BOARD OF COUNTY COMMISSIONERS
SARPY COUNTY, NEBRASKA
RESOLUTION WAIVING REQUIREMENTS OF THE COUNTY PURCHASING ACT FOR THE REPAIR OF THE SARPY COUNTY INDUSTRIAL SEWER

WHEREAS, pursuant to Neb. Rev. Stat. §23-104(6) (Reissue 2007), the County has the power to do all acts in relation to the concerns of the county necessary to the exercise of its corporate powers; and,

WHEREAS, pursuant to Neb. Rev. Stat. §23-103 (Reissue 2007), the powers of the County as a body are exercised by the County Board; and,

WHEREAS, Sarpy County owns and operates the Sarpy County Industrial Sewer (SCIS); and,

WHEREAS, damage due to flooding occurred to the SCIS causing a break in the siphon where the SCIS crossed the Papillion Creek; and,

WHEREAS, immediate repairs were needed to the SCIS to prevent raw sewage from flowing into the Papillion Creek; and,

WHEREAS, Section 23-3109, RRS (2007) provides that the County Board may, by majority vote of its members, waive the bidding requirements of the County Purchasing Act if such waiver is necessary to meet an emergency which threatens serious loss of life, health or property in the County.

NOW, THEREFORE, BE IT RESOLVED BY THE SARPY COUNTY BOARD OF COMMISSIONERS THAT the bidding requirements of the County Purchasing Act are hereby waived for the emergency repair of the Sarpy County Industrial Sewer.

DATED this 17th day of August, 2010.

Moved by Rusty Hike, seconded by Tom Richards, that the above Resolution be adopted. Carried.

YEAS:	NAYS:	ABSENT:
	none	none
		ABSTAIN:
		none

ATTEST:

SEAL

DEBRA J. HOUGHTALING, COUNTY CLERK SEAL SARPY COUNTY, NEBRASKA

Debra Houghtaling
County Clerk

Approved as to form:

Nicole O'Kafi
County Attorney

Sarpy County Board of Commissioners

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ADMINISTRATOR Mark Wayne
DEPUTY ADMINISTRATOR Scott Bovick
FISCAL ADMIN./PURCHASING AGT. Brian Hanson

COMMISSIONERS
Rusty Hike District 1
Joni Albrecht District 2
Tom Richards District 3
Pat Thomas District 4
Rich Jansen District 5

MEMO

To: Sarpy County Board

From: Brian Hanson

Re: Repair of Sarpy County Industrial Sewer

On July 26, 2010 we received notification that there was a break in our industrial sewer line and that contents of this line were flowing into the Papillion Creek. Art Beccard from TD^2 was immediately contacted and was requested to coordinate the repair of the line. (See attached activity summary). The bills for the repair of the line have not yet been received but it is expected the total cost will be over $50,000, which will be paid from the Sewer Operations fund. Because of the emergency nature of the required work, there was not time to solicit bids.

The attached Resolution authorizes the bidding requirements for the sewer line repair to be waived as allowed by the County Purchasing Act. I recommend approval. Please contact me if you have any questions.

August 13, 2010

Brian Hanson
Brian E. Hanson

BEH/dp

cc: Mark Wayne
Scott Bovick
Deb Houghtaling
Mike Smith

Description of Emergency Repair Activities
Sarpy County Industrial Sewer Siphon Structure No. 1 that was washed out by a recent storm.

Monday, July 26th

I was contacted by Mark Wayne of Sarpy County via voice mail while I was on a conference call after lunch and responded about 1:33 p.m. Mark advised me that there was a major cave in of the creek bank at the Sarpy County outfall sewer siphon structure and that sewage was being discharged directly into West Papillion Creek. He asked that TD2 take the lead to resolve the problem. He also stated that the property owner was Loveland Lawns. He stated that the County had been notified only within the last hour or so and had investigated the site when John Kottman of LaVista was present on the site.

1:39 p.m. I called for John Sutherland of Cedar Construction (895-3535) and made arrangements to meet him on-site in about 30 minutes. We talked about the need to get a crew on-site immediately to try to divert flow to the secondary siphon barrel or start pumping from the siphon.

1:43 p.m. I contacted Steve Goans of NDEQ to report the sewage discharge and was advised to notify Brett Anderson of the NDEQ Omaha office (595-1768) along with Omaha and the downstream communities. I then immediately left a voice mail with Brett Anderson as he was out of the office when I called.

1:50 p.m. I contacted Loveland Lawns and was advised to work with Jeff Cleary 510-6054. I immediately called for Jeff and left him a voice mail about working together for proper access.

I then printed out as-built plans for the siphon structure and traveled to the site and met Cedar Construction. There was too much tree and washed in debris over the washed out pipe to see the extent of the damage. The siphon structure was examined and determined that only the 18" ductile iron pipe (DIP) primary barrel was active. We made arrangements for Cedar Construction to bring to the site equipment and supplies to divert the flow to the 18" DIP secondary barrel in hopes that the secondary barrel had no damage.

I then contacted Gerry Bowen of the P-MRNRD, John Kottmann of LaVista, Marty Leming of Papillion, Dick McClemmons of Bellevue, and Craig Christians of Omaha and notified them about the discharge of raw sewage and our efforts to divert it.

Mike Rains of Loveland Lawns arrived and directed us to use a specific access route that did not have a significant amount of sod. He stated that a Loveland Lawns employee noticed the caved off creek bank and discharge to the creek about 7:00 p.m. on Friday evening, July 22nd and notified him about the situation. They could not get in contact with anyone from LaVista or Sarpy County until Monday a.m. due to the weekend. They

contacted Sarpy County Highway Department on Monday morning during normal business hours.

A track backhoe, 2" boards, generator, ventilators, confined entry equipment, plastic sheeting, sand bags and other miscellaneous materials were delivered and used to divert the flow to the secondary barrel. The sewage flow to the creek was reduced by over 99% as there was only a minor amount of seepage passing through the diversion boards as of 5:00 p.m. We noticed that there was some possible discharge to the creek from the washed out siphon pipe coming from the Omaha Interceptor sewer though the washed out siphon pipe. We then traveled to the siphon outlet structure and installed stop boards, plastic sheeting and sand bags to minimize possible backflow from the Omaha Interceptor sewer into the creek. This was completed about 6:00 p.m. Monday evening and arrangements were made to come back at 7:00 a.m. in the morning to clear away the tree and washed in debris so that we could determine the appropriate repair measures to be taken. Cliff from Cedar Construction stayed an hour or so to start excavating a ramp for access to the washed out area. He contacted me about 7:00 p.m. that evening and advised me that the creek bank was still unstable and he was pulling off until the next day.

Tuesday, July 27th

I arrived at the site about 9:00 a.m. and Cedar Construction had excavated a ramp in the creek bank to the washed out area and removed the tree debris and other washed in debris. The primary siphon barrel had come apart at a joint and the secondary siphon barrel had a severe kink at a joint that appeared to be ready to fail. The subgrade for both barrels had washed out over a distance of 10 to 20 feet and the new edge of the creek bank was abut 3 feet easterly of the secondary siphon barrel. We also noticed significant groundwater seepage from the siphon pipe bedding that was now exposed due to the washed away backfill. We decided to stabilize the secondary siphon barrel using steel piles and supporting the kinked joint to the piles with chains. The groundwater seepage was controlled using temporary pumps. A decision was made to replace about 40 feet of each siphon barrel with new DIP that have river crossing joints, which are flexible, yet retained to minimize the chance of pulling apart. This pipe was available locally in Council Bluffs and an order was placed for delivery as soon as possible. Remaining activity that day was to prepare the site for pipe installation. 30 ton of 3" rock was delivered and used to provide a stable platform under the siphon pipes, 40 ton of pipe bedding rock was delivered to be used for pipe bedding and several truckloads of clean soil was delivered to provide backfill over the pipes. The new pipe was delivered too late in the afternoon to start the installation. The original track backhoe brought to the site was replaced with a Komatsu PC300LC track backhoe, a larger machine that was more suitable for the site conditions. A John Deere 644H rubber tire front end load was also mobilized to the site.

Wednesday, July 28th

Cedar Construction removed the damaged sections of the 18" DIP for the primary siphon barrel and installed the new 18" DIP river crossing pipe. Temporary steel sheets were used near the creek bed to provide a safe work area as the existing primary siphon pipe bell joint near the creek bed had to be sawed off at the proper location. The new pipe installation for the primary barrel was completed about 1:30 p.m. and the flow diverted back t the primary barrel at that time. The rest of the day was spent doing site prep work to replace the damaged sections of the secondary siphon pipe.

Thursday, July 29th

Cedar Construction removed the damaged sections of the 18" DIP for the secondary siphon barrel and installed the ne 18" DIP river crossing pipe. I met with Kurt Rohn, TD2 Geotechnical Engineer and Cedar Construction to go over site restoration options at 9:00 a.m. The new pipe installation was completed early in the afternoon and site preparation started for the restoration.

Friday, July 30th

Site preparation for restoration activities continued. The site restoration is to include placement of Type B rip-rap at the channel's edge to protect the shallow (less than 2 feet deep) siphon pipes at that location, placement of compacted soil backfill over the siphon pipes to a depth of 3 to 5 feet, installation of three 4" perforated PVC subsurface drains within the slope area to remove excess moisture from the siphon trench bedding and high flows within the creek that could saturate and make the slopes unstable, reshaping the area with additional soil material in a manner to provide proper high creek flows and re-establish the top of bank edge to near the location it was prior to the excavation of the access ramp. The disturbed areas are to be reseeded and mulched with straw matting to provide for a quick grass surface that is resistant to erosion.

Saturday, July 31st and Sunday, August 1st

No work completed on-site.

Monday, August 2nd

90 tons of Type B rip-rap was placed over filter fabric at the water's edge and up the bank, three subsurface drains installed with the first 40 feet long about 4 feet easterly of the secondary siphon pipe barrel, the second drain 60 feet long about 7 feet westerly of the primary siphon barrel, the third about 20 feet westerly of the primary siphon barrel. 30 tons of 47B sand was used along with filter socks around the 4" perforated PVC drain pipes. Additional soil backfill installed over siphon pipes. 14 loads of soil for backfill

were imported to the site. We also started checking other erosion prone areas of the Sarpy County Outfall sewers for storm related damage.

Tuesday, August 3rd

Site cleanup and restoration activities continued that included seeding and matting of the disturbed area. Equipment was being de-mobilized from the site. We finished checking other erosion prone areas of the Sarpy County Outfall sewers and determined that there was no other storm related damage that needed immediate repairs.