

**PUBLIC WORKS, PUBLIC SAFETY,
HOUSING AND COMMUNITY DEVELOPMENT AGENDA
March 17, 2008 @ 5:00 p.m. City Hall Council Chambers**

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Members: Al Bengtson, Jason Bowman, Dennis Nelson, John Sanders

A current copy of the Open Meetings Act is posted on the north wall in the rear of the Council Chambers and is available for review by all citizens in attendance.

The City of South Sioux City reserves the right to adjust the order of items on this agenda if necessary and may elect to take action on any of the items listed.

PUBLIC WORKS - Al Bengtson

1. **Change Order Increase – Albenesius Contracting; \$57,028.00 – Westside**
2. Waterloo Project [Hyperlink](#)
3. **Missouri River Water** [Hyperlink](#)
4. **Crystal Lake Revitalization** [Hyperlink](#) (Pictures sent to smartboard)
5. **Engineer’s Project Update**
6. **Authorization to get Bids for Panel Replacement Project**
7. **GIS Update**

PUBLIC SAFETY - John Sanders

8. **Smoking Ban – E-news article**

HOUSING AND COMMUNITY DEVELOPMENT - Jason Bowman

9. **Sign Survey**
10. **Resolution-** Adopting the National League of cities’ Platform for Strengthening Families & Improving Outcomes for Children & Youth [Hyperlink](#)
11. **Comprehensive Strategy Statement of Understanding** [Hyperlink](#)
12. **NIFA Housing Study**
13. **Park Master Plan**

OLD BUSINESS/MISCELLANEOUS

14. **Economic Development Update**

PUBLIC COMMENT PERIOD

- Every citizen speaking at the meeting shall begin his or her remarks by stating his or her name and postal address.
- All citizens’ remarks shall be directed to the Chairperson, who shall determine by whom any appropriate response shall be made.
- Individuals wishing to address the Committee are asked to limit their comments to five minutes.

MOTION TO ADJOURN

UPCOMING EVENTS

- **Public Works Meetings –Mar. 17, 2008 @ 5:00 p.m. , City Hall Council Chambers**
- **Council Meetings – Mar. 24, 2008 @ 5:00 p.m., City Hall Council Chambers.**
- **Finance Meetings –Mar., 21, 28, 2008 @ 12:00 p.m. City Hall Council Chambers**
- **CDA Meetings –Mar. 26, 2008 @ 12:00 pm, City Hall Council Chambers**
- **Mid-states Conference; Mar. 19, 2008; Marina Inn; 8:30 a.m. – 4:00 p.m.**
- **Washington Conference & Steak Dinner; Apr. 21-24, 2008**

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Albenesius CO

OLSSON ASSOCIATES, Consulting Engineers
109 West 11th Street
South Sioux City, Nebraska 68776

CHANGE ORDER NO. 3(Final)

Date of Issuance: March 17, 2008

PROJECT: Westside Water Loop
South Sioux City, Nebraska

QA Project No. 2005-1421

CONTRACTOR: Albenesius Contracting, Inc.

CONTRACT DATE: August 23, 2006

AMOUNT OF ORIGINAL CONTRACT: \$1,136,036.50

You are directed to make the changes noted below in the subject contract:

See Attached Sheet

The changes result in the following adjustment of Contract Price and Contract Time:

Contract Price Prior to This Change Order	\$1,371,946.01
Net Increase/ Decrease Resulting from this Change Order	\$57,028.00
Current Contract Price including this Change Order	\$1,428,974.01

Contract Time Prior to this Change Order/Calendar Days - Substantial Completion	January 1, 2007
Net Increase Resulting from This Change Order/Calendar Days	212 days
Current Contract Time including this Change Order/Calendar Days - Substantial Completion	August 1, 2007

The Above Change Order Approved:

City of South Sioux City
Owner

OLSSON ASSOCIATES
Consulting Engineers

By _____

By 
Rod Hanson

Date _____

Date 3-11-08

End Albenesius CO

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Missouri River

Missouri River Issues

March 13, 2008

*This is meant
to be a
for
P.W.*

- The Missouri River Association of States and Tribes (MoRAST) has asked the Northwest Division of The Army Corps of Engineers to initiate a Section 216 study of the river to evaluate the authorized purposes for the river that were spelled out in the Pick Sloan act of 1944. MoRAST is an organization that is made up of one Governor appointed representative from each state, and a representative from each of the tribes that choose to participate. Seven of the eight basin states have appointed representatives. Missouri is not a member.
- South Dakota Governor Mike Rounds sent a letter to John Paul Woodley, Assistant Secretary of the Army, asking for a Section 216 study and specifically called for the Corps to eliminate navigation as an authorized purpose.
- Seasonal navigation flows provide many benefits for the lower basin states such as: an ample supply of clean water for most of the municipalities along the Missouri River, water for power plant cooling intakes, more water flowing through the turbines for hydropower generation at each of the five main stem dams, water for boating and downstream recreation. Navigation flows allow the marinas and public boat docks enough water to access the channel.
- Lower basin states need to evaluate their association with MoRAST. Is MoRAST really in tune with the needs of the lower basin states?
- The Corps of Engineers spent 14 years studying and re-writing the Master Manual for operations on the Missouri River. The Corps released the final version of the manual in 2003. The new manual has incorporated many new operational plans to enhance the recovery of endangered species. The US Fish and Wildlife Service are in agreement with the plan.
- The Eight Circuit Court has ruled that Flood Control and navigation are the two key authorized purposes of the Missouri River. The U.S. Supreme Court refused to hear an appeal of this decision.
- Although tonnage moved on the river is currently down, the opportunity to use the river does exist. Water compelled rail freight rates within the corridor are real as they save the farmer considerable transportation dollars.
- The potential to move new bio-fuel type products by barge is great and will be essential for the transportation infrastructure in the Midwest.

End Missouri River

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Crystal Lake Revitalization

CRYSTAL LAKE REVITALIZATION PROJECT

Crystal Lake Restoration Synopsis

The United States Corps of Engineers has been developing a revitalization project for Crystal Lake with a very preliminary estimate of 7.5 million dollars to be funded through land donations, some state assistance and primarily the Corp of Engineers through their Section 504 program designed to restore old oxbow lakes.

Crystal Lake was once a vibrant active spring-fed lake that was nationally recognized for the clarity of its water; hence the name Crystal Lake. When the flood of 1952 hit Dakota County, the lake was silted in and has remained in that condition, except for a few isolated locations, since that time.

Several efforts to restore the lake up until now have not been implemented. Several state and federal agencies are working with the city to see this project to fruition. Besides the local members, the following are members of this committee:

Gerry Bowen	Papio-Missouri River Natural Resource District
Mike Linder	Nebraska Dept. of Environmental Quality
Jay Ringenberg	Nebraska Dept. of Environmental Quality
Clayton Stallings	Nebraska Game & Parks
Rick Eades	Nebraska Game & Parks
Bill Huser	South Sioux City Parks & Rec Board
Vincent Kramper	Crystal Cove Committee Nebraska Environmental Trust - Speaker
Dick Leitschuck	Crystal Cove Committee
Bill Engel	Dakota County Commissioners
Kelly Fravel Skip Meisner Evelyn Fleming	Papio-Missouri River Natural Resource District

Renewable Energy Demand

The need for renewable energy has never been greater. Wind energy, photo voltaic cells, and hydro power are examples of ideas and actions that are moving to the forefront. While most of Nebraska has a water shortage, Dakota County does not. Even in the light snow melt years, water consistently flows down the Missouri by passing the Crystal Lake oxbow area as noted on the attached map.

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Canada Experience

Canada has several hydro plants that operate in the summer months. In their case, they look for bends in rivers and place a hydro dam to take advantage of the drop and turn in the river. Dakota County happens to be the only real turn in the Missouri River in Nebraska. In the Canadian locations, they have high drops (head) but low flows. In our case we have a low head (3 meters) but potentially high flow. This would be even more so in the summer when the demand for energy is higher.

To determine the amount of energy produced from a hydro dam – the following formula is used:

$$P = eHQg$$

P is the electric power output in kilowatts

E is the energy efficiency range (typically 81%)

H is the head measured in meters

Q is the design flow in cubic meters

G is the acceleration for gravity – normally 9.81 meters cubed per second.

In addition, hydro plants are extremely low cost to operate:

- Cordova Dam produces 800 KW of power with an operational cost annually of \$35,000 per year. It has a pay back of 5 years.
- Almonte Ontario produces 350 KW of power and has an operational cost of \$4,600 per year.

As an example, for every 1000 cubic feet per second of water that would be taken from the Missouri River and returned to the Missouri River north of Dakota city – the output would be:

$P = .81 \text{ times } 3 \text{ meters times } 28.32 \text{ meters cubed/second times } 9.81 \text{ meters per second.}$

This would be 675 KW – **per 1,000 cubic feet** per second of Missouri River water.

Obviously, the more that could be routed this way, the more production of power would be realized.

1000 cubic feet	675 KW
2000 cubic feet	1350 KW
5,000 cubic feet	3375 KW

There is the potential of additional water from the cooling towers of the adjacent industries to this area.

South Sioux City's Grid

The location is ideal for introduction of the energy produced by the low head hydro dam as it is immediately adjacent to one electric substation and very near a second one.

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Compared to Wind

As a comparison a typical wind turbine produces – 750 KW. Their rated capacity would be significantly less. We have asked the Corps of Engineers to let us know what amount we could potentially get from the Missouri river on a monthly basis.

Further hydro plants have much higher energy ratings than wind. A typical wind turbine is normally classified as about 30% of its energy production capacity. A hydro from the Missouri River would have a much higher rating.

Other Probable Benefits

The areas that will have natural flows should enable increases in wetlands, wildlife habitat and aesthetics. This could include the part of the downstream side.

Request for Assistance

At this point, we would like to seek assistance from the Nebraska Energy office to assist us in review of this concept and if a positive cost benefit analysis is shown, we would seek federal and state assistance to implement the program.

Attachments:

- Crystal Lake & Old Oxbow Delineation Map
- Corps of Engineers preliminary plan

End Crystal Lake Revitalization

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NLC Platform for Strengthening Families

RESOLUTION 2008-

WHEREAS, strong families form the backbone of strong communities; and

WHEREAS, the City of South Sioux City considers the health and well-being of its children and youth to be a top priority; and

WHEREAS, the City of South Sioux city recognizes that public safety, economic development, fiscal stability, a strong workforce, and an educated citizenry all depend on the investments and efforts made to help families and children succeed; and

WHEREAS, municipal leaders can play a decisive role by taking action on behalf of children, youth, and families; and

WHEREAS, the National League of Cities has developed a City Platform for Strengthening Families and Improving Outcomes for Children and Youth, which outlines the essential tasks necessary for sustained progress, including identifying needs and priorities, promoting effective city-school collaboration, encouraging and supporting youth voice and leadership, and measuring progress over time; and

WHEREAS, the National League of Cities' Institute for Youth, Education, and Families will support municipalities' adoption and implementation of the City Platform by providing information, examples from other cities and towns, access to national experts, and monitoring of progress on the Platform's action steps; and

WHEREAS, the City of South Sioux City is committed to implementing concrete action steps listed in the Platform, including actively participate in Cardinal Connections with the South Sioux City Public Schools, support Watchful Eye program for our youth, endorse Siouxland CARES action plan; and

WHEREAS, the City of South Sioux City joins cities and towns across America in this nationwide initiative to promote family- and youth-friendly communities.

NOW, THEREFORE BE IT RESOLVED by The Mayor and Councilmembers of the City of South Sioux City, that the City of South Sioux City adopts the National League of Cities' Platform for Strengthening Families and Improving Outcomes for Children and Youth, and will seek to establish the essential infrastructure for a sustained community effort to achieve the Platform's objectives.

Passed and approved this _____ day of March, 2008.

End NLC Platform for Strengthening Families

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Strategy Statement

STATEMENT OF UNDERSTANDING

between

(Organization)
and
Comprehensive Strategy for Positive Youth Development
Community Planning Team

As a means of documenting a partnership between the Comprehensive Strategy for Positive Youth Development Community Planning Team, which agrees to provide information, and _____ which agrees to utilize the information in its planning and implementation for positive youth development, we agree to do the following.

The Comprehensive Strategy Community Planning Team will:

- Collect, interpret, and share data on risk and protective factors related to positive youth development on an annual basis.
- Educate the community about research-based programs and services.
- Establish and evaluate measurable community outcomes, using risk and protective factors.
- Assess and analyze community gaps in service.
- Recommend strategies to address identified gaps.
- Encourage and include the active participation of those partnering with us in this agreement in all of our planning and activities.

_____ will:

- Review on at least a yearly basis the Comprehensive Strategy Plan for Positive Youth Development, including all the data provided, at the administrative and board levels of our organization.
- As applicable to our mission, integrate Comprehensive Strategy risk and protective factor goals in our organization's strategic planning.
- Provide a representative to take an active role in activities of the Comprehensive Strategy Community Planning Team.
- Provide a representative at quarterly Comprehensive Strategy Community Planning Team meetings to serve as a liaison between our two organizations.
- Allow our name to be published as a Comprehensive Strategy Community Planning Team partner.
- Share data and success stories when possible.

This is an informal agreement without any binding legal responsibilities for either party.

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Executive Director and/or Board President: _____ Date _____

Please print name: _____

Comprehensive Strategy Council Chair: _____ Date _____

End Strategy Statement