m<sup>2</sup>/m<sup>2</sup></i> | <i>S. Edificable<br/>m<sup>2</sup></i> | <i>Coeficiente de<br/>Ponderación P.<br/>Parcial</i> | <i>S. Edificable<br/>neta m<sup>2</sup></i> |
|---------------------------------------|-------------------------------------|-------------------------------------------------------|----------------------------------------|------------------------------------------------------|---------------------------------------------|
| Industrial                            | 137.247,75                          | 0,74                                                  | 101.563,34                             | 1,00                                                 | 101.563,34                                  |
| Equipamiento<br>Social y<br>Comercial | 15.981,20                           | 0,74                                                  | 11.826,09                              | 0,00                                                 | 0,00                                        |
| <b>Total</b>                          | <b>153.228,95</b>                   |                                                       |                                        |                                                      | <b>101.563,34</b>                           |

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO. 2-9 NOV 2005

### 8.4.- DOTACIONES

Entre las determinaciones del Plan Parcial figuran las reservas de terrenos para dotaciones en función de los distintos usos de suelo propuestos en el sector, con el desglose que recogemos a continuación



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*[Signature]*



- Sistema de espacios libres de dominio y uso público

En nuestro caso, a partir de la superficie del ámbito del Plan Parcial , 205.925,73 m<sup>2</sup> cumpliendo el 10% mínimo exigido con las condiciones establecidas en el Reglamento de Planeamiento: arbolado en franjas de mas de 5m de anchura salvaguardando cauces naturales y vías pecuarias

- Sistema local de equipamientos

La superficie asignada cumple también el módulo mínimo establecido por el Art. 106.1.b. del R.U. de C. y L. en el 5% de la superficie total ordenada.

Los 21.959,64 m<sup>2</sup> reservados se descomponen de la siguiente forma:

|                                     |                          |
|-------------------------------------|--------------------------|
| * Parque deportivo                  | 5.978,44 m <sup>2</sup>  |
| * Equipamiento comercial y/o social | 15.981,20 m <sup>2</sup> |



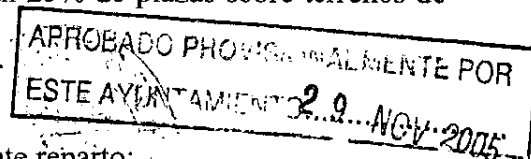
En la situación concreta de los Equipamientos, se ha tenido en cuenta su relación con la red viaria a fin de garantizar su accesibilidad y obtener su integración en la estructura urbanística del Plan.

- Aparcamientos

El Art.104.1 del R.U. de C. y L. señala la reserva para aparcamientos en proporción a dos plaza por cada 100 m<sup>2</sup> construibles, encargándose los apartados 2 y 3 del citado artículo, de fijar las dimensiones mínimas y otras exigencias. Aplicando esta dotación a los 137.247,75 m<sup>2</sup> construibles en el uso predominante, obtenemos 2.744 plazas.

Por otro lado, el Art. 104.3-a del R.U.C. y L. exige un 25% de plazas sobre terrenos de Uso y Dominio Público.

Las plazas de aparcamiento se resuelven con el siguiente reparto:



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- \* En aparcamientos de viales: 374
  - \* En vías de servicio:  $25\text{m}^2/\text{plaza } 7.800/25=312.$
- En aplicación del Art.104.3-c del Reglamento de Urbanismo de Castilla y León
- \* En el interior de las parcelas: 2.058.
  - \* En zonas de dominio y uso público  $312 + 374 = 686 = 25\% \text{ s/ } 2.744$
- (Según el Artículo 104.3-a)

### 8.5.- EL ESQUEMA VIARIO

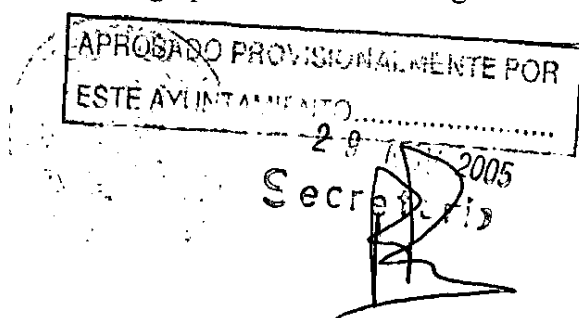
Como resultado de las alternativas y criterios adoptados sobre la estructura viaria, para su trazado se ha tenido en cuenta:



- a) Los radios de giro necesarios para facilitar las maniobras de vehículos pesados
- b) El ancho de las calzadas, buscando un equilibrio entre el espacio necesario para que un trailer pueda acceder a la parcela, y el aprovechamiento general del suelo industrial enajenable.
- c) La anchura del acerado, que de forma ajustada pero suficiente, permita la conducción enterrada de las infraestructuras y faciliten su utilización como itinerarios peatonales.

### 8.6.- LAS ÁREAS LIBRES

Se sitúan al Este y Oeste del sector como cierre del polígono en esta zona y protección de los cauces y de los caminos. Posee una superficie de  $21.969,54 \text{ m}^2$  que representa más del 10% del total del suelo a ordenar que exige el Artículo 105 del Reglamento de Urbanismo de Castilla y León; su forma se adapta al perímetro del sector agrupado en áreas homogéneas.



## 8.7.- LOS EQUIPAMIENTOS PÚBLICOS

Las superficies destinadas a equipamientos públicos se calculan en base a los requerimientos del Artículo 106 del Reglamento de Urbanismo de Castilla y León.

Se diferencian dos usos diferentes entre los servicios de interés público y social correspondiéndose con los usos deportivo y social-comercial, su superficie total es de 21.959,64 m<sup>2</sup> superior al 20% del total de m<sup>2</sup> edificables en el uso predominante superando el 10% de la superficie del sector, exigido por el Artículo 106.1-b del R.U.C. y L.



## 8.8.- LA ZONA INDUSTRIAL

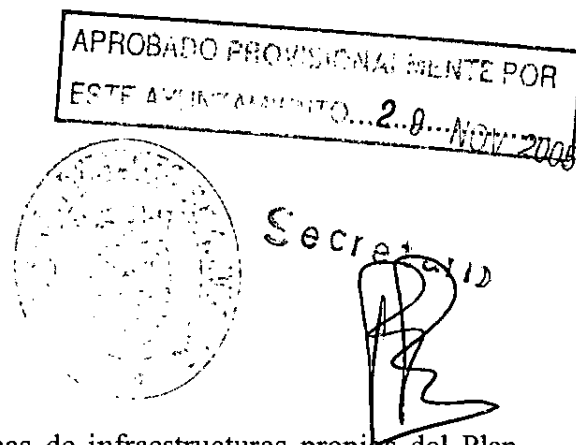
Las parcelas industriales se encuentran alineadas con la vía de servicio paralela al vial del polígono.

## 9.- INFRAESTRUCTURAS

### 9.1.- CONEXIÓN CON EL EXTERIOR

Las posibilidades de conexión de los sistemas de infraestructuras propios del Plan Parcial, están en relación con las redes existentes en la actualidad. Con relación a la disponibilidad de abastecimiento de aguas, se incluyen redes de distribución de D-300mm. Con estas secciones se garantiza suficientemente el caudal necesario a toda la zona abastecida.

Las disponibilidades de abastecimiento de energía eléctrica, no ofrece inconvenientes.



En cuanto al alcantarillado, tampoco ofrece inconvenientes, existiendo en las proximidades una EDAR.

Los servicios están asegurados, por existir en el existente polígono las necesarias infraestructuras.

## 9.2.- RED DE ABASTECIMIENTO DE AGUAS

El polígono se abastecerá directamente desde el depósito actual del municipio, capaz de suministrar el caudal necesario y dotado de agua potable.

El trazado esquemático de las redes se muestra en el plano de ordenación correspondiente.

Se prevén redes de distribución con una disposición en mallas cerradas.

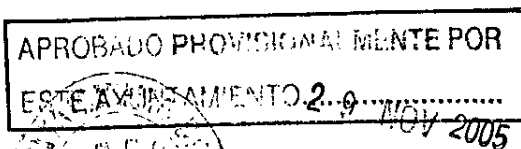


## 9.3.- RED DE ENERGÍA ELÉCTRICA

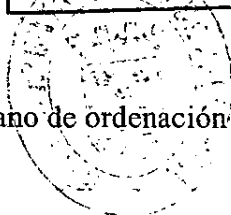
El esquema de la red es el recogido en el plano de ordenación correspondiente.

La red de distribución en baja tensión parte de los centros de transformación previstos y discurre por los viarios para posibilitar las conexiones en todos los frentes de manzanas.

## 9.4.- RED DE SANEAMIENTO



El trazado de las redes es el recogido en el plano de ordenación



Secretario

Existe una EDAR, que está previsto ampliar, por parte del municipio a la que irán estas redes, siendo obligatorio un pretratamiento para los vertidos de tipo industrial,

cumpliendo estos las limitaciones que figuran en el artículo en las ordenanzas de vertido municipales.

El sistema previsto es separativo para fecales y pluviales.

Las redes discurren según la topografía del terreno desde los puntos más altos a los más bajos, confluyendo siempre en la red existente para verter en el sistema general de saneamiento en los puntos de más capacidad de ésta.

### 9.5.- RED DE ALUMBRADO PÚBLICO

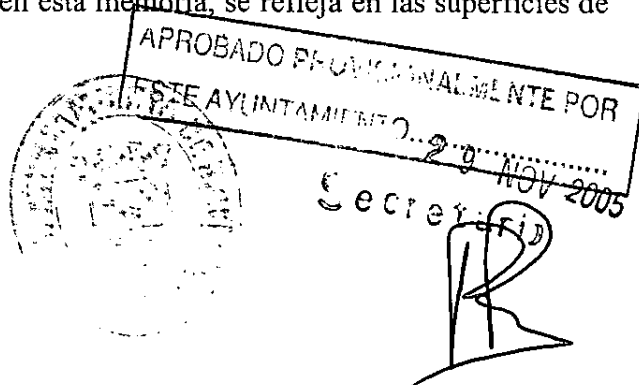
El sistema se compone de cuadro de mandos y protección, red de alimentación y luminarias. La disposición prevista de las luminarias y de la red de alimentación se establece en el plano de ordenación.

La red de alimentación, dimensiones, tipos de luminaria, etc, serán definidas en el proyecto de urbanización para los niveles de iluminación fijados en las condiciones de urbanización.

### 10.- MAGNITUDES BÁSICAS DEL PLAN PARCIAL

|                  |                           |
|------------------|---------------------------|
| SUPERFICIE TOTAL | 205.925,73 M <sup>2</sup> |
|------------------|---------------------------|

El resultado de la ordenación descrita en esta memoria, se refleja en las superficies de la tabla siguiente:

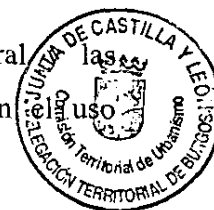


## TABLA DE SUPERFICIES DEL PLAN

Según Anejo nº 2

| <b>ZONAS</b>                                        | <b>TIPO</b>      | <b>Exigido por el<br/>Reglamento de<br/>Planeamiento m<sup>2</sup></b> | <b>Establecido en<br/>Modificación</b> | <b>Establecido en el<br/>Plan Parcial m<sup>2</sup></b> |
|-----------------------------------------------------|------------------|------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------|
| Sistemas locales de espacios libres públicos (LELP) | Jardines         | 10% del área a ordenar<br>20.592                                       | 20.470                                 | 21.959,64                                               |
| Sistemas locales de equipamiento (SLE)              | Parque deportivo | 10% del área a ordenar<br>20.592                                       | 20.470                                 | 21.959,64                                               |
|                                                     | Comercial        |                                                                        |                                        |                                                         |
|                                                     | Social           |                                                                        |                                        |                                                         |
| APARCAMIENTOS EN VIA PUBLICA                        |                  | 1 plaza por cada 200 m <sup>2</sup> de edificación (25%)               |                                        | 686                                                     |
| SISTEMA VIARIO                                      |                  |                                                                        |                                        | 24.758,70                                               |

La diferencia entre las previsiones de la modificación del Plan General resultantes en el Plan Parcial, se derivan de la previsión de edificabilidad en predominante supuesta en el Plan General y la realmente obtenida.



# **11.- EJECUCION POR UNIDADES DE ACTUACIÓN Y DETERMINACION DEL SISTEMA DE ACTUACION.**

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 2.0... NOV 2005

## **11.1.-EJECUCION POR UNIDADES DE ACTUACION.**

Dadas las características del sector y la estructura de la propiedad del suelo, se establece una única unidad de actuación que comprende la totalidad de los terrenos incluidos en el Plan Parcial.

## 11.2.- DETERMINACION DEL SISTEMA DE ACTUACION

El sistema de actuación elegido es el de Expropiación.



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO... 29 NOV 2005

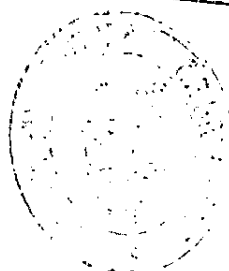


Secretario

A large, stylized handwritten signature in black ink, appearing to be the signature of the Secretary.



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 Mayo 2005



Secretario  
*[Handwritten signature]*

**DOCUMENTO Nº 3: PLAN DE ETAPAS**



## PLAN DE ETAPAS.

### ÍNDICE

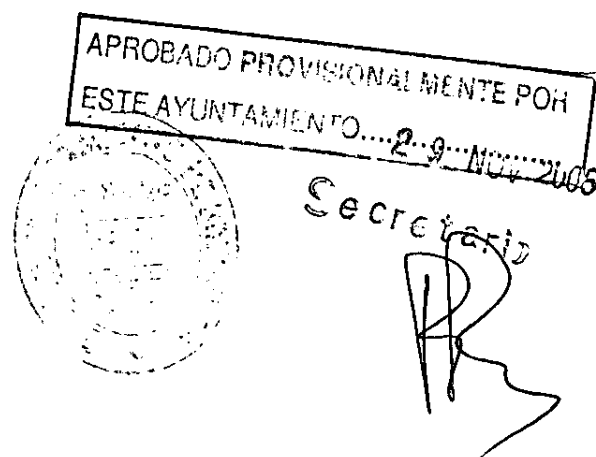
#### 1.- CONTENIDO

#### 2.- DESARROLLO TEMPORAL

##### 2.1.- PLAZO TOTAL DE EJECUCIÓN

##### 2.2.- PLAZOS DE LA DOCUMENTACIÓN

##### 2.3.- PLAZOS DE EJECUCIÓN DE LA URBANIZACIÓN

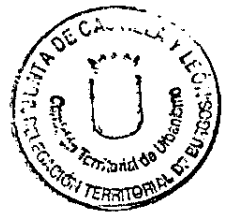


## **1.- CONTENIDO.**

El contenido de este documento se adapta a lo establecido por la Ley de Urbanismo de Castilla y León y por su Reglamento de desarrollo.

Se determina el programa temporal de la ejecución del Plan Parcial.

## **2.- DESARROLLO TEMPORAL.**



## 2.1. PLAZO TOTAL DE EJECUCIÓN.

Las actuaciones previstas en el polígono se desarrollarán en su totalidad en un plazo máximo de 5 años contados desde la aprobación definitiva del presente Plan Parcial.

No obstante se podrán establecer en los proyectos de urbanización fases de ejecución para distintas áreas o servicios, pero en ningún caso la suma de los plazos de dichas fases podrá superar el total previsto para la etapa.

## 2.2. PLAZOS DE LA DOCUMENTACIÓN.

## PROYECTO DE URBANIZACIÓN.

El plazo máximo para la presentación del proyecto de urbanización, será de 6 meses a contar desde la fecha de aprobación definitiva del presente Plan Parcial.

El proyecto de urbanización deberá incluir entre las obras a efectuar, las conexiones de infraestructura hasta las redes existentes en ese momento.

APROBADO EN LA SESION ORDINARIA DE LA JUNTA DE GOBIERNO MUNICIPAL DE SAN CARLOS DE GUAYAMA, P.R. EL DIA 28 DE NOVIEMBRE DE 2005.

Secretaria

será de 3 meses a

### 2.3. PLAZOS DE EJECUCIÓN DE LA URBANIZACIÓN.

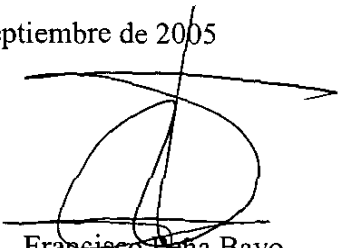
El comienzo de la ejecución de las obras de urbanización, no podrá exceder de un plazo de 6 meses a contar desde la aprobación definitiva del Proyecto de Urbanización.

Todas las obras de urbanización previstas en el Plan Parcial, deberán estar ejecutadas en un plazo máximo de 4 años a contar desde la aprobación definitiva del Proyecto de Urbanización, independientemente de los plazos de tramitación de la documentación precisa para poder iniciar la ejecución.

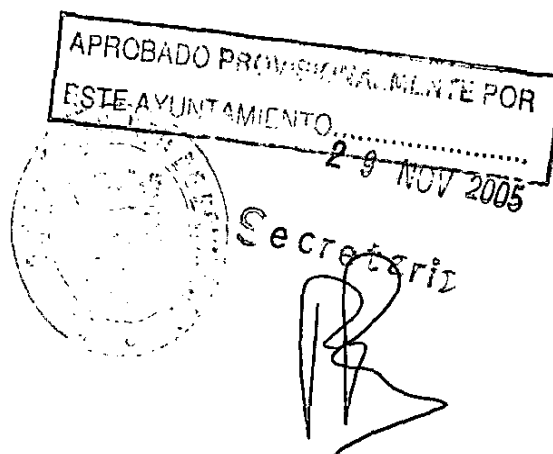


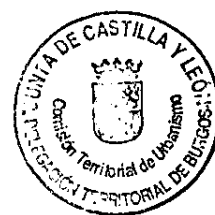
Fdo. Alfredo Peraita Lechosa  
Ingeniero de Caminos

Burgos, Septiembre de 2005

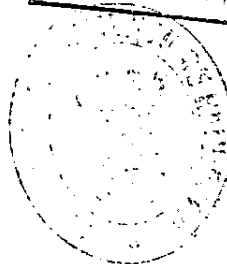


Francisco Peña Bayo  
Arquitecto





APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 NOV 2005



Secretario

**DOCUMENTO Nº 4**

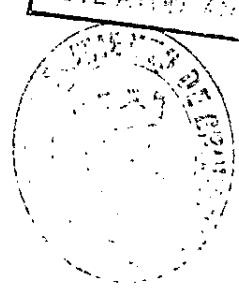
**ANEJOS**



ANEJO Nº 1

PRESCRIPCIONES DEL PLAN GENERAL DE ORDENACION URBANA

APROBADO PRELIMINARMENTE POR  
ESTE AYUNTAMIENTO 29...NOV.2005  
Secretario  

ANEJO Nº 1:  
PRESCRIPCIONES DEL PLAN GENERAL DE ORDENACION URBANA

SECCION 2.

CONDICIONES DE LA EDIFICACION.

1. Situación 1ª (7-1)

A los efectos de parcelación y edificación no se establecen condiciones de superficie mínima de parcela, pudiendo edificarse siempre que cumplan el resto de las condiciones generales y de la zona.

Artículo 11.7.3.

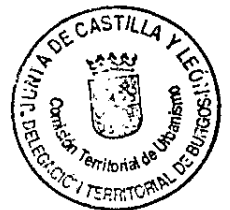
PARCELA MINIMA

2. Situación 2ª (7-2)

Se establecen como parcelas mínimas las siguientes:

- (II) Parcelas rido - 350 m<sup>2</sup>
- (T) Parcelas tipo - 1.500 m<sup>2</sup>

Su número y situación se determinará en el preceptivo P.I.N.I. a redactar previo a su ejecución.



1. Situación 1ª (7-1). La edificación deberá ajustarse a los parámetros que se definen a continuación:

- a. Altura máxima: (m) 5'00
- b. Ocupación sobre parcela (%) 80
- c. Separación de alineaciones exteriores (m) 3'00

d. Las separaciones de la edificación a linderos y fondo serán al menos de 3'00 m. pudiendo adosarse a uno de los linderos laterales con permiso del colindante.

Artículo 11.7.4.

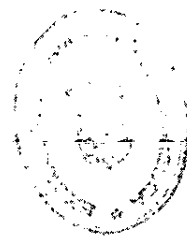
CONDICIONES DE APROVE-  
CHAMIENTO, URBANISMO Y POSI-  
CION

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO... 9... NOV 2005...

Secretario

SECCION 4.

CONDICIONES ESTETICAS.



1. En situación 1ª (7-1).

a. Medianeras: Se tratarán en todo caso como fachadas.

b. Fachadas:

La composición y tratamiento de fachadas es libre en el ámbito de la zona debiendo en todo caso realizarse con materiales de acabado digno.

2. En situación 2ª (7-2).

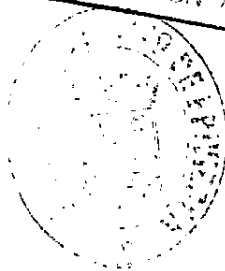
A determinar en el correspondiente P.L.R.L. a redactar previo a su ejecución.

Artículo 11.7.8.

CONDICIONES ESTETICAS



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO... 29... AGO... 2005



Secretario

SECCION 3.

CONDICIONES DE USO.

El uso característico en las áreas reguladas por la Ordenanza 7 es el industrial en todas sus clases en situación 2ª y en clases 1, 2, 3, en la situación 1ª.

Artículo 11.7.6.

USOS CARACTERISTICOS

1. Residencial. Se admite el uso residencial en su clase de vivienda, sujeto a las siguientes condiciones:

Artículo 11.7.7.

USOS COMPATIBLES

- . Estar adscrita al edificio industrial.
- . La proporción máxima será de una vivienda por industria.
- . Cumplirán las condiciones establecidas en el Título 6.

2. Comercial. Permitido.

3. Servicios del Automóvil. Permitido.

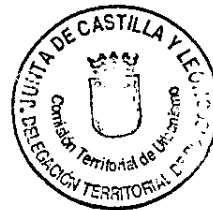
4. Hotelero. Permitido.

5. Oficinas. Permitido.

6. Salas de Reunión. Permitido.

7. Establecimientos Públicos. Permitido.

8. Equipamiento Comunitario. Permitido en sus clases: c; d; e; f; h; i; j y k.



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 2-9-NOV-2005

Secretario

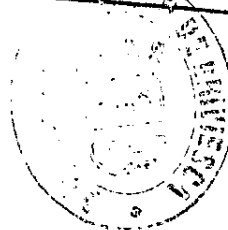


ANEJO Nº 2

CUADRO DE SUPERFICIES Y  
ESTUDIO ECONOMICO



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO..... 29 NOV. 2005



Secretario

A handwritten signature in black ink, appearing to be "R. R.", written over the word "Secretario".

**ANEJO Nº 2:**  
**CUADRO DE SUPERFICIES Y ESTUDIO ECONOMICO**

El presente estudio económico-financiero pretende valorar los costos que resultan de la adquisición y urbanización de la Ampliación del Polígono Industrial, así como los plazos necesarios para su ejecución, la financiación necesaria y el precio de venta que se debe aplicar para obtener los recursos necesarios.

**PLAZOS DE GESTION Y EJECUCIÓN**

|                    |        |
|--------------------|--------|
| PLAZO DE GESTION   | 1 AÑO  |
| PLAZO DE EJECUCIÓN | 2 AÑOS |
| PLAZO DE VENTA     | 5 AÑOS |
| TIPO DE INTERES    | 4%     |

**CUADRO DE SUPERFICIES**

|                              |                                    |            |    |                                          |
|------------------------------|------------------------------------|------------|----|------------------------------------------|
| SUP. TOTAL                   |                                    | 205.925,73 | m2 |                                          |
| EDIFICABILIDAD INDUSTRIAL    | 0,74 x 137.247,75                  | 101.563,34 | m2 |                                          |
| EDIFICABILIDAD EQUIPAMIENTOS | 0,74 x 15.981,20                   | 11.826,09  | m2 |                                          |
| EDIFICABILIDAD TOTAL         |                                    | 101.563,34 | m2 | (<0,5 x 205.925,73)                      |
| OCUPACION                    | 0,8 x 137.247,75 + 0,8 x 15.981,20 | 122.583,16 | m2 | (<2/3 x 205.925,73)                      |
| ESPACIOS LIBRES              |                                    | 21.959,64  | m2 | (>10% s/205.925,73 y > 20% s/101.563,34) |
| EQUIPAMIENTOS                |                                    | 21.959,64  | m2 | (> 5% s/205.925,73 y > 20% s/101.563,34) |
| PARCELAS DE CESION           | 10% s/137.247,75                   | 13.724,78  | m2 |                                          |
| PARCELAS NETAS               |                                    | 123.522,98 | m2 |                                          |
| VIALES                       |                                    | 24.758,70  | m2 |                                          |

**ESTUDIO**

|                      | Cantidad  | Precio  | Importe (€)    | (%)    |
|----------------------|-----------|---------|----------------|--------|
| VIARIO               | 24.758,70 | 42,00 € | 1.039.865,40 € | 55,23% |
| ABASTECIMIENTO       |           |         | 175.000,00 €   | 9,29%  |
| SANEAMIENTO          |           |         | 160.000,00 €   | 8,50%  |
| ENERGIA ELECTRICA MT |           |         | 120.000,00 €   | 6,37%  |
| ENERGIA ELECTRICA BT |           |         | 180.000,00 €   | 9,56%  |
| ALUMBRADO PUBLICO    |           |         | 72.000,00 €    | 3,82%  |
| TELECOMUNICACIONES   |           |         | 100.000,00 €   | 5,31%  |
| JARDINERIA           |           |         | 36.000,00 €    | 1,91%  |

|                                        |                |
|----------------------------------------|----------------|
| Presupuesto de ejecución material      | 1.882.865,40 € |
| Gastos generales + Beneficio industria | 357.744,43 €   |
| Subtotal                               | 2.240.609,83 € |
| I.V.A. s/subtotal                      | 358.497,57 €   |
| Presupuesto total de Urbanización      | 2.599.107,40 € |

|                         |           |        |              |
|-------------------------|-----------|--------|--------------|
| ADQUISICION DE TERRENOS | 205925,73 | 3,00 € | 617.777,19 € |
|-------------------------|-----------|--------|--------------|

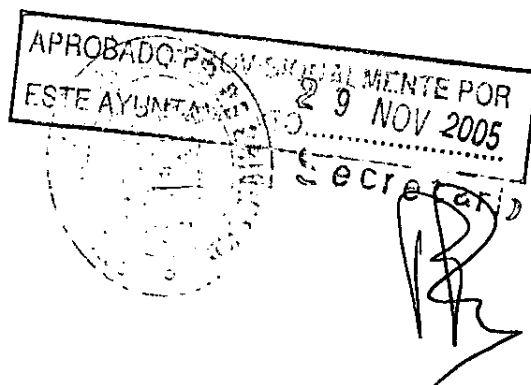
|                            |                |
|----------------------------|----------------|
| TOTAL                      | 3.216.884,59 € |
| TOTAL Gastos Financieros * | 873.456,61 €   |

|              |                |
|--------------|----------------|
| TOTAL COSTES | 4.090.341,20 € |
|--------------|----------------|

|                                                                   |         |
|-------------------------------------------------------------------|---------|
| PRECIO DE VENTA s/ 123.522,98 m2 de parcela, exceptuando cesiones | 33,11 € |
|-------------------------------------------------------------------|---------|

La fuente de financiación será a través de endeudamiento público y enajenación de parcela:

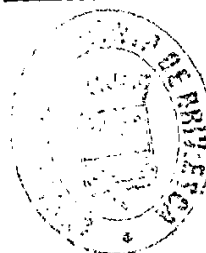
\* GASTOS FINANCIEROS según cuadro de Proyecto de Actuación



ANEJO Nº 3  
INFORMACION CATASTRAL Y  
NOTA SIMPLE DEL REGISTRO DE LA PROPIEDAD



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO. 2-9-2005



Secretario

ANEJO Nº 3:  
INFORMACION CATASTRAL Y NOTA SIMPLE DE REGISTRO DE LA PROPIEDAD

**Consulta y certificación de Bien Inmueble**

■ **Servicios de Certificación**

No existe cartografía digital asociada a esa parcela.

Finalidad: .....  
consulta ingeniero

Actualizar Finalidad

**Datos Alfanuméricos**

- Certificación de Bien Inmueble.
- Certificación de Bien Inmueble sin valor catastral.
- Certificación de Referencia Catastral.

**RÚSTICOS**

**Datos del Bien Inmueble**

Referencia catastral 09058A001002340000WK  
Provincia BURGOS  
Municipio BRIVIESCA  
Paraje VEGA  
Polígono 1  
Parcela 234  
Superficie 20,4700 Ha  
Valor Catastral 77.741,31 €  
Año Valor 2005

**Datos del Titular**

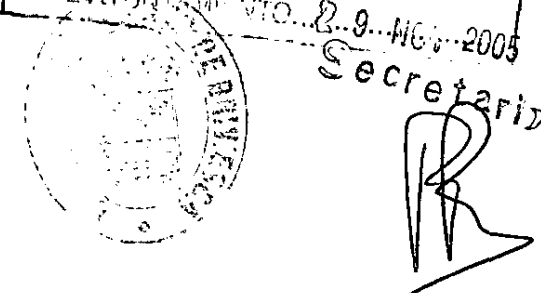
Apellidos y nombre TORRES MARTINEZ MARIA ANGELES  
NIF/CIF 13224333T  
Domicilio Fiscal CL RIO ARLANZON 2  
BRIVIESCA (Briviesca) 9240-BURGOS  
Coeficiente de Propiedad 100,0000 %

**Subparcelas**

| Subparcela | Cultivo                  | Intensidad | Superficie (Ha) | Valor Catastral (€) |
|------------|--------------------------|------------|-----------------|---------------------|
| 0          | Labor o labradío regadio | 00         | 20,4700         | 77.741,31           |



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO... 2-9-NOV-2005  
Secretario



# REGISTRO DE LA PROPIEDAD DE BRIVIESCA NOTA SIMPLE INFORMATIVA

## -- DATOS DE LA FINCA 11494 --

Municipio: BRIVIESCA

Finca: 11494

Naturaleza de la finca: RUSTICA

## ----- LOCALIZACIÓN -----

Paraje: VEGA

Nombre: NUMERO 234-1 DE C.P.

Superficie terreno: Ha = 20 a = 47 Ca = 0

Linderos:

Norte: ZONA EXCLUIDA DE CAMENO Y FINCAS DEL MISMO AYUNTAMIENTO

Sur: TOMAS MATA Y OTROS

Este: RIO OCA Y ZONA EXCLUIDA Y FINCA SEGREGADA

Oeste: CAMINO LADREROS



## -- TITULARES DE LA FINCA --

| Nombre del titular:           | Dni/CIF   | Tomo | Libro | Folio | Alta | Baja |
|-------------------------------|-----------|------|-------|-------|------|------|
| LOPEZ CASTILLO, BAUTISTA      | 14711358D | 1714 | 113   | 98    | 3    |      |
| TORRE MARTINEZ, MARIA ANGELES |           | 1716 | 113   | 98    | 3    |      |

100 % del PLENO DOMINIO para su sociedad conyugal.

## ----- CARGAS -----

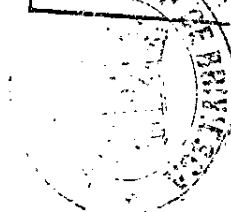
----- Cargas de la FINCA 11494 DE BRIVIESCA -----

Libre de Cargas



Briviesca 6 de Mayo de 2.004.  
Antes de la apertura del diario.

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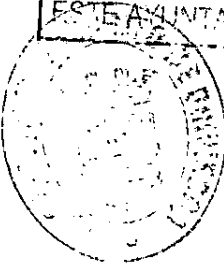
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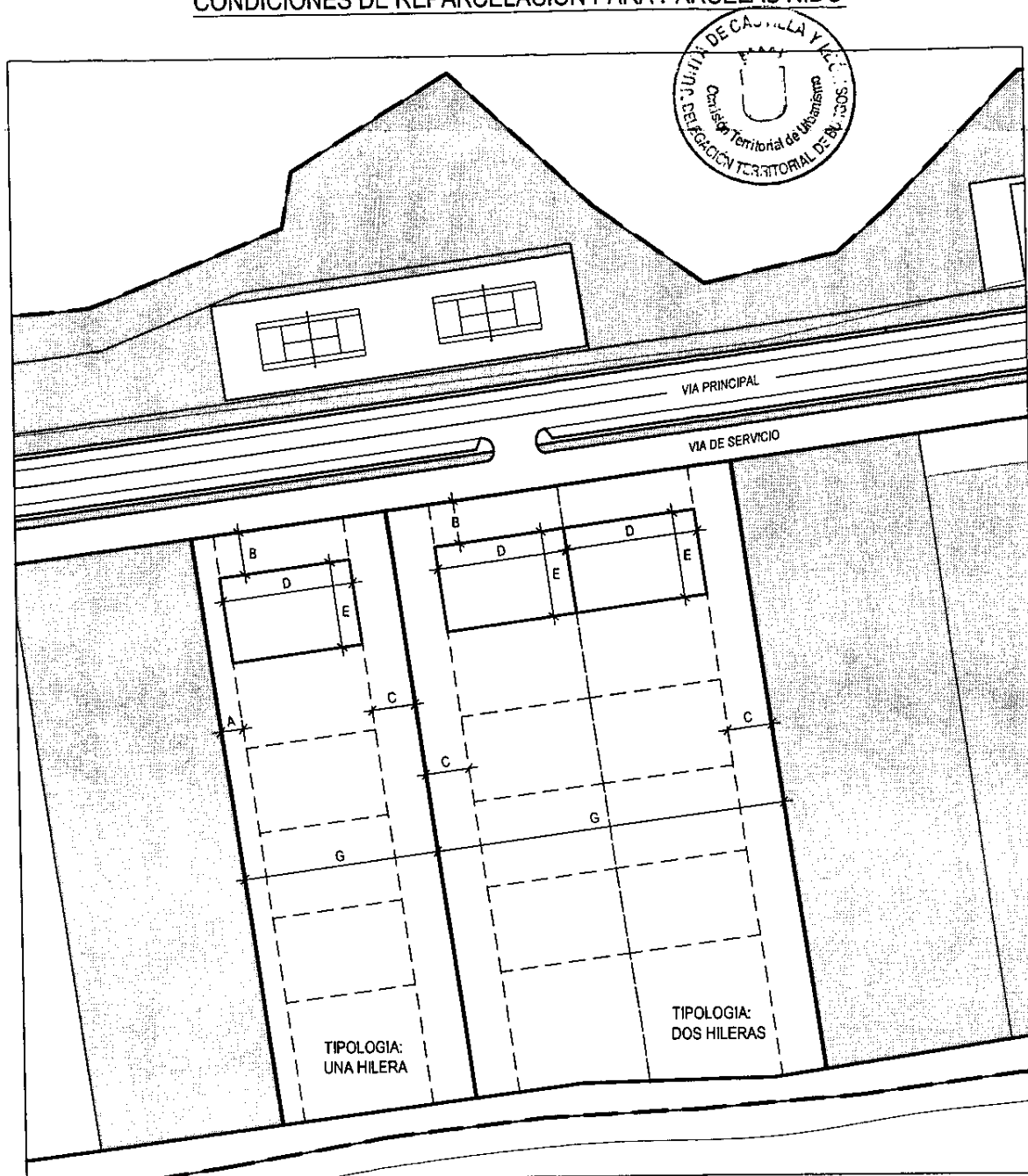
ANEJO Nº 4

CONDICIONES DE REPARCELACION

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**ANEJO Nº 4:**  
**CONDICIONES DE REPARCELACION PARA PARCELAS NIDO**



**CONDICIONES DE REPARCELACION PARA INDUSTRIAS NIDO**

**DIMENSIONES**

**- RETRANQUEOS MINIMOS:**

A = 5 m  
B = 10 m

**- ANCHURA MINIMA DE VIALES:**

C = 10 m

**- FACHADA:**

E mínimo = 20 m  
E máximo = 25 m

**- FONDO:**

D mínimo = 30 m  
D máximo = 40 m

Escala 1/1.500

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**- SUPERFICIES DE NAVE:**

Sup. Mínima = 600 m<sup>2</sup>  
Sup. Máxima = 1.000 m<sup>2</sup>

**- ANCHO DE PARCELA BASE:**

para una hilera G mínimo = 45 m  
para dos hileras G mínimo = 80 m

- Se exige Proyecto de Urbanización de la Parcela Base para la obtención de Parcelas Nido.
- Condiciones técnicas de infraestructuras similares en calidad y dimensionamiento a las del Proyecto de Urbanización Principal.

ANEJO Nº 5

ESTUDIO DE INUNDABILIDAD



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ANEJO Nº 5:  
ESTUDIO DE INUNDABILIDAD

**1. INTRODUCCIÓN**

Para el dimensionamiento de los caudales se ha utilizado el método hidrometeorológico corregido por Francisco Javier Polo del centro de estudios hidrográficos del CEDEX para ampliar el campo de aplicación del método a cuencas de hasta 3.000 km<sup>2</sup> y tiempos de concentración comprendidos entre 0,25 y 24 h.

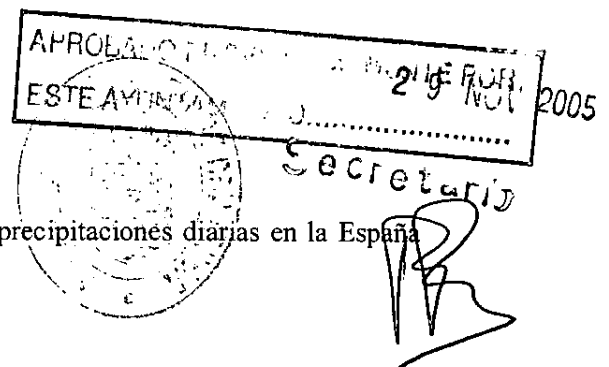
En la zona objeto de estudio se ha seleccionado una única estación que es la más representativa para la realización de cálculos hidrológicos que es la estación de Briviesca 9-030U.

Para el cálculo de las velocidades del agua y zona inundable se emplea el programa HEC-RAS, cuyos resultados se adjuntan en listados posteriores y se representan en plano adjunto.

**2. DATOS PLUVIOMÉTRICOS**

Para el cálculo de las intensidades máximas probables en cada intervalo de tiempo, correspondiente a los diferentes períodos de retorno, se ha aplicado tres métodos diferentes:

- . Ley de distribución de frecuencias de Gumbel.
- . Ley de distribución SQRT -Etmáx
- . Cálculo mediante el "Mapa para el cálculo de máximas precipitaciones diarias en la España peninsular".



Los métodos hidrometeorológicos simulan el proceso precipitación-escorrentía habitualmente mediante modelos determinísticos de mayor o menor complejidad. Los datos requeridos son fundamentalmente pluviométricos y aprovechan por tanto la ventaja de la mayor densidad y longitud de las series de la red pluviométrica respecto a la foronómica.

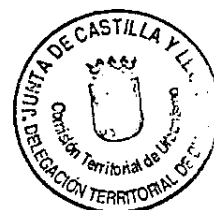
La estimación de la cantidad total de lluvia suele abordarse mediante el análisis estadístico de los datos registrados en las estaciones pluviométricas de la zona.

En el análisis estadístico de las lluvias máximas suelen emplearse modelos de series anuales de máximos, con lo que sólo se considera el mayor valor de cada uno de los años con datos, y métodos paramétricos que utilizan diversas leyes de distribución cuyos parámetros son ajustados a partir de los datos.

Los métodos de distribución de frecuencias de Gumbel y SQRT-ETmáx se basan en un uso de datos locales a partir de las correspondientes a precipitaciones máximas en 24 horas obteniéndose intensidades máximas probables para distintos periodos de retorno.

## 2.1. MÉTODO DE DISTRIBUCIÓN DE GUMBEL

| ANO  | Xi   | NP ANOS | Xi<br>ordenadas | K12    |
|------|------|---------|-----------------|--------|
| 1930 | 46.0 | 1       | 78.2            | 6118.2 |
| 1931 | 32.2 | 2       | 72.0            | 5184.6 |
| 1932 | 29.4 | 3       | 62.4            | 3693.8 |
| 1932 | 29.4 | 4       | 57.5            | 3308.3 |
| 1941 | 33.6 | 5       | 56.4            | 3161.0 |
| 1943 | 25.5 | 6       | 55.6            | 3091.4 |
| 1944 | 21.0 | 7       | 50.5            | 2350.8 |
| 1945 | 24.4 | 8       | 50.0            | 2300.0 |
| 1946 | 28.3 | 9       | 50.0            | 2300.0 |
| 1947 | 36.5 | 10      | 49.7            | 2470.1 |
| 1948 | 40.5 | 11      | 48.9            | 2381.2 |
| 1949 | 43.3 | 12      | 48.0            | 2304.0 |
| 1950 | 37.6 | 13      | 47.6            | 2265.8 |
| 1951 | 42.8 | 14      | 47.0            | 2209.0 |
| 1952 | 72.0 | 15      | 46.3            | 2148.7 |
| 1953 | 50.5 | 16      | 46.3            | 2148.7 |
| 1954 | 43.0 | 17      | 46.0            | 2118.0 |
| 1955 | 50.0 | 18      | 45.0            | 2025.0 |
| 1956 | 50.0 | 19      | 44.3            | 1962.3 |
| 1957 | 35.6 | 20      | 43.0            | 1849.0 |
| 1972 | 45.0 | 21      | 43.0            | 1849.0 |
| 1974 | 43.0 | 22      | 42.6            | 1831.6 |
| 1975 | 48.0 | 23      | 42.5            | 1806.3 |
| 1976 | 39.6 | 24      | 41.2            | 1697.4 |
| 1977 | 78.2 | 25      | 41.0            | 1651.0 |
| 1978 | 46.3 | 26      | 40.6            | 1640.3 |
| 1979 | 47.6 | 27      | 40.6            | 1640.3 |
| 1980 | 47.0 | 28      | 40.1            | 1606.0 |
| 1981 | 41.2 | 29      | 39.6            | 1588.2 |
| 1982 | 26.3 | 30      | 37.6            | 1413.8 |
| 1983 | 62.4 | 31      | 35.8            | 1287.4 |
| 1984 | 48.7 | 32      | 35.6            | 1280.3 |
| 1985 | 46.3 | 33      | 35.1            | 1232.0 |
| 1986 | 44.3 | 34      | 34.2            | 1169.6 |
| 1987 | 31.3 | 35      | 33.6            | 1129.0 |
| 1988 | 34.2 | 36      | 32.2            | 1036.6 |
| 1989 | 55.4 | 37      | 31.8            | 1011.2 |
| 1990 | 23.1 | 38      | 31.4            | 988.0  |
| 1991 | 41.3 | 39      | 29.5            | 870.5  |
| 1992 | 57.5 | 40      | 29.4            | 864.1  |
| 1993 | 29.5 | 41      | 29.4            | 864.1  |
| 1994 | 35.1 | 42      | 28.6            | 818.0  |
| 1995 | 42.5 | 43      | 28.6            | 818.0  |



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| AÑO  | $X_i$ | Nº AÑOS | $X_i$<br>ordenadas | $X_{i2}$ |
|------|-------|---------|--------------------|----------|
| 1958 | 28.6  | 44      | 28.6               | 702.3    |
| 1967 | 35.6  | 45      | 29.5               | 850.3    |
| 1972 | 35.4  | 46      | 35.4               | 845.2    |
| 1982 | 40.1  | 47      | 34.5               | 800.3    |
| 2000 | 24.5  | 48      | 24.4               | 595.4    |
| 2001 | 37.4  | 49      | 23.1               | 533.6    |
| 2002 | 40.5  | 50      | 21.3               | 441.8    |

De los datos presentes en el cuadro adjunto se obtiene:

$$\begin{aligned} X_i &= 2037,0 & X &= 1/n * X_i = 40,74 \\ X_{i2} &= 90333,0 & \mu_2 &= 1/n * X_{i2} = 1806,66 \end{aligned}$$

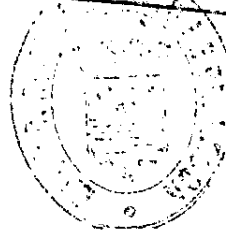
A partir de estos últimos:

$$\begin{aligned} X_2 &= 1659,75 & 0,450047 * S &= 5,45 \\ s^2 = \mu_2 - x_2 &= 146,91 & \mu = x - 0,450047 * S &= 35,29 \\ S &= 12,12 & 1/p = 0,779696 * S &= 9,45 \end{aligned}$$

| PERIODO<br>DE<br>RETORNO<br>(años) | F(x)  | -L F(x) | -L(-L F(x))<br>(a) | 1/p* (a)<br>(b) | X= (b)+μ |
|------------------------------------|-------|---------|--------------------|-----------------|----------|
|                                    | 0.1   | 2.30259 | -0.83403           | -7.83203        | 37.45    |
|                                    | 0.2   | 1.60944 | -0.47538           | -4.49735        | 35.73    |
|                                    | 0.3   | 1.20397 | -0.18553           | -1.75427        | 33.53    |
|                                    | 0.4   | 0.91629 | 0.03742            | 0.82619         | 35.71    |
| 2                                  | 0.5   | 0.69315 | 0.36551            | 3.48372         | 39.75    |
| 3                                  | 0.6   | 0.51033 | 0.67172            | 6.24816         | 41.83    |
| 4                                  | 0.7   | 0.35667 | 1.03053            | 9.74282         | 45.03    |
| 5                                  | 0.8   | 0.22314 | 1.45934            | 14.17515        | 49.46    |
| 10                                 | 0.9   | 0.10536 | 2.25037            | 21.28711        | 52.55    |
| 25                                 | 0.96  | 0.04032 | 3.19853            | 30.22777        | 55.51    |
| 50                                 | 0.98  | 0.02020 | 3.90164            | 35.97535        | 57.76    |
| 100                                | 0.99  | 0.01005 | 4.60015            | 43.47374        | 59.76    |
| 500                                | 0.996 | 0.00200 | 5.21361            | 59.72174        | 94.01    |
| 1000                               | 0.999 | 0.00100 | 5.90726            | 65.27766        | 100.52   |



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## 2.2. MÉTODO DE DISTRIBUCIÓN SQRT-ET<sub>MÁX</sub>

| $X_i$ | Nº AÑOS | $F(x_i)$ | $-lnF(x_i)$ | $y_i$       | $x_i y_i$   | $x_i^2$ |
|-------|---------|----------|-------------|-------------|-------------|---------|
| 21,0  | 1       | 0,010    | 4,60517     | -1,52717963 | -32,0707721 | 441     |
| 23,1  | 2       | 0,030    | 3,50656     | -1,25463490 | -28,9820662 | 533,61  |
| 24,4  | 3       | 0,050    | 2,99573     | -1,09718870 | -26,7714043 | 595,36  |
| 24,5  | 4       | 0,070    | 2,65926     | -0,97804790 | -23,9621736 | 600,25  |
| 25,4  | 5       | 0,090    | 2,40795     | -0,87677394 | -22,3208581 | 645,16  |
| 25,5  | 6       | 0,110    | 2,20727     | -0,79175868 | -20,1898464 | 650,25  |
| 26,5  | 7       | 0,130    | 2,04022     | -0,71305805 | -18,8950384 | 702,25  |
| 26,8  | 8       | 0,150    | 1,89712     | -0,64033694 | -17,16103   | 718,24  |
| 28,6  | 9       | 0,170    | 1,77196     | -0,57208450 | -16,3616166 | 817,96  |
| 29,4  | 10      | 0,190    | 1,66073     | -0,50725799 | -14,9133849 | 864,36  |
| 29,4  | 11      | 0,210    | 1,56065     | -0,44510036 | -13,0856682 | 964,36  |
| 29,5  | 12      | 0,230    | 1,46969     | -0,38504195 | -11,3567375 | 870,25  |
| 31,4  | 13      | 0,250    | 1,38829     | -0,32863426 | -10,2563158 | 985,96  |
| 31,8  | 14      | 0,270    | 1,30833     | -0,26951809 | -8,57067531 | 1011,24 |
| 32,2  | 15      | 0,290    | 1,23787     | -0,21339588 | -6,87134088 | 1036,84 |
| 33,6  | 16      | 0,310    | 1,17116     | -0,15901433 | -5,3092816  | 1128,96 |
| 34,2  | 17      | 0,330    | 1,10866     | -0,10315445 | -3,52768206 | 1169,64 |
| 35,1  | 18      | 0,350    | 1,04982     | -0,04662074 | -1,70658813 | 1232,01 |
| 35,5  | 19      | 0,370    | 0,99425     | 0,00576431  | 0,204632948 | 1260,25 |
| 35,6  | 20      | 0,390    | 0,94161     | 0,06016565  | 2,141697257 | 1267,36 |
| 37,6  | 21      | 0,410    | 0,89160     | 0,11473979  | 4,314215985 | 1413,76 |
| 39,6  | 22      | 0,430    | 0,84397     | 0,16963825  | 6,717674571 | 1568,16 |
| 40,1  | 23      | 0,450    | 0,79851     | 0,22501067  | 9,022927982 | 1608,01 |
| 40,5  | 24      | 0,470    | 0,75602     | 0,28100782  | 11,3802095  | 1640,25 |
| 40,6  | 25      | 0,490    | 0,71335     | 0,33778325  | 13,68022173 | 1640,25 |
| 41,0  | 26      | 0,510    | 0,67334     | 0,39549811  | 16,21542268 | 1681,00 |
| 41,2  | 27      | 0,530    | 0,63488     | 0,45432200  | 18,71806621 | 1697,44 |
| 42,5  | 28      | 0,550    | 0,59784     | 0,51443714  | 21,86357829 | 1806,25 |
| 42,8  | 29      | 0,570    | 0,56212     | 0,57604165  | 24,65459132 | 1831,54 |
| 43,0  | 30      | 0,590    | 0,52763     | 0,63935460  | 27,49225647 | 1849,00 |
| 43,0  | 31      | 0,610    | 0,49430     | 0,70462010  | 30,2956643  | 1849,00 |
| 44,2  | 32      | 0,630    | 0,46204     | 0,77211364  | 34,20463418 | 1952,49 |
| 45,0  | 33      | 0,650    | 0,43075     | 0,84215099  | 37,89679458 | 2025,00 |
| 46,0  | 34      | 0,670    | 0,40048     | 0,91509752  | 42,09448627 | 2116,00 |
| 46,3  | 35      | 0,690    | 0,37106     | 0,99138158  | 45,9009673  | 2143,69 |
| 46,3  | 36      | 0,710    | 0,34249     | 1,07161192  | 49,51100174 | 2143,69 |
| 47,0  | 37      | 0,730    | 0,31471     | 1,15610133  | 54,33576262 | 2209,00 |
| 47,5  | 38      | 0,750    | 0,28768     | 1,24589932  | 59,30480761 | 2265,76 |
| 48,0  | 39      | 0,770    | 0,26136     | 1,34183828  | 64,40823761 | 2304,00 |
| 48,9  | 40      | 0,790    | 0,23572     | 1,44510072  | 70,88542518 | 2391,21 |
| 48,7  | 41      | 0,810    | 0,21072     | 1,55722015  | 77,39384129 | 2470,09 |
| 50,0  | 42      | 0,830    | 0,18633     | 1,68023825  | 84,01191238 | 2500,00 |



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| XI   | Nº ANOS | F(XI) | -lnF(XI) | yi         | xi*yi       | xi^2    |
|------|---------|-------|----------|------------|-------------|---------|
| 50,0 | 43      | 0,850 | 0,16252  | 1,81596079 | 90,84803974 | 2500,00 |
| 50,5 | 44      | 0,870 | 0,13826  | 1,97139774 | 99,56552609 | 2550,25 |
| 55,6 | 45      | 0,830 | 0,11653  | 2,14957378 | 119,5163022 | 3091,36 |
| 56,4 | 46      | 0,910 | 0,09431  | 2,36116085 | 133,1694717 | 3180,96 |
| 57,5 | 47      | 0,920 | 0,07257  | 2,62319412 | 150,8336618 | 3306,25 |
| 62,4 | 48      | 0,950 | 0,05129  | 2,97019525 | 185,3401835 | 3893,76 |
| 72,0 | 49      | 0,970 | 0,03046  | 3,49136695 | 251,3784204 | 5184,00 |
| 78,2 | 50      | 0,990 | 0,01005  | 4,60014923 | 359,7318695 | 6115,24 |

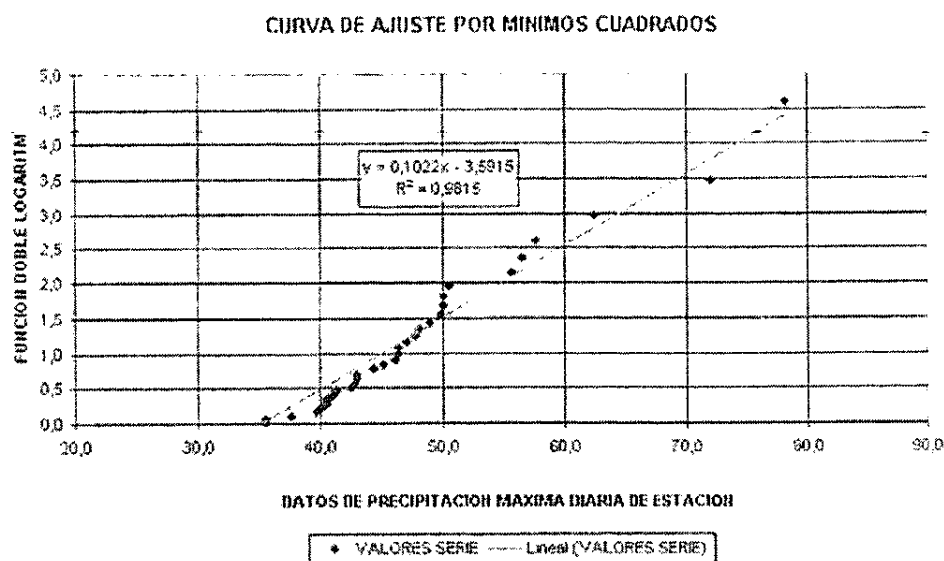
Valores y ecuación del ajuste por mínimos cuadrados

$n = 50$   
 $\sum xy = 1914,59$   
 $\sum x^2 = 90333,02$   
 $\sum y = 28,57$   
 $\sum x = 2037,0$   
 $y = mx + b$   
 $m = 0,102182941$   
 $b = -3,59150834$   
 $R^2 = 0,98151317$

| RESULTADOS         |                                  |
|--------------------|----------------------------------|
| PERIODO DE RETORNO | PRECIPITACIÓN MAXIMA EN 24 HORAS |
| 5                  | 49,83                            |
| 10                 | 57,17                            |
| 25                 | 66,45                            |
| 30                 | 68,27                            |
| 40                 | 71,12                            |
| 50                 | 73,33                            |
| 100                | 80,17                            |
| 200                | 86,97                            |
| 300                | 90,85                            |
| 400                | 93,77                            |
| 500                | 95,96                            |
| 800                | 97,74                            |
| 900                | 101,71                           |
| 1000               | 102,74                           |



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### 2.3. PRECIPITACIONES MÁXIMAS SEGÚN EL MAPA DE ISOLÍNEAS

En el "Mapa para el cálculo de máximas precipitaciones diarias en la España Peninsular" se representan dos familias de líneas. Una de ellas define el valor medio  $P$  de la ley de frecuencia de máximas precipitaciones diarias en cada punto y la otra el coeficiente de variación  $C_v$  de dicha ley. El conocimiento de dicho coeficiente  $C_v$  permite determinar el factor  $K_T$  por el que se debe multiplicar el valor medio  $P$  para obtener la lluvia correspondiente a cada periodo de retorno.

En el plano adjunto se representa la zona en la que se sitúa el presente proyecto. Se tomarán los valores de  $P$  y  $C_v$  para la estación que ha sido estudiada en los dos métodos de distribución anteriores:



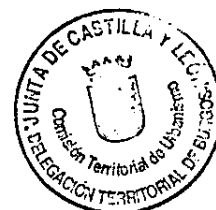
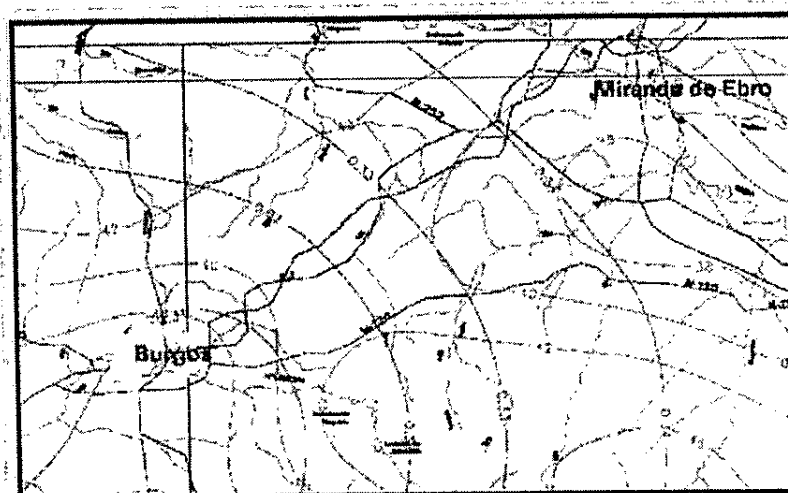
| Estación         | $P$ | $C_v$ |
|------------------|-----|-------|
| 9-030U Briviesca | 41  | 0.328 |

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A la vista de estos valores, consultando la tabla correspondiente al factor de amplificación KT se obtienen las precipitaciones diarias máximas que se muestran en el cuadro siguiente:

| PERIODO DE RETORNO |      |      |      |      |      |      |       |
|--------------------|------|------|------|------|------|------|-------|
| Estación           | 2    | 5    | 10   | 25   | 50   | 100  | 500   |
| 9-030U Briviesca   | 38,0 | 49,5 | 57,9 | 69,0 | 78,3 | 87,6 | 111,2 |

Comparando los resultados obtenidos por los tres métodos se considera más aconsejable adoptar como valores de precipitaciones máximas los obtenidos por el método de precipitaciones máximas según el mapa de isolinéas, algo mayores, con el fin de obtener caudales superiores que conduzcan a un dimensionamiento más generoso de las obras de drenaje, es decir, más del lado de la seguridad.



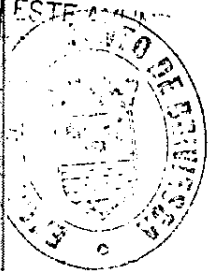
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CUADRO GENERAL DE PARAMETROS NECESARIOS PARA EL CÁLCULO DE LOS MÁXIMOS CAUDALES DE AVENIDA.

| CUADRO GENERAL DE PAÑALES Y LOS NECESARIOS PARA EL CÁLCULO DE LOS MÁXIMOS CAUDALES DE Afluencia |                               |              |             |              |               |      |      |                    |                          |        |        |      |                              |                 |                  |                  |                                         |                 |                 |                  |               |
|-------------------------------------------------------------------------------------------------|-------------------------------|--------------|-------------|--------------|---------------|------|------|--------------------|--------------------------|--------|--------|------|------------------------------|-----------------|------------------|------------------|-----------------------------------------|-----------------|-----------------|------------------|---------------|
| CUENCAS                                                                                         | SUPERFICIES (M <sup>2</sup> ) | CABECERA (m) | DESAGÜE (m) | LONGITUD (m) | PENDIENTE (%) | TC   | K    | ARC-H <sub>0</sub> | MÉTODOS HORARIOS MÁXIMAS |        |        |      | CONDICIONES DE ESCORRIMIENTO |                 |                  |                  | CAUDALES DE CÁLCULO (m <sup>3</sup> /s) |                 |                 |                  | OBSERVACIONES |
|                                                                                                 |                               |              |             |              |               |      |      |                    | 1/25                     | 1/20   | 1/10   | 1/50 | C <sub>25</sub>              | C <sub>50</sub> | C <sub>100</sub> | C <sub>200</sub> | P <sub>0</sub>                          | C <sub>25</sub> | C <sub>50</sub> | C <sub>100</sub> |               |
| 1                                                                                               | 0.007                         | 630          | 655         | 0.061        | 4.97%         | 0.05 | 1.00 | 1.14               | 129.43                   | 184.29 | 209.55 | 13.2 | 0.453                        | 0.537           | 0.453            | 0.618            | 0.117                                   | 0.716           | 0.250           |                  |               |
| 2                                                                                               | 125.184                       | 631          | 631         | 26.9         | 1.67%         | 8.15 | 1.50 | 0.97               | 6.33                     | 8.64   | 10.72  | 37.8 | 0.126                        | 0.189           | 0.126            | 0.265            | 34.452                                  | 55.091          | 115.610         | Rio Osa          |               |
| 3                                                                                               | 0.051                         | 733          | 730         | 0.253        | 0.25%         | 0.34 | 1.02 | 1.08               | 55.26                    | 70.15  | 89.73  | 13.2 | 0.453                        | 0.537           | 0.453            | 0.618            | 0.432                                   | 0.623           | 0.561           |                  |               |
| 4                                                                                               | 0.059                         | 766          | 772         | 1.142        | 2.95%         | 0.58 | 1.04 | 1.09               | 30.36                    | 49.33  | 62.82  | 13.2 | 0.453                        | 0.537           | 0.453            | 0.618            | 0.300                                   | 0.452           | 0.661           |                  |               |
| 5                                                                                               | 0.112                         | 756          | 756         | 0.021        | 9.55%         | 0.28 | 1.01 | 1.06               | 61.0                     | 79.04  | 95.97  | 13.2 | 0.453                        | 0.537           | 0.453            | 0.618            | 0.459                                   | 0.637           | 0.881           |                  |               |
| 6                                                                                               | 2.509                         | 955          | 701         | 5.3          | 2.81%         | 1.50 | 1.14 | 0.94               | 18.12                    | 23.00  | 29.20  | 17.6 | 0.453                        | 0.436           | 0.436            | 0.619            | 0.581                                   | 1.26            | 1.637           | Rio Aguilar      |               |
| 7                                                                                               | 0.007                         | 720          | 715         | 0.176        | 2.84%         | 0.15 | 1.01 | 1.14               | 65.28                    | 105.37 | 137.44 | 13.2 | 0.453                        | 0.537           | 0.453            | 0.619            | 0.777                                   | 0.118           | 0.163           |                  |               |
| 8                                                                                               | 0.059                         | 720          | 655         | 0.256        | 2.04%         | 0.21 | 1.01 | 1.09               | 67.59                    | 95.61  | 109.52 | 13.2 | 0.453                        | 0.537           | 0.453            | 0.618            | 0.505                                   | 0.780           | 1.111           |                  |               |
| 9                                                                                               | 0.389                         | 742          | 695         | 1.344        | 3.50%         | 0.71 | 1.04 | 1.03               | 55.20                    | 44.89  | 56.73  | 13.2 | 0.453                        | 0.537           | 0.453            | 0.618            | 1.709                                   | 2.572           | 2.759           |                  |               |
| 10                                                                                              | 0.057                         | 710          | 695         | 0.534        | 2.01%         | 0.37 | 1.02 | 1.06               | 59.62                    | 66.87  | 84.81  | 13.2 | 0.453                        | 0.537           | 0.453            | 0.618            | 0.453                                   | 0.682           | 0.997           |                  |               |
| 11                                                                                              | 0.414                         | 955          | 695         | 1.561        | 3.84%         | 0.70 | 1.05 | 1.07               | 33.19                    | 42.13  | 51.49  | 13.2 | 0.453                        | 0.537           | 0.453            | 0.618            | 1.347                                   | 2.573           | 4.261           |                  |               |
| 12                                                                                              | 0.575                         | 162          | 695         | 1.924        | 3.41%         | 0.93 | 1.06 | 1.02               | 25.67                    | 30.00  | 40.73  | 13.2 | 0.453                        | 0.537           | 0.453            | 0.618            | 2.096                                   | 3.159           | 4.617           |                  |               |



APROBADO PROVISIONALMENTE POR  
ESTADO  
29 NOV 2009



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HEC-RAS Version 3.1.1 May 2003  
 U.S. Army Corp of Engineers  
 Hydrologic Engineering Center  
 609 Second Street, Suite D  
 Davis, California 95616-4687  
 (916) 756-1104

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PROJECT DATA  
 Project Title: Ampliacion poligono industrial (SI) 2.50  
 Project File : pol\_rto\_250.prj  
 Run Date and Time: 14/01/2005 13:00:13  
 Project in SI units  
 Project Description:  
 Inundabilidad de la ampliacion del poligono industrial de Briviesca

Plan Summary Information:  
 Number of: Cross Sections = 137 Multiple Openings = 0  
 Culverts = 0 Inline Structures = 0  
 Bridges = 0 Lateral Structures = 0

Computational Information  
 Water surface calculation tolerance = 0.003  
 Critical depth calculation tolerance = 0.003  
 Maximum number of iterations = 20  
 Maximum difference tolerance = 0.1  
 Flow tolerance factor = 0.001

Computation Options  
 Critical depth computed only where necessary  
 Conveyance Calculation Method: At breaks in n values only  
 Friction Slope Method: Average Conveyance  
 Computational Flow Regime: Mixed Flow

FLOW DATA

| Flow Data (m <sup>3</sup> /s) | Reach     | RS | 25a | 100a | 500a |
|-------------------------------|-----------|----|-----|------|------|
| River OCA                     | principal | 5  | 35  | 70   | 120  |

APROBADO PROVISIONALMENTE POR  
 ESTE AVANCEMENTO... 29... NOV. 2005

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## Boundary Conditions

|       |           |         |          |            |
|-------|-----------|---------|----------|------------|
| River | Reach     | Profile | Upstream | Downstream |
| OCA   | principal | 25a     | Critical | Critical   |

## GEOMETRY DATA

## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 5

## INPUT

Description: 5

| Station Elevation Data |        | num= | 12     |     | Elev   |     | Sta    | Elev | Sta    | Elev |
|------------------------|--------|------|--------|-----|--------|-----|--------|------|--------|------|
| Sta                    | Elev   | Sta  | Elev   | Sta | Elev   | Sta | Elev   | Sta  | Elev   | Sta  |
| 100                    | 710    | 347  | 705    | 389 | 704.25 | 393 | 702.25 | 394  | 701.25 | 705  |
| 397                    | 701.25 | 400  | 701.25 | 401 | 702.25 | 405 | 704.25 | 503  |        |      |
| 668                    | 710    | 748  |        |     |        |     |        |      |        |      |

## Manning's n Values

| Sta | n Val | Sta | n Val | Sta | n Val |
|-----|-------|-----|-------|-----|-------|
| 100 | .02   | 389 | .04   | 405 | .035  |

| Bank Sta: | Left | Right | Lengths: | Left Channel | Right  | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|--------------|--------|-------|--------|--------|
| 389       | 405  |       |          | 19.916       | 19.916 |       | .1     | .3     |

## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.97222\*

## INPUT

Description:

| Station Elevation Data |         | num=    | 18      |         | Elev    |         | Sta     | Elev    | Sta     | Elev |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Sta                    | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta  |
| 100                    | 710.139 | 146.071 | 709.094 | 198.023 | 707.933 | 347.142 | 704.935 | 389.167 | 704.188 |      |
| 393.189                | 702.19  | 393.356 | 702.025 | 394.194 | 701.188 | 397.194 | 701.188 | 400.194 | 701.188 |      |
| 401.032                | 702.025 | 401.2   | 702.19  | 405.222 | 704.188 | 503.96  | 704.943 | 670.203 | 709.848 |      |
| 718.308                | 713.343 | 719.101 | 713.539 | 750.806 | 715.972 |         |         |         |         |      |

## Manning's n Values

| Sta | n Val | Sta     | n Val | Sta     | n Val |
|-----|-------|---------|-------|---------|-------|
| 100 | .02   | 389.167 | .04   | 405.222 | .035  |

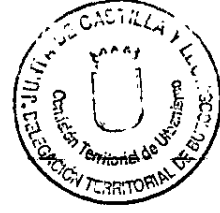
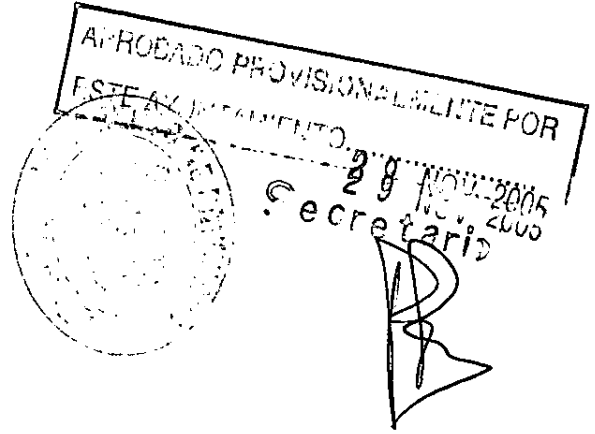
| Bank Sta: | Left    | Right | Lengths: | Left Channel | Right  | Coeff | Contr. | Expan. |
|-----------|---------|-------|----------|--------------|--------|-------|--------|--------|
| 389.167   | 405.222 |       |          | 19.916       | 19.916 |       | .1     | .3     |

## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.94444\*

## INPUT

Description:



Station Elevation Data num= 18  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 710.278 146.097 709.12 198.079 707.849 347.285 704.87 389.333 704.115  
 393.378 702.129 393.546 701.968 394.389 701.125 397.389 701.125 400.389 701.125  
 401.432 701.968 401.4 702.129 405.444 704.125 504.921 704.886 672.406 709.697  
 720.871 713.104 721.669 713.438 713.611 715.944

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 389.333 .04 405.444 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 389.333 405.444 19.916 19.916 19.916 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 4.91666\*

INPUT  
 Description:  
 Station Elevation Data num= 18  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 710.417 146.124 709.146 198.136 707.766 347.427 704.805 389.5 704.062  
 393.567 702.069 393.736 701.91 394.583 701.062 397.583 701.062 400.583 701.062  
 401.431 701.91 401.6 702.069 405.667 704.062 505.881 704.829 674.609 709.545  
 723.433 712.866 724.238 713.337 715.917

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 389.5 .04 405.667 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 389.5 405.667 19.916 19.916 19.916 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 4.88888\*

INPUT  
 Description:  
 Station Elevation Data num= 18  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 710.556 146.15 709.172 198.192 707.682 347.57 704.74 389.667 704  
 393.756 702.009 393.926 701.852 394.778 701 397.778 701 400.778 701  
 401.63 701.852 401.8 702.009 405.889 704 506.841 704.772 676.812 709.393  
 725.996 712.628 726.806 713.235 715.222 715.889

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 389.667 .04 405.889 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 389.667 405.889 19.916 19.916 19.916 .1 .3

# CROSS SECTION

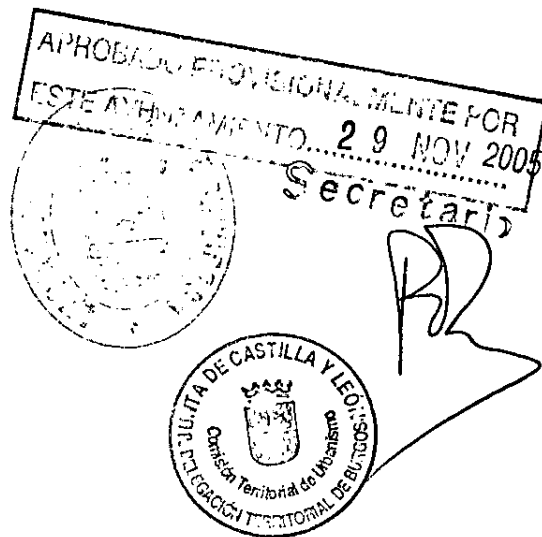
RIVER: OCA  
 REACH: principal RS: 4.86111\*



INPUT  
Description:  
Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 710.694 146.177 709.197 198.249 707.598 347.712 704.675 389.833 703.938  
393.944 701.949 394.116 701.794 394.972 700.938 397.972 700.938 400.972 700.938  
401.829 701.794 402.701.949 406.111 703.938 507.802 704.715 679.015 709.242  
728.559 712.389 729.375 713.134 762.028 715.861  
Manning's n Values num= 3  
Sta n Val Sta n Val Sta n Val  
100 .02 389.833 .04 406.111 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
389.833 406.111 19.916 19.916 .1 .3  
CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.83333\*  
INPUT  
Description:  
Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 710.833 146.203 709.223 198.305 707.514 347.855 704.61 390 703.875  
394.133 701.888 394.306 701.736 395.167 700.875 398.167 700.875 401.167 700.875  
402.028 701.736 402.2 701.888 406.333 703.875 508.762 704.658 681.218 709.09  
731.121 712.151 731.943 713.033 764.833 715.833  
Manning's n Values num= 3  
Sta n Val Sta n Val Sta n Val  
100 .02 390 390 .04 406.333 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
390 406.333 19.916 19.916 .1 .3  
CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.80555\*  
INPUT  
Description:  
Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 710.972 146.23 709.249 198.362 707.43 347.997 704.545 390.167 703.812  
394.322 701.828 394.495 701.678 395.361 700.812 398.361 700.812 401.361 700.812  
402.227 701.678 402.4 701.828 406.556 703.812 509.722 704.601 683.421 708.938  
733.684 711.912 734.512 712.932 767.639 715.806  
Manning's n Values num= 3  
Sta n Val Sta n Val Sta n Val  
100 .02 390.167 .04 406.556 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
390.167 406.556 19.916 19.916 .1 .3  
CROSS SECTION



RIVER: OCA  
 REACH: principal RS: 4.77777\*

INPUT  
 Description:  
 Station Elevation Data num= 18  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 711.111 146.257 709.275 198.418 707.346 348.114 704.48 390.333 703.75  
 394.511 701.768 394.685 701.62 395.556 700.75 398.556 700.75 401.556 700.75  
 402.426 701.62 402.6 701.768 406.778 703.75 510.683 704.544 685.624 708.786  
 736.246 711.674 737.081 712.831 770.444 715.778

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 390.333 .04 406.778 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 390.333 406.778 19.916 19.916 .1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 4.75\*

INPUT  
 Description:  
 Station Elevation Data num= 18  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 711.25 146.283 709.301 198.475 707.263 348.282 704.415 390.5 703.688  
 394.7 701.708 394.875 701.562 395.75 700.688 398.75 700.688 401.75 700.688  
 402.625 701.562 402.8 701.708 407.703 688 511.643 704.487 687.827 708.635  
 738.809 711.436 739.649 712.73 773.25 715.75

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 390.5 .04 407 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 390.5 407 19.916 19.916 .1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 4.72222\*

INPUT  
 Description:  
 Station Elevation Data num= 18  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 711.389 146.31 709.327 198.531 707.179 348.424 704.35 390.667 703.625  
 394.889 701.647 395.065 701.505 395.944 700.625 398.944 700.625 401.944 700.625  
 402.824 701.505 403 701.647 407.222 703.625 512.603 704.43 690.03 708.483  
 741.372 711.197 742.218 712.629 776.056 715.722

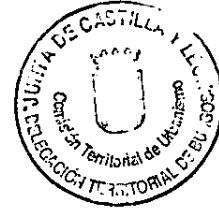
Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 390.667 .04 407.222 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 390.667 407.222 19.916 19.916 .1 .3

APROBADO FORMALMENTE POR  
 ESTE A... 29 NOV 2005

Secretario

*[Signature]*



## CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 4.69444\*

## INPUT

Description:  
 Station Elevation Data num= 18  

| Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    |
|---------|---------|---------|---------|---------|---------|---------|---------|
| 100     | 711.528 | 146.336 | 709.353 | 198.588 | 707.095 | 348.567 | 704.285 |
| 395.078 | 701.587 | 395.355 | 701.447 | 396.139 | 700.562 | 399.139 | 700.562 |
| 403.023 | 701.447 | 403.2   | 701.587 | 407.444 | 703.582 | 513.563 | 704.372 |
| 743.934 | 710.959 | 744.786 | 712.528 | 778.861 | 715.694 |         |         |

Manning's n Values num= 3  

| Sta | n Val | Sta     | n Val |
|-----|-------|---------|-------|
| 100 | .02   | 390.833 | .04   |
|     |       | 407.444 | .035  |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 390.833 407.444 19.916 19.916 .1 .3

## CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 4.66666\*

## INPUT

Description:  
 Station Elevation Data num= 18  

| Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    |
|---------|---------|---------|---------|---------|---------|---------|---------|
| 100     | 711.667 | 146.363 | 709.379 | 198.644 | 707.011 | 348.709 | 704.22  |
| 395.267 | 701.527 | 395.444 | 701.389 | 396.333 | 700.5   | 399.333 | 700.5   |
| 403.222 | 701.389 | 403.4   | 701.527 | 407.667 | 703.5   | 514.524 | 704.315 |
| 746.497 | 710.721 | 747.355 | 712.427 | 781.667 | 715.667 |         |         |

Manning's n Values num= 3  

| Sta | n Val | Sta     | n Val |
|-----|-------|---------|-------|
| 100 | .02   | 391     | .04   |
|     |       | 407.667 | .035  |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 391 407.667 19.916 19.916 .1 .3

## CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 4.63888\*

## INPUT

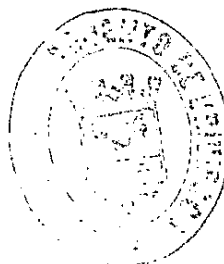
Description:  
 Station Elevation Data num= 18  

| Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    |
|---------|---------|---------|---------|---------|---------|---------|---------|
| 100     | 711.806 | 146.389 | 709.405 | 198.701 | 706.927 | 348.852 | 704.155 |
| 395.456 | 701.466 | 395.634 | 701.331 | 396.528 | 700.438 | 399.528 | 700.438 |
| 403.421 | 701.331 | 403.6   | 701.466 | 407.889 | 703.438 | 515.484 | 704.258 |
| 749.06  | 710.482 | 749.923 | 712.326 | 784.472 | 715.639 |         |         |

Manning's n Values num= 3  

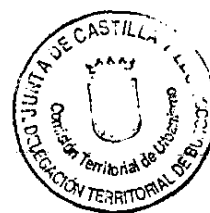
| Sta | n Val | Sta     | n Val |
|-----|-------|---------|-------|
| 100 | .02   | 391.167 | .04   |
|     |       | 407.889 | .035  |

APROBADO PROVISIONALMENTE POR  
 ESTE AYUNTAMIENTO... 2.9.10.2005



Secretario

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Bank Sta: Left 391.167 Right 407.889 Lengths: Left Channel 19.916 Right 19.916 Coeff Contr. .1 Expan. .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.61111\*

INPUT

Description: Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 711.944 146.416 709.43 198.757 706.844 348.994 704.09 391.333 703.375  
395.644 701.406 395.824 701.273 396.722 700.375 399.722 700.375 402.722 700.375  
403.62 701.273 403.8 701.406 408.111 703.375 516.444 704.201 698.842 707.876  
751.622 710.244 752.492 712.224 787.278 715.611

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 391.333 .04 408.111 .035

Bank Sta: Left 391.333 Right 408.111 Lengths: Left Channel 19.916 Right 19.916 Coeff Contr. .1 Expan. .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.58333\*

INPUT

Description: Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 712.083 146.442 709.456 198.814 706.76 349.137 704.025 391.5 703.312  
395.833 701.346 396.014 701.215 396.917 700.312 399.917 700.312 402.917 700.312  
403.819 701.215 404 701.346 408.333 703.312 517.405 704.144 701.045 707.725  
754.185 710.006 755.06 712.123 790.083 715.583

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 391.5 .04 408.333 .035

Bank Sta: Left 391.5 Right 408.333 Lengths: Left Channel 19.916 Right 19.916 Coeff Contr. .1 Expan. .3

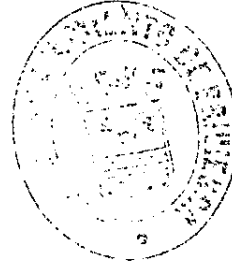
CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.55555\*

INPUT

Description: Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 712.222 146.469 709.482 198.87 706.676 349.279 703.96 391.667 703.25  
396.022 701.286 396.204 701.157 397.111 700.25 400.111 700.25 403.111 700.25  
404.019 701.157 404.2 701.286 408.556 703.25 518.365 704.087 703.248 707.573  
756.747 709.767 757.629 712.022 792.889 715.556

APROBADO PERMANENTEMENTE POR  
ESTE AYUNTAMIENTO 2-9-NOV-2005



Secretaria  
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Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 391.667 .04 408.556 .035

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.  
391.667 408.556 19.916 19.916 .1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.52777\*

INPUT  
Description: Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 712.361 146.495 709.508 198.927 706.592 349.422 703.895 391.833 703.188  
396.211 701.225 396.394 701.1 397.306 700.188 400.306 700.188 403.306 700.188  
404.218 701.1 404.4 701.225 408.778 703.188 519.325 704.03 705.451 707.421  
759.31 709.529 760.198 711.921 795.694 715.528

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 391.833 .04 408.778 .035

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.  
391.833 408.778 19.916 19.916 .1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.5\*

INPUT  
Description: Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 712.5 146.522 709.534 198.983 706.508 349.564 703.83 392 703.125  
396.4 701.165 396.583 701.042 397.5 700.125 400.5 700.125 403.5 700.125  
404.417 701.042 404.6 701.165 409 703.125 520.286 703.973 707.654 707.27  
761.873 709.29 762.766 711.82 798.5 715.5

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 392 .04 409 .035

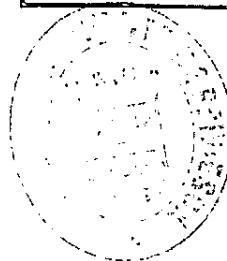
Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.  
392 409 19.916 19.916 .1 .3

# CROSS SECTION

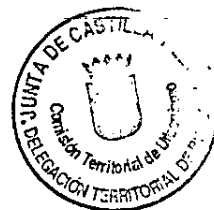
RIVER: OCA  
REACH: principal RS: 4.47222\*

INPUT  
Description: Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 712.639 146.549 709.56 199.04 706.425 349.706 703.765 392.167 703.062  
396.589 701.105 396.773 700.984 397.694 700.062 400.694 700.062 403.694 700.062

APROBADO POR ESTE AYUNTAMIENTO  
SECRETARÍA DE AYUNTAMIENTO  
2.9. NOV. 2005



Secretario  
*[Signature]*





404.616 700.984 404.8 701.105 409.222 703.062 521.246 703.916 709.858 707.118  
764.435 709.052 765.335 711.719 801.306 715.472

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 392.167 .04 409.222 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
392.167 409.222 19.916 19.916 .1 .3

#### CROSS SECTION

RIVER: OCA RS: 4.44444\*  
REACH: principal

#### INPUT

Description: num= 18  
Station Elevation Data Elev Sta Elev Sta Elev Sta Elev  
100 712.778 146.575 709.586 199.096 706.341 349.849 703.7 392.333 703  
396.778 701.044 396.963 700.926 397.889 700 400.889 700 403.889 700  
404.815 700.926 405 701.044 409.444 703 522.206 703.839 712.061 706.966  
766.998 708.814 767.903 711.618 804.111 715.444

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 392.333 .04 409.444 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
392.333 409.444 19.916 19.916 .1 .3

#### CROSS SECTION

RIVER: OCA RS: 4.41666\*  
REACH: principal

#### INPUT

Description: num= 18  
Station Elevation Data Elev Sta Elev Sta Elev Sta Elev  
100 712.917 146.602 709.612 199.153 706.257 349.991 703.635 392.5 702.938  
396.967 700.984 397.153 700.868 398.083 699.938 401.083 699.938 404.083 699.938  
405.014 700.868 405.2 700.984 409.667 702.938 523.167 703.802 714.264 706.814  
769.561 708.575 770.472 711.517 806.917 715.417

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 392.5 .04 409.667 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
392.5 409.667 19.916 19.916 .1 .3

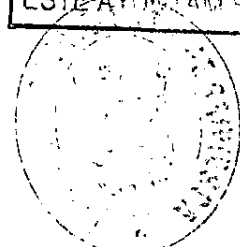
#### CROSS SECTION

RIVER: OCA RS: 4.38888\*  
REACH: principal

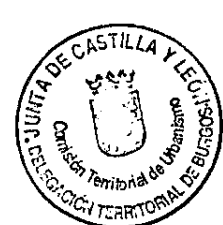
#### INPUT

Description: num= 18  
Station Elevation Data

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 2-9-NOV-2005



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| Sta | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 100 | 713.056 | 146.628 | 709.638 | 199.209 | 706.173 | 350.134 | 703.57  | 392.667 | 702.875 |
| 397 | 156     | 700.924 | 397.343 | 700.81  | 398.278 | 699.875 | 401.278 | 699.875 | 404.278 |
| 405 | 213     | 700.81  | 405.4   | 700.924 | 409.889 | 702.875 | 524.127 | 703.745 | 716.467 |
| 772 | 123     | 708.337 | 773.04  | 711.416 | 809.722 | 715.389 |         |         |         |

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 392.667 .04 409.889 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 392.667 409.889 19.916 19.916 .1 .3

# CROSS SECTION

RIVER: OCA RS: 4.36111\*  
 REACH: principal

## INPUT

Description: num= 18  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 713.333 146.628 709.638 199.209 706.173 350.134 703.57 392.667 702.875  
 397.344 700.864 397.532 700.752 398.472 699.812 401.278 699.812 404.278 699.812  
 405.412 700.752 405.6 700.864 410.111 702.812 525.087 703.688 718.67 706.511  
 774.686 708.099 775.609 711.314 812.528 715.361

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 392.833 .04 410.111 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 392.833 410.111 19.916 19.916 .1 .3

# CROSS SECTION

RIVER: OCA RS: 4.33333\*  
 REACH: principal

## INPUT

Description: num= 18  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 713.333 146.681 709.689 199.322 706.006 350.419 703.44 393 702.75  
 397.533 700.803 397.722 700.694 398.667 699.75 401.667 699.75 404.667 699.75  
 405.611 700.694 405.8 700.803 410.333 702.75 526.048 703.631 720.873 706.359  
 777.248 707.86 778.177 711.213 815.333 715.333

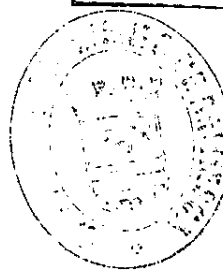
Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 393 .04 410.333 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 393 410.333 19.916 19.916 .1 .3

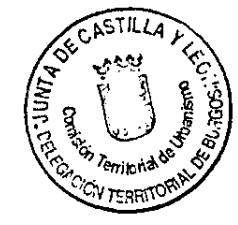
# CROSS SECTION

RIVER: OCA RS: 4.30555\*  
 REACH: principal

APROBADO PROVISIONALMENTE POR  
 ESTE AVIA TAFAMENTO 29 NOV 2005



Secretario



INPUT  
Description:  
Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 713.472 146.708 709.715 199.379 705.922 350.561 703.375 393.187 702.688  
397.722 700.743 397.912 700.637 398.861 699.688 401.861 699.688 404.861 699.688  
405.81 700.637 406 700.743 410.556 702.688 527.008 703.574 723.076 706.208  
779.811 707.622 780.746 711.112 818.139 715.306  
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 393.167 .04 410.556 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
393.167 410.556 19.916 19.916 19.916 .1 .3  
CROSS SECTION

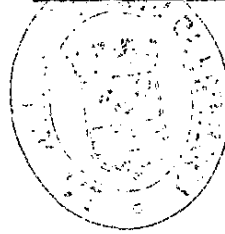
RIVER: OCA  
REACH: principal RS: 4.2777\*

INPUT  
Description:  
Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 713.611 146.734 709.741 199.435 705.838 350.704 703.31 393.332 702.625  
397.911 700.683 398.102 700.579 399.056 699.625 402.056 699.625 405.056 699.625  
406.009 700.579 406.2 700.683 410.778 702.625 527.968 703.517 723.279 706.056  
782.374 707.384 783.314 711.011 820.944 715.278  
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 393.333 .04 410.778 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
393.333 410.778 19.916 19.916 19.916 .1 .3  
CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.25\*

INPUT  
Description:  
Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 713.75 146.761 709.767 199.492 705.754 350.846 703.245 393.5 702.562  
398.1 700.622 398.292 700.521 399.25 699.562 402.25 699.562 405.25 699.562  
406.208 700.521 406.4 700.622 411 702.562 528.929 703.46 727.482 705.904  
784.936 707.145 785.883 710.91 823.75 715.25  
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 393.5 .04 411 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
393.5 411 19.916 19.916 19.916 .1 .3  
CROSS SECTION

APROBADO PERSONALMENTE POR  
ESTE ASESORADO... 29 NOV 2005



Secretario



RIVER: OCA  
 REACH: principal RS: 4.22222\*

INPUT

| Description: |         | Station Elevation Data |         | num= 18 |         | Elev Sta |         | Elev Sta |         | Elev Sta |      | Elev Sta |      | Elev Sta |      |
|--------------|---------|------------------------|---------|---------|---------|----------|---------|----------|---------|----------|------|----------|------|----------|------|
| Sta          | Elev    | Sta                    | Elev    | Sta     | Elev    | Sta      | Elev    | Sta      | Elev    | Sta      | Elev | Sta      | Elev | Sta      | Elev |
| 100          | 713.889 | 146.788                | 709.793 | 199.548 | 705.67  | 350.988  | 703.18  | 393.667  | 702.5   |          |      |          |      |          |      |
| 398          | 289     | 700.562                | 398.481 | 700.463 | 399.444 | 699.5    | 402.444 | 699.5    | 405.444 | 699.5    |      |          |      |          |      |
| 406          | 407     | 700.463                | 406.6   | 700.562 | 411.222 | 702.5    | 529.889 | 703.403  | 729.685 | 705.753  |      |          |      |          |      |
| 787          | 499     | 706.907                | 788.452 | 710.809 | 826.556 | 715.222  |         |          |         |          |      |          |      |          |      |

Manning's n Values num= 3

| Sta | n Val | Sta     | n Val |
|-----|-------|---------|-------|
| 100 | .02   | 393.667 | .04   |
|     |       | 411.222 | .035  |

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.

| Left    | Right   | Left Channel | Right  | Coeff | Contr. | Expan. |
|---------|---------|--------------|--------|-------|--------|--------|
| 393.667 | 411.222 | 19.916       | 19.916 | .1    | .1     | .3     |

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 4.19444\*

INPUT

| Description: |         | Station Elevation Data |         | num= 18 |         | Elev Sta |         | Elev Sta |         | Elev Sta |      | Elev Sta |      | Elev Sta |      |
|--------------|---------|------------------------|---------|---------|---------|----------|---------|----------|---------|----------|------|----------|------|----------|------|
| Sta          | Elev    | Sta                    | Elev    | Sta     | Elev    | Sta      | Elev    | Sta      | Elev    | Sta      | Elev | Sta      | Elev | Sta      | Elev |
| 100          | 714.028 | 146.814                | 709.819 | 199.605 | 705.587 | 351.131  | 703.115 | 393.833  | 702.438 |          |      |          |      |          |      |
| 398          | 478     | 700.502                | 398.671 | 700.405 | 399.639 | 699.438  | 402.639 | 699.438  | 405.833 | 699.438  |      |          |      |          |      |
| 406          | 606     | 700.405                | 406.8   | 700.502 | 411.444 | 702.438  | 530.849 | 703.345  | 731.888 | 705.601  |      |          |      |          |      |
| 790          | 062     | 706.669                | 791.02  | 710.708 | 829.361 | 715.194  |         |          |         |          |      |          |      |          |      |

Manning's n Values num= 3

| Sta | n Val | Sta     | n Val |
|-----|-------|---------|-------|
| 100 | .02   | 393.833 | .04   |
|     |       | 411.444 | .035  |

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.

| Left    | Right   | Left Channel | Right  | Coeff | Contr. | Expan. |
|---------|---------|--------------|--------|-------|--------|--------|
| 393.833 | 411.444 | 19.916       | 19.916 | .1    | .1     | .3     |

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 4.16666\*

INPUT

| Description: |         | Station Elevation Data |         | num= 18 |         | Elev Sta |         | Elev Sta |         | Elev Sta |      | Elev Sta |      | Elev Sta |      |
|--------------|---------|------------------------|---------|---------|---------|----------|---------|----------|---------|----------|------|----------|------|----------|------|
| Sta          | Elev    | Sta                    | Elev    | Sta     | Elev    | Sta      | Elev    | Sta      | Elev    | Sta      | Elev | Sta      | Elev | Sta      | Elev |
| 100          | 714.167 | 146.841                | 709.845 | 199.661 | 705.503 | 351.273  | 703.05  | 394      | 702.375 |          |      |          |      |          |      |
| 398          | 667     | 700.442                | 398.861 | 700.347 | 399.833 | 699.375  | 402.833 | 699.375  | 405.833 | 699.375  |      |          |      |          |      |
| 406          | 806     | 700.347                | 407     | 700.442 | 411.667 | 702.375  | 531.81  | 703.288  | 734.091 | 705.449  |      |          |      |          |      |
| 792          | 624     | 706.43                 | 793.589 | 710.607 | 832.167 | 715.167  |         |          |         |          |      |          |      |          |      |

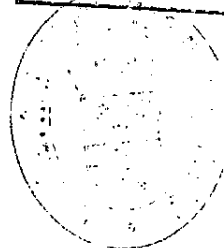
Manning's n Values num= 3

| Sta | n Val | Sta     | n Val |
|-----|-------|---------|-------|
| 100 | .02   | 394     | .04   |
|     |       | 411.667 | .035  |

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.

| Left | Right   | Left Channel | Right  | Coeff | Contr. | Expan. |
|------|---------|--------------|--------|-------|--------|--------|
| 394  | 411.667 | 19.916       | 19.916 | .1    | .1     | .3     |

APROBADO POR LA COMISIÓN TERRITORIAL DE BUENOS AIRES  
 ESTE AYU. N.º 2.9.1004.2005



Secretario

*[Handwritten signature]*

## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.13888\*

## INPUT

Description:  
Station Elevation Data num= 18  
Sta Elev Sta Sta Elev Sta Elev Sta Elev  
100 714.306 146.867 709.871 199.718 705.419 351.416 702.985 394.167 702.312  
398.856 700.381 399.051 700.289 400.028 699.312 403.028 699.312 406.028 699.312  
407.005 700.289 407.2 700.381 411.889 702.312 532.77 703.231 736.294 705.298  
795.187 706.192 796.157 710.506 834.972 715.139

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 394.167 .04 411.889 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
394.167 411.889 19.916 19.916 .1 .3

## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.11111\*

## INPUT

Description:  
Station Elevation Data num= 18  
Sta Elev Sta Sta Elev Sta Elev Sta Elev  
100 714.444 146.894 709.896 199.774 705.335 351.558 702.92 394.333 702.25  
399.044 700.321 399.241 700.232 400.222 699.25 403.222 699.25 406.222 699.25  
407.204 700.232 407.4 700.321 412.111 702.25 533.73 703.174 738.497 705.146  
797.75 705.933 798.726 710.404 837.778 715.111

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 394.333 .04 412.111 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
394.333 412.111 19.916 19.916 .1 .3

## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 4.08333\*

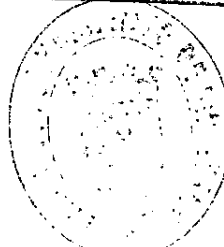
## INPUT

Description:  
Station Elevation Data num= 18  
Sta Elev Sta Sta Elev Sta Elev Sta Elev  
100 714.583 146.92 709.922 199.831 705.251 351.701 702.855 394.5 702.188  
399.233 700.261 399.431 700.174 400.417 699.188 403.417 699.188 406.417 699.188  
407.403 700.174 407.6 700.261 412.333 702.188 534.69 703.117 740.7 704.994  
800.312 705.715 801.294 710.303 840.583 715.083

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 394.5 .04 412.333 .035



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO..2-8-NOV-2005



Secretaria

Bank Sta: Left Right  
394.5 412.333  
Lengths: Left Channel Right  
19.916 19.916  
Coeff Contr. Expan.  
.1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal  
RS: 4.05555\*

INPUT  
Description: Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 714.722 146.947 709.948 199.887 705.168 351.843 702.79 394.667 702.125  
399.422 700.201 399.62 700.116 400.611 699.125 403.611 699.125 406.611 699.125  
407.602 700.116 407.8 700.201 412.556 702.125 535.651 703.06 742.903 704.842  
802.875 705.477 803.863 710.202 843.389 715.056

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 394.667 .04 412.556 .035

Bank Sta: Left Right  
394.667 412.556  
Lengths: Left Channel Right  
19.916 19.916  
Coeff Contr. Expan.  
.1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal  
RS: 4.02777\*

INPUT  
Description: Station Elevation Data num= 18  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 714.861 146.973 709.974 199.943 705.084 351.986 702.725 394.833 702.062  
399.611 700.14 399.81 700.058 400.806 699.062 403.806 699.062 406.806 699.062  
407.801 700.058 408 700.14 412.778 702.062 536.611 703.003 745.106 704.691  
805.437 705.238 806.431 710.101 846.194 715.028

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 394.833 .04 412.778 .035

Bank Sta: Left Right  
394.833 412.778  
Lengths: Left Channel Right  
19.916 19.916  
Coeff Contr. Expan.  
.1 .3

CROSS SECTION

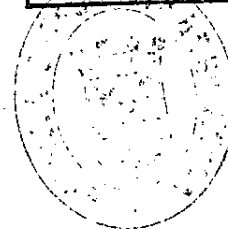
RIVER: OCA  
REACH: principal  
RS: 4

INPUT  
Description: 4 Station Elevation Data num= 13  
Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 147 710 200 705 395 702  
401 699 404 699 407 699 413 702  
808 705 809 710 849 715

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 394.833 .04 412.778 .035



APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO... 29 Nov. 2005



Secretario

100 .02 395 .04 413 .035  
 Bank Sta: Left 395 Right 413  
 Lengths: Left Channel 19.862 Right 19.862  
 Coeff Contr. .1 Expan. .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 3.98039\*

INPUT  
 Description: num= 21  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 121.667 712.772 138.063 710.988 147.675 709.964 164.415 708.376  
 189.595 705.862 201.436 704.896 399.235 701.863 403.235 700.294 404.235 699.863  
 405.235 698.863 408.235 698.863 411.235 698.863 413.235 699.863 413.235 700.294  
 417.235 701.863 651.718 703.723 744.034 704.514 808.647 705.06 809.638 709.963  
 849.275 714.902

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 399.235 .04 417.235 .035  
 Bank Sta: Left 399.235 Right 417.235  
 Lengths: Left Channel 19.862 Right 19.862  
 Coeff Contr. .1 Expan. .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 3.96078\*

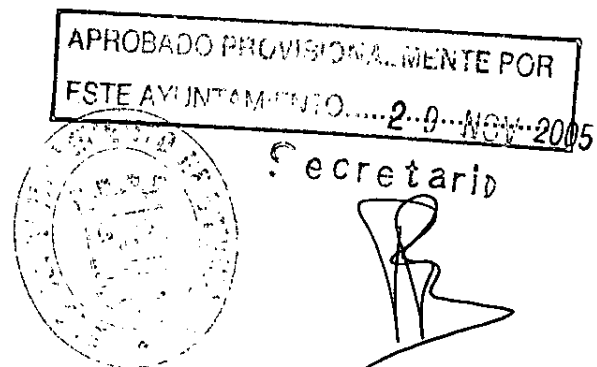
INPUT  
 Description: num= 21  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 121.973 712.817 138.602 710.969 148.35 709.928 165.326 708.308  
 190.863 705.862 202.871 704.793 403.471 701.725 407.471 700.188 408.471 699.725  
 409.471 698.725 412.471 698.725 415.471 698.725 416.471 699.725 417.471 700.188  
 421.471 701.725 653.804 703.648 745.273 704.524 809.294 705.12 810.276 709.926  
 849.549 714.804

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 403.471 .04 421.471 .035  
 Bank Sta: Left 403.471 Right 421.471  
 Lengths: Left Channel 19.862 Right 19.862  
 Coeff Contr. .1 Expan. .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 3.94117\*

INPUT  
 Description: num= 21  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 122.28 712.861 139.141 710.949 149.024 709.893 166.238 708.241  
 192.131 705.742 204.307 704.689 407.706 701.588 411.706 700.082 412.706 699.588



413.706 698.588 416.706 698.588 419.706 698.588 420.706 699.588 421.706 700.082  
 425.706 701.588 655.889 703.574 746.513 704.534 809.941 705.181 810.914 709.889  
 849.824 714.706

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 407.706 .04 425.706 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 407.706 425.706 19.862 19.862 19.862 19.862 .1 .3

# CROSS SECTION

RIVER: OCA RS: 3.92156\*  
 REACH: principal

INPUT  
 Description: Station Elevation Data num= 21  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 122.587 712.906 139.679 710.929 149.699 709.857 167.15 708.173  
 193.399 705.623 205.743 704.586 411.941 701.451 415.941 699.977 416.941 699.451  
 417.941 698.451 420.941 698.451 423.941 698.451 424.941 699.451 425.941 699.977  
 429.941 701.451 657.975 703.499 747.752 704.544 810.588 705.241 811.552 709.852  
 850.098 714.608

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 411.941 .04 429.941 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 411.941 429.941 19.862 19.862 19.862 19.862 .1 .3

# CROSS SECTION

RIVER: OCA RS: 3.90196\*  
 REACH: principal

INPUT  
 Description: Station Elevation Data num= 21  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 122.893 712.95 140.218 710.909 150.374 709.821 168.061 708.106  
 194.667 705.503 207.178 704.482 416.176 701.314 420.176 699.871 421.176 699.314  
 422.176 698.314 425.176 698.314 426.176 698.314 429.176 699.314 430.176 699.871  
 434.176 701.314 660.061 703.425 748.991 704.553 811.235 705.301 812.189 709.815  
 850.373 714.51

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 416.176 .04 434.176 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 416.176 434.176 19.862 19.862 19.862 19.862 .1 .3

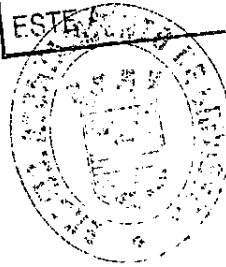
# CROSS SECTION

RIVER: OCA RS: 3.88235\*  
 REACH: principal

0.



APROBADO FORMALMENTE POR  
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Secretario

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INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 123.2 712.995 140.757 710.889 151.049 709.785 168.973 708.038  
195.935 705.383 208.614 704.379 420.412 701.176 424.412 699.785 425.412 699.176  
426.412 698.176 429.412 698.176 432.412 698.176 433.412 699.176 434.412 699.785  
438.412 701.176 662.146 703.35 750.231 704.563 811.882 705.361 812.827 709.778  
850.647 714.412

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 420.412 .04 438.412 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
420.412 438.412 19.862 19.862 19.862 .1 .3

CROSS SECTION

RIVER: OCA  
REACH: Principal RS: 3.86274\*

INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 123.507 713.04 141.296 710.87 151.723 709.75 169.885 707.971  
197.204 705.264 210.05 704.275 424.647 701.039 428.647 699.659 429.647 699.039  
430.647 698.039 433.647 698.039 436.647 698.039 437.647 699.039 438.647 699.659  
442.647 701.039 664.232 703.276 751.47 704.573 812.529 705.421 813.465 709.742  
850.922 714.314

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 424.647 .04 442.647 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
424.647 442.647 19.862 19.862 19.862 .1 .3

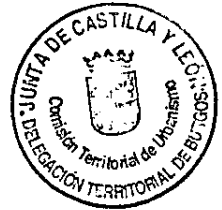
CROSS SECTION

RIVER: OCA  
REACH: Principal RS: 3.84313\*

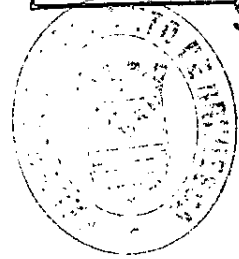
INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 123.813 713.084 141.834 710.85 152.398 709.714 170.797 707.903  
198.472 705.144 211.486 704.171 428.882 700.902 432.882 699.553 433.882 698.902  
434.882 697.902 437.882 697.902 440.882 697.902 441.882 698.902 442.882 699.553  
446.882 700.902 666.318 703.202 752.709 704.582 813.176 705.482 814.103 709.705  
851.196 714.216

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 428.882 .04 446.882 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
428.882 446.882 19.862 19.862 19.862 .1 .3



APROBADO POR ESTE A/IN... 29 NOV. 2005



Secretario

## CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 3.82352\*

## INPUT

| Description: | Station | Elevation | Data    | num=    | 21      | Sta     | Elev    | Sta     | Elev    | Sta | Elev | Sta | Elev |
|--------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|-----|------|-----|------|
| 100          | 715     | 124.12    | 713.129 | 142.373 | 710.83  | 153.073 | 709.678 | 171.708 | 707.836 |     |      |     |      |
| 199.74       | 705.025 | 212.921   | 704.068 | 433.118 | 700.765 | 437.118 | 699.447 | 438.118 | 698.765 |     |      |     |      |
| 439.118      | 697.765 | 442.118   | 697.765 | 445.118 | 697.765 | 446.118 | 698.765 | 447.118 | 699.447 |     |      |     |      |
| 451.118      | 700.765 | 668.403   | 703.127 | 733.949 | 704.592 | 813.823 | 705.542 | 814.741 | 709.668 |     |      |     |      |
| 851.471      | 714.118 |           |         |         |         |         |         |         |         |     |      |     |      |

Manning's n Values  
 Sta n Val Sta n Val  
 100 .02 433.118 .04 451.118 .035

Bank Sta: Left Right  
 433.118 451.118  
 Lengths: Left Channel Right  
 19.862 19.862  
 Coeff Contr. Expan.  
 .1 .3

## CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 3.80392\*

## INPUT

| Description: | Station | Elevation | Data    | num=    | 21      | Sta     | Elev    | Sta     | Elev    | Sta | Elev | Sta | Elev |
|--------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|-----|------|-----|------|
| 100          | 715     | 124.427   | 713.173 | 142.912 | 710.81  | 153.748 | 709.642 | 172.562 | 707.768 |     |      |     |      |
| 201.008      | 704.905 | 214.357   | 703.964 | 437.353 | 700.627 | 441.353 | 699.341 | 442.353 | 698.627 |     |      |     |      |
| 443.353      | 697.627 | 446.353   | 697.627 | 449.353 | 697.627 | 450.353 | 698.627 | 451.353 | 699.341 |     |      |     |      |
| 455.353      | 700.627 | 670.489   | 703.053 | 755.188 | 704.602 | 814.47  | 705.602 | 815.379 | 709.631 |     |      |     |      |
| 831.745      | 714.02  |           |         |         |         |         |         |         |         |     |      |     |      |

Manning's n Values  
 Sta n Val Sta n Val  
 100 .02 437.353 .04 455.353 .035

Bank Sta: Left Right  
 437.353 455.353  
 Lengths: Left Channel Right  
 19.862 19.862  
 Coeff Contr. Expan.  
 .1 .3

## CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 3.78431\*

## INPUT

| Description: | Station | Elevation | Data    | num=    | 21      | Sta     | Elev    | Sta     | Elev    | Sta | Elev | Sta | Elev |
|--------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|-----|------|-----|------|
| 100          | 715     | 124.733   | 713.218 | 143.451 | 710.791 | 154.423 | 709.607 | 173.532 | 707.701 |     |      |     |      |
| 202.276      | 704.785 | 215.793   | 703.861 | 441.588 | 700.49  | 445.588 | 699.235 | 446.588 | 698.49  |     |      |     |      |
| 447.588      | 697.49  | 450.588   | 697.49  | 453.588 | 697.49  | 454.588 | 698.49  | 455.588 | 699.235 |     |      |     |      |
| 459.588      | 700.49  | 672.575   | 702.978 | 756.427 | 704.612 | 815.117 | 705.662 | 816.017 | 709.594 |     |      |     |      |
| 852.02       | 713.922 |           |         |         |         |         |         |         |         |     |      |     |      |

Manning's n Values  
 num= 3



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Sta n Val Sta n Val Sta n Val  
 100 .02 441.588 .04 459.588 .035  
 Bank Sta: Left Right  
 441.588 459.588  
 Lengths: Left Channel Right  
 19.862 19.862  
 Coeff Contr. Expan.  
 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal  
 RS: 3.76470\*

## INPUT

Description: num= 21  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 125.04 713.262 143.989 710.771 155.097 709.571 174.443 707.633  
 203.544 704.686 217.228 703.757 445.824 700.353 449.824 699.129 450.824 698.353  
 451.824 697.353 454.824 697.353 457.824 697.353 458.824 698.353 459.824 699.129  
 463.824 700.353 674.66 702.904 757.667 704.621 815.764 703.722 816.655 709.557  
 852.294 713.824

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 445.824 .04 463.824 .035

Bank Sta: Left Right  
 445.824 463.824  
 Lengths: Left Channel Right  
 19.862 19.862  
 Coeff Contr. Expan.  
 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal  
 RS: 3.74509\*

## INPUT

Description: num= 21  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 125.347 713.307 144.528 710.751 155.772 709.535 175.355 707.565  
 204.812 704.546 218.664 703.654 450.059 700.216 454.059 699.024 455.059 698.216  
 456.059 697.216 459.059 697.216 462.059 697.216 463.059 698.216 464.059 699.024  
 468.059 700.216 676.746 702.829 758.906 704.631 816.411 705.782 817.292 709.52  
 852.569 713.725

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 450.059 .04 468.059 .035

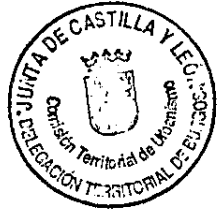
Bank Sta: Left Right  
 450.059 468.059  
 Lengths: Left Channel Right  
 19.862 19.862  
 Coeff Contr. Expan.  
 .1 .3

# CROSS SECTION

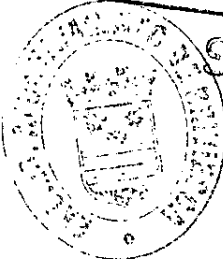
RIVER: OCA  
 REACH: principal  
 RS: 3.72549\*

## INPUT

Description: num= 21  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 125.653 713.351 145.067 710.731 156.447 709.499 176.267 707.498



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206.08 704.426 220.1 703.55 454.294 700.078 458.294 698.918 459.294 698.078  
460.294 697.078 463.294 697.078 466.294 697.078 467.294 698.078 468.294 698.918  
472.294 700.078 678.831 702.755 760.145 704.641 817.058 705.843 817.93 709.483  
852.843 713.627

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 454.294 .04 472.294 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
454.294 472.294 19.862 19.862 .1 .3

#### CROSS SECTION

RIVER: OCA RS: 3.70588\*  
REACH: principal

INPUT  
Description: Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 125.96 713.396 145.605 710.712 157.122 709.464 177.179 707.443  
207.348 704.307 221.535 703.446 458.529 699.941 462.529 698.812 463.529 697.941  
464.529 696.941 467.529 696.941 470.529 696.941 471.529 697.941 472.529 698.812  
476.529 699.941 680.917 702.68 761.385 704.65 817.705 705.903 818.568 709.446  
853.118 713.529

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 458.529 .04 476.529 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
458.529 476.529 19.862 19.862 .1 .3

#### CROSS SECTION

RIVER: OCA RS: 3.68627\*  
REACH: principal

INPUT  
Description: Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 126.267 713.441 146.144 710.692 157.796 709.428 178.09 707.363  
208.616 704.187 222.971 703.343 462.765 699.804 466.765 698.706 467.765 697.804  
468.765 696.804 471.765 696.804 474.765 696.804 475.765 697.804 476.765 698.706  
480.765 699.804 683.003 702.606 762.624 704.66 818.352 705.963 819.206 709.409  
853.392 713.431

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 462.765 .04 480.765 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
462.765 480.765 19.862 19.862 .1 .3

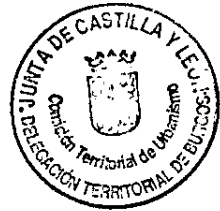
#### CROSS SECTION

RIVER: OCA RS: 3.66666\*  
REACH: principal

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 NOV 2005



Secretario



INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 126.573 713.485 146.683 710.672 158.471 709.392 179.002 707.295  
209.885 704.088 224.407 703.239 467 699.667 471 698.6 472 697.667  
473 696.667 476 696.667 479 696.667 480 697.667 481 698.6  
485 699.667 685.088 702.531 763.863 704.67 818.998 706.023 819.844 709.372  
853.667 713.333  
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 467 .04 485 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
467 485 19.862 19.862 19.862 .1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.64705\*

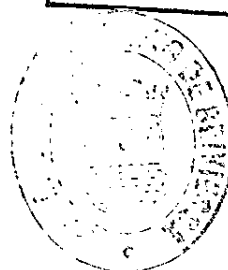
INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 126.88 713.53 147.222 710.652 159.146 709.356 179.914 707.228  
211.153 703.948 225.842 703.136 471.235 699.529 475.235 698.494 476.235 697.529  
477.235 696.529 480.235 696.529 483.235 696.529 484.235 697.529 485.235 698.494  
489.235 699.529 687.174 702.457 765.103 704.68 819.645 706.083 820.482 709.355  
853.941 713.235  
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 471.235 .04 489.235 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
471.235 489.235 19.862 19.862 19.862 .1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.62745\*

INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 127.187 713.574 147.76 710.633 159.821 709.321 180.825 707.16  
212.421 703.828 227.278 703.032 475.471 699.392 479.471 698.388 480.471 697.392  
481.471 696.392 484.471 696.392 487.471 696.392 488.471 697.392 489.471 698.388  
493.471 699.392 689.26 702.383 766.342 704.689 820.292 706.144 821.12 709.298  
854.216 713.137  
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 475.471 .04 493.471 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
475.471 493.471 19.862 19.862 19.862 .1 .3

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 9 Nov. 2005.



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## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.60784\*

INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 127.493 713.619 148.299 710.613 160.496 709.285 181.737 707.093  
213.689 703.709 228.714 702.928 479.706 699.255 483.706 698.282 484.706 697.255  
485.706 696.255 491.706 696.255 492.706 697.255 493.706 698.282  
497.706 699.255 691.345 702.308 767.581 704.699 820.939 706.204 821.758 709.261  
854.49 713.039

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 479.706 .035  
Lengths: Left Channel Right Coeff Contr. Expan.  
479.706 497.706 19.862 19.862 .1 .3

## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.58823\*

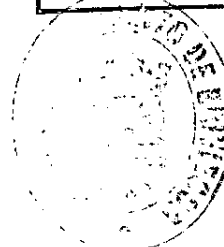
INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 127.8 713.663 148.838 710.593 161.17 709.249 182.649 707.025  
214.957 703.589 230.15 702.825 483.941 699.118 487.941 698.177 488.941 697.118  
489.941 696.118 492.941 696.118 495.941 696.118 496.941 697.118 497.941 698.177  
501.941 699.118 693.431 702.234 768.82 704.709 821.586 706.264 822.396 709.225  
854.765 712.941

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 483.941 .035  
Lengths: Left Channel Right Coeff Contr. Expan.  
483.941 501.941 19.862 19.862 .1 .3

## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.56862\*

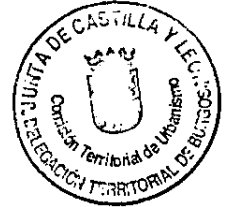
INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 128.107 713.708 149.37 710.573 161.845 709.213 183.561 706.958  
216.225 703.469 231.585 702.721 488.176 698.98 492.176 698.071 493.176 696.98  
494.176 695.98 497.176 695.98 500.176 695.98 501.176 696.98 502.176 698.071  
506.176 698.98 695.517 702.159 770.06 704.718 822.233 706.324 823.033 709.188  
855.039 712.843



APROBADO PROVISIONAL MENTE POR  
ESTE AYUNTAMIENTO 8.9. NOV. 2005

Secretaria

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Manning's n Values num= 3 Sta n Val Sta n Val  
 Sta n Val .04 506.176 .035  
 Lengths: Left Channel Right  
 19.862 19.862 19.862  
 Bank Sta: Left Right  
 488.176 506.176  
 Coeff Contr. Expan.  
 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal  
 RS: 3.54902\*

INPUT  
 Description: num= 21 Sta Elev Sta Elev Sta Elev Sta Elev  
 Station Elevation Data Elev Sta Elev Sta Elev Sta Elev  
 100 715 128.413 713.752 149.915 710.553 162.52 709.178 184.472 706.89  
 217.493 703.35 233.021 702.618 492.412 698.843 496.412 697.965 497.412 696.843  
 498.412 695.843 501.412 695.843 504.412 695.843 505.412 696.843 506.412 697.965  
 510.412 698.843 697.602 702.085 771.299 704.728 822.88 706.384 823.671 709.151  
 855.314 712.745

Manning's n Values num= 3 Sta n Val Sta n Val  
 Sta n Val .04 510.412 .035  
 Lengths: Left Channel Right  
 19.862 19.862 19.862  
 Bank Sta: Left Right  
 492.412 510.412  
 Coeff Contr. Expan.  
 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal  
 RS: 3.52941\*

INPUT  
 Description: num= 21 Sta Elev Sta Elev Sta Elev Sta Elev  
 Station Elevation Data Elev Sta Elev Sta Elev Sta Elev  
 100 715 128.72 713.797 150.454 710.534 163.195 709.142 185.384 706.823  
 218.761 703.23 234.457 702.514 496.647 698.706 500.647 697.859 501.647 696.706  
 502.647 695.706 505.647 695.706 508.647 695.706 509.647 696.706 510.647 697.859  
 514.647 698.706 699.688 702.01 772.538 704.738 823.527 706.445 824.309 709.114  
 855.588 712.647

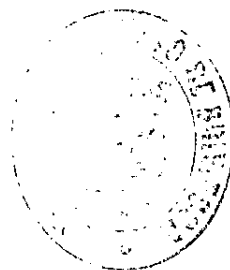
Manning's n Values num= 3 Sta n Val Sta n Val  
 Sta n Val .04 514.647 .035  
 Lengths: Left Channel Right  
 19.862 19.862 19.862  
 Bank Sta: Left Right  
 496.647 514.647  
 Coeff Contr. Expan.  
 .1 .3

# CROSS SECTION

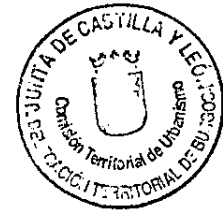
RIVER: OCA  
 REACH: principal  
 RS: 3.50980\*

INPUT  
 Description: num= 21 Sta Elev Sta Elev Sta Elev Sta Elev  
 Station Elevation Data Elev Sta Elev Sta Elev Sta Elev  
 100 715 128.72 713.797 150.454 710.534 163.195 709.142 185.384 706.823  
 218.761 703.23 234.457 702.514 496.647 698.706 500.647 697.859 501.647 696.706  
 502.647 695.706 505.647 695.706 508.647 695.706 509.647 696.706 510.647 697.859  
 514.647 698.706 699.688 702.01 772.538 704.738 823.527 706.445 824.309 709.114  
 855.588 712.647

APROBADO PROVISIONALMENTE POR  
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100 715 129.027 713.842 150.993 710.514 163.869 709.106 186.296 706.755  
 220.029 703.11 235.892 702.411 500.882 698.569 504.882 697.753 505.882 696.569  
 506.882 695.569 512.882 695.569 513.882 696.569 514.882 697.753  
 518.882 698.569 701.773 701.936 773.778 704.747 824.174 706.505 824.947 709.077  
 855.863 712.549

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 500.882 .04 518.882 .035

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.  
 500.882 518.882 19.862 19.862 19.862 .1 .3

# CROSS SECTION

RIVER: OCA RS: 3.49019\*  
 REACH: principal

## INPUT

Description: num= 21  
 Station Elevation Data Elev Sta Elev Sta Elev Sta Elev  
 100 715 129.333 713.886 151.532 710.494 164.544 709.07 187.207 706.688  
 221.297 702.991 237.328 702.307 505.118 698.431 509.118 697.647 510.118 696.431  
 511.118 695.431 514.118 695.431 517.118 695.431 518.118 696.431 519.118 697.647  
 523.118 698.431 703.859 701.861 775.017 704.757 824.821 706.565 825.585 709.04  
 856.137 712.451

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 505.118 .04 523.118 .035

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.  
 505.118 523.118 19.862 19.862 19.862 .1 .3

# CROSS SECTION

RIVER: OCA RS: 3.47058\*  
 REACH: principal

## INPUT

Description: num= 21  
 Station Elevation Data Elev Sta Elev Sta Elev Sta Elev  
 100 715 129.64 713.931 152.07 710.474 165.219 709.034 188.119 706.62  
 222.566 702.871 238.764 702.203 509.353 698.294 513.353 697.541 514.353 696.294  
 515.353 695.294 518.353 695.294 521.353 695.294 522.353 696.294 523.353 697.541  
 527.353 698.294 705.945 701.787 776.256 704.767 825.468 706.625 826.223 709.003  
 856.412 712.553

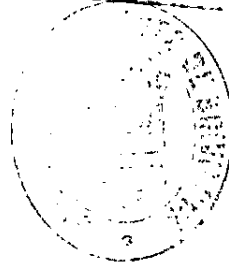
Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 509.353 .04 527.353 .035

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.  
 509.353 527.353 19.862 19.862 19.862 .1 .3

# CROSS SECTION

RIVER: OCA

APROBADO PROVISIONALMENTE FOR  
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Secretario

*[Handwritten signature]*





REACH: principal RS: 3.45098\*

INPUT

| Description:           | Sta             | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta  | Elev |
|------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|------|------|
| Station Elevation Data | num=            | 21      |         |         |         |         |         |         |      |      |
| Sta                    | Elev            | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev |      |
| 100                    | 715.129.947     | 713.975 | 152.609 | 710.455 | 165.894 | 708.999 | 189.031 | 706.553 |      |      |
| 223.834                | 702.752.240.199 | 702.1   | 513.588 | 698.157 | 517.588 | 697.435 | 518.588 | 696.157 |      |      |
| 519.588                | 695.157.522.588 | 695.157 | 525.588 | 695.157 | 526.588 | 696.157 | 527.588 | 697.435 |      |      |
| 531.588                | 698.157.708.03  | 701.712 | 777.496 | 704.777 | 826.115 | 706.685 | 826.861 | 708.966 |      |      |
| 856.686                | 712.235         |         |         |         |         |         |         |         |      |      |

Manning's n Values

| Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------|
| 100 | .02 513.588 |     | .035  |

Bank Sta: Left Right

| Lengths: Left Channel | Right  | Coeff | Contr. | Expan. |
|-----------------------|--------|-------|--------|--------|
| 19.862                | 19.862 | .1    | .3     |        |

CROSS SECTION

RIVER: OCA

REACH: principal RS: 3.43137\*

INPUT

| Description:           | Sta             | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta  | Elev |
|------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|------|------|
| Station Elevation Data | num=            | 21      |         |         |         |         |         |         |      |      |
| Sta                    | Elev            | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev |      |
| 100                    | 715.130.253     | 714.02  | 153.148 | 710.435 | 166.568 | 708.963 | 189.942 | 706.485 |      |      |
| 225.102                | 702.632.241.635 | 701.996 | 517.824 | 698.02  | 521.824 | 697.329 | 522.824 | 696.02  |      |      |
| 523.824                | 695.02.526.824  | 695.02  | 529.824 | 695.02  | 530.824 | 696.02  | 531.824 | 697.329 |      |      |
| 535.824                | 698.02.710.116  | 701.638 | 778.735 | 704.786 | 826.762 | 706.746 | 827.499 | 708.929 |      |      |
| 856.961                | 712.157         |         |         |         |         |         |         |         |      |      |

Manning's n Values

| Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------|
| 100 | .02 517.824 |     | .035  |

Bank Sta: Left Right

| Lengths: Left Channel | Right  | Coeff | Contr. | Expan. |
|-----------------------|--------|-------|--------|--------|
| 19.862                | 19.862 | .1    | .3     |        |

CROSS SECTION

RIVER: OCA

REACH: principal RS: 3.41176\*

INPUT

| Description:           | Sta             | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta  | Elev |
|------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|------|------|
| Station Elevation Data | num=            | 21      |         |         |         |         |         |         |      |      |
| Sta                    | Elev            | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev |      |
| 100                    | 715.130.56      | 714.064 | 153.687 | 710.415 | 167.243 | 708.927 | 190.854 | 706.418 |      |      |
| 226.37                 | 702.512.243.071 | 701.893 | 522.059 | 697.882 | 526.059 | 697.224 | 527.059 | 695.882 |      |      |
| 528.059                | 694.882.531.059 | 694.882 | 534.059 | 694.882 | 535.059 | 695.882 | 536.059 | 697.204 |      |      |
| 540.059                | 697.882.712.202 | 701.564 | 779.974 | 704.796 | 827.409 | 706.806 | 828.137 | 708.897 |      |      |
| 857.235                | 712.059         |         |         |         |         |         |         |         |      |      |

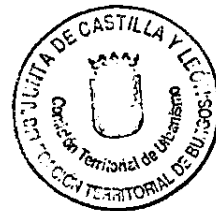
Manning's n Values

| Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------|
| 100 | .02 522.059 |     | .035  |

Bank Sta: Left Right

| Lengths: Left Channel | Right  | Coeff | Contr. | Expan. |
|-----------------------|--------|-------|--------|--------|
| 19.862                | 19.862 | .1    | .3     |        |

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522.059 540.059 19.862 19.862 19.862 .1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.39215\*

| INPUT                       |         |         |        |         |         |         |         |         |         |
|-----------------------------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| Description:                |         |         |        |         |         |         |         |         |         |
| Station                     | Elev    | Sta     | num=   | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     |
| 100                         | 715     | 130.867 | 21     | 714.109 | 154.225 | 710.395 | 167.918 | 708.891 | 191.766 |
| 227.638                     | 702.393 | 244.506 |        | 701.789 | 526.294 | 697.745 | 530.294 | 697.118 | 531.294 |
| 532.294                     | 694.745 | 533.294 |        | 694.745 | 538.294 | 694.745 | 539.294 | 695.745 | 540.294 |
| 544.294                     | 697.745 | 714.287 |        | 701.489 | 781.214 | 704.806 | 828.056 | 706.866 | 828.774 |
| 857.51                      | 711.961 |         |        |         |         |         |         |         |         |
| Manning's n Values          |         |         |        |         |         |         |         |         |         |
| Sta                         | n       | Val     | Sta    | n       | Val     | Sta     | n       | Val     | Sta     |
| 100                         | .02     | 526.294 | 3      | .04     | 544.294 | .035    |         |         |         |
| Lengths: Left Channel Right |         |         |        |         |         |         |         |         |         |
| 526.294                     | 544.294 |         | 19.862 | 19.862  | 19.862  |         |         |         |         |
| Coeff Contr. Expan.         |         |         |        |         |         |         |         |         |         |
|                             |         |         |        |         |         |         |         |         |         |

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.37254\*

| INPUT                       |         |         |        |         |         |         |         |         |         |
|-----------------------------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| Description:                |         |         |        |         |         |         |         |         |         |
| Station                     | Elev    | Sta     | num=   | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     |
| 100                         | 715     | 131.173 | 21     | 714.153 | 154.764 | 710.376 | 168.593 | 708.856 | 192.678 |
| 228.906                     | 702.273 | 245.942 |        | 701.686 | 530.529 | 697.608 | 534.529 | 697.012 | 535.529 |
| 536.529                     | 694.608 | 539.529 |        | 694.608 | 542.529 | 694.608 | 543.529 | 695.608 | 544.529 |
| 548.529                     | 697.608 | 716.373 |        | 701.415 | 782.453 | 704.815 | 828.703 | 706.926 | 829.412 |
| 857.784                     | 711.863 |         |        |         |         |         |         |         |         |
| Manning's n Values          |         |         |        |         |         |         |         |         |         |
| Sta                         | n       | Val     | Sta    | n       | Val     | Sta     | n       | Val     | Sta     |
| 100                         | .02     | 530.529 | 3      | .04     | 548.529 | .035    |         |         |         |
| Lengths: Left Channel Right |         |         |        |         |         |         |         |         |         |
| 530.529                     | 548.529 |         | 19.862 | 19.862  | 19.862  |         |         |         |         |
| Coeff Contr. Expan.         |         |         |        |         |         |         |         |         |         |
|                             |         |         |        |         |         |         |         |         |         |

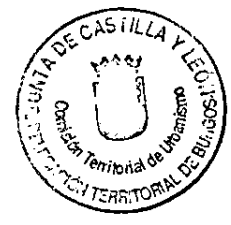
CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.35294\*

| INPUT        |         |         |      |         |         |         |         |         |         |
|--------------|---------|---------|------|---------|---------|---------|---------|---------|---------|
| Description: |         |         |      |         |         |         |         |         |         |
| Station      | Elev    | Sta     | num= | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     |
| 100          | 715     | 131.48  | 21   | 714.198 | 155.303 | 710.356 | 169.268 | 708.82  | 193.589 |
| 230.174      | 702.153 | 247.378 |      | 701.582 | 534.765 | 697.471 | 538.765 | 696.906 | 539.765 |
| 540.765      | 694.471 | 543.765 |      | 694.471 | 546.765 | 694.471 | 547.765 | 695.471 | 548.765 |
| 552.765      | 697.471 | 718.459 |      | 701.34  | 783.692 | 704.825 | 829.35  | 706.986 | 830.05  |
| 858.059      | 711.765 |         |      |         |         |         |         |         |         |

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SECRETARIO



Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 534.765 .04 552.765  
Lengths: Left Channel Right  
534.765 552.765 19.862 19.862  
Coeff Contr. Expan.  
.1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.33333\*

## INPUT

Description: num= 21  
Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 131.787 714.243 155.841 710.336 169.942 708.784 194.501 706.148  
231.442 702.034 248.814 701.478 539 697.333 543 696.8 544 695.333  
545 694.333 548 694.333 551 694.333 552 695.333 553 696.8  
557 697.333 720.544 701.266 784.932 704.835 829.997 707.047 830.688 708.745  
858.333 711.667

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 539 .04 557  
Lengths: Left Channel Right  
539 557 19.862 19.862  
Coeff Contr. Expan.  
.1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.31372\*

## INPUT

Description: num= 21  
Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 132.093 714.287 156.38 710.316 170.617 708.748 195.413 706.08  
232.71 701.914 250.249 701.375 543.235 697.196 547.235 696.694 548.235 695.196  
549.235 694.196 552.235 694.196 555.235 694.196 556.235 695.196 557.235 696.694  
561.235 697.196 722.63 701.191 786.171 704.845 830.644 707.107 831.326 708.708  
858.608 711.569

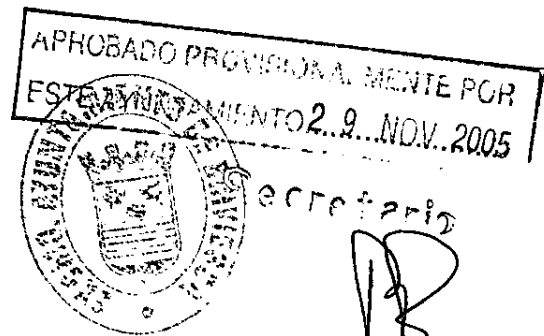
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 543.235 .04 561.235  
Lengths: Left Channel Right  
543.235 561.235 19.862 19.862  
Coeff Contr. Expan.  
.1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.29411\*

## INPUT

Description: num= 21  
Station Elevation Data





APROBADO PROVISIONALMENTE POR  
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Secretario

| Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 100     | 715     | 132.4   | 714.332 | 156.919 | 710.297 | 171.292 | 708.713 | 196.324 | 706.013 |
| 233.978 | 701.794 | 251.685 | 701.271 | 547.471 | 697.059 | 551.471 | 696.588 | 552.471 | 695.059 |
| 533.471 | 694.059 | 556.471 | 694.059 | 559.471 | 694.059 | 560.471 | 695.059 | 561.471 | 696.588 |
| 565.471 | 697.059 | 724.715 | 701.117 | 787.41  | 704.834 | 831.291 | 707.167 | 831.964 | 708.671 |
| 858.882 | 711.471 |         |         |         |         |         |         |         |         |

Manning's n Values  
Sta n Val Sta n Val  
100 .02 547.471 .04 565.471 .035

Bank Sta: Left Right  
547.471 565.471  
Lengths: Left Channel Right  
19.862 19.862  
Coeff Contr. Expan.  
.1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.27451\*

INPUT

Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 132.707 714.376 157.458 710.277 171.967 708.677 197.236 705.945  
235.247 701.675 253.121 701.168 551.706 696.922 555.706 696.482 556.706 694.922  
537.706 693.922 560.706 693.922 563.706 693.922 564.706 694.922 565.706 696.482  
569.706 696.922 726.801 701.042 788.65 704.864 831.938 707.227 832.602 708.634  
859.157 711.373

Manning's n Values  
Sta n Val Sta n Val  
100 .02 551.706 .04 569.706 .035

Bank Sta: Left Right  
551.706 569.706  
Lengths: Left Channel Right  
19.862 19.862  
Coeff Contr. Expan.  
.1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3.25490\*

INPUT

Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 133.013 714.421 157.996 710.257 172.641 708.641 198.148 705.878  
236.515 701.555 254.556 701.064 555.941 696.784 559.941 696.376 560.941 694.784  
561.941 693.784 564.941 693.784 567.941 693.784 568.941 694.784 569.941 696.376  
573.941 696.784 728.887 700.968 789.889 704.874 832.585 707.287 833.24 708.597  
859.431 711.275

Manning's n Values  
Sta n Val Sta n Val  
100 .02 555.941 .04 573.941 .035

Bank Sta: Left Right  
555.941 573.941  
Lengths: Left Channel Right  
19.862 19.862  
Coeff Contr. Expan.  
.1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 3.23529\*

INPUT  
 Description:  
 Station Elevation Data num= 21  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 133.32 714.465 158.535 710.237 173.316 708.605 199.06 705.81  
 237.783 701.436 255.992 700.961 560.176 696.647 564.176 696.271 565.176 694.647  
 566.176 693.647 569.176 693.647 572.176 693.647 573.176 694.647 574.176 696.271  
 578.176 696.647 730.972 700.893 791.128 704.883 833.232 707.347 833.878 708.56  
 859.706 711.176

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 560.176 .04 578.176 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 560.176 578.176 19.862 19.862 19.862 .1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 3.21568\*

INPUT  
 Description:  
 Station Elevation Data num= 21  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 133.627 714.51 159.074 710.217 173.991 708.57 199.971 705.743  
 239.051 701.316 257.428 700.857 564.412 696.51 568.412 696.165 569.412 694.51  
 570.412 693.51 573.412 693.51 576.412 693.51 577.412 694.51 578.412 696.165  
 582.412 696.51 733.058 700.819 792.367 704.893 833.879 707.408 834.515 708.523  
 859.98 711.078

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 564.412 .04 582.412 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 564.412 582.412 19.862 19.862 19.862 .1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 3.19607\*

INPUT  
 Description:  
 Station Elevation Data num= 21  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 133.933 714.554 159.613 710.198 174.666 708.334 200.883 705.575  
 240.319 701.196 258.863 700.753 568.647 696.373 572.647 696.059 573.647 694.373  
 574.647 693.373 577.647 693.373 580.647 693.373 581.647 694.373 582.647 696.059  
 586.647 696.373 735.144 700.745 793.607 704.903 834.526 707.468 835.153 708.486  
 860.255 710.98

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 568.647 .04 586.647 .035

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Bank Sta: Left Right  
568.647 586.647  
Lengths: Left Channel Right  
19.862 19.862  
Coeff Contr. Expan.  
.1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal  
RS: 3.17647\*

INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 134.24 714.599 160.151 710.178 175.341 708.498 201.795 705.608  
241.587 701.077 260.299 700.65 572.882 696.235 576.882 695.953 577.882 694.235  
578.882 693.235 581.882 693.235 584.882 693.235 585.882 694.235 586.882 695.953  
590.882 696.235 737.229 700.67 794.846 704.913 835.173 707.528 835.791 708.449  
860.529 710.882

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 572.882 .04 590.882 .035  
Lengths: Left Channel Right  
19.862 19.862  
Coeff Contr. Expan.  
.1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal  
RS: 3.15686\*

INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 134.547 714.644 160.69 710.138 176.015 708.462 202.706 705.54  
242.855 700.957 261.735 700.546 577.118 696.098 581.118 695.847 582.118 694.098  
583.118 693.098 586.118 693.098 589.118 693.098 590.118 694.098 591.118 695.847  
593.118 696.098 739.315 700.596 796.085 704.922 835.82 707.588 836.429 708.412  
860.804 710.784

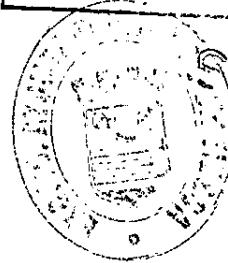
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 577.118 .04 595.118 .035  
Lengths: Left Channel Right  
19.862 19.862  
Coeff Contr. Expan.  
.1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal  
RS: 3.13725\*

INPUT  
Description:  
Station Elevation Data num= 21  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 134.853 714.688 161.229 710.138 176.69 708.427 203.618 705.473  
244.123 700.837 263.17 700.443 581.353 695.961 585.353 695.741 586.353 693.961  
587.353 692.961 590.353 692.961 593.353 692.961 594.353 693.961 595.353 695.741  
599.353 695.961 741.401 700.521 797.325 704.932 836.467 707.648 837.067 708.375

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 NOV 2005



Secretario

*[Handwritten signature]*



861.078 710.686

Manning's n Values num= 3 Sta n Val  
Sta n Val .04 599.353 .035  
100 .02 581.353

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
581.353 599.353 19.862 19.862 19.862 .1 .3

CROSS SECTION

RIVER: OCA RS: 3.11764\*  
REACH: principal

INPUT

Description: num= 21 Sta Elev Sta Elev Sta Elev  
Station Elevation Data Elev Sta Elev Sta Elev Sta Elev  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 135.16 714.733 161.768 710.119 177.365 708.391 204.53 705.405  
245.391 700.718 264.606 700.339 585.588 695.824 589.588 695.635 590.588 693.824  
591.588 692.824 594.588 692.824 597.588 692.824 598.588 693.824 599.588 695.635  
603.588 695.824 743.486 700.447 798.564 704.942 837.114 707.709 837.705 708.338  
861.353 710.588

Manning's n Values num= 3 Sta n Val  
Sta n Val .04 603.588 .035  
100 .02 585.588

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
585.588 603.588 19.862 19.862 19.862 .1 .3

CROSS SECTION

RIVER: OCA RS: 3.09804\*  
REACH: principal

INPUT

Description: num= 21 Sta Elev Sta Elev Sta Elev  
Station Elevation Data Elev Sta Elev Sta Elev Sta Elev  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 135.467 714.777 162.306 710.099 178.04 708.355 205.441 705.338  
246.659 700.598 266.042 700.235 589.823 695.686 593.823 695.529 594.823 693.886  
595.823 692.686 598.823 692.686 601.823 692.686 602.823 693.686 603.823 695.529  
607.823 695.686 745.572 700.372 799.803 704.951 837.761 707.769 838.343 708.301  
861.627 710.49

Manning's n Values num= 3 Sta n Val  
Sta n Val .04 607.823 .035  
100 .02 589.823

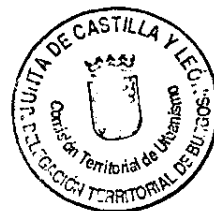
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
589.823 607.823 19.862 19.862 19.862 .1 .3

CROSS SECTION

RIVER: OCA RS: 3.07843\*  
REACH: principal

INPUT

Description:



APROBADO PROVISORIAMENTE POR  
ESTE AYUNTAMIENTO 2-9-NOV-2005

Secretario

Station Elevation Data num= 21  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 135.773 714.822 162.845 710.079 178.714 708.319 206.353 705.27  
 247.928 700.479 267.478 700.132 594.059 695.549 598.059 695.424 599.059 693.549  
 600.059 692.549 603.059 692.549 606.059 692.549 607.059 693.549 608.059 695.424  
 612.059 695.549 747.657 700.298 801.043 704.961 838.408 707.829 838.981 708.265  
 861.902 710.392

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 594.059 .04 612.059 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 594.059 612.059 19.862 19.862 .1 .3

# CROSS SECTION

RIVER: OCA RS: 3.05882\*  
 REACH: principal

## INPUT

Description: num= 21  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 136.08 714.866 163.384 710.059 179.389 708.284 207.265 705.203  
 249.196 700.359 268.913 700.028 598.294 695.412 602.294 695.318 603.294 693.412  
 604.294 692.412 607.294 692.412 610.294 692.412 611.294 693.412 612.294 695.318  
 616.294 695.412 749.743 700.223 802.282 704.971 839.055 707.889 839.618 708.228  
 862.176 710.294

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 598.294 .04 616.294 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 598.294 616.294 19.862 19.862 .1 .3

# CROSS SECTION

RIVER: OCA RS: 3.03921\*  
 REACH: principal

## INPUT

Description: num= 21  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 136.387 714.911 163.923 710.04 180.064 708.248 208.177 705.135  
 250.464 700.239 270.349 699.925 602.529 695.275 606.529 695.212 607.529 693.275  
 608.529 692.275 611.529 692.275 614.529 692.275 615.529 693.275 616.529 695.212  
 620.529 695.275 751.829 700.149 803.521 704.981 839.701 707.949 840.256 708.191  
 862.451 710.196

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 602.529 .04 620.529 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 602.529 620.529 19.862 19.862 .1 .3

# CROSS SECTION

APROBADO PROVISIONALMENTE POR  
 ESTE AYUNTAMIENTO 29 NOV 2005  
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RIVER: OCA  
REACH: principal RS: 3.01960\*

INPUT

| Description:           | Station | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Station Elevation Data | num=    | 21      |         |         |         |         |         |         |         |      |
| Sta                    | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta  |
| 100                    | 715     | 136.693 | 714.955 | 164.461 | 710.02  | 180.739 | 708.212 | 209.088 | 705.068 |      |
| 251.732                | 700.12  | 271.785 | 699.821 | 606.765 | 695.137 | 610.765 | 695.106 | 611.765 | 693.137 |      |
| 612.765                | 692.137 | 615.765 | 692.137 | 618.765 | 692.137 | 619.765 | 693.137 | 620.765 | 695.106 |      |
| 624.765                | 695.137 | 753.914 | 700.074 | 804.761 | 704.399 | 840.348 | 708.01  | 840.894 | 708.154 |      |
| 862.725                | 710.098 |         |         |         |         |         |         |         |         |      |

| Manning's n Values | num=  | 3       | Sta   | n Val   | Sta   | n Val |       |
|--------------------|-------|---------|-------|---------|-------|-------|-------|
| Sta                | n Val | Sta     | n Val | Sta     | n Val | Sta   | n Val |
| 100                | .02   | 606.765 | .04   | 624.765 | .035  |       |       |

| Bank Sta: Left | Right   | Lengths: Left Channel | Right  | Coeff  | Contr. | Expan. |
|----------------|---------|-----------------------|--------|--------|--------|--------|
| 606.765        | 624.765 | 19.862                | 19.862 | 19.862 | .1     | .3     |

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 3

INPUT

| Description:           | Station | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev |
|------------------------|---------|------|------|------|------|------|------|------|------|------|
| Station Elevation Data | num=    | 17   |      |      |      |      |      |      |      |      |
| Sta                    | Elev    | Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  |
| 100                    | 715     | 137  | 715  | 165  | 710  | 210  | 705  | 255  | 700  |      |
| 611                    | 695     | 615  | 695  | 616  | 693  | 617  | 692  | 620  | 692  |      |
| 623                    | 692     | 624  | 693  | 625  | 695  | 629  | 695  | 756  | 700  |      |
| 806                    | 705     | 863  | 710  |      |      |      |      |      |      |      |

| Manning's n Values | num=  | 3   | Sta   | n Val | Sta   | n Val |       |
|--------------------|-------|-----|-------|-------|-------|-------|-------|
| Sta                | n Val | Sta | n Val | Sta   | n Val | Sta   | n Val |
| 100                | .02   | 611 | .04   | 629   | .035  |       |       |

| Bank Sta: Left | Right | Lengths: Left Channel | Right  | Coeff  | Contr. | Expan. |
|----------------|-------|-----------------------|--------|--------|--------|--------|
| 611            | 629   | 19.513                | 19.513 | 19.513 | .1     | .3     |

CROSS SECTION

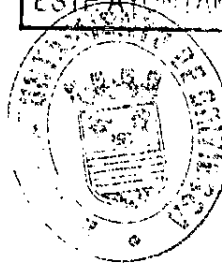
RIVER: OCA  
REACH: principal RS: 2.97297\*

INPUT

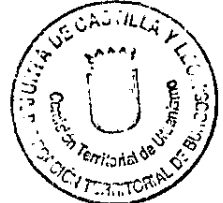
| Description:           | Station | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Station Elevation Data | num=    | 23      |         |         |         |         |         |         |         |      |
| Sta                    | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta  |
| 100                    | 715     | 136.701 | 714.894 | 146.722 | 713.109 | 164.474 | 709.947 | 192.029 | 706.862 |      |
| 209.11                 | 704.951 | 238.751 | 701.484 | 251.762 | 699.995 | 595.538 | 695.135 | 606.865 | 694.968 |      |
| 610.865                | 694.924 | 611.865 | 692.865 | 612.865 | 691.968 | 615.865 | 691.968 | 618.865 | 691.968 |      |
| 619.865                | 692.968 | 620.865 | 694.924 | 624.865 | 694.968 | 729.328 | 698.904 | 755.033 | 699.901 |      |
| 806.281                | 704.839 | 824.73  | 706.401 | 864.703 | 709.865 |         |         |         |         |      |

| Manning's n Values | num=  | 3       | Sta   | n Val   | Sta   | n Val |       |
|--------------------|-------|---------|-------|---------|-------|-------|-------|
| Sta                | n Val | Sta     | n Val | Sta     | n Val | Sta   | n Val |
| 100                | .02   | 606.865 | .04   | 624.865 | .035  |       |       |

APROBADO PROVISIONALMENTE POR  
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Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
606.865 624.865 19.513 19.513 19.513 .1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.94594\*

INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 136.401 714.788 146.341 713.023 163.948 709.894 191.278 706.81  
208.22 704.901 237.619 701.443 250.524 699.99 591.496 695.151 602.73 694.935  
606.73 694.849 607.73 692.935 608.73 691.935 611.73 691.935 614.73 691.935  
615.73 692.935 616.73 694.849 620.73 694.935 727.735 698.796 754.067 699.803  
806.561 704.677 825.459 706.223 866.405 709.73

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 602.73 .04 620.73 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
602.73 620.73 19.513 19.513 19.513 .1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.91891\*

INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 136.102 714.682 145.96 712.937 163.422 709.841 180.527 706.258  
207.33 704.852 236.487 701.402 249.286 699.985 587.453 695.147 598.595 694.903  
602.595 694.773 603.595 692.903 604.595 691.903 607.595 691.903 610.595 691.903  
611.595 692.903 612.595 694.773 616.595 694.903 726.143 698.687 753.1 699.704  
806.842 704.516 826.189 706.045 868.108 709.595

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 598.595 .04 616.595 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
598.595 616.595 19.513 19.513 19.513 .1 .3

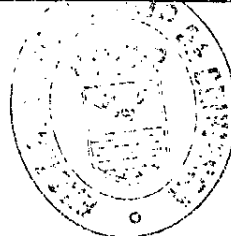
CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.89189\*

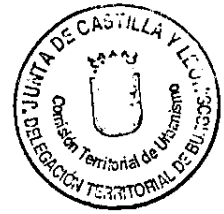
INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 135.802 714.575 145.579 712.85 162.896 709.788 189.776 706.707  
206.439 704.802 235.355 701.36 248.048 699.98 583.41 695.142 594.459 694.87  
598.439 694.697 599.439 692.87 600.459 691.87 603.459 691.87 606.439 691.87  
607.459 692.87 608.459 694.697 612.459 694.87 724.55 698.579 752.133 699.605

APROBADO POR EL AYUNTAMIENTO DE ALBILATE POR  
ESTE AYUNTAMIENTO 2.9.2005



Secretario



807.123 704.355 826.919 705.868 869.811 709.459

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 594.459 .04 612.459 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
594.459 612.459 19.513 19.513 .1 .3

#### CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.86486\*

#### INPUT

Description: num= 23  
Station Elevation Data Sta Elev Sta Elev Sta Elev  
100 715 135.503 714.469 145.197 712.784 162.37 709.735 189.025 706.655  
205.549 704.753 234.223 701.319 246.809 699.975 579.367 695.138 590.324 694.838  
594.324 694.622 595.324 692.838 596.324 691.838 599.324 691.838 602.324 691.838  
603.324 692.838 604.324 694.622 608.324 694.838 722.958 698.47 751.166 699.506  
807.403 704.194 827.649 705.69 871.513 709.324

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 590.324 .04 608.324 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
590.324 608.324 19.513 19.513 .1 .3

#### CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.83783\*

#### INPUT

Description: num= 23  
Station Elevation Data Sta Elev Sta Elev Sta Elev  
100 715 135.204 714.363 144.816 712.678 161.844 709.682 188.275 706.803  
204.659 704.704 233.091 701.278 245.571 699.97 575.325 695.134 586.189 694.805  
590.189 694.546 591.189 692.805 592.189 691.805 595.189 691.805 598.189 691.805  
599.189 692.805 600.189 694.546 604.189 694.805 721.365 698.362 750.2 699.408  
807.684 704.032 828.378 705.512 873.216 709.189

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 586.189 .04 604.189 .035

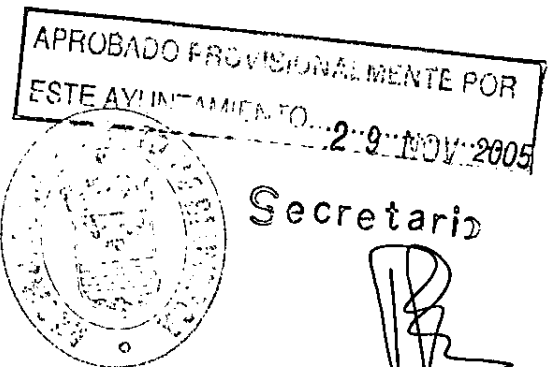
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
586.189 604.189 19.513 19.513 .1 .3

#### CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.81081\*

#### INPUT

Description:



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Station Elevation Data num= 23  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 134.904 714.257 144.435 712.591 161.318 709.629 187.524 706.551  
 203.769 704.654 231.959 701.237 244.333 698.966 571.282 695.129 582.054 694.773  
 586.054 694.47 587.054 692.773 588.054 691.773 591.054 691.773 594.054 691.773  
 595.054 692.773 596.054 694.47 600.054 694.773 719.773 698.253 749.233 699.309  
 807.965 703.871 829.108 705.334 874.919 709.054

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 582.054 .04 600.054 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 582.054 600.054 19.513 19.513 .1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2.78378\*

INPUT

Description: num= 23  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 134.904 714.257 144.435 712.591 161.318 709.629 187.524 706.551  
 202.879 704.605 230.827 701.195 243.095 699.961 567.239 695.125 577.919 694.741  
 581.919 694.395 582.919 692.741 583.919 691.741 586.919 691.741 589.919 691.741  
 590.919 692.741 591.919 694.395 595.919 694.741 718.181 698.145 748.266 699.21  
 808.245 703.71 829.838 705.156 876.622 708.919

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 577.919 .04 595.919 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 577.919 595.919 19.513 19.513 .1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2.75675\*

INPUT

Description: num= 23  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 134.305 714.045 143.673 712.418 160.266 709.523 186.022 706.448  
 201.989 704.555 229.695 701.154 241.857 699.956 563.196 695.121 573.784 694.708  
 577.784 694.319 578.784 692.708 579.784 691.708 582.784 691.708 585.784 691.708  
 586.784 692.708 587.784 694.319 591.784 694.708 716.588 698.037 747.299 699.112  
 808.526 703.549 830.568 704.979 878.324 708.784

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 573.784 .04 591.784 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 573.784 591.784 19.513 19.513 .1 .3

CROSS SECTION

APROBADO PROVISIONALMENTE POR  
 ESTE AYUNTAMIENTO  
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 Secretario



RIVER: OCA  
REACH: principal RS: 2.72973\*

INPUT  
Description:  
Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 134.006 713.938 143.292 712.332 159.74 709.471 185.271 706.396  
201.099 704.506 228.563 701.113 240.619 699.951 559.154 695.116 569.649 694.676  
573.649 694.243 574.649 692.576 575.649 691.676 578.649 691.676 581.649 691.676  
582.649 692.676 583.649 694.243 587.649 694.676 714.996 697.928 746.333 699.013  
808.807 703.387 831.297 704.801 880.027 708.649

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 569.649 .04 587.649 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
569.649 587.649 19.513 19.513 19.513 .1 .3

#### CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.70270\*

INPUT  
Description:  
Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 133.706 713.832 142.91 712.246 159.214 709.418 184.521 706.345  
200.208 704.457 227.431 701.072 239.381 699.946 555.111 695.112 565.513 694.843  
569.513 694.168 570.513 692.643 571.513 691.643 574.513 691.643 577.513 691.643  
578.513 692.643 579.513 694.168 583.513 694.643 713.403 697.82 745.366 698.914  
809.087 703.226 832.027 704.623 881.73 708.513

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 565.513 .04 583.513 .035

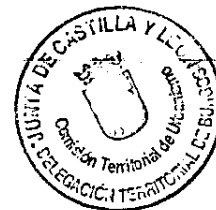
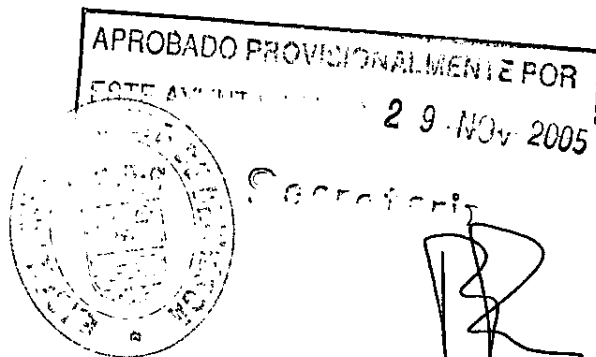
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
565.513 583.513 19.513 19.513 19.513 .1 .3

#### CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.67567\*

INPUT  
Description:  
Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 133.407 713.726 142.529 712.139 158.688 709.365 183.77 706.293  
199.318 704.407 226.299 701.031 238.143 699.941 551.068 695.108 561.378 694.611  
565.378 694.092 566.378 692.611 567.378 691.611 570.378 691.611 573.378 691.611  
574.378 692.611 575.378 694.092 579.378 694.611 711.811 697.711 744.399 698.815  
809.368 703.065 832.757 704.445 883.432 708.378

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 561.378 .04 579.378 .035



Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
561.378 579.378 19.513 19.513 19.513 .1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.64864\*

INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 133.108 713 62 142.148 712 073 158.162 709 312 183.019 706.241  
198.428 704.338 225.167 700.989 236.905 699.936 547.026 695.103 557.243 694.578  
561.243 694.016 562.243 692.578 563.243 691.578 566.243 691.578 569.243 691.578  
570.243 692.578 571.243 694.016 575.243 694.578 710.218 697.603 743.432 698.717  
809.649 702.904 833.487 704.267 885.135 708.243

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 557.243 .04 575.243 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
557.243 575.243 19.513 19.513 19.513 .1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.62162\*

INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 132.808 713.514 141.767 711.987 157.636 709.259 182.268 706.189  
197.538 704.308 224.035 700.948 235.666 699.931 542.983 695.099 553.108 694.546  
557.108 693.941 558.108 692.546 559.108 691.546 562.108 691.546 565.108 691.546  
566.108 692.546 567.108 693.941 571.108 694.546 708.626 697.494 742.466 698.618  
809.929 702.742 834.216 704.09 886.838 708.108

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 553.108 .04 571.108 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
553.108 571.108 19.513 19.513 19.513 .1 .3

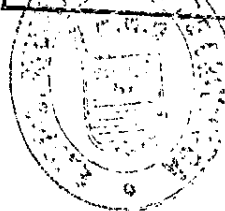
CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.59459\*

INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 132.509 713.408 141.386 711.9 157.11 709.206 181.517 706.138  
196.648 704.259 222.903 700.907 234.428 699.926 538.94 695.095 548.973 694.513  
552.973 693.865 553.973 692.513 554.973 691.513 557.973 691.513 560.973 691.513

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 2-9-NOV-2005



561.973 692.513 562.973 693.865 566.973 694.513 707.034 697.386 741.499 698.519  
810.21 702.581 834.946 703.912 888.541 707.973

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 548.973 .04 566.973 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
548.973 566.973 19.513 19.513 .1 .3

#### CROSS SECTION

RIVER: OCA RS: 2.56756\*  
REACH: principal

#### INPUT

Description: num= 23  
Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 132.209 713.302 141.005 711.814 156.584 709.153 180.767 706.086  
195.758 704.21 221.771 700.866 233.19 699.921 534.897 695.091 544.838 694.481  
548.838 693.789 549.838 692.481 550.838 691.481 553.838 691.481 556.838 691.481  
557.838 692.481 558.838 693.789 562.838 694.481 705.441 697.277 740.532 698.42  
810.491 702.42 835.676 703.734 890.243 707.838

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 544.838 .04 562.838 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
544.838 562.838 19.513 19.513 .1 .3

#### CROSS SECTION

RIVER: OCA RS: 2.54054\*  
REACH: principal

#### INPUT

Description: num= 23  
Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 131.91 713.195 140.623 711.727 156.058 709.1 180.016 706.934  
194.868 704.16 220.639 700.824 231.952 699.916 530.855 695.086 540.703 694.449  
544.703 693.714 545.703 692.449 546.703 691.449 549.703 691.449 552.703 691.449  
553.703 692.449 554.703 693.714 558.703 694.449 703.849 697.169 739.565 698.322  
810.771 702.258 836.405 703.556 891.946 707.703

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 540.703 .04 558.703 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
540.703 558.703 19.513 19.513 .1 .3

#### CROSS SECTION

RIVER: OCA RS: 2.51351\*  
REACH: principal

#### INPUT

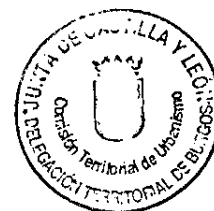
APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 MAY 2005  
Secretario



Handwritten signature of the Secretary.







Description:  
 Station Elevation Data num= 23  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 131.611 713.089 140.242 711.641 155.532 709.047 179.263 705.983  
 193.977 704.111 219.507 700.783 230.714 699.911 526.812 695.082 536.568 694.416  
 540.568 693.638 541.568 692.416 542.568 691.416 543.568 691.416 544.568 691.416  
 549.568 692.416 550.568 693.638 554.568 694.416 702.256 697.06 738.599 698.223  
 811.052 702.097 837.135 703.378 893.649 707.568

Manning's n Values num= 3  
 Sta n Val Sta n Val Sta n Val  
 100 .02 536.568 .04 554.568 .035

Lengths: Left channel Right  
 19.513 19.513 19.513

Bank Sta: Left Right  
 536.568 554.568

Coeff Contr. .1 Expan. .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2.48648\*

INPUT  
 Description:  
 Station Elevation Data num= 23  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 131.311 712.983 139.861 711.555 155.006 708.994 178.514 705.931  
 193.087 704.061 218.375 700.742 229.476 699.906 522.769 695.078 532.432 694.384  
 536.432 693.562 537.432 692.384 538.432 691.384 541.432 691.384 544.432 691.384  
 545.432 692.384 546.432 693.562 550.432 694.384 700.664 696.952 737.632 698.124  
 811.333 703.936 837.865 703.201 895.351 707.432

Manning's n Values num= 3  
 Sta n Val Sta n Val Sta n Val  
 100 .02 532.432 .04 550.432 .035

Lengths: Left channel Right  
 19.513 19.513 19.513

Bank Sta: Left Right  
 532.432 550.432

Coeff Contr. .1 Expan. .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2.45946\*

INPUT  
 Description:  
 Station Elevation Data num= 23  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 131.012 712.877 139.488 711.468 154.48 708.941 177.763 705.879  
 192.197 704.012 217.243 700.701 228.238 699.901 518.726 695.073 528.297 694.351  
 532.297 693.487 533.297 692.351 534.297 691.351 537.297 691.351 540.297 691.351  
 541.297 692.351 542.297 693.487 546.297 694.351 699.071 696.844 736.665 698.026  
 811.613 701.775 838.595 703.023 897.054 707.297

Manning's n Values num= 3  
 Sta n Val Sta n Val Sta n Val  
 100 .02 528.297 .04 546.297 .035

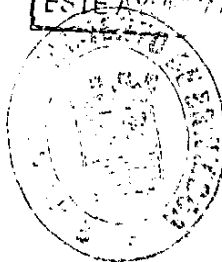
Lengths: Left channel Right  
 19.513 19.513 19.513

Bank Sta: Left Right  
 528.297 546.297

Coeff Contr. .1 Expan. .3

# CROSS SECTION

APROBADO PROVISIONALMENTE POR  
 ESTE AYO DEL 23 Nov. 2005.....



*[Handwritten signature]*



RIVER: OCA  
REACH: principal RS: 2.43243\*

INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 130.712 712.771 139.099 711.382 153.954 708.888 177.013 705.827  
191.307 703.963 216.111 700.66 227 699.897 514.684 695.069 524.162 694.319  
528.162 693.411 529.162 692.319 530.162 691.319 533.162 691.319 536.162 691.319  
537.162 692.319 538.162 693.411 542.162 694.319 697.479 696.735 735.699 697.927  
811.894 701.613 839.324 702.845 898.757 707.162

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 524.162 .04 542.162 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
524.162 542.162 19.513 19.513 .1 .3

CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.40540\*

INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 130.413 712.665 138.718 711.286 153.428 708.835 176.262 705.776  
190.417 703.913 214.979 700.618 225.762 699.892 510.641 695.065 520.027 694.286  
524.027 693.335 525.027 692.286 526.027 691.286 529.027 691.286 532.027 691.286  
533.027 692.286 534.027 693.335 538.027 694.286 695.886 696.627 734.732 697.828  
812.175 701.452 840.054 702.667 900.459 707.027

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 520.027 .04 538.027 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
520.027 538.027 19.513 19.513 .1 .3

CROSS SECTION

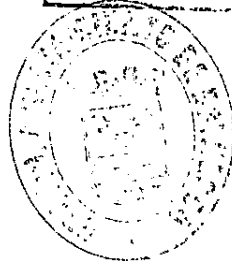
RIVER: OCA  
REACH: principal RS: 2.37837\*

INPUT

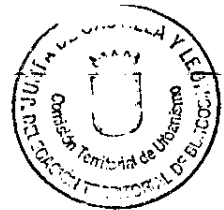
Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 130.114 712.559 138.336 711.209 152.902 708.782 175.511 705.724  
189.527 703.864 213.848 700.577 224.523 699.887 506.598 695.06 515.892 694.254  
519.892 693.259 520.892 692.254 521.892 691.254 524.892 691.254 527.892 691.254  
528.892 692.254 529.892 693.259 533.892 694.254 694.294 696.518 733.765 697.729  
812.455 701.291 840.784 702.489 902.162 706.892

Manning's n Values num= 3  
Sta n Val Sta n Val

APROBADO POR EL CONCEJO MUNICIPAL DE UHONIMBO  
ESTE AYUNTAMIENTO 2-9-11-2005



Secretario



100 .02 515.892 .04 533.892 .035  
 Lengths: Left channel Right  
 19.513 19.513 19.513  
 Bank Sta: Left Right  
 515.892 533.892

# CROSS SECTION

RIVER: OCA  
 REACH: principal  
 RS: 2.35135\*

| Description:                | num=    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta | Elev  |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-------|
| INPUT                       |         |         |         |         |         |         |         |         |         |     |       |
| Description:                | 23      | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta | Elev  |
| Station Elevation Data      | num=    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta | Elev  |
| 100                         | 715     | 129.814 | 712.452 | 137.956 | 711.123 | 152.376 | 708.729 | 174.76  | 705.672 |     |       |
| 188.636                     | 703.814 | 712.716 | 700.536 | 223.285 | 699.882 | 502.555 | 695.956 | 511.757 | 694.222 |     |       |
| 515.757                     | 693.184 | 516.757 | 692.222 | 517.757 | 691.222 | 520.757 | 691.222 | 523.757 | 691.222 |     |       |
| 524.757                     | 692.222 | 525.757 | 693.184 | 529.757 | 694.222 | 692.702 | 696.41  | 732.798 | 697.631 |     |       |
| 812.736                     | 701.13  | 841.513 | 702.312 | 903.865 | 706.757 |         |         |         |         |     |       |
| Manning's n Values          | num=    | Sta     | n Val   | Sta     | n Val   | Sta     | n Val   | Sta     | n Val   | Sta | n Val |
| 100                         | .02     | 511.757 | .04     | 529.757 | .035    |         |         |         |         |     |       |
| Lengths: Left Channel Right |         |         |         |         |         |         |         |         |         |     |       |
| 19.513 19.513 19.513        |         |         |         |         |         |         |         |         |         |     |       |
| Bank Sta: Left Right        |         |         |         |         |         |         |         |         |         |     |       |
| 511.757 529.757             |         |         |         |         |         |         |         |         |         |     |       |

# CROSS SECTION

RIVER: OCA  
 REACH: principal  
 RS: 2.32432\*

| Description:                | num=    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta | Elev  |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-------|
| INPUT                       |         |         |         |         |         |         |         |         |         |     |       |
| Description:                | 23      | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta | Elev  |
| Station Elevation Data      | num=    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta | Elev  |
| 100                         | 715     | 129.814 | 712.452 | 137.956 | 711.123 | 152.376 | 708.729 | 174.76  | 705.672 |     |       |
| 187.746                     | 703.765 | 711.584 | 700.495 | 222.047 | 699.877 | 498.513 | 695.059 | 507.622 | 694.189 |     |       |
| 511.622                     | 693.108 | 511.622 | 692.189 | 513.622 | 691.189 | 516.622 | 691.189 | 519.622 | 691.189 |     |       |
| 520.622                     | 692.189 | 521.622 | 693.108 | 525.622 | 694.189 | 691.109 | 696.301 | 731.832 | 697.532 |     |       |
| 813.017                     | 700.968 | 842.243 | 702.134 | 905.568 | 706.622 |         |         |         |         |     |       |
| Manning's n Values          | num=    | Sta     | n Val   | Sta     | n Val   | Sta     | n Val   | Sta     | n Val   | Sta | n Val |
| 100                         | .02     | 507.622 | .04     | 525.622 | .035    |         |         |         |         |     |       |
| Lengths: Left Channel Right |         |         |         |         |         |         |         |         |         |     |       |
| 19.513 19.513 19.513        |         |         |         |         |         |         |         |         |         |     |       |
| Bank Sta: Left Right        |         |         |         |         |         |         |         |         |         |     |       |
| 507.622 525.622             |         |         |         |         |         |         |         |         |         |     |       |

# CROSS SECTION

RIVER: OCA  
 REACH: principal  
 RS: 2.29729\*

| Description:           | num=    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta | Elev |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|------|
| INPUT                  |         |         |         |         |         |         |         |         |         |     |      |
| Description:           | 23      | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta | Elev |
| Station Elevation Data | num=    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta | Elev |
| 100                    | 715     | 129.814 | 712.452 | 137.956 | 711.123 | 152.376 | 708.729 | 174.76  | 705.672 |     |      |
| 186.856                | 703.716 | 710.452 | 700.453 | 220.809 | 699.872 | 494.47  | 695.047 | 503.486 | 694.157 |     |      |

APROBADO PROVISIONALMENTE POR  
 ESTE AVANTAJE  
 29 NOV 2005  
 SECRETARÍA



507.486 693.032 508.486 692.157 509.486 691.157 512.487 691.157 515.487 691.157  
 516.487 692.157 517.487 693.032 521.487 694.157 689.517 696.193 730.865 697.433  
 813.297 700.807 842.973 701.956 907.27 706.487

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 503.486 .04 521.487 .035  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 503.486 521.487 19.513 19.513 19.513 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2.27027\*

## INPUT

Description: num= 23  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 128.916 712.134 136.812 710.864 150.798 708.57 172.508 705.517  
 185.966 703.666 209.32 700.412 219.571 699.867 490.427 695.043 499.351 694.124  
 503.351 692.957 504.351 692.124 505.351 691.124 508.351 691.124 511.351 691.124  
 512.351 692.124 513.351 692.957 517.351 694.124 687.924 696.084 729.898 697.334  
 813.578 700.646 843.703 701.778 908.973 706.351

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 499.351 .04 517.351 .035  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 499.351 517.351 19.513 19.513 19.513 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2.24324\*

## INPUT

Description: num= 23  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 128.616 712.028 136.431 710.777 150.272 708.517 171.757 705.465  
 185.076 703.617 208.188 700.371 218.333 699.862 486.385 695.039 495.216 694.092  
 499.216 692.881 500.216 692.092 501.216 691.092 504.216 691.092 507.216 691.092  
 508.216 692.092 509.216 692.881 513.216 694.092 686.332 695.976 728.931 697.236  
 813.859 700.484 844.432 701.6 910.676 706.216

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 495.216 .04 513.216 .035  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 495.216 513.216 19.513 19.513 19.513 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2.21621\*

APROBADO PROVISORIAMENTE POR  
 ESTE AVILITADO 2.2.1004 2005  
 Secretario



INPUT  
Description:  
Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 128.317 711.922 136.049 710.691 149.746 708.464 171.006 705.414  
184 186 703.567 207.056 700.33 217.095 699.857 691.059 500.081 691.059  
495.081 692.805 496.081 692.059 497.081 691.059 500.081 691.059 503.081 691.059  
504.081 692.059 505.081 692.805 509.081 694.059 684.739 695.868 727.965 697.137  
814.139 700.323 845.162 701.422 912.378 706.081

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 491.081 .04 509.081 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
491.081 509.081 19.513 19.513 .1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.18918\*

INPUT  
Description:  
Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 128.018 711.815 135.668 710.605 149.22 708.412 170.256 705.362  
183.296 703.518 205.924 700.289 215.857 699.852 478.299 695.03 486.946 694.027  
490.946 692.73 491.946 692.027 492.946 691.027 495.946 691.027 498.946 691.027  
499.946 692.027 500.946 692.73 504.946 694.027 683.147 695.759 726.998 697.038  
814.42 700.162 845.892 701.245 914.081 705.946

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 486.946 .04 504.946 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
486.946 504.946 19.513 19.513 .1 .3

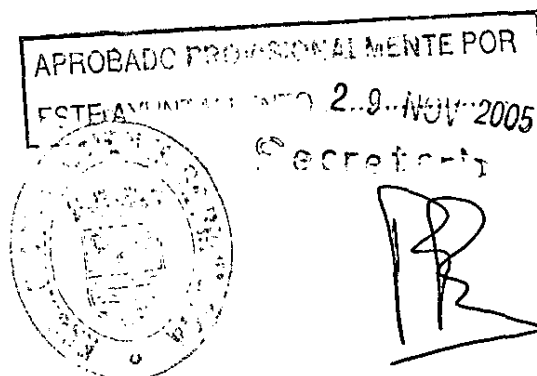
# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.16216\*

INPUT  
Description:  
Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 127.718 711.709 135.287 710.518 148.694 708.359 169.505 705.31  
182.405 703.469 204.792 700.247 214.618 699.847 474.256 695.026 482.811 693.995  
486.811 692.654 487.811 691.995 488.811 690.995 491.811 690.995 494.811 690.995  
495.811 691.995 496.811 692.654 500.811 693.995 681.555 695.651 726.031 696.94  
814.701 700.001 846.622 701.067 915.784 705.811

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 482.811 .04 500.811 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
482.811 500.811 19.513 19.513 .1 .3



## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.13513\*

## INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 127.419 711.603 134.906 710.432 148.168 708.306 168.754 705.259  
181.515 703.419 203.66 700.206 213.38 699.842 470.214 695.022 478.676 693.962  
482.676 692.578 483.676 691.962 484.676 690.962 487.676 690.962 490.676 690.962  
491.676 691.962 492.676 692.578 496.676 693.962 679.962 695.342 725.064 696.841  
814.981 699.839 847.351 700.889 917.487 705.676

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 478.676 .04 496.676 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
478.676 496.676 19.513 19.513 .1 .3

## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.10810\*

## INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 127.119 711.497 134.525 710.346 147.642 708.253 168.003 705.207  
180.625 703.37 202.528 700.165 212.142 699.837 466.171 695.017 474.541 693.93  
478.541 692.503 479.541 691.93 480.541 690.93 483.541 690.93 486.541 690.93  
487.541 691.93 488.541 692.503 492.541 693.93 678.37 695.434 724.098 696.742  
815.262 699.678 848.081 700.711 919.189 705.541

Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 474.541 .04 492.541 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
474.541 492.541 19.513 19.513 .1 .3

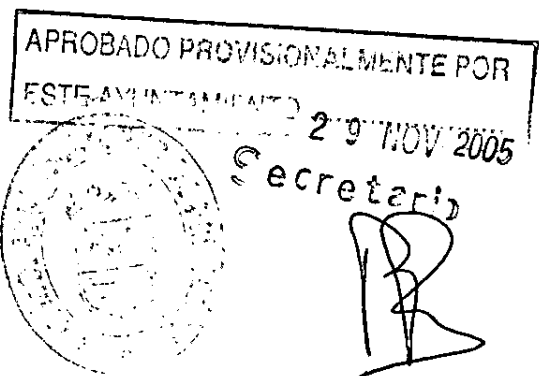
## CROSS SECTION

RIVER: OCA  
REACH: principal RS: 2.08108\*

## INPUT

Description: Station Elevation Data num= 23  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 715 126.82 711.391 134.144 710.259 147.116 708.2 167.252 705.155  
179.735 703.32 201.396 700.124 210.904 699.832 462.128 695.013 470.405 693.897  
474.405 692.427 475.405 691.897 476.405 690.897 479.405 690.897 482.405 690.897  
483.405 691.897 484.405 692.427 488.405 693.897 676.777 695.325 723.131 696.643  
815.543 699.517 848.811 700.533 920.892 705.405

Manning's n Values num= 3



Sta n Val Sta n Val Sta n Val  
 100 .02 470.405 .04 488.405 .035  
 Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.  
 470.405 488.405 19.513 19.513 19.513 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2.05405\*

## INPUT

Description: Station Elevation Data num= 23  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 126.521 711.285 133.762 710.173 146.59 708.147 166.502 705.103  
 178.845 703.271 200.264 700.082 209.666 699.828 458.085 695.009 466.27 693.865  
 470.27 692.321 471.27 691.865 472.27 690.865 475.27 690.865 478.27 690.865  
 479.27 691.865 480.27 692.351 484.27 693.865 675.185 695.217 722.164 696.545  
 815.823 699.356 849.541 700.356 922.595 705.27

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 466.27 .04 484.27 .035

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.  
 466.27 484.27 19.513 19.513 19.513 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2.02702\*

## INPUT

Description: Station Elevation Data num= 23  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 126.221 711.179 133.381 710.086 146.064 708.094 165.751 705.052  
 177.955 703.221 199.132 700.041 208.428 699.823 454.043 695.004 462.135 693.832  
 466.135 692.276 467.135 691.832 468.135 690.832 471.135 690.832 474.135 690.832  
 475.135 691.832 476.135 692.276 480.135 693.832 673.592 695.108 721.198 696.446  
 816.104 699.194 850.27 700.178 924.297 705.135

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 100 .02 462.135 .04 480.135 .035

Bank Sta: Left Right Lengths: Left Channel Right Right Coeff Contr. Expan.  
 462.135 480.135 19.513 19.513 19.513 .1 .3

# CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 2

## INPUT

Description: 2 Station Elevation Data num= 15  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 715 133 133 165 165 198 198 450 450 695 695

APROBADO PROVISIONALMENTE POR  
 ESTE AVISO  
 29 NOV 2005  
 Secretario  






458 693.8 463 691.8 464 690.8 467 690.8 470 690.8  
 471 691.8 476 693.8 672 695 851 700 926 705

Manning's n Values  
 Sta n Val Sta n Val  
 100 .02 458 .04 476 .035

Bank Sta: Left Right  
 458 476  
 Lengths: Left Channel Right  
 18.751 18.751  
 Coeff Contr. Expan.  
 .1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 1.91666\*

INPUT  
 Description:  
 Station Elevation Data num= 27  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 716.25 133.261 711.29 136.82 710.744 165.514 706.342 173.639 705.13  
 198.776 701.43 217.823 700.906 239.915 700.091 262.007 699.276 285.019 698.444  
 377.068 696.366 452.77 694.841 456.231 694.361 460.833 693.567 465.486 691.664  
 466.417 690.733 469.417 690.733 472.417 690.733 473.347 691.684 478 693.567  
 482.509 693.758 620.482 694.692 675.96 695.156 768.375 697.76 856.75 700.298  
 891.92 702.545 932.5 705.417

Manning's n Values  
 Sta n Val Sta n Val  
 100 .02 460.833 .04 478 .035

Bank Sta: Left Right  
 460.833 478  
 Lengths: Left Channel Right  
 18.751 18.751  
 Coeff Contr. Expan.  
 .1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 1.83333\*

INPUT  
 Description:  
 Station Elevation Data num= 27  
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
 100 717.5 133.522 712.581 137.109 712.04 166.029 707.684 174.218 706.482  
 199.551 702.859 218.748 702.188 241.014 700.992 263.279 699.796 286.472 698.585  
 379.244 696.242 455.54 694.661 459.028 694.237 463.667 693.333 467.972 691.528  
 468.833 690.667 471.833 690.667 474.833 690.667 475.694 691.528 480 693.333  
 484.554 693.689 623.893 694.72 679.92 695.313 773.25 697.963 862.5 700.596  
 898.018 702.768 939 705.833

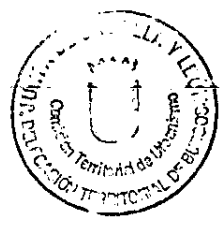
Manning's n Values  
 Sta n Val Sta n Val  
 100 .02 463.667 .04 480 .035

Bank Sta: Left Right  
 463.667 480  
 Lengths: Left Channel Right  
 18.751 18.751  
 Coeff Contr. Expan.  
 .1 .3

CROSS SECTION

RIVER: OCA  
 REACH: principal RS: 1.75\*

APROBADO PROVISIONALMENTE POR  
 ESTE ASISTENTE EL 29. NOV 2005  
 Secretariz



INPUT  
Description:  
Station Elevation Data num= 27  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 718.75 133.784 713.871 137.398 713.336 166.543 709.026 174.796 707.834  
200.327 704.289 219.673 703.469 242.112 701.893 264.551 700.316 287.925 698.727  
381.42 696.118 458.31 694.522 461.825 694.114 466.5 693.1 470.458 691.392  
471.63 690.6 474.25 690.6 477.25 690.6 478.042 691.392 482 693.1  
486.398 693.62 627.304 694.748 683.88 695.469 778.125 698.167 868.25 700.894  
904.116 702.991 945.5 706.25  
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 466.5 .04 482 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
466.5 482 18.751 18.751 18.751 .1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 1.66666\*

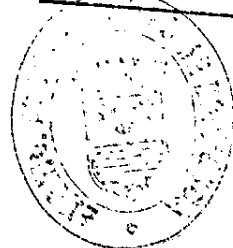
INPUT  
Description:  
Station Elevation Data num= 27  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 720 134.045 715.161 137.687 714.632 167.058 710.368 175.374 709.186  
201.102 705.719 220.599 704.75 243.211 702.793 265.823 700.837 289.378 698.868  
383.595 695.993 461.08 694.362 464.622 693.999 469.333 692.867 472.944 691.256  
473.667 690.533 476.667 690.533 479.667 690.533 480.389 691.256 484 692.867  
488.643 693.552 630.714 694.776 687.84 695.625 783 698.371 874 701.192  
910.214 703.214 952 706.667  
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 469.333 .04 484 .035  
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
469.333 484 18.751 18.751 18.751 .1 .3

# CROSS SECTION

RIVER: OCA  
REACH: principal RS: 1.58333\*

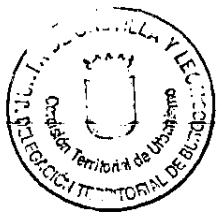
INPUT  
Description:  
Station Elevation Data num= 27  
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev  
100 721.25 134.306 716.451 137.976 715.928 167.572 711.71 175.952 710.538  
201.878 707.148 221.524 706.031 244.31 703.694 267.095 701.357 290.83 699.81  
385.771 695.869 463.85 694.203 467.42 693.866 472.167 692.633 475.431 691.119  
476.083 690.467 479.083 690.467 482.083 690.467 482.736 691.119 486 692.633  
490.688 693.483 634.125 694.804 691.8 695.781 787.875 698.574 879.75 701.45  
916.312 703.438 958.5 707.083  
Manning's n Values num= 3  
Sta n Val Sta n Val  
100 .02 472.167 .04 486 .035

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 22.9.2005



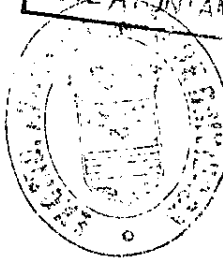
Secretaria

*[Handwritten signature]*





APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 NOV 2005



Secretaría

Bank Sta: Left 472.167 Right 486 Lengths: Left Channel 18.751 Right 18.751 Coeff Contr. .1 Expan. .3

CROSS SECTION

RIVER: OCA  
REACH: principal  
RS: 1.5\*

INPUT

| Description: Station Elevation Data |         |         |         |         |         |         |         |         |         |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sta                                 | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    |
| 100                                 | 722.5   | 134.567 | 717.742 | 138.265 | 717.224 | 168.087 | 713.052 | 176.531 | 711.889 |
| 202                                 | 654     | 708.578 | 222.449 | 707.312 | 245.408 | 704.595 | 268.367 | 701.878 | 292.283 |
| 387                                 | 946     | 695.745 | 466.62  | 694.044 | 470.217 | 693.742 | 475     | 692.4   | 477.917 |
| 478.5                               | 690.4   | 481.5   | 690.4   | 484.5   | 690.4   | 485.083 | 690.983 | 488     | 692.4   |
| 492.732                             | 693.414 | 637.536 | 694.832 | 695.76  | 695.938 | 792.75  | 698.778 | 885.5   | 701.788 |
| 922.411                             | 703.661 | 965     | 707.5   |         |         |         |         |         |         |

| Manning's n Values |     |      |     |
|--------------------|-----|------|-----|
| Sta                | n   | Val  |     |
| 100                | .02 | .475 |     |
|                    |     | .04  | 488 |
|                    |     | .035 |     |

Bank Sta: Left 475 Right 488 Lengths: Left Channel 18.751 Right 18.751 Coeff Contr. .1 Expan. .3

CROSS SECTION

RIVER: OCA  
REACH: principal  
RS: 1.41666\*

INPUT

| Description: Station Elevation Data |         |         |         |         |         |         |         |         |         |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sta                                 | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    |
| 100                                 | 723.75  | 134.828 | 719.032 | 138.554 | 718.52  | 168.601 | 714.394 | 177.109 | 713.241 |
| 203.429                             | 710.007 | 223.374 | 708.594 | 246.507 | 705.496 | 269.639 | 702.398 | 293.736 | 699.293 |
| 390.122                             | 695.621 | 469.39  | 693.884 | 473.014 | 693.619 | 477.833 | 692.167 | 480.403 | 690.847 |
| 480.917                             | 690.333 | 483.917 | 690.333 | 486.917 | 690.333 | 487.431 | 690.847 | 490     | 692.167 |
| 494.777                             | 693.345 | 640.946 | 694.86  | 699.72  | 696.094 | 797.625 | 698.982 | 891.25  | 702.086 |
| 928.509                             | 703.884 | 971.5   | 707.917 |         |         |         |         |         |         |

| Manning's n Values |     |          |     |
|--------------------|-----|----------|-----|
| Sta                | n   | Val      |     |
| 100                | .02 | .477.833 |     |
|                    |     | .04      | 490 |
|                    |     | .035     |     |

Bank Sta: Left 477.833 Right 490 Lengths: Left Channel 18.751 Right 18.751 Coeff Contr. .1 Expan. .3

CROSS SECTION

RIVER: OCA  
REACH: principal  
RS: 1.33333\*

INPUT

| Description: Station Elevation Data |      |         |         |         |         |         |         |         |         |
|-------------------------------------|------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sta                                 | Elev | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    | Sta     | Elev    |
| 100                                 | 725  | 135.089 | 720.322 | 138.844 | 719.816 | 169.115 | 715.736 | 177.687 | 714.593 |

204.205 711.437 224.299 709.875 247.605 706.397 270.912 702.918 295.189 699.434  
 392.298 695.497 472.16 693.725 475.811 693.495 480.667 691.933 482.889 690.711  
 483.333 690.267 486.333 690.267 489.333 690.267 489.778 690.711 492.492 691.933  
 496.821 693.276 644.357 694.888 703.68 696.25 802.5 699.185 897 702.384  
 934.607 704.107 978 708.333

Manning's n values num= 3 Sta n Val  
 Sta n Val Sta n Val  
 100 .02 480.667 .04 492 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 480.667 492 18.751 18.751 .1 .3

# CROSS SECTION

RIVER: OCA RS: 1.25\*  
 REACH: principal

## INPUT

Description: num= 27  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 726.25 135.351 721.612 139.133 721.112 169.63 717.078 178.265 715.945  
 204.98 712.867 225.224 711.156 248.704 707.298 272.184 703.439 296.642 699.576  
 394.473 695.373 474.93 693.566 478.608 693.371 483.5 691.7 485.375 690.575  
 485.75 690.2 488.75 690.2 491.75 690.2 492.125 690.575 494 691.7  
 498.866 693.207 647.768 694.916 707.64 696.407 807.375 699.389 902.75 702.682  
 940.705 704.33 984.5 708.75

Manning's n values num= 3 Sta n Val  
 Sta n Val Sta n Val  
 100 .02 483.5 .04 494 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 483.5 494 18.751 18.751 .1 .3

# CROSS SECTION

RIVER: OCA RS: 1.16666\*  
 REACH: principal

## INPUT

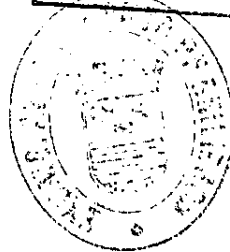
Description: num= 27  
 Station Elevation Data Sta Elev Sta Elev Sta Elev Sta Elev  
 100 727.5 135.612 722.903 139.422 722.408 170.144 718.419 178.844 717.266  
 205.756 714.296 226.15 712.438 249.803 708.198 273.456 703.959 298.094 699.717  
 396.649 695.248 477.7 693.406 481.406 693.247 486.333 691.467 487.861 690.439  
 488.167 690.133 491.167 690.133 494.167 690.133 494.472 690.439 496 691.467  
 500.911 693.138 651.179 694.944 711.6 696.563 812.25 699.593 908.5 702.981  
 946.804 704.554 991 709.167

Manning's n values num= 3 Sta n Val  
 Sta n Val Sta n Val  
 100 .02 486.333 .04 496 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 486.333 496 18.751 18.751 .1 .3

# CROSS SECTION

APROBADO DE FORMA VALIENTE POR  
 ESTE AYUNTAMIENTO  
 29 NOV 2005



*[Handwritten signature]*



RS: 1.08333\*

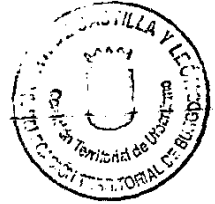
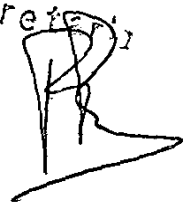
| INPUT | Description: | 27      |           |        |         | Sta     |         |         |         | Elev |      |     |      |
|-------|--------------|---------|-----------|--------|---------|---------|---------|---------|---------|------|------|-----|------|
|       |              | Station | Elevation | Data   | num=    | Sta     | Elev    | Sta     | Elev    | Sta  | Elev | Sta | Elev |
|       | Station      | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Sta          | 724     | 193       | 139.71 | 723.704 | 170.653 | 719.761 | 179.422 | 718.648 |      |      |     |      |
|       | Elev         | 135.587 | 724.193   | 139.71 | 723.704 | 170.65  |         |         |         |      |      |     |      |

|                             |           |       |        |        |       |
|-----------------------------|-----------|-------|--------|--------|-------|
| <b>INPUT</b>                |           |       |        |        |       |
| <b>Description: 1</b>       |           |       |        |        |       |
| Station                     | Elevation | Data  | num#   | 19     |       |
| Sta                         | Elev      | Sta   | Elev   | Sta    | Elev  |
| 100                         | 730       | 140   | 725    | 180    | 720   |
| 100                         | 705       | 301   | 700    | 401    | 695   |
| 276                         | 690       | 496   | 690    | 690    | 690   |
| 493                         | 690       | 700   | 690    | 959    | 705   |
| 658                         | 695       | 822   | 700    | 1004   | 710   |
|                             |           |       |        |        |       |
| <b>Manning's n values</b>   |           |       |        |        |       |
| Sta                         | n Val     | Sta   | n Val  | Sta    | n Val |
| 100                         | .02       | 492   | .04    | 500    | .035  |
|                             |           |       |        |        |       |
| <b>Bank Sta: Left Right</b> |           |       |        |        |       |
| 402                         | 500       | Coeff | Contr. | Expan. |       |
|                             |           | .1    |        | .3     |       |

| SUMMARY OF MANNING'S N VALUES |           |            |                    |
|-------------------------------|-----------|------------|--------------------|
| River-OCA                     | Reach     | River Sta. | n1<br>n2<br>n3     |
|                               | principal | 5          | .02<br>.04<br>.035 |
|                               | principal | 4.97222*   | .02<br>.04<br>.035 |
|                               | principal | 4.94444*   | .02<br>.04<br>.035 |
|                               | principal | 4.91666*   | .02<br>.04<br>.035 |
|                               | principal | 4.88888*   | .02<br>.04<br>.035 |
|                               | principal | 4.86111*   | .02<br>.04<br>.035 |
|                               | principal | 4.83333*   | .02<br>.04<br>.035 |
|                               | principal | 4.80555*   | .02<br>.04<br>.035 |
|                               | principal | 4.77777*   | .02<br>.04<br>.035 |
|                               | principal | 4.75       | .02<br>.04<br>.035 |
|                               | principal | 4.72222*   | .02<br>.04<br>.035 |

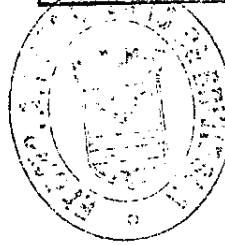
APROBADO PROVISIONALMENTE POR  
ESTADO CIVIL 209 NOV 2005

~~Secret~~





APROBADO POR EL AYUNTAMIENTO POR  
ESTE AYUNTAMIENTO EL 29 de Mayo de 2005



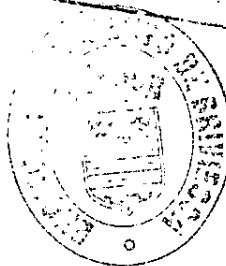
SECRETARÍA

*[Handwritten signature]*

|           |          |     |     |      |
|-----------|----------|-----|-----|------|
| principal | 4.69444* | .02 | .04 | .035 |
| principal | 4.66666* | .02 | .04 | .035 |
| principal | 4.63888* | .02 | .04 | .035 |
| principal | 4.61111* | .02 | .04 | .035 |
| principal | 4.58333* | .02 | .04 | .035 |
| principal | 4.55555* | .02 | .04 | .035 |
| principal | 4.52777* | .02 | .04 | .035 |
| principal | 4.5*     | .02 | .04 | .035 |
| principal | 4.47222* | .02 | .04 | .035 |
| principal | 4.44444* | .02 | .04 | .035 |
| principal | 4.41666* | .02 | .04 | .035 |
| principal | 4.38888* | .02 | .04 | .035 |
| principal | 4.36111* | .02 | .04 | .035 |
| principal | 4.33333* | .02 | .04 | .035 |
| principal | 4.30555* | .02 | .04 | .035 |
| principal | 4.27777* | .02 | .04 | .035 |
| principal | 4.25*    | .02 | .04 | .035 |
| principal | 4.22222* | .02 | .04 | .035 |
| principal | 4.19444* | .02 | .04 | .035 |
| principal | 4.16666* | .02 | .04 | .035 |
| principal | 4.13888* | .02 | .04 | .035 |
| principal | 4.11111* | .02 | .04 | .035 |
| principal | 4.08333* | .02 | .04 | .035 |
| principal | 4.05555* | .02 | .04 | .035 |
| principal | 4.02777* | .02 | .04 | .035 |
| principal | 4        | .02 | .04 | .035 |
| principal | 3.98039* | .02 | .04 | .035 |
| principal | 3.96078* | .02 | .04 | .035 |
| principal | 3.94117* | .02 | .04 | .035 |
| principal | 3.92156* | .02 | .04 | .035 |
| principal | 3.90196* | .02 | .04 | .035 |
| principal | 3.88235* | .02 | .04 | .035 |
| principal | 3.86274* | .02 | .04 | .035 |
| principal | 3.84313* | .02 | .04 | .035 |
| principal | 3.82352* | .02 | .04 | .035 |
| principal | 3.80392* | .02 | .04 | .035 |
| principal | 3.78431* | .02 | .04 | .035 |
| principal | 3.76470* | .02 | .04 | .035 |
| principal | 3.74509* | .02 | .04 | .035 |
| principal | 3.72549* | .02 | .04 | .035 |
| principal | 3.70588* | .02 | .04 | .035 |
| principal | 3.68627* | .02 | .04 | .035 |
| principal | 3.66666* | .02 | .04 | .035 |
| principal | 3.64705* | .02 | .04 | .035 |
| principal | 3.62745* | .02 | .04 | .035 |
| principal | 3.60784* | .02 | .04 | .035 |
| principal | 3.58823* | .02 | .04 | .035 |
| principal | 3.56862* | .02 | .04 | .035 |
| principal | 3.54902* | .02 | .04 | .035 |
| principal | 3.52941* | .02 | .04 | .035 |
| principal | 3.50980* | .02 | .04 | .035 |
| principal | 3.49019* | .02 | .04 | .035 |
| principal | 3.47058* | .02 | .04 | .035 |
| principal | 3.45098* | .02 | .04 | .035 |
| principal | 3.43137* | .02 | .04 | .035 |
| principal | 3.41176* | .02 | .04 | .035 |
| principal | 3.39215* | .02 | .04 | .035 |
| principal | 3.37254* | .02 | .04 | .035 |
| principal | 3.35294* | .02 | .04 | .035 |
| principal | 3.33333* | .02 | .04 | .035 |
| principal | 3.31372* | .02 | .04 | .035 |
| principal | 3.29411* | .02 | .04 | .035 |
| principal | 3.27451* | .02 | .04 | .035 |



APROBADO PROVISIONALMENTE POR  
ESTE AVANCE EN LA 2.ª. NOV. 2005



Secretaría

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|           |          |     |     |      |
|-----------|----------|-----|-----|------|
| principal | 3.25490* | .02 | .04 | .035 |
| principal | 3.23529* | .02 | .04 | .035 |
| principal | 3.21568* | .02 | .04 | .035 |
| principal | 3.19607* | .02 | .04 | .035 |
| principal | 3.17647* | .02 | .04 | .035 |
| principal | 3.15686* | .02 | .04 | .035 |
| principal | 3.13725* | .02 | .04 | .035 |
| principal | 3.11764* | .02 | .04 | .035 |
| principal | 3.09804* | .02 | .04 | .035 |
| principal | 3.07843* | .02 | .04 | .035 |
| principal | 3.05882* | .02 | .04 | .035 |
| principal | 3.03921* | .02 | .04 | .035 |
| principal | 3.01960* | .02 | .04 | .035 |
| principal | 2.97297* | .02 | .04 | .035 |
| principal | 2.94594* | .02 | .04 | .035 |
| principal | 2.91891* | .02 | .04 | .035 |
| principal | 2.89189* | .02 | .04 | .035 |
| principal | 2.86486* | .02 | .04 | .035 |
| principal | 2.83783* | .02 | .04 | .035 |
| principal | 2.81081* | .02 | .04 | .035 |
| principal | 2.78378* | .02 | .04 | .035 |
| principal | 2.75675* | .02 | .04 | .035 |
| principal | 2.72973* | .02 | .04 | .035 |
| principal | 2.70270* | .02 | .04 | .035 |
| principal | 2.67567* | .02 | .04 | .035 |
| principal | 2.64864* | .02 | .04 | .035 |
| principal | 2.62162* | .02 | .04 | .035 |
| principal | 2.59459* | .02 | .04 | .035 |
| principal | 2.56756* | .02 | .04 | .035 |
| principal | 2.54054* | .02 | .04 | .035 |
| principal | 2.51351* | .02 | .04 | .035 |
| principal | 2.48648* | .02 | .04 | .035 |
| principal | 2.45946* | .02 | .04 | .035 |
| principal | 2.43243* | .02 | .04 | .035 |
| principal | 2.40540* | .02 | .04 | .035 |
| principal | 2.37837* | .02 | .04 | .035 |
| principal | 2.35135* | .02 | .04 | .035 |
| principal | 2.32432* | .02 | .04 | .035 |
| principal | 2.29729* | .02 | .04 | .035 |
| principal | 2.27027* | .02 | .04 | .035 |
| principal | 2.24324* | .02 | .04 | .035 |
| principal | 2.21621* | .02 | .04 | .035 |
| principal | 2.18918* | .02 | .04 | .035 |
| principal | 2.16216* | .02 | .04 | .035 |
| principal | 2.13513* | .02 | .04 | .035 |
| principal | 2.10810* | .02 | .04 | .035 |
| principal | 2.08108* | .02 | .04 | .035 |
| principal | 2.05405* | .02 | .04 | .035 |
| principal | 2.02702* | .02 | .04 | .035 |
| principal | 1.91666* | .02 | .04 | .035 |
| principal | 1.83333* | .02 | .04 | .035 |
| principal | 1.75*    | .02 | .04 | .035 |
| principal | 1.66666* | .02 | .04 | .035 |
| principal | 1.58333* | .02 | .04 | .035 |
| principal | 1.5*     | .02 | .04 | .035 |
| principal | 1.41666* | .02 | .04 | .035 |
| principal | 1.33333* | .02 | .04 | .035 |
| principal | 1.25*    | .02 | .04 | .035 |
| principal | 1.16666* | .02 | .04 | .035 |
| principal | 1.08333* | .02 | .04 | .035 |
| principal | 1        | .02 | .04 | .035 |

SUMMARY OF REACH LENGTHS

River: OCA

| Reach     | River Sta. | Left   | Channel | Right  |
|-----------|------------|--------|---------|--------|
| principal | 5          | 19.916 | 19.916  | 19.916 |
| principal | 4.97222*   | 19.916 | 19.916  | 19.916 |
| principal | 4.94444*   | 19.916 | 19.916  | 19.916 |
| principal | 4.91666*   | 19.916 | 19.916  | 19.916 |
| principal | 4.88888*   | 19.916 | 19.916  | 19.916 |
| principal | 4.86111*   | 19.916 | 19.916  | 19.916 |
| principal | 4.83333*   | 19.916 | 19.916  | 19.916 |
| principal | 4.80555*   | 19.916 | 19.916  | 19.916 |
| principal | 4.77777*   | 19.916 | 19.916  | 19.916 |
| principal | 4.75*      | 19.916 | 19.916  | 19.916 |
| principal | 4.72222*   | 19.916 | 19.916  | 19.916 |
| principal | 4.69444*   | 19.916 | 19.916  | 19.916 |
| principal | 4.66666*   | 19.916 | 19.916  | 19.916 |
| principal | 4.63888*   | 19.916 | 19.916  | 19.916 |
| principal | 4.61111*   | 19.916 | 19.916  | 19.916 |
| principal | 4.58333*   | 19.916 | 19.916  | 19.916 |
| principal | 4.55555*   | 19.916 | 19.916  | 19.916 |
| principal | 4.52777*   | 19.916 | 19.916  | 19.916 |
| principal | 4.5*       | 19.916 | 19.916  | 19.916 |
| principal | 4.47222*   | 19.916 | 19.916  | 19.916 |
| principal | 4.44444*   | 19.916 | 19.916  | 19.916 |
| principal | 4.41666*   | 19.916 | 19.916  | 19.916 |
| principal | 4.38888*   | 19.916 | 19.916  | 19.916 |
| principal | 4.36111*   | 19.916 | 19.916  | 19.916 |
| principal | 4.33333*   | 19.916 | 19.916  | 19.916 |
| principal | 4.30555*   | 19.916 | 19.916  | 19.916 |
| principal | 4.27777*   | 19.916 | 19.916  | 19.916 |
| principal | 4.25*      | 19.916 | 19.916  | 19.916 |
| principal | 4.22222*   | 19.916 | 19.916  | 19.916 |
| principal | 4.19444*   | 19.916 | 19.916  | 19.916 |
| principal | 4.16666*   | 19.916 | 19.916  | 19.916 |
| principal | 4.13888*   | 19.916 | 19.916  | 19.916 |
| principal | 4.11111*   | 19.916 | 19.916  | 19.916 |
| principal | 4.08333*   | 19.916 | 19.916  | 19.916 |
| principal | 4.05555*   | 19.916 | 19.916  | 19.916 |
| principal | 4.02777*   | 19.916 | 19.916  | 19.916 |
| principal | 4.         | 19.862 | 19.862  | 19.862 |
| principal | 3.98039*   | 19.862 | 19.862  | 19.862 |
| principal | 3.96078*   | 19.862 | 19.862  | 19.862 |
| principal | 3.94117*   | 19.862 | 19.862  | 19.862 |
| principal | 3.92156*   | 19.862 | 19.862  | 19.862 |
| principal | 3.90196*   | 19.862 | 19.862  | 19.862 |
| principal | 3.88235*   | 19.862 | 19.862  | 19.862 |
| principal | 3.86274*   | 19.862 | 19.862  | 19.862 |
| principal | 3.84313*   | 19.862 | 19.862  | 19.862 |
| principal | 3.82352*   | 19.862 | 19.862  | 19.862 |
| principal | 3.80392*   | 19.862 | 19.862  | 19.862 |
| principal | 3.78431*   | 19.862 | 19.862  | 19.862 |
| principal | 3.76470*   | 19.862 | 19.862  | 19.862 |
| principal | 3.74509*   | 19.862 | 19.862  | 19.862 |
| principal | 3.72549*   | 19.862 | 19.862  | 19.862 |
| principal | 3.70588*   | 19.862 | 19.862  | 19.862 |
| principal | 3.68627*   | 19.862 | 19.862  | 19.862 |

APROBADO PROVISORIAMENTE POR  
ESTE A  
29 NOV 2005  
Secretario







|           |          |        |        |        |        |
|-----------|----------|--------|--------|--------|--------|
| principal | 3.66666* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.64705* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.62745* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.60784* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.58823* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.56862* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.54902* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.52941* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.50980* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.49019* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.47058* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.45098* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.43137* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.41176* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.39215* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.37254* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.35294* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.33333* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.31372* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.29411* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.27451* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.25490* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.23529* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.21568* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.19607* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.17647* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.15686* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.13725* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.11764* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.09804* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.07843* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.05882* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.03921* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3.01960* | 19.862 | 19.862 | 19.862 | 19.862 |
| principal | 3        | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.97297* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.94594* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.91891* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.89189* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.86486* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.83783* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.81081* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.78378* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.75675* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.72973* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.70270* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.67567* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.64864* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.62162* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.59459* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.56756* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.54054* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.51351* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.48648* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.45946* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.43243* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.40540* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.37837* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.35135* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.32432* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.29729* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal | 2.27027* | 19.513 | 19.513 | 19.513 | 19.513 |
| principal |          |        |        |        |        |

|           |          |        |        |        |
|-----------|----------|--------|--------|--------|
| principal | 2.21621* | 19.513 | 19.513 | 19.513 |
| principal | 2.18918* | 19.513 | 19.513 | 19.513 |
| principal | 2.16216* | 19.513 | 19.513 | 19.513 |
| principal | 2.13513* | 19.513 | 19.513 | 19.513 |
| principal | 2.10810* | 19.513 | 19.513 | 19.513 |
| principal | 2.08108* | 19.513 | 19.513 | 19.513 |
| principal | 2.05405* | 19.513 | 19.513 | 19.513 |
| principal | 2.02702* | 18.751 | 18.751 | 18.751 |
| principal | 2        | 18.751 | 18.751 | 18.751 |
| principal | 1.91666* | 18.751 | 18.751 | 18.751 |
| principal | 1.83333* | 18.751 | 18.751 | 18.751 |
| principal | 1.75*    | 18.751 | 18.751 | 18.751 |
| principal | 1.66666* | 18.751 | 18.751 | 18.751 |
| principal | 1.58333* | 18.751 | 18.751 | 18.751 |
| principal | 1.5*     | 18.751 | 18.751 | 18.751 |
| principal | 1.41666* | 18.751 | 18.751 | 18.751 |
| principal | 1.33333* | 18.751 | 18.751 | 18.751 |
| principal | 1.25*    | 18.751 | 18.751 | 18.751 |
| principal | 1.16666* | 18.751 | 18.751 | 18.751 |
| principal | 1.08333* | 18.751 | 18.751 | 18.751 |
| principal | 1        |        |        |        |

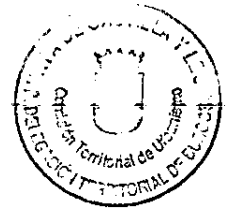
SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS  
River: OCA

| Reach     | River Sta. | Contr. | Expan. |
|-----------|------------|--------|--------|
| principal | 5          | -1     | 3      |
| principal | 4.97222*   | -1     | 3      |
| principal | 4.94444*   | -1     | 3      |
| principal | 4.91666*   | -1     | 3      |
| principal | 4.88888*   | -1     | 3      |
| principal | 4.86111*   | -1     | 3      |
| principal | 4.83333*   | -1     | 3      |
| principal | 4.80555*   | -1     | 3      |
| principal | 4.77777*   | -1     | 3      |
| principal | 4.75*      | -1     | 3      |
| principal | 4.72222*   | -1     | 3      |
| principal | 4.69444*   | -1     | 3      |
| principal | 4.66666*   | -1     | 3      |
| principal | 4.63888*   | -1     | 3      |
| principal | 4.61111*   | -1     | 3      |
| principal | 4.58333*   | -1     | 3      |
| principal | 4.55555*   | -1     | 3      |
| principal | 4.52777*   | -1     | 3      |
| principal | 4.5*       | -1     | 3      |
| principal | 4.47222*   | -1     | 3      |
| principal | 4.44444*   | -1     | 3      |
| principal | 4.41666*   | -1     | 3      |
| principal | 4.38888*   | -1     | 3      |
| principal | 4.36111*   | -1     | 3      |
| principal | 4.33333*   | -1     | 3      |
| principal | 4.30555*   | -1     | 3      |
| principal | 4.27777*   | -1     | 3      |
| principal | 4.25*      | -1     | 3      |
| principal | 4.22222*   | -1     | 3      |
| principal | 4.19444*   | -1     | 3      |
| principal | 4.16666*   | -1     | 3      |
| principal | 4.13888*   | -1     | 3      |

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 NOV. 2005....



Secretario





| Profile Output Table - Standard Table 1 |           |         |                   |                  |                  |                  |                  |                     |                   |                   |                  |          |     |
|-----------------------------------------|-----------|---------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|----------|-----|
| Reach                                   | River Sta | Profile | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # | Ch1 |
| principal                               | 5         | 25a     | 35.00             | 701.25           | 703.49           | 702.66           | 703.64           | 0.003180            | 1.76              | 19.94             | 12.94            | 0.45     |     |
| principal                               | 5         | 100a    | 70.00             | 701.25           | 704.35           | 703.36           | 704.59           | 0.003234            | 2.13              | 33.70             | 35.54            | 0.48     |     |
| principal                               | 5         | 500a    | 120.00            | 701.25           | 704.80           | 704.07           | 705.05           | 0.003200            | 2.42              | 68.04             | 118.68           | 0.49     |     |
| principal                               | 4.97222*  | 25a     | 35.00             | 701.19           | 703.42           | 704.29           | 703.58           | 0.003184            | 1.75              | 19.95             | 12.97            | 0.45     |     |
| principal                               | 4.97222*  | 100a    | 70.00             | 701.19           | 704.74           | 704.52           | 704.98           | 0.003208            | 2.42              | 67.93             | 118.53           | 0.49     |     |
| principal                               | 4.97222*  | 500a    | 120.00            | 701.19           | 704.74           | 704.52           | 704.98           | 0.003208            | 2.42              | 67.93             | 118.53           | 0.49     |     |
| principal                               | 4.94444*  | 25a     | 35.00             | 701.13           | 703.36           | 703.52           | 703.52           | 0.003181            | 1.75              | 19.97             | 13.01            | 0.45     |     |
| principal                               | 4.94444*  | 100a    | 70.00             | 701.13           | 704.23           | 704.46           | 704.46           | 0.003236            | 2.13              | 33.71             | 35.06            | 0.48     |     |
| principal                               | 4.94444*  | 500a    | 120.00            | 701.13           | 704.67           | 704.67           | 704.92           | 0.003202            | 2.42              | 67.98             | 118.56           | 0.49     |     |
| principal                               | 4.91666*  | 25a     | 35.00             | 701.06           | 703.30           | 703.30           | 703.45           | 0.003180            | 1.75              | 19.99             | 13.04            | 0.45     |     |
| principal                               | 4.91666*  | 100a    | 70.00             | 701.06           | 704.16           | 704.16           | 704.39           | 0.003235            | 2.13              | 33.73             | 34.89            | 0.48     |     |

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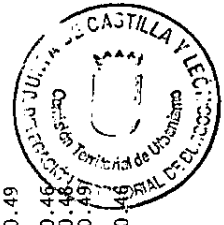
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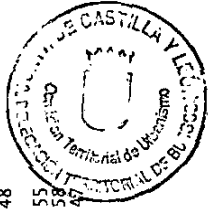
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|-----------|----------|------|--------|--------|--------|--------|----------|------|-------|--------|------|
| principal | 4.91666* | 500a | 120.00 | 701.06 | 704.61 | 704.86 | 0.003197 | 2.41 | 68.02 | 118.60 | 0.49 |
| principal | 4.88888* | 25a  | 35.00  | 701.00 | 703.23 | 703.39 | 0.003184 | 1.75 | 19.99 | 13.07  | 0.45 |
| principal | 4.88888* | 100a | 70.00  | 701.00 | 704.10 | 704.33 | 0.003239 | 2.13 | 33.72 | 34.58  | 0.48 |
| principal | 4.88888* | 500a | 120.00 | 701.00 | 704.55 | 704.79 | 0.003200 | 2.41 | 67.97 | 118.53 | 0.49 |
| principal | 4.86111* | 25a  | 35.00  | 700.94 | 703.17 | 703.33 | 0.003187 | 1.75 | 20.00 | 13.10  | 0.45 |
| principal | 4.86111* | 100a | 70.00  | 700.94 | 704.03 | 704.26 | 0.003243 | 2.12 | 33.70 | 34.19  | 0.48 |
| principal | 4.86111* | 500a | 120.00 | 700.94 | 704.48 | 704.73 | 0.003208 | 2.41 | 67.85 | 118.37 | 0.49 |
| principal | 4.83333* | 25a  | 35.00  | 700.88 | 703.11 | 703.26 | 0.003186 | 1.75 | 20.02 | 13.13  | 0.45 |
| principal | 4.83333* | 100a | 70.00  | 700.88 | 703.97 | 704.20 | 0.003242 | 2.12 | 33.72 | 34.03  | 0.48 |
| principal | 4.83333* | 500a | 120.00 | 700.88 | 704.42 | 704.67 | 0.003201 | 2.41 | 67.91 | 118.42 | 0.49 |
| principal | 4.80555* | 25a  | 35.00  | 700.81 | 703.04 | 703.20 | 0.003186 | 1.75 | 20.04 | 13.17  | 0.45 |
| principal | 4.80555* | 100a | 70.00  | 700.81 | 703.90 | 704.13 | 0.003242 | 2.12 | 33.74 | 33.87  | 0.48 |
| principal | 4.80555* | 500a | 120.00 | 700.81 | 704.35 | 704.60 | 0.003192 | 2.41 | 67.99 | 118.51 | 0.49 |
| principal | 4.77777* | 25a  | 35.00  | 700.75 | 702.98 | 703.13 | 0.003191 | 1.75 | 20.04 | 13.20  | 0.45 |
| principal | 4.77777* | 100a | 70.00  | 700.75 | 703.84 | 704.07 | 0.003249 | 2.12 | 33.71 | 33.45  | 0.48 |
| principal | 4.77777* | 500a | 120.00 | 700.75 | 704.29 | 704.54 | 0.003200 | 2.41 | 67.89 | 118.39 | 0.49 |
| principal | 4.75*    | 25a  | 35.00  | 700.69 | 702.92 | 703.07 | 0.003197 | 1.75 | 20.04 | 13.22  | 0.45 |
| principal | 4.75*    | 100a | 70.00  | 700.69 | 703.78 | 704.00 | 0.003256 | 2.12 | 33.68 | 33.00  | 0.48 |
| principal | 4.75*    | 500a | 120.00 | 700.69 | 704.23 | 704.47 | 0.003208 | 2.41 | 67.77 | 118.23 | 0.49 |
| principal | 4.72222* | 25a  | 35.00  | 700.62 | 702.85 | 703.01 | 0.003197 | 1.75 | 20.06 | 13.26  | 0.45 |
| principal | 4.72222* | 100a | 70.00  | 700.62 | 703.71 | 703.94 | 0.003257 | 2.12 | 33.69 | 32.78  | 0.48 |
| principal | 4.72222* | 500a | 120.00 | 700.62 | 704.16 | 704.41 | 0.003202 | 2.40 | 67.83 | 118.27 | 0.49 |
| principal | 4.69444* | 25a  | 35.00  | 700.56 | 702.79 | 702.94 | 0.003200 | 1.74 | 20.07 | 13.29  | 0.45 |
| principal | 4.69444* | 100a | 70.00  | 700.56 | 703.65 | 703.87 | 0.003260 | 2.11 | 33.70 | 32.56  | 0.48 |
| principal | 4.69444* | 500a | 120.00 | 700.56 | 704.10 | 704.35 | 0.003192 | 2.40 | 67.94 | 118.47 | 0.49 |
| principal | 4.66666* | 25a  | 35.00  | 700.50 | 702.72 | 702.88 | 0.003207 | 1.74 | 20.07 | 13.31  | 0.45 |
| principal | 4.66666* | 100a | 70.00  | 700.50 | 703.58 | 703.81 | 0.003269 | 2.11 | 33.66 | 32.04  | 0.48 |
| principal | 4.66666* | 500a | 120.00 | 700.50 | 704.04 | 704.28 | 0.003200 | 2.40 | 67.83 | 118.33 | 0.49 |
| principal | 4.63888* | 25a  | 35.00  | 700.44 | 702.66 | 702.82 | 0.003214 | 1.74 | 20.06 | 13.34  | 0.45 |
| principal | 4.63888* | 100a | 70.00  | 700.44 | 703.52 | 703.74 | 0.003278 | 2.11 | 33.63 | 31.55  | 0.48 |
| principal | 4.63888* | 500a | 120.00 | 700.44 | 703.97 | 704.22 | 0.003203 | 2.40 | 67.77 | 118.24 | 0.49 |
| principal | 4.61111* | 25a  | 35.00  | 700.38 | 702.60 | 702.75 | 0.003218 | 1.74 | 20.07 | 13.37  | 0.45 |
| principal | 4.61111* | 100a | 70.00  | 700.38 | 703.45 | 703.68 | 0.003285 | 2.11 | 33.61 | 31.16  | 0.48 |
| principal | 4.61111* | 500a | 120.00 | 700.38 | 703.91 | 704.15 | 0.003199 | 2.40 | 67.80 | 118.27 | 0.49 |
| principal | 4.58333* | 25a  | 35.00  | 700.31 | 702.53 | 702.69 | 0.003225 | 1.74 | 20.07 | 13.40  | 0.45 |
| principal | 4.58333* | 100a | 70.00  | 700.31 | 703.39 | 703.61 | 0.003293 | 2.11 | 33.59 | 30.75  | 0.48 |
| principal | 4.58333* | 500a | 120.00 | 700.31 | 703.84 | 704.09 | 0.003192 | 2.39 | 67.88 | 118.36 | 0.49 |
| principal | 4.55555* | 25a  | 35.00  | 700.25 | 702.47 | 702.62 | 0.003236 | 1.74 | 20.06 | 13.42  | 0.46 |
| principal | 4.55555* | 100a | 70.00  | 700.25 | 703.32 | 703.55 | 0.003308 | 2.11 | 33.54 | 30.07  | 0.48 |
| principal | 4.55555* | 500a | 120.00 | 700.25 | 703.78 | 704.03 | 0.003199 | 2.39 | 67.79 | 118.25 | 0.49 |
| principal | 4.52777* | 25a  | 35.00  | 700.19 | 702.39 | 702.56 | 0.003249 | 1.75 | 20.05 | 13.44  | 0.46 |
| principal | 4.52777* | 100a | 70.00  | 700.19 | 703.25 | 703.48 | 0.003324 | 2.11 | 33.47 | 29.34  | 0.48 |
| principal | 4.52777* | 500a | 120.00 | 700.19 | 703.72 | 703.96 | 0.003203 | 2.39 | 67.72 | 118.16 | 0.49 |
| principal | 4.5*     | 25a  | 35.00  | 700.12 | 702.34 | 702.49 | 0.003259 | 1.75 | 20.04 | 13.47  | 0.46 |
| principal | 4.5*     | 100a | 70.00  | 700.12 | 703.19 | 703.41 | 0.003340 | 2.11 | 33.42 | 28.68  | 0.48 |
| principal | 4.5*     | 500a | 120.00 | 700.12 | 703.65 | 703.90 | 0.003199 | 2.39 | 67.75 | 118.19 | 0.49 |
| principal | 4.47222* | 25a  | 35.00  | 700.06 | 702.27 | 702.43 | 0.003272 | 1.75 | 20.03 | 13.49  | 0.46 |

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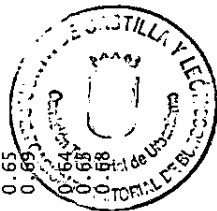
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| principal | 4.47222* | 500a | 120.00 | 700.06 | 703.59 | 703.84 | 0.003191 | 2.39 | 67.85 | 118.30 | 0.49 |
| principal | 4.44444* | 25a  | 35.00  | 700.00 | 702.21 | 702.36 | 0.003290 | 1.75 | 20.00 | 13.51  | 0.46 |
| principal | 4.44444* | 100a | 70.00  | 700.00 | 703.05 | 703.28 | 0.003382 | 2.12 | 33.27 | 26.99  | 0.49 |
| principal | 4.44444* | 500a | 120.00 | 700.00 | 703.53 | 703.77 | 0.003192 | 2.38 | 67.82 | 118.28 | 0.49 |
| principal | 4.41666* | 25a  | 35.00  | 699.94 | 702.14 | 702.30 | 0.003314 | 1.75 | 19.96 | 13.52  | 0.46 |
| principal | 4.41666* | 100a | 70.00  | 699.94 | 702.98 | 703.21 | 0.003415 | 2.12 | 33.15 | 25.77  | 0.49 |
| principal | 4.41666* | 500a | 120.00 | 699.94 | 703.46 | 703.71 | 0.003199 | 2.38 | 67.73 | 118.17 | 0.49 |
| principal | 4.38888* | 25a  | 35.00  | 699.88 | 702.07 | 702.23 | 0.003337 | 1.76 | 19.93 | 13.54  | 0.46 |
| principal | 4.38888* | 100a | 70.00  | 699.88 | 702.91 | 703.14 | 0.003447 | 2.13 | 33.05 | 24.65  | 0.49 |
| principal | 4.38888* | 500a | 120.00 | 699.88 | 703.40 | 703.64 | 0.003191 | 2.38 | 67.82 | 118.27 | 0.49 |
| principal | 4.36111* | 25a  | 35.00  | 699.81 | 702.01 | 702.16 | 0.003363 | 1.76 | 19.88 | 13.55  | 0.46 |
| principal | 4.36111* | 100a | 70.00  | 699.81 | 702.84 | 703.07 | 0.003485 | 2.13 | 32.93 | 23.30  | 0.49 |
| principal | 4.36111* | 500a | 120.00 | 699.81 | 703.34 | 703.58 | 0.003183 | 2.38 | 67.90 | 118.40 | 0.49 |
| principal | 4.33333* | 25a  | 35.00  | 699.75 | 701.94 | 702.10 | 0.003399 | 1.77 | 19.82 | 13.55  | 0.47 |
| principal | 4.33333* | 100a | 70.00  | 699.75 | 702.77 | 703.00 | 0.003534 | 2.14 | 32.78 | 21.57  | 0.50 |
| principal | 4.33333* | 500a | 120.00 | 699.75 | 703.27 | 703.52 | 0.003181 | 2.37 | 67.92 | 118.47 | 0.49 |
| principal | 4.30555* | 25a  | 35.00  | 699.69 | 701.87 | 702.03 | 0.003444 | 1.77 | 19.74 | 13.55  | 0.47 |
| principal | 4.30555* | 100a | 70.00  | 699.69 | 702.70 | 702.93 | 0.003597 | 2.15 | 32.61 | 19.48  | 0.50 |
| principal | 4.30555* | 500a | 120.00 | 699.69 | 703.21 | 703.45 | 0.003182 | 2.37 | 67.91 | 118.48 | 0.49 |
| principal | 4.27777* | 25a  | 35.00  | 699.63 | 701.80 | 701.96 | 0.003494 | 1.78 | 19.65 | 13.55  | 0.47 |
| principal | 4.27777* | 100a | 70.00  | 699.63 | 702.62 | 702.86 | 0.003666 | 2.16 | 32.45 | 17.44  | 0.50 |
| principal | 4.27777* | 500a | 120.00 | 699.63 | 703.15 | 703.39 | 0.003169 | 2.37 | 68.07 | 118.69 | 0.49 |
| principal | 4.25*    | 25a  | 35.00  | 699.56 | 701.73 | 701.89 | 0.003550 | 1.79 | 19.54 | 13.54  | 0.48 |
| principal | 4.25*    | 100a | 70.00  | 699.56 | 702.55 | 702.79 | 0.003729 | 2.17 | 32.27 | 17.43  | 0.51 |
| principal | 4.25*    | 500a | 120.00 | 699.56 | 703.09 | 703.33 | 0.003151 | 2.36 | 68.28 | 119.01 | 0.49 |
| principal | 4.22222* | 25a  | 35.00  | 699.50 | 701.65 | 701.82 | 0.003629 | 1.80 | 19.40 | 13.51  | 0.48 |
| principal | 4.22222* | 100a | 70.00  | 699.50 | 702.47 | 702.71 | 0.003811 | 2.18 | 32.04 | 17.41  | 0.51 |
| principal | 4.22222* | 500a | 120.00 | 699.50 | 703.02 | 703.26 | 0.003143 | 2.35 | 68.38 | 119.22 | 0.49 |
| principal | 4.19444* | 25a  | 35.00  | 699.44 | 701.58 | 701.74 | 0.003724 | 1.82 | 19.22 | 13.47  | 0.49 |
| principal | 4.19444* | 100a | 70.00  | 699.44 | 702.39 | 702.64 | 0.003910 | 2.20 | 31.76 | 17.37  | 0.52 |
| principal | 4.19444* | 500a | 120.00 | 699.44 | 702.96 | 703.20 | 0.003128 | 2.35 | 68.57 | 119.62 | 0.49 |
| principal | 4.16666* | 25a  | 35.00  | 699.37 | 701.50 | 701.67 | 0.003838 | 1.84 | 19.02 | 13.43  | 0.49 |
| principal | 4.16666* | 100a | 70.00  | 699.37 | 702.30 | 702.56 | 0.004026 | 2.23 | 31.45 | 17.33  | 0.53 |
| principal | 4.16666* | 500a | 120.00 | 699.37 | 702.90 | 703.14 | 0.003102 | 2.34 | 68.91 | 120.14 | 0.48 |
| principal | 4.13888* | 25a  | 35.00  | 699.31 | 701.41 | 701.59 | 0.003984 | 1.86 | 18.77 | 13.36  | 0.50 |
| principal | 4.13888* | 100a | 70.00  | 699.31 | 702.22 | 702.48 | 0.004169 | 2.25 | 31.07 | 17.26  | 0.54 |
| principal | 4.13888* | 500a | 120.00 | 699.31 | 702.84 | 703.07 | 0.003070 | 2.33 | 69.31 | 120.77 | 0.48 |
| principal | 4.11111* | 25a  | 35.00  | 699.25 | 701.33 | 701.51 | 0.004183 | 1.90 | 18.45 | 13.26  | 0.51 |
| principal | 4.11111* | 100a | 70.00  | 699.25 | 702.12 | 702.39 | 0.004362 | 2.29 | 30.57 | 17.16  | 0.55 |
| principal | 4.11111* | 500a | 120.00 | 699.25 | 702.78 | 703.01 | 0.003041 | 2.32 | 69.68 | 121.41 | 0.48 |
| principal | 4.08333* | 25a  | 35.00  | 699.19 | 701.23 | 701.42 | 0.004457 | 1.94 | 18.02 | 13.13  | 0.53 |
| principal | 4.08333* | 100a | 70.00  | 699.19 | 702.02 | 702.30 | 0.004619 | 2.34 | 29.95 | 17.02  | 0.56 |
| principal | 4.08333* | 500a | 120.00 | 699.19 | 702.72 | 702.95 | 0.003004 | 2.30 | 70.19 | 122.26 | 0.48 |
| principal | 4.05555* | 25a  | 35.00  | 699.12 | 701.13 | 701.33 | 0.004840 | 2.00 | 17.49 | 12.95  | 0.55 |
| principal | 4.05555* | 100a | 70.00  | 699.12 | 701.91 | 702.20 | 0.004963 | 2.40 | 29.18 | 16.83  | 0.58 |
| principal | 4.05555* | 500a | 120.00 | 699.12 | 702.66 | 702.89 | 0.002941 | 2.28 | 71.05 | 123.63 | 0.49 |

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO  
29 NOV 2005



|           |          |      |        |        |        |        |          |      |       |        |      |
|-----------|----------|------|--------|--------|--------|--------|----------|------|-------|--------|------|
| principal | 4.02777* | 25a  | 35.00  | 699.06 | 701.00 | 701.23 | 0.005442 | 2.09 | 16.74 | 12.69  | 0.58 |
| principal | 4.02777* | 100a | 70.00  | 699.06 | 701.78 | 702.10 | 0.005486 | 2.49 | 28.13 | 16.56  | 0.61 |
| principal | 4.02777* | 500a | 120.00 | 699.06 | 702.61 | 702.83 | 0.002834 | 2.25 | 72.55 | 125.96 | 0.46 |
| principal | 4        | 25a  | 35.00  | 699.00 | 700.85 | 701.10 | 0.006628 | 2.25 | 15.56 | 12.23  | 0.64 |
| principal | 4        | 100a | 70.00  | 699.00 | 701.82 | 701.98 | 0.006402 | 2.64 | 26.56 | 16.11  | 0.66 |
| principal | 4        | 500a | 120.00 | 699.00 | 702.24 | 702.72 | 0.006504 | 3.10 | 43.19 | 65.81  | 0.69 |
| principal | 3.98039* | 25a  | 35.00  | 698.86 | 700.71 | 700.97 | 0.006653 | 2.26 | 15.49 | 12.13  | 0.64 |
| principal | 3.98039* | 100a | 70.00  | 698.86 | 701.50 | 701.85 | 0.006396 | 2.63 | 26.58 | 16.13  | 0.65 |
| principal | 3.98039* | 500a | 120.00 | 698.86 | 702.11 | 702.59 | 0.006561 | 3.11 | 43.05 | 65.02  | 0.69 |
| principal | 3.96078* | 25a  | 35.00  | 698.72 | 700.58 | 700.84 | 0.006676 | 2.27 | 15.43 | 12.02  | 0.64 |
| principal | 3.96078* | 100a | 70.00  | 698.72 | 701.37 | 701.72 | 0.006385 | 2.63 | 26.62 | 16.15  | 0.65 |
| principal | 3.96078* | 500a | 120.00 | 698.72 | 701.98 | 702.45 | 0.006494 | 3.09 | 43.46 | 65.87  | 0.69 |
| principal | 3.94117* | 25a  | 35.00  | 698.59 | 700.44 | 700.70 | 0.006706 | 2.28 | 15.36 | 11.90  | 0.64 |
| principal | 3.94117* | 100a | 70.00  | 698.59 | 701.24 | 701.60 | 0.006378 | 2.63 | 26.64 | 16.17  | 0.65 |
| principal | 3.94117* | 500a | 120.00 | 698.59 | 701.85 | 702.32 | 0.006553 | 3.10 | 43.32 | 65.11  | 0.69 |
| principal | 3.92156* | 25a  | 35.00  | 698.45 | 700.30 | 700.57 | 0.006747 | 2.29 | 15.28 | 11.77  | 0.64 |
| principal | 3.92156* | 100a | 70.00  | 698.45 | 701.12 | 701.47 | 0.006392 | 2.63 | 26.64 | 16.18  | 0.65 |
| principal | 3.92156* | 500a | 120.00 | 698.45 | 701.72 | 702.19 | 0.006513 | 3.09 | 43.61 | 65.63  | 0.69 |
| principal | 3.90196* | 25a  | 35.00  | 698.31 | 700.17 | 700.44 | 0.006784 | 2.30 | 15.20 | 11.63  | 0.64 |
| principal | 3.90196* | 100a | 70.00  | 698.31 | 700.99 | 701.34 | 0.006391 | 2.63 | 26.66 | 16.20  | 0.65 |
| principal | 3.90196* | 500a | 120.00 | 698.31 | 701.58 | 702.06 | 0.006583 | 3.10 | 43.43 | 64.84  | 0.69 |
| principal | 3.88235* | 25a  | 35.00  | 698.18 | 700.03 | 700.30 | 0.006816 | 2.32 | 15.12 | 11.49  | 0.64 |
| principal | 3.88235* | 100a | 70.00  | 698.18 | 700.86 | 701.21 | 0.006381 | 2.62 | 26.70 | 16.23  | 0.65 |
| principal | 3.88235* | 500a | 120.00 | 698.18 | 701.46 | 701.92 | 0.006522 | 3.09 | 43.82 | 65.58  | 0.69 |
| principal | 3.86274* | 25a  | 35.00  | 698.04 | 699.89 | 700.16 | 0.006852 | 2.33 | 15.03 | 11.33  | 0.65 |
| principal | 3.86274* | 100a | 70.00  | 698.04 | 700.74 | 701.09 | 0.006376 | 2.62 | 26.73 | 16.25  | 0.65 |
| principal | 3.86274* | 500a | 120.00 | 698.04 | 701.33 | 701.79 | 0.006547 | 3.09 | 43.83 | 65.33  | 0.69 |
| principal | 3.84313* | 25a  | 35.00  | 697.90 | 699.75 | 700.03 | 0.006894 | 2.34 | 14.93 | 11.16  | 0.65 |
| principal | 3.84313* | 100a | 70.00  | 697.90 | 700.61 | 700.96 | 0.006375 | 2.62 | 26.76 | 16.28  | 0.65 |
| principal | 3.84313* | 500a | 120.00 | 697.90 | 701.20 | 701.66 | 0.006518 | 3.08 | 44.07 | 65.70  | 0.69 |
| principal | 3.82352* | 25a  | 35.00  | 697.76 | 699.61 | 699.89 | 0.006927 | 2.36 | 14.83 | 10.98  | 0.65 |
| principal | 3.82352* | 100a | 70.00  | 697.76 | 700.49 | 700.83 | 0.006372 | 2.61 | 26.79 | 16.30  | 0.65 |
| principal | 3.82352* | 500a | 120.00 | 697.76 | 701.06 | 701.53 | 0.006587 | 3.09 | 43.91 | 65.07  | 0.69 |
| principal | 3.80392* | 25a  | 35.00  | 697.63 | 699.47 | 699.75 | 0.006935 | 2.37 | 14.75 | 10.79  | 0.65 |
| principal | 3.80392* | 100a | 70.00  | 697.63 | 700.36 | 700.71 | 0.006359 | 2.61 | 26.84 | 16.34  | 0.65 |
| principal | 3.80392* | 500a | 120.00 | 697.63 | 700.94 | 701.39 | 0.006506 | 3.07 | 44.38 | 65.95  | 0.68 |
| principal | 3.78431* | 25a  | 35.00  | 697.49 | 699.33 | 699.62 | 0.006947 | 2.39 | 14.65 | 10.59  | 0.65 |
| principal | 3.78431* | 100a | 70.00  | 697.49 | 700.23 | 700.58 | 0.006356 | 2.60 | 26.88 | 16.37  | 0.65 |
| principal | 3.78431* | 500a | 120.00 | 697.49 | 700.80 | 701.26 | 0.006564 | 3.08 | 44.26 | 65.48  | 0.69 |
| principal | 3.76470* | 25a  | 35.00  | 697.35 | 699.19 | 699.48 | 0.006947 | 2.40 | 14.56 | 10.37  | 0.65 |
| principal | 3.76470* | 100a | 70.00  | 697.35 | 700.11 | 700.45 | 0.006353 | 2.60 | 26.92 | 16.40  | 0.65 |
| principal | 3.76470* | 500a | 120.00 | 697.35 | 700.67 | 701.13 | 0.006538 | 3.07 | 44.50 | 65.82  | 0.68 |
| principal | 3.74509* | 25a  | 35.00  | 697.22 | 699.05 | 699.34 | 0.006898 | 2.42 | 14.49 | 10.15  | 0.65 |
| principal | 3.74509* | 100a | 70.00  | 697.22 | 699.88 | 700.33 | 0.006355 | 2.60 | 26.95 | 16.44  | 0.65 |
| principal | 3.74509* | 500a | 120.00 | 697.22 | 700.54 | 700.99 | 0.006623 | 3.08 | 44.30 | 65.18  | 0.69 |
| principal | 3.72549* | 25a  | 35.00  | 697.08 | 698.91 | 699.21 | 0.006833 | 2.42 | 14.45 | 9.98   | 0.65 |
| principal | 3.72549* | 100a | 70.00  | 697.08 | 699.86 | 700.20 | 0.006341 | 2.59 | 27.02 | 16.49  | 0.65 |
| principal | 3.72549* | 500a | 120.00 | 697.08 | 700.41 | 700.86 | 0.006569 | 3.06 | 44.64 | 65.78  | 0.68 |

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO 29 MAR 2005



|           |          |      |        |        |        |        |          |      |       |       |      |
|-----------|----------|------|--------|--------|--------|--------|----------|------|-------|-------|------|
| principal | 3.70588* | 25a  | 35.00  | 696.94 | 698.77 | 699.07 | 0.006840 | 2.43 | 14.43 | 9.91  | 0.64 |
| principal | 3.70588* | 100a | 70.00  | 696.94 | 699.73 | 700.07 | 0.006338 | 2.59 | 27.06 | 16.53 | 0.65 |
| principal | 3.70588* | 500a | 120.00 | 696.94 | 700.28 | 700.73 | 0.006538 | 3.05 | 44.90 | 66.18 | 0.68 |
| principal | 3.68627* | 25a  | 35.00  | 696.80 | 698.63 | 698.93 | 0.006843 | 2.43 | 14.40 | 9.84  | 0.64 |
| principal | 3.68627* | 100a | 70.00  | 696.80 | 699.61 | 699.95 | 0.006334 | 2.58 | 27.11 | 16.58 | 0.64 |
| principal | 3.68627* | 500a | 120.00 | 696.80 | 700.15 | 700.59 | 0.006561 | 3.05 | 44.93 | 66.08 | 0.68 |
| principal | 3.66666* | 25a  | 35.00  | 696.67 | 698.50 | 698.80 | 0.006852 | 2.44 | 14.37 | 9.78  | 0.64 |
| principal | 3.66666* | 100a | 70.00  | 696.67 | 699.48 | 699.82 | 0.006332 | 2.58 | 27.16 | 16.63 | 0.64 |
| principal | 3.66666* | 500a | 120.00 | 696.67 | 700.01 | 700.46 | 0.006632 | 3.06 | 44.79 | 65.64 | 0.69 |
| principal | 3.64705* | 25a  | 35.00  | 696.53 | 698.36 | 698.66 | 0.006841 | 2.44 | 14.36 | 9.72  | 0.64 |
| principal | 3.64705* | 100a | 70.00  | 696.53 | 699.36 | 699.70 | 0.006318 | 2.57 | 27.24 | 16.69 | 0.64 |
| principal | 3.64705* | 500a | 120.00 | 696.53 | 699.88 | 700.33 | 0.006592 | 3.05 | 45.08 | 66.08 | 0.68 |
| principal | 3.62745* | 25a  | 35.00  | 696.39 | 698.22 | 698.53 | 0.006847 | 2.44 | 14.34 | 9.67  | 0.64 |
| principal | 3.62745* | 100a | 70.00  | 696.39 | 699.24 | 699.57 | 0.006314 | 2.56 | 27.30 | 16.75 | 0.64 |
| principal | 3.62745* | 500a | 120.00 | 696.39 | 699.75 | 700.19 | 0.006576 | 3.04 | 45.28 | 66.35 | 0.68 |
| principal | 3.60784* | 25a  | 35.00  | 696.25 | 698.09 | 698.39 | 0.006850 | 2.44 | 14.32 | 9.62  | 0.64 |
| principal | 3.60784* | 100a | 70.00  | 696.25 | 699.11 | 699.44 | 0.006307 | 2.56 | 27.36 | 16.82 | 0.64 |
| principal | 3.60784* | 500a | 120.00 | 696.25 | 699.63 | 700.06 | 0.006486 | 3.02 | 45.76 | 67.16 | 0.68 |
| principal | 3.58823* | 25a  | 35.00  | 696.12 | 697.95 | 698.25 | 0.006858 | 2.45 | 14.29 | 9.57  | 0.64 |
| principal | 3.58823* | 100a | 70.00  | 696.12 | 698.99 | 699.32 | 0.006311 | 2.55 | 27.42 | 16.89 | 0.64 |
| principal | 3.58823* | 500a | 120.00 | 696.12 | 699.53 | 699.93 | 0.005956 | 2.92 | 48.08 | 71.41 | 0.65 |
| principal | 3.56862* | 25a  | 35.00  | 695.98 | 697.81 | 698.12 | 0.006847 | 2.45 | 14.29 | 9.52  | 0.64 |
| principal | 3.56862* | 100a | 70.00  | 695.98 | 698.86 | 699.19 | 0.006300 | 2.54 | 27.51 | 16.98 | 0.64 |
| principal | 3.56862* | 500a | 120.00 | 695.98 | 699.35 | 699.79 | 0.006814 | 3.06 | 44.81 | 65.09 | 0.69 |
| principal | 3.54902* | 25a  | 35.00  | 695.84 | 697.67 | 697.98 | 0.006847 | 2.45 | 14.27 | 9.48  | 0.64 |
| principal | 3.54902* | 100a | 70.00  | 695.84 | 698.74 | 699.07 | 0.006298 | 2.54 | 27.58 | 17.06 | 0.64 |
| principal | 3.54902* | 500a | 120.00 | 695.84 | 699.22 | 699.66 | 0.006776 | 3.05 | 45.08 | 65.51 | 0.69 |
| principal | 3.52941* | 25a  | 35.00  | 695.71 | 697.54 | 697.84 | 0.006851 | 2.46 | 14.26 | 9.44  | 0.64 |
| principal | 3.52941* | 100a | 70.00  | 695.71 | 698.62 | 698.94 | 0.006299 | 2.53 | 27.65 | 17.15 | 0.64 |
| principal | 3.52941* | 500a | 120.00 | 695.71 | 699.08 | 699.53 | 0.006854 | 3.06 | 44.93 | 65.15 | 0.69 |
| principal | 3.50980* | 25a  | 35.00  | 695.57 | 697.40 | 697.71 | 0.006855 | 2.46 | 14.24 | 9.41  | 0.64 |
| principal | 3.50980* | 100a | 70.00  | 695.57 | 698.49 | 698.82 | 0.006303 | 2.52 | 27.73 | 17.25 | 0.64 |
| principal | 3.50980* | 500a | 120.00 | 695.57 | 698.94 | 699.39 | 0.007010 | 3.08 | 44.53 | 64.30 | 0.70 |
| principal | 3.49019* | 25a  | 35.00  | 695.43 | 697.26 | 697.57 | 0.006842 | 2.46 | 14.24 | 9.37  | 0.64 |
| principal | 3.49019* | 100a | 70.00  | 695.43 | 698.37 | 698.69 | 0.006300 | 2.52 | 27.82 | 17.37 | 0.63 |
| principal | 3.49019* | 500a | 120.00 | 695.43 | 698.81 | 699.26 | 0.007114 | 3.09 | 44.32 | 63.84 | 0.70 |
| principal | 3.47058* | 25a  | 35.00  | 695.29 | 697.13 | 697.44 | 0.006838 | 2.46 | 14.23 | 9.34  | 0.64 |
| principal | 3.47058* | 100a | 70.00  | 695.29 | 698.24 | 698.57 | 0.006309 | 2.51 | 27.90 | 17.48 | 0.63 |
| principal | 3.47058* | 500a | 120.00 | 695.29 | 698.67 | 699.13 | 0.007256 | 3.11 | 43.99 | 63.16 | 0.71 |
| principal | 3.45098* | 25a  | 35.00  | 695.16 | 696.99 | 697.30 | 0.006836 | 2.46 | 14.22 | 9.31  | 0.64 |
| principal | 3.45098* | 100a | 70.00  | 695.16 | 698.12 | 698.44 | 0.006324 | 2.50 | 27.97 | 17.60 | 0.63 |
| principal | 3.45098* | 500a | 120.00 | 695.16 | 698.53 | 699.00 | 0.007474 | 3.13 | 43.45 | 62.09 | 0.71 |
| principal | 3.43137* | 25a  | 35.00  | 695.02 | 696.86 | 697.16 | 0.006835 | 2.46 | 14.21 | 9.28  | 0.63 |
| principal | 3.43137* | 100a | 70.00  | 695.02 | 698.00 | 698.31 | 0.006350 | 2.50 | 28.02 | 17.72 | 0.63 |
| principal | 3.43137* | 500a | 120.00 | 695.02 | 698.38 | 698.86 | 0.007840 | 3.18 | 42.51 | 60.26 | 0.73 |
| principal | 3.41176* | 25a  | 35.00  | 694.88 | 696.72 | 697.03 | 0.006811 | 2.46 | 14.22 | 9.25  | 0.63 |
| principal | 3.41176* | 100a | 70.00  | 694.88 | 697.87 | 698.19 | 0.006380 | 2.49 | 28.09 | 17.86 | 0.63 |

APROBADO POR EL CONCEJO MUNICIPAL DE ESTE AYUNTAMIENTO POR



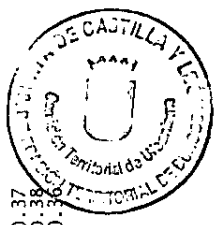


|           |          |      |        |        |        |        |        |          |      |       |       |      |
|-----------|----------|------|--------|--------|--------|--------|--------|----------|------|-------|-------|------|
| principal | 3.41176* | 500a | 120.00 | 694.88 | 698.25 | 698.33 | 698.73 | 0.007863 | 3.18 | 42.60 | 60.43 | 0.73 |
| principal | 3.39215* | 25a  | 35.00  | 694.74 | 696.58 |        | 696.89 | 0.006796 | 2.46 | 14.22 | 9.22  | 0.63 |
| principal | 3.39215* | 100a | 70.00  | 694.74 | 697.74 |        | 698.06 | 0.006428 | 2.49 | 28.12 | 17.99 | 0.64 |
| principal | 3.39215* | 500a | 120.00 | 694.74 | 698.11 | 698.20 | 698.60 | 0.007987 | 3.13 | 42.39 | 60.05 | 0.73 |
| principal | 3.37254* | 25a  | 35.00  | 694.61 | 696.45 |        | 696.76 | 0.006774 | 2.46 | 14.23 | 9.20  | 0.63 |
| principal | 3.37254* | 100a | 70.00  | 694.61 | 697.61 |        | 697.93 | 0.006436 | 2.49 | 28.14 | 18.98 | 0.64 |
| principal | 3.37254* | 500a | 120.00 | 694.61 | 697.99 | 698.07 | 698.46 | 0.007726 | 3.15 | 43.28 | 61.71 | 0.72 |
| principal | 3.35294* | 25a  | 35.00  | 694.47 | 696.31 |        | 696.62 | 0.006750 | 2.45 | 14.24 | 9.18  | 0.63 |
| principal | 3.35294* | 100a | 70.00  | 694.47 | 697.49 |        | 697.80 | 0.006446 | 2.49 | 28.16 | 20.00 | 0.63 |
| principal | 3.35294* | 500a | 120.00 | 694.47 | 697.85 | 697.94 | 698.33 | 0.007862 | 3.16 | 43.03 | 61.26 | 0.73 |
| principal | 3.33333* | 25a  | 35.00  | 694.33 | 696.18 |        | 696.49 | 0.006687 | 2.45 | 14.28 | 9.16  | 0.63 |
| principal | 3.33333* | 100a | 70.00  | 694.33 | 697.36 |        | 697.68 | 0.006436 | 2.48 | 28.23 | 21.19 | 0.63 |
| principal | 3.33333* | 500a | 120.00 | 694.33 | 697.73 | 697.80 | 698.19 | 0.007657 | 3.12 | 43.76 | 62.58 | 0.72 |
| principal | 3.31372* | 25a  | 35.00  | 694.20 | 696.05 |        | 696.35 | 0.006624 | 2.44 | 14.32 | 9.14  | 0.62 |
| principal | 3.31372* | 100a | 70.00  | 694.20 | 697.23 |        | 697.55 | 0.006440 | 2.48 | 28.28 | 22.23 | 0.63 |
| principal | 3.31372* | 500a | 120.00 | 694.20 | 697.60 | 697.68 | 698.06 | 0.007660 | 3.11 | 43.90 | 62.82 | 0.71 |
| principal | 3.29411* | 25a  | 35.00  | 694.06 | 695.92 |        | 696.22 | 0.006535 | 2.43 | 14.38 | 9.13  | 0.62 |
| principal | 3.29411* | 100a | 70.00  | 694.06 | 697.11 |        | 697.42 | 0.006445 | 2.48 | 28.34 | 23.21 | 0.63 |
| principal | 3.29411* | 500a | 120.00 | 694.06 | 697.47 | 697.54 | 697.92 | 0.007777 | 3.13 | 43.70 | 62.47 | 0.72 |
| principal | 3.27451* | 25a  | 35.00  | 693.92 | 695.80 |        | 696.09 | 0.006412 | 2.42 | 14.47 | 9.12  | 0.61 |
| principal | 3.27451* | 100a | 70.00  | 693.92 | 696.98 |        | 697.29 | 0.006450 | 2.48 | 28.40 | 24.16 | 0.63 |
| principal | 3.27451* | 500a | 120.00 | 693.92 | 697.34 | 697.41 | 697.79 | 0.007609 | 3.09 | 44.32 | 63.53 | 0.71 |
| principal | 3.25490* | 25a  | 35.00  | 693.78 | 695.67 |        | 695.97 | 0.006230 | 2.39 | 14.61 | 9.12  | 0.60 |
| principal | 3.25490* | 100a | 70.00  | 693.78 | 696.85 |        | 697.16 | 0.006434 | 2.47 | 28.51 | 25.29 | 0.63 |
| principal | 3.25490* | 500a | 120.00 | 693.78 | 697.21 | 697.28 | 697.65 | 0.007632 | 3.09 | 44.39 | 63.66 | 0.71 |
| principal | 3.23529* | 25a  | 35.00  | 693.65 | 695.56 |        | 695.84 | 0.006015 | 2.37 | 14.79 | 9.12  | 0.59 |
| principal | 3.23529* | 100a | 70.00  | 693.65 | 696.72 |        | 697.03 | 0.006446 | 2.47 | 28.58 | 26.21 | 0.63 |
| principal | 3.23529* | 500a | 120.00 | 693.65 | 697.08 | 697.14 | 697.52 | 0.007532 | 3.07 | 44.83 | 64.40 | 0.70 |
| principal | 3.21568* | 25a  | 35.00  | 693.51 | 695.45 |        | 695.72 | 0.005747 | 2.33 | 15.02 | 9.13  | 0.58 |
| principal | 3.21568* | 100a | 70.00  | 693.51 | 696.60 |        | 696.91 | 0.006439 | 2.47 | 28.69 | 27.17 | 0.63 |
| principal | 3.21568* | 500a | 120.00 | 693.51 | 696.95 | 697.01 | 697.39 | 0.007670 | 3.08 | 44.56 | 63.95 | 0.71 |
| principal | 3.19607* | 25a  | 35.00  | 693.37 | 695.34 |        | 695.61 | 0.005430 | 2.29 | 15.31 | 9.15  | 0.56 |
| principal | 3.19607* | 100a | 70.00  | 693.37 | 696.47 |        | 696.78 | 0.006422 | 2.46 | 28.82 | 28.21 | 0.63 |
| principal | 3.19607* | 500a | 120.00 | 693.37 | 696.82 | 696.88 | 697.25 | 0.007600 | 3.06 | 44.90 | 64.51 | 0.70 |
| principal | 3.17647* | 25a  | 35.00  | 693.24 | 695.25 |        | 695.50 | 0.005054 | 2.23 | 15.70 | 9.18  | 0.54 |
| principal | 3.17647* | 100a | 70.00  | 693.24 | 696.35 |        | 696.65 | 0.006370 | 2.45 | 29.03 | 29.46 | 0.62 |
| principal | 3.17647* | 500a | 120.00 | 693.24 | 696.69 | 696.74 | 697.12 | 0.007501 | 3.04 | 45.32 | 65.18 | 0.70 |
| principal | 3.15686* | 25a  | 35.00  | 693.10 | 695.16 |        | 695.40 | 0.004656 | 2.17 | 16.15 | 9.22  | 0.52 |
| principal | 3.15686* | 100a | 70.00  | 693.10 | 696.22 |        | 696.52 | 0.006297 | 2.44 | 29.30 | 30.83 | 0.62 |
| principal | 3.15686* | 500a | 120.00 | 693.10 | 696.56 | 696.61 | 696.98 | 0.007450 | 3.02 | 45.60 | 63.63 | 0.70 |
| principal | 3.13725* | 25a  | 35.00  | 692.96 | 695.08 |        | 695.31 | 0.004236 | 2.10 | 16.69 | 9.26  | 0.50 |
| principal | 3.13725* | 100a | 70.00  | 692.96 | 696.10 |        | 696.40 | 0.006172 | 2.42 | 29.68 | 32.48 | 0.61 |
| principal | 3.13725* | 500a | 120.00 | 692.96 | 696.42 | 696.48 | 696.85 | 0.007658 | 3.05 | 45.13 | 64.89 | 0.70 |
| principal | 3.11764* | 25a  | 35.00  | 692.82 | 695.01 |        | 695.22 | 0.003813 | 2.02 | 17.31 | 9.32  | 0.47 |
| principal | 3.11764* | 100a | 70.00  | 692.82 | 695.99 |        | 696.28 | 0.005964 | 2.39 | 30.73 | 34.69 | 0.60 |
| principal | 3.11764* | 500a | 120.00 | 692.82 | 696.30 | 696.34 | 696.71 | 0.007492 | 3.01 | 45.28 | 65.84 | 0.69 |
| principal | 3.09804* | 25a  | 35.00  | 692.69 | 694.95 |        | 695.15 | 0.003398 | 1.94 | 18.02 | 9.38  | 0.47 |

APROBADO PROVISIONALMENTE POR  
ESTE AYUNTAMIENTO



|           |          |      |        |        |        |        |          |      |       |        |      |
|-----------|----------|------|--------|--------|--------|--------|----------|------|-------|--------|------|
| principal | 3.09804* | 100a | 692.69 | 695.88 | 696.21 | 696.16 | 0.005602 | 2.34 | 31.33 | 37.95  | 0.58 |
| principal | 3.09804* | 500a | 692.69 | 696.22 |        | 696.57 | 0.006359 | 2.82 | 49.51 | 71.39  | 0.64 |
| principal | 3.07843* | 25a  | 692.55 | 694.90 |        | 695.08 | 0.003011 | 1.86 | 18.80 | 9.44   | 0.42 |
| principal | 3.07843* | 100a | 692.55 | 695.79 |        | 696.05 | 0.005067 | 2.25 | 33.04 | 42.47  | 0.56 |
| principal | 3.07843* | 500a | 692.55 | 696.13 | 696.08 | 696.44 | 0.005451 | 2.64 | 53.24 | 76.40  | 0.60 |
| principal | 3.05882* | 25a  | 692.41 | 694.86 |        | 695.02 | 0.002657 | 1.78 | 19.65 | 9.52   | 0.40 |
| principal | 3.05882* | 100a | 692.41 | 695.73 |        | 695.94 | 0.004290 | 2.12 | 35.98 | 49.07  | 0.51 |
| principal | 3.05882* | 500a | 692.41 | 696.09 |        | 696.33 | 0.004154 | 2.37 | 60.17 | 84.86  | 0.52 |
| principal | 3.03921* | 25a  | 692.27 | 694.82 |        | 694.96 | 0.002336 | 1.70 | 20.56 | 9.59   | 0.37 |
| principal | 3.03921* | 100a | 692.27 | 695.68 |        | 695.86 | 0.003346 | 1.93 | 40.70 | 57.89  | 0.46 |
| principal | 3.03921* | 500a | 692.27 | 696.06 |        | 696.24 | 0.002933 | 2.05 | 69.93 | 95.40  | 0.44 |
| principal | 3.01960* | 25a  | 692.14 | 694.78 |        | 694.92 | 0.002049 | 1.62 | 21.54 | 9.67   | 0.35 |
| principal | 3.01960* | 100a | 692.14 | 695.66 |        | 695.79 | 0.002401 | 1.69 | 47.66 | 68.71  | 0.39 |
| principal | 3.01960* | 500a | 692.14 | 696.05 |        | 696.17 | 0.001989 | 1.74 | 82.19 | 107.08 | 0.37 |
| principal | 3        | 25a  | 692.00 | 694.75 |        | 694.88 | 0.001799 | 1.55 | 22.56 | 9.75   | 0.33 |
| principal | 3        | 100a | 692.00 | 695.64 |        | 695.73 | 0.001638 | 1.45 | 56.65 | 80.40  | 0.32 |
| principal | 3        | 500a | 692.00 | 696.04 |        | 696.13 | 0.001341 | 1.48 | 96.32 | 119.00 | 0.30 |
| principal | 2.97297* | 25a  | 691.97 | 694.72 |        | 694.84 | 0.001800 | 1.55 | 22.56 | 9.79   | 0.33 |
| principal | 2.97297* | 100a | 691.97 | 695.61 |        | 695.70 | 0.001695 | 1.48 | 53.50 | 78.30  | 0.33 |
| principal | 2.97297* | 500a | 691.97 | 696.01 |        | 696.10 | 0.001381 | 1.51 | 95.20 | 117.81 | 0.31 |
| principal | 2.94594* | 25a  | 691.94 | 694.68 |        | 694.81 | 0.001799 | 1.55 | 22.58 | 9.83   | 0.33 |
| principal | 2.94594* | 100a | 691.94 | 695.57 |        | 695.67 | 0.001734 | 1.52 | 54.35 | 76.10  | 0.34 |
| principal | 2.94594* | 500a | 691.94 | 695.98 |        | 696.08 | 0.001424 | 1.54 | 94.07 | 116.57 | 0.31 |
| principal | 2.91891* | 25a  | 691.90 | 694.65 |        | 694.77 | 0.001799 | 1.55 | 22.59 | 9.87   | 0.33 |
| principal | 2.91891* | 100a | 691.90 | 695.53 |        | 695.63 | 0.001817 | 1.55 | 53.16 | 73.77  | 0.35 |
| principal | 2.91891* | 500a | 691.90 | 695.95 |        | 696.05 | 0.001469 | 1.58 | 92.91 | 115.33 | 0.32 |
| principal | 2.89189* | 25a  | 691.87 | 694.61 |        | 694.74 | 0.001797 | 1.55 | 22.60 | 9.91   | 0.33 |
| principal | 2.89189* | 100a | 691.87 | 695.49 |        | 695.60 | 0.001875 | 1.58 | 52.08 | 71.49  | 0.35 |
| principal | 2.89189* | 500a | 691.87 | 695.91 |        | 696.02 | 0.001511 | 1.61 | 91.86 | 114.15 | 0.33 |
| principal | 2.86486* | 25a  | 691.84 | 694.58 |        | 694.70 | 0.001798 | 1.55 | 22.61 | 9.95   | 0.33 |
| principal | 2.86486* | 100a | 691.84 | 695.44 |        | 695.56 | 0.001938 | 1.61 | 50.94 | 69.04  | 0.36 |
| principal | 2.86486* | 500a | 691.84 | 695.88 |        | 695.99 | 0.001556 | 1.64 | 90.76 | 112.94 | 0.33 |
| principal | 2.83783* | 25a  | 691.80 | 694.54 |        | 694.66 | 0.001795 | 1.55 | 22.64 | 10.00  | 0.33 |
| principal | 2.83783* | 100a | 691.80 | 695.40 |        | 695.52 | 0.001994 | 1.64 | 49.89 | 66.56  | 0.36 |
| principal | 2.83783* | 500a | 691.80 | 695.85 |        | 695.96 | 0.001602 | 1.67 | 89.68 | 111.70 | 0.34 |
| principal | 2.81081* | 25a  | 691.77 | 694.51 |        | 694.63 | 0.001958 | 1.54 | 22.65 | 10.96  | 0.34 |
| principal | 2.81081* | 100a | 691.77 | 695.35 |        | 695.48 | 0.002051 | 1.66 | 48.89 | 64.06  | 0.37 |
| principal | 2.81081* | 500a | 691.77 | 695.81 |        | 695.93 | 0.001646 | 1.70 | 88.67 | 110.54 | 0.34 |
| principal | 2.78378* | 25a  | 691.74 | 694.47 |        | 694.59 | 0.002076 | 1.54 | 22.66 | 11.66  | 0.35 |
| principal | 2.78378* | 100a | 691.74 | 695.31 |        | 695.44 | 0.002106 | 1.69 | 47.91 | 61.43  | 0.38 |
| principal | 2.78378* | 500a | 691.74 | 695.77 |        | 695.89 | 0.001698 | 1.74 | 87.50 | 109.20 | 0.35 |
| principal | 2.75673* | 25a  | 691.71 | 694.43 |        | 694.55 | 0.002161 | 1.54 | 22.68 | 12.19  | 0.36 |
| principal | 2.75673* | 100a | 691.71 | 695.26 |        | 695.40 | 0.002146 | 1.71 | 47.13 | 58.93  | 0.38 |
| principal | 2.75673* | 500a | 691.71 | 695.73 |        | 695.86 | 0.001748 | 1.77 | 86.39 | 107.87 | 0.36 |
| principal | 2.72973* | 25a  | 691.68 | 694.38 |        | 694.50 | 0.002223 | 1.54 | 22.68 | 12.58  | 0.37 |
| principal | 2.72973* | 100a | 691.68 | 695.22 |        | 695.36 | 0.002180 | 1.72 | 46.43 | 56.50  | 0.38 |
| principal | 2.72973* | 500a | 691.68 | 695.70 |        | 695.82 | 0.001799 | 1.80 | 85.32 | 106.60 | 0.37 |

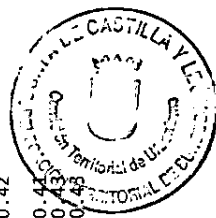
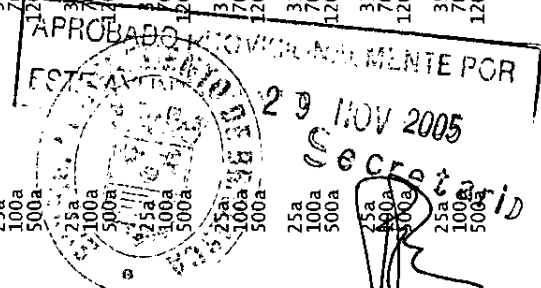


APROBADO POR EL CONCEJO MUNICIPAL EN SU REUNION DEL DIA 29 DE NOVIEMBRE DE 2008

ESTE AYUNTAMIENTO

Secretario

|           |          |      |        |        |        |        |          |      |       |        |      |
|-----------|----------|------|--------|--------|--------|--------|----------|------|-------|--------|------|
| principal | 2.70270* | 25a  | 35.00  | 691.64 | 694.34 | 694.46 | 0.002270 | 1.54 | 22.67 | 12.87  | 0.37 |
| principal | 2.70270* | 100a | 70.00  | 691.64 | 695.17 | 695.32 | 0.002202 | 1.73 | 45.88 | 54.12  | 0.39 |
| principal | 2.70270* | 500a | 120.00 | 691.64 | 695.66 | 695.79 | 0.001851 | 1.83 | 84.25 | 105.24 | 0.37 |
| principal | 2.67567* | 25a  | 35.00  | 691.61 | 694.29 | 694.42 | 0.002309 | 1.54 | 22.66 | 13.11  | 0.38 |
| principal | 2.67567* | 100a | 70.00  | 691.61 | 695.13 | 695.27 | 0.002215 | 1.74 | 45.43 | 51.76  | 0.39 |
| principal | 2.67567* | 500a | 120.00 | 691.61 | 695.61 | 695.75 | 0.001907 | 1.86 | 83.10 | 103.81 | 0.37 |
| principal | 2.64864* | 25a  | 35.00  | 691.58 | 694.25 | 694.37 | 0.002339 | 1.55 | 22.64 | 13.30  | 0.38 |
| principal | 2.64864* | 100a | 70.00  | 691.58 | 695.08 | 695.23 | 0.002221 | 1.75 | 45.12 | 50.42  | 0.39 |
| principal | 2.64864* | 500a | 120.00 | 691.58 | 695.57 | 695.71 | 0.001958 | 1.89 | 82.09 | 102.46 | 0.38 |
| principal | 2.62162* | 25a  | 35.00  | 691.55 | 694.20 | 694.32 | 0.002367 | 1.55 | 22.61 | 13.45  | 0.38 |
| principal | 2.62162* | 100a | 70.00  | 691.55 | 695.04 | 695.19 | 0.002244 | 1.76 | 44.75 | 49.97  | 0.39 |
| principal | 2.62162* | 500a | 120.00 | 691.55 | 695.53 | 695.68 | 0.002016 | 1.92 | 80.97 | 100.97 | 0.39 |
| principal | 2.59459* | 25a  | 35.00  | 691.51 | 694.16 | 694.28 | 0.002389 | 1.55 | 22.59 | 13.58  | 0.38 |
| principal | 2.59459* | 100a | 70.00  | 691.51 | 694.99 | 695.14 | 0.002261 | 1.77 | 44.45 | 49.63  | 0.39 |
| principal | 2.59459* | 500a | 120.00 | 691.51 | 695.48 | 695.64 | 0.002068 | 1.95 | 79.98 | 99.54  | 0.39 |
| principal | 2.56756* | 25a  | 35.00  | 691.48 | 694.11 | 694.23 | 0.002412 | 1.55 | 22.55 | 13.68  | 0.39 |
| principal | 2.56756* | 100a | 70.00  | 691.48 | 694.95 | 695.10 | 0.002283 | 1.78 | 44.10 | 49.29  | 0.40 |
| principal | 2.56756* | 500a | 120.00 | 691.48 | 695.43 | 695.60 | 0.002125 | 1.98 | 78.94 | 98.03  | 0.40 |
| principal | 2.54054* | 25a  | 35.00  | 691.45 | 694.06 | 694.18 | 0.002435 | 1.56 | 22.49 | 13.76  | 0.39 |
| principal | 2.54054* | 100a | 70.00  | 691.45 | 694.90 | 695.05 | 0.002307 | 1.79 | 43.74 | 48.97  | 0.40 |
| principal | 2.54054* | 500a | 120.00 | 691.45 | 695.39 | 695.55 | 0.002180 | 2.01 | 77.96 | 96.55  | 0.40 |
| principal | 2.51351* | 25a  | 35.00  | 691.42 | 694.01 | 694.14 | 0.002454 | 1.56 | 22.45 | 13.84  | 0.39 |
| principal | 2.51351* | 100a | 70.00  | 691.42 | 694.85 | 695.01 | 0.002327 | 1.80 | 43.43 | 48.73  | 0.40 |
| principal | 2.51351* | 500a | 120.00 | 691.42 | 695.34 | 695.51 | 0.002222 | 2.03 | 77.21 | 95.24  | 0.41 |
| principal | 2.48648* | 25a  | 35.00  | 691.38 | 693.96 | 694.09 | 0.002477 | 1.56 | 22.39 | 13.90  | 0.39 |
| principal | 2.48648* | 100a | 70.00  | 691.38 | 694.80 | 694.96 | 0.002353 | 1.81 | 43.05 | 48.41  | 0.41 |
| principal | 2.48648* | 500a | 120.00 | 691.38 | 695.29 | 695.47 | 0.002271 | 2.05 | 76.37 | 93.77  | 0.41 |
| principal | 2.45946* | 25a  | 35.00  | 691.35 | 693.91 | 694.04 | 0.002498 | 1.57 | 22.33 | 13.95  | 0.40 |
| principal | 2.45946* | 100a | 70.00  | 691.35 | 694.76 | 694.92 | 0.002377 | 1.82 | 42.71 | 48.18  | 0.41 |
| principal | 2.45946* | 500a | 120.00 | 691.35 | 695.24 | 695.42 | 0.002303 | 2.07 | 75.85 | 92.55  | 0.42 |
| principal | 2.43243* | 25a  | 35.00  | 691.32 | 693.86 | 693.99 | 0.002522 | 1.57 | 22.26 | 13.99  | 0.40 |
| principal | 2.43243* | 100a | 70.00  | 691.32 | 694.71 | 694.87 | 0.002409 | 1.83 | 42.30 | 47.83  | 0.41 |
| principal | 2.43243* | 500a | 120.00 | 691.32 | 695.20 | 695.38 | 0.002333 | 2.08 | 75.35 | 91.50  | 0.42 |
| principal | 2.40540* | 25a  | 35.00  | 691.29 | 693.81 | 693.94 | 0.002545 | 1.58 | 22.19 | 14.03  | 0.40 |
| principal | 2.40540* | 100a | 70.00  | 691.29 | 694.66 | 694.82 | 0.002440 | 1.84 | 41.90 | 47.48  | 0.41 |
| principal | 2.40540* | 500a | 120.00 | 691.29 | 695.15 | 695.33 | 0.002350 | 2.09 | 75.07 | 90.57  | 0.42 |
| principal | 2.37837* | 25a  | 35.00  | 691.25 | 693.76 | 693.89 | 0.002574 | 1.58 | 22.10 | 14.05  | 0.40 |
| principal | 2.37837* | 100a | 70.00  | 691.25 | 694.61 | 694.78 | 0.002479 | 1.86 | 41.42 | 47.01  | 0.42 |
| principal | 2.37837* | 500a | 120.00 | 691.25 | 695.10 | 695.29 | 0.002358 | 2.10 | 74.93 | 89.86  | 0.42 |
| principal | 2.35135* | 25a  | 35.00  | 691.22 | 693.71 | 693.84 | 0.002607 | 1.59 | 21.99 | 14.06  | 0.41 |
| principal | 2.35135* | 100a | 70.00  | 691.22 | 694.55 | 694.73 | 0.002527 | 1.87 | 40.88 | 46.40  | 0.42 |
| principal | 2.35135* | 500a | 120.00 | 691.22 | 695.06 | 695.24 | 0.002351 | 2.10 | 74.96 | 89.35  | 0.42 |
| principal | 2.32432* | 25a  | 35.00  | 691.19 | 693.66 | 693.79 | 0.002638 | 1.60 | 21.90 | 14.07  | 0.41 |
| principal | 2.32432* | 100a | 70.00  | 691.19 | 694.50 | 694.68 | 0.002573 | 1.89 | 40.36 | 45.76  | 0.43 |
| principal | 2.32432* | 500a | 120.00 | 691.19 | 695.01 | 695.20 | 0.002365 | 2.10 | 75.06 | 90.91  | 0.42 |
| principal | 2.29729* | 25a  | 35.00  | 691.16 | 693.60 | 693.74 | 0.002677 | 1.61 | 21.78 | 14.08  | 0.41 |
| principal | 2.29729* | 100a | 70.00  | 691.16 | 694.45 | 694.63 | 0.002632 | 1.91 | 39.74 | 44.85  | 0.43 |
| principal | 2.29729* | 500a | 120.00 | 691.16 | 694.96 | 695.15 | 0.002387 | 2.11 | 75.05 | 92.50  | 0.42 |



|           |          |      |        |        |        |        |          |      |       |        |      |
|-----------|----------|------|--------|--------|--------|--------|----------|------|-------|--------|------|
| principal | 2.27027* | 25a  | 35.00  | 691.12 | 693.55 | 693.68 | 0.002721 | 1.62 | 21.64 | 14.07  | 0.42 |
| principal | 2.27027* | 100a | 70.00  | 691.12 | 694.39 | 694.58 | 0.002699 | 1.92 | 39.08 | 43.80  | 0.44 |
| principal | 2.27027* | 500a | 120.00 | 691.12 | 694.91 | 695.10 | 0.002405 | 2.12 | 75.14 | 94.32  | 0.43 |
| principal | 2.24324* | 25a  | 35.00  | 691.09 | 693.50 | 693.63 | 0.002773 | 1.63 | 21.49 | 14.06  | 0.42 |
| principal | 2.24324* | 100a | 70.00  | 691.09 | 694.33 | 694.52 | 0.002780 | 1.95 | 38.32 | 42.36  | 0.44 |
| principal | 2.24324* | 500a | 120.00 | 691.09 | 694.86 | 695.06 | 0.002432 | 2.13 | 75.11 | 95.13  | 0.43 |
| principal | 2.21621* | 25a  | 35.00  | 691.06 | 693.44 | 693.58 | 0.002830 | 1.64 | 21.33 | 14.04  | 0.43 |
| principal | 2.21621* | 100a | 70.00  | 691.06 | 694.27 | 694.47 | 0.002867 | 1.97 | 37.55 | 40.70  | 0.45 |
| principal | 2.21621* | 500a | 120.00 | 691.06 | 694.82 | 695.01 | 0.002452 | 2.14 | 75.20 | 98.20  | 0.43 |
| principal | 2.18918* | 25a  | 35.00  | 691.03 | 693.38 | 693.52 | 0.002903 | 1.66 | 21.13 | 14.01  | 0.43 |
| principal | 2.18918* | 100a | 70.00  | 691.03 | 694.21 | 694.41 | 0.002984 | 2.00 | 36.62 | 38.34  | 0.46 |
| principal | 2.18918* | 500a | 120.00 | 691.03 | 694.76 | 694.96 | 0.002486 | 2.16 | 75.11 | 100.26 | 0.44 |
| principal | 2.16216* | 25a  | 35.00  | 691.00 | 693.32 | 693.46 | 0.002988 | 1.67 | 20.90 | 13.97  | 0.44 |
| principal | 2.16216* | 100a | 70.00  | 691.00 | 694.14 | 694.35 | 0.003120 | 2.03 | 35.64 | 35.35  | 0.47 |
| principal | 2.16216* | 500a | 120.00 | 691.00 | 694.71 | 694.91 | 0.002525 | 2.17 | 74.94 | 102.36 | 0.44 |
| principal | 2.13513* | 25a  | 35.00  | 690.96 | 693.26 | 693.40 | 0.003086 | 1.69 | 20.65 | 13.92  | 0.44 |
| principal | 2.13513* | 100a | 70.00  | 690.96 | 694.07 | 694.29 | 0.003225 | 2.06 | 34.67 | 31.72  | 0.48 |
| principal | 2.13513* | 500a | 120.00 | 690.96 | 694.66 | 694.86 | 0.002565 | 2.18 | 74.82 | 104.70 | 0.44 |
| principal | 2.10810* | 25a  | 35.00  | 690.93 | 693.19 | 693.34 | 0.003212 | 1.72 | 20.35 | 13.85  | 0.45 |
| principal | 2.10810* | 100a | 70.00  | 690.93 | 694.00 | 694.22 | 0.003467 | 2.10 | 33.66 | 26.94  | 0.49 |
| principal | 2.10810* | 500a | 120.00 | 690.93 | 694.61 | 694.81 | 0.002624 | 2.20 | 74.40 | 106.86 | 0.45 |
| principal | 2.08108* | 25a  | 35.00  | 690.90 | 693.12 | 693.28 | 0.003361 | 1.75 | 20.02 | 13.78  | 0.46 |
| principal | 2.08108* | 100a | 70.00  | 690.90 | 693.92 | 694.15 | 0.003693 | 2.14 | 32.78 | 21.03  | 0.51 |
| principal | 2.08108* | 500a | 120.00 | 690.90 | 694.55 | 694.76 | 0.002689 | 2.23 | 73.93 | 109.14 | 0.45 |
| principal | 2.05405* | 25a  | 35.00  | 690.86 | 693.05 | 693.21 | 0.003559 | 1.78 | 19.61 | 13.68  | 0.48 |
| principal | 2.05405* | 100a | 70.00  | 690.86 | 693.83 | 694.08 | 0.003938 | 2.19 | 31.99 | 17.83  | 0.52 |
| principal | 2.05405* | 500a | 120.00 | 690.86 | 694.49 | 694.71 | 0.002805 | 2.26 | 72.73 | 110.63 | 0.46 |
| principal | 2.02702* | 25a  | 35.00  | 690.83 | 692.97 | 693.14 | 0.003818 | 1.83 | 19.12 | 13.55  | 0.49 |
| principal | 2.02702* | 100a | 70.00  | 690.83 | 693.74 | 694.00 | 0.004224 | 2.25 | 31.10 | 17.51  | 0.54 |
| principal | 2.02702* | 500a | 120.00 | 690.83 | 694.42 | 694.65 | 0.002977 | 2.32 | 70.82 | 111.29 | 0.48 |
| principal | 1.91666* | 25a  | 35.00  | 690.80 | 692.88 | 693.06 | 0.004191 | 1.89 | 18.49 | 13.37  | 0.51 |
| principal | 1.91666* | 100a | 70.00  | 690.80 | 693.63 | 693.91 | 0.004622 | 2.33 | 30.02 | 17.15  | 0.56 |
| principal | 1.91666* | 500a | 120.00 | 690.80 | 694.31 | 694.59 | 0.003510 | 2.47 | 64.54 | 105.10 | 0.51 |
| principal | 1.83333* | 25a  | 35.00  | 690.73 | 692.80 | 692.98 | 0.004190 | 1.89 | 18.49 | 13.40  | 0.51 |
| principal | 1.83333* | 100a | 70.00  | 690.73 | 693.54 | 693.82 | 0.004695 | 2.35 | 29.79 | 17.03  | 0.57 |
| principal | 1.83333* | 500a | 120.00 | 690.73 | 694.24 | 694.52 | 0.003426 | 2.50 | 62.87 | 96.74  | 0.51 |
| principal | 1.75*    | 25a  | 35.00  | 690.67 | 692.72 | 692.90 | 0.004199 | 1.90 | 18.46 | 13.39  | 0.52 |
| principal | 1.75*    | 100a | 70.00  | 690.67 | 693.44 | 693.73 | 0.004608 | 2.38 | 29.56 | 18.34  | 0.56 |
| principal | 1.75*    | 500a | 120.00 | 690.67 | 694.17 | 694.46 | 0.003305 | 2.52 | 61.94 | 90.53  | 0.51 |
| principal | 1.66666* | 25a  | 35.00  | 690.60 | 692.64 | 692.82 | 0.004208 | 1.90 | 18.42 | 13.36  | 0.52 |
| principal | 1.66666* | 100a | 70.00  | 690.60 | 693.35 | 693.65 | 0.004479 | 2.40 | 29.46 | 18.91  | 0.56 |
| principal | 1.66666* | 500a | 120.00 | 690.60 | 694.11 | 694.40 | 0.003186 | 2.54 | 61.26 | 85.47  | 0.50 |
| principal | 1.58333* | 25a  | 35.00  | 690.53 | 692.56 | 692.74 | 0.004234 | 1.91 | 18.34 | 13.28  | 0.52 |
| principal | 1.58333* | 100a | 70.00  | 690.53 | 693.27 | 693.56 | 0.004346 | 2.43 | 29.41 | 19.05  | 0.56 |
| principal | 1.58333* | 500a | 120.00 | 690.53 | 694.04 | 694.34 | 0.003097 | 2.56 | 60.57 | 81.33  | 0.50 |
| principal | 1.58333* | 25a  | 35.00  | 690.47 | 692.47 | 692.66 | 0.004290 | 1.92 | 18.19 | 13.15  | 0.52 |
| principal | 1.58333* | 100a | 70.00  | 690.47 | 693.18 | 693.48 | 0.004211 | 2.45 | 29.35 | 18.98  | 0.55 |

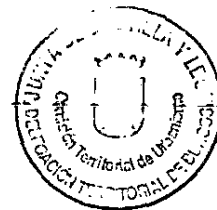
APROBADO POR EL DIRECTOR GENERAL DE ECONOMIA Y FINANZAS

29 NOV 2005

Secretario



|           |          |      |        |        |        |        |          |      |       |       |      |
|-----------|----------|------|--------|--------|--------|--------|----------|------|-------|-------|------|
| principal | 1.58333* | 500a | 120.00 | 690.47 | 693.98 | 694.28 | 0.003020 | 2.59 | 60.06 | 78.17 | 0.49 |
| principal | 1.5*     | 25a  | 35.00  | 690.40 | 692.39 | 692.58 | 0.004386 | 1.95 | 17.97 | 12.95 | 0.53 |
| principal | 1.5*     | 100a | 70.00  | 690.40 | 693.10 | 693.41 | 0.004117 | 2.48 | 29.24 | 18.76 | 0.55 |
| principal | 1.5*     | 500a | 120.00 | 690.40 | 693.91 | 694.22 | 0.002974 | 2.63 | 59.50 | 75.54 | 0.49 |
| principal | 1.41666* | 25a  | 35.00  | 690.33 | 692.30 | 692.50 | 0.004309 | 1.99 | 17.68 | 13.13 | 0.53 |
| principal | 1.41666* | 100a | 70.00  | 690.33 | 693.02 | 693.33 | 0.004046 | 2.52 | 29.04 | 18.44 | 0.55 |
| principal | 1.41666* | 500a | 120.00 | 690.33 | 693.85 | 694.16 | 0.002960 | 2.67 | 58.85 | 73.42 | 0.49 |
| principal | 1.33333* | 25a  | 35.00  | 690.27 | 692.21 | 692.42 | 0.004299 | 2.04 | 17.34 | 13.16 | 0.53 |
| principal | 1.33333* | 100a | 70.00  | 690.27 | 692.93 | 693.25 | 0.004033 | 2.57 | 28.68 | 18.03 | 0.55 |
| principal | 1.33333* | 500a | 120.00 | 690.27 | 693.77 | 694.11 | 0.003072 | 2.77 | 57.59 | 72.35 | 0.50 |
| principal | 1.25*    | 25a  | 35.00  | 690.20 | 692.11 | 692.33 | 0.004384 | 2.11 | 16.93 | 13.03 | 0.54 |
| principal | 1.25*    | 100a | 70.00  | 690.20 | 692.84 | 693.18 | 0.004113 | 2.63 | 28.07 | 17.52 | 0.56 |
| principal | 1.25*    | 500a | 120.00 | 690.20 | 693.68 | 694.04 | 0.003311 | 2.91 | 55.28 | 70.26 | 0.52 |
| principal | 1.16666* | 25a  | 35.00  | 690.13 | 692.01 | 692.25 | 0.004636 | 2.20 | 16.33 | 12.74 | 0.55 |
| principal | 1.16666* | 100a | 70.00  | 690.13 | 692.74 | 693.10 | 0.004338 | 2.73 | 27.14 | 16.90 | 0.57 |
| principal | 1.16666* | 500a | 120.00 | 690.13 | 693.54 | 693.97 | 0.003886 | 3.15 | 50.27 | 62.80 | 0.57 |
| principal | 1.08333* | 25a  | 35.00  | 690.07 | 691.88 | 692.15 | 0.005260 | 2.35 | 15.39 | 12.27 | 0.59 |
| principal | 1.08333* | 100a | 70.00  | 690.07 | 692.60 | 693.01 | 0.004856 | 2.89 | 25.70 | 16.13 | 0.60 |
| principal | 1.08333* | 500a | 120.00 | 690.07 | 693.22 | 693.86 | 0.005940 | 3.74 | 37.72 | 33.92 | 0.69 |
| principal | 1        | 25a  | 35.00  | 690.00 | 691.41 | 691.97 | 0.014439 | 3.33 | 10.73 | 10.07 | 0.94 |
| principal | 1        | 100a | 70.00  | 690.00 | 692.12 | 692.84 | 0.010798 | 3.86 | 19.13 | 13.61 | 0.87 |
| principal | 1        | 500a | 120.00 | 690.00 | 692.82 | 693.70 | 0.008887 | 4.28 | 29.92 | 17.12 | 0.83 |



*[Handwritten signature]*

