

Public Works Committee Meeting
Tuesday, March 5, 2024 5:00 PM
Crete City Hall
243 E 13th Street
Crete, NE 68333

1. Open Meeting

- In accordance with Nebraska law, a copy of the Open Meetings Act can be found in the back of the Council Chambers.
- Items listed on the agenda may be considered in any order.

2. Roll Call

- Attendance of members will be recorded to determine the presence of a quorum for official actions.

3. Items of Business

- The Committee may discuss or limit discussion on, hear testimony in favor of or in opposition to, or take action to provide a recommendation to the City Council on any matter presented under this title.

3.A. Consider a recommendation to the City Council on selling the City farm.

3.B. Consider a recommendation to the City Council for a new phone system.

3.C. Consider a recommendation to the City Council on the Airport Advisory Board Project list.

3.D. Consider a recommendation to the City Council on the Ricoh IM C2510 with eGoldfax & (RSI Software) Proposal

3.E. Consider a recommendation to the City Council on the sewer back-up claim on 15th St.

3.F. Consider a recommendation to the City Council amending the Crete Infrastructure Material Specifications and Testing Requirements

3.G. Review action taken on a sewer back-up claim on Longwood Ave.

3.H. Discussion of lease approach of city property.

3.I. Consider a recommendation to the City Council on the Medical Utility Hold form.

4. Officers' Reports

- Reports may be given by the Mayor, Officers, Departments, or Councilmembers concerning the current operations of the City.
- No action can be taken on matters presented under this title except to answer any questions or to refer the matter for further action.

5. Adjournment

Disclaimers & Notices

- The Council may enter into closed session to discuss any matter on this agenda when it is determined that a closed session is clearly necessary for the protection of the public interest or the prevention of needless injury to the reputation of an individual (if such individual has not requested a public meeting) or as otherwise allowed by law. Any closed session shall be limited to the subject matter for which the closed session was called. If the motion to close passes, then immediately prior to the closed session the Mayor shall restate on the record the limitation of the subject matter of the closed session.

- The City of Crete assures that no person shall on the grounds of race, color, national origin, age, disability, handicap or sex, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity of the City receiving Federal financial assistance. To report discrimination, contact the City Clerk's office.
- The complete agenda with attachments is available at www.crete.ne.gov.

2023 PROJECTS Revised 2/2/24

Air Methods hangar, east wall rusting thru - Astro buildings provided estimate

Replace fascia on Methods hangar, -Astro building provided estimate

Hangar Door on Methods hangar (Methods / cost share ?) **Evaluated 12/23 @\$70K**

Establish next AIP outline, Taxi way, hangar -Jerry started selection 7/23 Interviews 12/23

Beacon gear box appears worn

Establish JOINT and CRACK seal program Create annual budget to comply ?

Finish dirt piles, Burn Brush piles, haul Rail road ties to dump (When City Street dept avail)

Stock some cases of Aircraft oil , for sale to fuel customers (Sapp Brothers)

Vending Machine

Airport sign lighting- On road side

SRE/ Carbon monoxide fan bearings

Upgrade lobby area, " Welcome to CRETE signage" +Update furniture

Abandoned NDB shack in pasture

Hangar B thresholds have settled, tenants have installed ramps

Roll grass runway, March or April

Repair crack in sidewalk, northeast side of FBO

Conference room carpet faded/ Ceiling tile water damage

Oil change and service on John Deere mower for 2024 (2023= 100 hours)

FUTURE ITEMS

Skid steer, with attachments (Lease ?)

Upgrade courtesy vehicle

Reseal asphalt area of parking lot

AIRPORT MINIMUM STANDARDS, was submitted 1/22

LONG TERM

T hangar approaches, pave grass areas (Est \$100K)

Entry road culvert repair

Provide natural gas service

Install AWOS (Est \$600K)

COMPETED

New windsock 12,000

Old fuel tanks removed

MX hangar heat/ Lobby HVAC 10,000

SRE door stiffeners torn loose

WiFi/Cameras

TV6070 tractor serviced 5/23 @389 hours 500

TV6070 tractor serviced for 2024 (Completed 12/23) (2023=68 hours)

JD rider mower serviced 4/23 @1415 hours 100

Removal of tires in SRE bldg.

Removal of Waste oil

Runway / Taxiway lights repaired

Clean up Concrete rubble 6500

2 new walk thru doors on Maint hangar 3000

Relocate T hangar keys

Roof panels loose on A

Mens toilet needs base resealed-

TV in lobby (Weather channel)- 200

Post WiFi password, for public use

Remove pickets from fuel tank fence

Remove security light at old fuel tank/ Norris

Remove SKYDIVER symbols from aeronautical charts, and highway signs / **C Corr will contact NDOT**

Utility Vehicle for airport use IE: Mule 10,500

Install new refrigerated water fountain 1,000

Install shop airline in SRE 200



Ricoh IM C2510 with eGoldfax & (RSI Software) Proposal

PREPARED FOR:

Emerson Aschoff
Crete Public Library

PREPARED BY:

Lucas Luxford
Eakes Office Solutions

PROPOSAL DATE:

December 6, 2023

The contents of this proposal are confidential trade secret information and intended for the use of Crete Public Library only. The contents herein may not be reproduced without the specific written permission of Eakes Office Solutions. This is a proposal only and informative in nature. Actual contract terms and conditions, as well as final pricing, may change, and will be submitted upon your request.

Pricing in this proposal expires 30 days after December 6, 2023.

ABOUT EAKES OFFICE SOLUTIONS

Eakes Office Solutions has been an industry leader in the commercial office products and services business for over 75 years and is one of the largest independent dealers in the United States. The company specializes in copiers, printers, office supplies, janitorial products, office furniture and design, and represents brand names such as Sharp, Ricoh, HP, Steelcase, Hon, and many other major lines. Today, Eakes employs over 275 people in the 14 locations – Beatrice, Columbus, Fremont, Grand Island, Hastings, Kearney, Lincoln, McCook, Norfolk, North Platte, Omaha, Scottsbluff, Sioux City and York.

MANAGED PRINT SOLUTIONS

It's not just copying anymore. It's how you move documents around in your organization. Let's talk bundling cost, improving profits, gaining efficiency, and technology. We have multi-function devices that streamline workflow and maximize productivity. Your MFPs become the technology hub for your organization.

From software to hardware... Eakes will create the Managed Print Solution for you.



CUSTOMER C.A.R.E.

Consult

Let's talk. Once we know how you are managing your printing now, that starts the wheels turning for us. Through discussion we uncover what is most important to you now and in the future, that maybe you didn't know could be addressed.

Analyze

From your information, we pull together a team with expertise in printing devices and software. With your organization's objectives, we analyze the data, crunch numbers and formulate a print management solution.

Recommend

Let's talk again. We review your custom print management solution with you and fine tune it.

Execute

Now the rubber meets the road. Eakes team of specialists, technology consultants and service engineers will take the care needed to successfully implement your print management solution within your organization.



INDUSTRY LEADER



Hyakuman Kai Award

Eakes is one of 23 Sharp “Hyakuman Kai Elite Dealers” which represent the largest dealers in the nation. Eakes has been recognized by Sharp Electronics for outstanding sales achievement in Managed Print Solutions with this award for multiple years.



Elite Dealer Award

Eakes has been named one of the country’s Elite Dealers by enx Magazine, receiving the award in 8 times over the last 11 years. The award is presented annually by the magazine to the top equipment, office products and furniture dealers in the United States.



Ricoh Dealer Services Circle of Excellence

Ricoh Dealer Services Circle of Excellence program was designed to recognize only the top group of dealerships who provide outstanding support in accordance with Ricoh’s guidelines.

MANUFACTURER PARTNERS

Sharp has always been an innovator in electronics & technology. From the Ever-Sharp pencil in 1915 to a leader in developing Liquid Crystal Displays and innovative document technologies, Sharp’s passion for creativity enables them to set the pace in the ever-changing office environment. Award winning Sharp MFPs are designed to make device set-up easier and faster as well as to operate, control, monitor, manage and maintain. Precision engineering helps increase workflow efficiency and provide exceptional image quality, Sharp MFPs take you to the next level of productivity and performance.



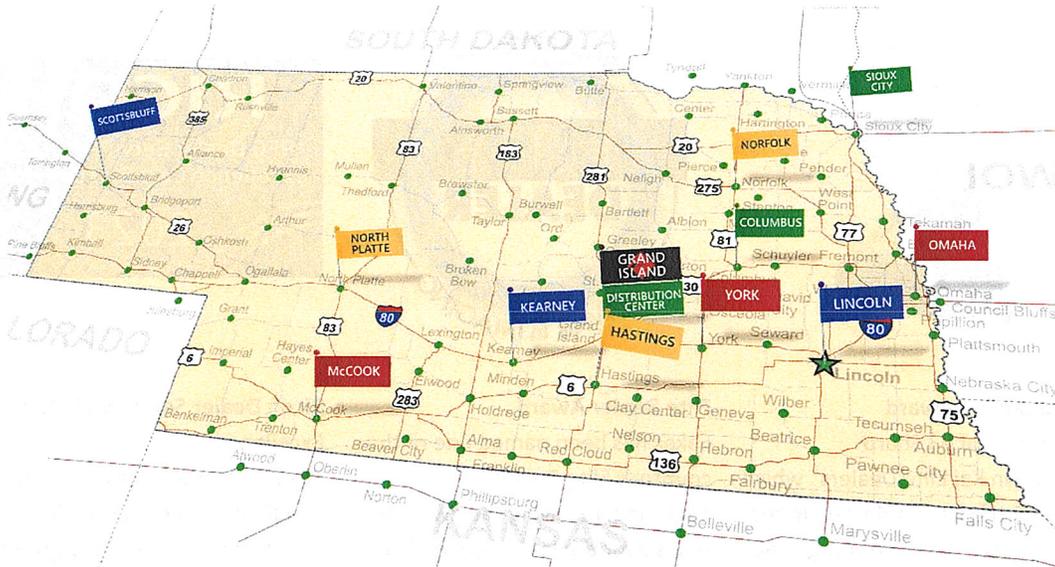
Ricoh is a leader in global technology for more than 80 years. With expertise in capturing, managing and transforming information, Ricoh delivers a broad portfolio of products from desktop to production that help you innovate and grow. From redefining a workplace to providing solutions that help you be more productive and efficient, we make information work for you.



HP is a leader in technology, hands down. HP has recognized Eakes for superior customer service by designating Eakes as a Gold Managed Print Advanced Specialist Partner. Eakes, the only HP independent dealer with this HP recognition in Nebraska, shows that we have met high standards of expertise in the broad range of HP Managed Print solutions.



ACCESSIBLE LOCATIONS



With locations across Nebraska that provide service to Nebraska, Iowa, Kansas, Colorado, Wyoming and South Dakota, Eakes continues the tradition of personal customer service that our customers value the most.

- **Grand Island (Corporate Office)**
617 W 3rd St
Grand Island, NE 68801
308.382.8026 | 800.652.9396
- **Columbus**
2911 13th St
Columbus, NE 68601
402.564.2679 | 800.445.4431
- **Hastings**
839 W 2nd St
Hastings, NE 68901
402.463.2537 | 888.329.1344
- **Kearney**
2401 Avenue A
Kearney, NE 68847
308.234.2538 | 800.652.9399
- **Lincoln**
110 N 35th St
Lincoln, NE 68503
402.438.6700
- **McCook**
120 Norris Ave
McCook, NE 69001
308.345.5447 | 888.772.7114
- **Norfolk**
201 S 1st St
Norfolk, NE 68701
402.371.4181 | 800.925.4552
- **North Platte**
520 N Vine
North Platte, NE 69101
308.534.7800 | 800.356.8844
- **Omaha**
11108 Q St
Omaha, NE 68137
402.898.3017 | 800.652.9396
- **Scottsbluff**
14 E 14 St
Scottsbluff, NE 69361
308.631.5544
- **Sioux City**
510 W 13th St
South Sioux City, NE 68776
402.412.2334
- **York**
710 N Lincoln Ave
York, NE 68467
402.362.5442



PROPOSED SOLUTION

EQUIPMENT

Qty	Model	Description
1	IMC2510	25 PPM Digital Color MFP-Copy, Print & Scan
1	IMC2510	Cabinet Type A5 (2 Drawer with Cabinet)
1	IMC2510	Toner Bottle Lock Type M52
1	RSI ESS 5 Year	RSI Essentials 5 Years (Cloud Printing)
1	Install/Professional Services RSI ESS	Install/Professional Services RSI Essentials (Cloud Printing)
1	eGoldfax	Cloud-based fax server, setup/install, new fax #, and professional services

Please see attached brochure or specification sheet for more details.

RECOMMENDED PAYMENT OPTION: SMART PRINT AGREEMENT (eGoldFax and Ricoh RSI Essentials)

SPA Payment	Months
\$153.41	60

Smart Print Agreement includes:

- All parts, labor, toner, remote & onsite support, training, and service calls
- 5 years/60 months of RSI Essentials (Cloud Printing)
- 5 years/60 months of a 250-page eGoldfax plan (Cloud Faxing).
- **Note: Fax pages will be monitored closely, and changes can be made via. Addendum if necessary**
- 1,035 mono pages per month with additional mono pages billed quarterly at \$0.00700 per page
- 218 color pages per month with additional color pages billed quarterly at \$0.04000 per page
- 4-hour response time

SPA excludes:

- Paper and staples

RECOMMENDED PAYMENT OPTION: SMART PRINT AGREEMENT (eGoldFax only)

SPA Payment	Months
\$148.22	60

Smart Print Agreement includes:

- All parts, labor, toner, remote & onsite support, training, and service calls
- 5 years/60 months of a 250-page eGoldfax plan (Cloud Faxing).
- **Note: Fax pages will be monitored closely, and changes can be made via. Addendum if necessary**
- 1,035 mono pages per month with additional mono pages billed quarterly at \$0.00700 per page
- 218 color pages per month with additional color pages billed quarterly at \$0.045000 per page
- 4-hour response time

SPA excludes:

- Paper and staples

EGOLDFAX SOLUTION

Choose your plan:



- 250 Monthly Page Plan = \$38.49 / Overages = \$0.11 per page
- 500 Monthly Page Plan = \$63.82 / Overages = \$0.11 per page
- 750 Monthly Page Plan = \$90.74 / Overages = \$0.10 per page
- 1,000 Monthly Page Plan = \$114.48 / Overages = \$0.10 per page
- 2,000 Monthly Page Plan = \$176.47 / Overages = \$0.09 per page
- 3,000 Monthly Page Plan = \$285.46 / Overages = \$0.08 per page
- 4,000 Monthly Page Plan = \$355.10 / Overages = \$0.07 per page
- 5,000 Monthly Page Plan = \$412.10 / Overages = \$0.07 per page

****Additional fax lines are only \$1.50 per month for each fax line****

One Time Fax Number Port Fee = \$30.00 per fax number

With eGoldFax, you can eliminate your fax analog line(s) thus saving approximately \$30-\$40 per month per line with your phone carrier. Please verify with your carrier to determine cost savings.

****With eGoldfax, a fax accessory is not required, thus saving = \$7.70 per month ****

No bottlenecks, incoming and outbound faxes. Never miss a fax. All Sharp/Ricoh copiers can be leveraged to send faxes, you are not limited to just one designated copier.

In addition to sending faxes from any Sharp, faxes can be sent from any workstation, tablet, smartphone, etc. Inbound faxes can be routed to specific email address or network folder for easy distribution. You also can track sent/received for regulatory purposes for up to 10 years.

EXECUTIVE SUMMARY

98% Up-Time

Our commitment to quality and service results in an average up-time of 98% for the equipment we provide. We guarantee a quarterly average up-time of 98%, and we will exchange any machine that fails to achieve this.

Manufacturer's Specifications

We provide precise records that track a complete customer history of equipment performance, print usage and maintenance requirements to ensure peak operation of your system. Should the unit be un-repairable onsite, we will provide a temporary replacement at no charge until repairs are completed.

4-Hour Response Time

Our dealership provides rapid call back with 4-hour or less service response time.

Manufacturer-Trained Personnel

All improvements made available by the manufacturer will be installed at no additional charge. Equipment operators will be provided with free, unlimited training for the lifetime of the digital system while maintained under one of our Agreements.

EAKES SERVICE

Expertise

Industry experience, we've got it! With 43 Service Engineers conveniently located throughout our market averaging 16 years in the industry – that's over 665 years of technical expertise.

Advanced Service Dispatch

Within minutes of your call or email to us, a Service Engineer is notified.

Remote Service

With today's technology, some service calls can be completed quickly by our Service Engineers accessing devices remotely. That's fast service.

e-info

With Eakes' online service portal, e-info, you can easily order toner, request service or submit meter readings all from one simple interface.

Continuing Education

Our Service Engineers are continuously training with the manufacturers, Eakes Technical Trainer and our pooled resources internally.

Team Leadership

The Service team is led by a trio with almost 85 years technical experience at Eakes. They provide support directly to the technical team in the field.



TECHNOLOGY SERVICES CONSULTANTS

Your equipment has been delivered and installed. Now what? How do you get the most out of your investment?

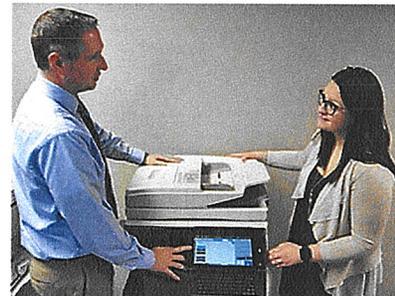
Training. Training. Training.

Our Technology Services Consultants provide integrated training and support. It is user-specific training and consulting from basic printing needs to the most sophisticated, networked systems and software solutions.

The key contact in your organization will work with Eakes Technology Services Consultants to create a technology training plan for users. Training will be conducted in front of the machines with user interaction to assure competence.

Our trainers specialize in...

- Installation
- Integration
- Printing
- Account Control Software
- Document Management
- Fax Servers



SOFTWARE SERVICES

Today's multi-function printing devices are smarter. They have touch screens and the ability to run embedded software directly on the device itself. This new technology has allowed us to bring a popular print and document management software into the MFP space, making it a technology hub for your organization.

We work with you from discovering what documents and processes you are managing in your organization, to finding the best software solution for you and demonstrating how the software works specifically to your needs. We work side-by-side with your staff on both installing and training on the new software. It's a complete package of services.

Discovery Meeting

What documents and processes are you managing in your organization? Once we understand what you are doing, we can create a solution that will provide economy or efficiency or both.

Demonstration

Our demonstration shows how the software solution can be applied in your environment, with your processes and workflow.

Installation

Our Technology Consultants work directly with you to fine tune the installation and application within your organization and create a Statement of Work defining the entire implementation plan.

Training

Eakes Technology Consultants will also work with you on this project to create a technology training plan. Training options include train-the trainer, group training or multiple sessions.

SOFTWARE PARTNERS



PaperCut MF is a low-cost software solution that is primarily used to manage print and copy access, implement quotas, charge per page and account by user, department or client via silent tracking or policy.



GoldFax, built on Microsoft .NET™ technology, integrates Sharp OSA-enabled MFPs into enterprise-class Fax Server solutions at a small business price. Increase productivity: automated fax routing and PC faxing. Integrates with your software applications, e-mail and phone system.



docMgt was designed to provide you with an easy way to address your document management challenges. It's intuitive, affordable and cost effective. With docMgt, you can manage content from any source whether its scanning paper documents, importing emails, generating e-forms or importing document created in other applications or systems.

MANAGED PRINT REFERENCES

Westside Community Schools

Bob Zagozda
402-390-2138
zagozda.robert@westside66.net
4-year Contract includes eGoldfax/Papercut



Gretna Public Schools

Dr. Rich Beran
402-332-3265
rberan@gpsne.org
5-year Contract includes eGoldfax/Papercut



Wayne State College

John Dunning
402-369-2262
jodunni1@wsc.edu
5-year Contract includes eGoldfax/Papercut



Columbus Public Schools

Leonard Kwapnioski
402-563-7000
kwapnioskil@discoverers.org
5-year Contract includes Papercut



Fremont Public Schools

Scott Stoltenberg
402-727-4190
Scott.Stoltenberg@fpsmail.org
5-year Contract includes Papercut



Lincoln Electric System

Todd Dlouhy
402-473-3198
tdlouhy@les.com
5-year Contract includes eGoldfax/Papercut





CITY OF CRETE

INFRASTRUCTURE MATERIAL SPECIFICATIONS CONSTRUCTION TESTING SUBMITTAL REQUIREMENTS

MARCH 2024

TABLE OF CONTENTS

1.	Material Specifications	Pages 1 thru 2
2.	Construction Testing	Pages 3 thru 7
3.	Submittal Requirements	Pages 8 thru 9

MATERIAL SPECIFICATIONS

A. Concrete

1. **Concrete** for streets, sidewalks, drainage structures and other structures shall be NDOT 47B (Traditional Mix, 30% Type E Aggregate) – 3500 psi, as per latest NDOT specifications. Class C Fly Ash is not allowed. Type IP cement will be used for all concrete.
2. Full width slip form paving is the preferred method of construction for street paving. A waiver on this requirement may be granted by the City, if requested by the Subdivider/Developer.

B. Storm Sewer

1. **Storm Sewer Pipe** shall be Class III reinforced concrete pipe (RCP).
2. **Inlets** shall be NDOT type curb inlets. Inlets shall be cast in place concrete.
3. **Drainage Structures** shall be NDOT type manholes, junction boxes, collars, pipe taps, etc.

C. Water

1. **Water Main Pipe** shall be Polyvinyl Chloride (PVC) Class 150 DR18 meeting all of the requirements of AWWA C-900 (latest revision) with push-on gasketed bell ends, minimum size 6-inch, color to be blue. Minimum cover of 5'-6".
2. **Fittings** shall meet the requirements of ANSI/AWWA C153/111 or C110/153 mechanical joint and cement lined. All fittings shall be polywrapped and shall have poured in place thrust blocks.
3. **Couplings** will be Ductile Iron with stainless steel bolts and nuts. The working pressure shall be 150 psi.
4. **Valves** shall be Mueller Co., American Flow Control, or Kennedy Valve, and shall conform to ANSI/AWWA C509. Values shall be resilient – wedge type valves with non-rising stems. Direction of opening: Counterclockwise
5. **Valve Boxes** shall have a screw type extension sleeve. The cover shall have the word "WATER" cast thereon.
6. **Fire Hydrants** shall be American Flow Control B-84-B, Mueller Super Centurion 250, or Kenney Guardian K81-D, and shall conform to ANSI/AWWA C502. The fire hydrant shall have a 6" inlet connection, 5-1/4" main valve opening, one 4-1/2-inch pumper nozzle and two 2-1/2" hose nozzles with a minimum 6'-0" bury. Direction of opening: Counterclockwise. Color to be red.
7. **Tracer Wire** shall be installed with all water main. The tracer wire shall be No. 12 AWG Solid Copper or Solid Copper Clad Steel (CCS), 350-pound minimum break load with type THHN insulation. Connectors (splice) shall be Copperhead SnakeBite connector, 3M DBR connector or approved equal rated for direct bury. Valvco tracer wire access boxes will be installed at approximately one block intervals along the route of the water main which includes fire hydrant locations.
8. **Water Service Line Pipe** shall be polyethylene (PE) plastic pipe (SIDR-PR) conforming to ASTM D2239 and AWWA C901, SIDR7. Minimum size 3/4" and minimum cover of 5'-6".
9. The water service line will be connected to the water main with a saddle (Smith Blair Model 317) and a corporation with a swivel 1/8 bend. The working pressure

shall be 150 psi. The water service line will terminate with a curb stop with a 42-inch stationary rod and an arch pattern extendable type curb stop box with a minimum inside diameter of 1-1/2 inches and a pentagon bolt plug style lid. The curb stop box will be located on the street right of way line/property line.

D. Sanitary Sewer

1. **Sewer Main Pipe** shall be Polyvinyl Chloride (PVC) solid wall pipe conforming to ASTM D3034, SDR35 with bell and spigot type joint with a rubber gasket, minimum size 8 inch.
2. **Manholes** shall be precast concrete in accordance with ASTM C478 with resilient connectors complying with ASTM C923. The base shall be precast or cast in place. Joints will be sealed with a flexible butyl rubber joint sealant. Exterior bituminous dampproofing of the manhole sections is required. Manhole steps shall be ½ inch grade 60 reinforcing steel encapsulated in molded copolymer polypropylene. The manhole cover will be a Deeter Foundry 1030 Ring and Cover.
3. **Sanitary Sewer Service Line Pipe** shall be Polyvinyl Chloride (PVC) solid wall pipe SDR 26 with bell and spigot type joint with a rubber gasket minimum size 4 inch. The sanitary sewer service line will terminate with a plug at the street right of way line/property line.
4. **Sanitary Sewer Service Wye** will be compatible with the main line sewer material.

E. Detectable Warning Panels

1. If sidewalk is constructed as part of the project at all curb ramps, detectable warning panels will be installed. The panels shall be Armor Tile Cast in Place System, Color Black.

F. Street Lighting

1. The City shall approve all street lighting.

G. Subgrade, Trench and Grading

1. All subgrade, trench and grading compaction shall meet the requirements of the Geotechnical Report.

H. All sanitary sewer and water improvements will meet the requirements of the Recommended Standards for Water Works, latest edition (aka 10 States Standards) by Great Lakes. Upper Mississippi River Board of State Public Health and Environmental Managers.

CONSTRUCTION TESTING

- A. Grading/Fill Testing:
 - 1. Frequency of Tests:
 - a. 1 test for each lift of 0 to 1 foot in depth per 100' x 100' area.

- B. Trench Testing:
 - 1. Water Piping: Frequency of Tests:
 - a. Under Paving, Slabs-on-Grade and Similar Construction:
 - 1. 1 test per 150 linear feet of main line. Test at random depths.
 - 2. 1 test of each service line. Test at random depths.
 - b. Nonpaved Area:
 - 1. 1 test per 300 linear feet of main line. Test at random depths.
 - 2. 1 test of each service line. Test at random depths.
 - 2. Sanitary Sewer Piping: Frequency of Tests:
 - a. Under Paving, Slabs-on-Grade and Similar Construction:
 - 1. 2 tests per 150 linear feet of main line, test lower portion and test upper portion of trench.
 - 2. 1 test of each service line. Test at random depths.
 - b. Nonpaved Area:
 - 1. 2 tests per 300 linear feet of main line, test lower portion and test upper portion of trench.
 - 2. 1 test of each service line. Test at random depths.
 - 3. 1 test at each manhole location. Test at random depths.
 - 4. Storm Drainage Piping: Frequency of Tests:
 - a. Under Paving, Slabs-on-Grade and Similar Construction:
 - 1. 1 test per 150 linear feet of main line. Test at random depths.
 - b. Nonpaved Area:
 - 1. 1 test per 300 linear feet of main line. Test at random depths.

- C. Subgrade Testing:
 - 1. Frequency of Tests: 1 test per 100 to 150 linear feet of subgrade.

- D. Concrete Testing:
 - 1. Compressive Strength Test Samples: ASTM C 39. For each test, mold and cure 3 concrete test cylinders. A set of 3 test cylinders shall be collected for every 100 cubic yard or fractional part thereof for each class of concrete placed in a day. At least one set of cylinders is required for each day concrete placement takes place for paving, sidewalk and cast in place structures.
 - a. One additional cylinder may be required for a break prior to 7 days.
 - b. Take 1 additional test cylinder during cold weather concreting, as defined by the Nebraska Department of Transportation Standard Specifications Latest Edition and cured on the job site under the same conditions as the concrete it represents.

- c. If the compressive strength is less than specified, the concrete paving will be subject to a pay deduction or rejection as defined by the Nebraska Department of Transportation Standard Specifications Latest Edition.
2. Slump Test - Perform 1 slump test for each set of test cylinders taken.
 - a. If the concrete mixture is excessively wet causing segregation, excessive bleeding, or any other undesirable condition, the concrete shall be rejected.
 - b. If the slump is outside the allowable limits as defined by the Nebraska Department of Roads Standard Specifications Latest Edition, the load of concrete shall be rejected.
 3. Air Test - Perform 1 air content test for each set of test cylinders taken.
 - a. If the air content is less than the minimum specified, only one addition of air-entraining admixtures is allowed.
 - b. If the air content is outside the allowable limits as defined by the Nebraska Department of Roads Standard Specifications Latest Edition, the load of concrete shall be rejected.
 4. Pavement Thickness Test:
 - a. Obtain a core sample of concrete paving at 150-foot intervals of the entire length of paving.
 - b. If the pavement thickness is less than specified, the pavement will be subject to a pay deduction or rejection as defined by the Nebraska Department of Transportation Standard Specifications Latest Edition.

E. Flushing:

1. Water Main:
 - a. Procedure:
 1. Obtain approval of City to flush new water main and to discharge chlorinated water into storm sewer or natural water way.
 2. Use flushing methods which prevent damage to private and public property.
 3. Hydrants may be used for flushing.
 4. Minimum Flushing Velocity: 2.5 feet per second (fps).
 5. Flush 5 times the volume of the line or as directed by City.
 6. Ascertain that heavily chlorinated water has been removed from the water line.
 7. Chlorine concentration should be no higher than that generally maintained in the system or less than 1 mg/L.
 - b. Chlorinated Water Discharge:
 - a. Discharge/dispose of the chlorinated water resulting from the disinfection of the water improvements in an appropriate manner and in strict compliance with local, state and federal requirements for discharges to any storm drain, surface water, ditch or other waterway.
 - b. Do not discharge 'super-chlorinated' (concentration of 4 mg/L or higher) water directly to any storm sewer drain system, surface water or other waterway without permission of the City.

1. Super-chlorinated water may only be discharged after dechlorination by aeration, retention, dissipation, or chemical treatment using a portable dechlorinator to “no measurable chlorine” content.
2. Removal of any residual chlorine must be completed before any discharge into an environmentally sensitive area or surface water.
- c. If the discharge is to a ditch, at a minimum, all regulatory requirements and the following stipulations shall be complied with.
 1. The water in the ditch(es) shall not have measurable residual chlorine within 1,000 feet of the point of discharge or at the point of entry into an environmentally sensitive area, surface water or other waterway, whichever distance is less.

F. Bacteriological Testing:

1. Water Samples:
 - A. Procedure:
 1. After final flushing and before new waterline is placed in service, fill line with potable water.
 2. Install corporation stop on waterline with copper tube gooseneck assembly.
 3. Bacteriological samples shall be analyzed for the presence of coliform bacteria. Samples shall be tested in accordance with Standard Methods for the Examination of Water and Wastewater. A passing sample is defined as results showing absence (zero presence) of coliform bacteria.
 4. Contractor shall conduct bacteriological sample collection and testing in conformance with one of the following options:
 1. Collect 2 consecutive sets of samples at least 16 hours apart.
 2. At the conclusion of flushing, allow the main to sit without water use for a minimum of 16 hours. After the minimum of 16 hours, two sets of samples shall be collected a minimum of 15 minutes apart while the sample taps are left running.
 5. Location of Samples:
 - a. 1 set at end of each test section.
 - b. 1 set for every 1,200 feet.
 - c. 1 set from each branch.
 6. Collect samples in sterile bottles treated with sodium thiosulfate.
 7. Do not take samples from hose or fire hydrant.
2. Submit water samples to the state regulatory agency laboratory or certified testing laboratory for bacteriological analysis.
3. Bacteriological Test Failure:
 - a. Repeat flushing and disinfection procedures.
 - b. Use continuous-feed method for disinfection.

- c. Repeat bacteriological sampling and testing.
- d. Contractor may be invoiced for the water used to flush if more than 2 sets of samples fail (at the discretion of the City).

G. Pressure Testing:

- 1. Water Main:
 - 1. Perform a Hydrostatic Test of all water main piping.
 - 2. Pressure test piping and appurtenances in accordance with AWWA C600 or C605.
 - 3. Test individual sections between valves.
 - 4. Test Pressure: 150 psi
 - 5. Minimum Test Period: 2 hours
- 2. Allowable Leakage:
 - 1. No pipe installation will be accepted if the quantity of makeup water is greater than that determined by the following formula.
 - Q = LD x \sqrt{P} divided by 148,000 where
 - Q = Quantity of makeup water, in gallons per hour
 - L = Length of pipe section being tested, in feet
 - D = Nominal diameter of pipe in inches
 - P = Average test pressure during the hydrostatic test, in pounds per square inch (gauge)
 - \sqrt{P} means the square root of P

H. Sewer Main:

- 1. Perform a Low-Pressure Air Test of all sanitary sewer main piping.
 - a. Test in accordance with ASTM F1417.
 - b. Test individual section(s) between pneumatic plugs.
 - c. Test pressure of 3.5 psi at start of test.
 - d. More than 1.0 psi pressure drop during test time indicates failed test.
- 2. Perform an alignment and deflection test of all sanitary sewer main piping.
 - a. Provide alignment and deflection test 30 days after backfilling trench.
 - b. Use rigid ball or mandrel having not less than 95 percent of base inside diameter or average inside diameter of pipe depending on which is specified in ASTM to which the pipe is manufactured.
- 3. Perform a TV Inspection of all of the sanitary sewer main piping, which includes:
 - a. DVD Video Tape/Flash Drive.
 - b. Written log of location of:
 - 1. Service wyes or tees as measured from manhole.
 - 2. Location of defects in pipe or joints.
 - 3. Location of debris in pipe.
 - 4. Location of any sags.
 - 5. Other notable items in pipe.

I. Sewer Force Main:

- 1. Pressure test piping and appurtenances in accordance with AWWA C600.
- 2. Test individual section(s) between valves.
- 3. Test Pressure: 150 psi
- 4. Minimum Test Period: 2 hours

5. Allowable Leakage:
No pipe installation will be accepted if the quantity of makeup water is greater than that determined by the following formula.

$Q = LD \times \sqrt{P}$ divided by 148,000 where

Q = Quantity of makeup water, in gallons per hour

L = Length of pipe section being tested, in feet

D = Nominal diameter of pipe in inches

P = Average test pressure during the hydrostatic test, in pounds
Per square inch (gauge)

\sqrt{P} means the square root of P

J. Testing Documentation and Failed Tests:

1. The independent testing laboratory shall document the location, date and test results of all testing on the project. Tests and test locations that fail will be retested until the test result meets the specifications. A copy of all test results will be furnished to the City Administrator.
2. The independent testing laboratory shall document placed concrete items. Documentation shall include concrete item tested, type of test sample taken, test results (slump, air content, air temperature, etc.), date, test cylinder number and location of sample collected.
3. Additional Tests: The testing laboratory shall make additional tests of concrete, when test results indicate that slump, air entrainment, compressive strength, pavement thickness or other requirements have not been met.

SUBMITTAL REQUIREMENTS

- A. Subdivider/Developer shall submit to the City Administrator three (3) paper copies and an electronic copy (PDF of each item) combined on one (1) DVD/Flash Drive of the following for review and approval by the City:
1. Final Plans and Specifications of Improvements, prepared by an Engineer licensed in the State of Nebraska
 2. Final Drainage Report, prepared by an Engineer licensed in the State of Nebraska
 3. Traffic Study (if required) prepared by an Engineer licensed in the State of Nebraska
 4. Landscape/Tree Plan (If required)
 5. Storm Water Pollution Prevention Plan (SWPPP) prepared by an Engineer licensed in the State of Nebraska
 6. Geotechnical Report, prepared by a Geotechnical Engineer licensed in the State of Nebraska
 7. Unit Price Cost Opinion of Improvements, prepared by an Engineer licensed in the State of Nebraska
 8. Subdivision Agreement
- B. Prior to the start of construction activities, the Subdivider/Developer shall submit to the City Administrator three (3) paper copies and an electronic copy (PDF of each item) combined on one (1) DVD/Flash Drive of the following for review and approval by the City:
1. Shop Drawings of Materials and Equipment to be incorporated into Project.
 2. Executed Contract with Construction Company.
 3. Approval Letter of Improvements from:
 - a. Nebraska Department of Environment and Energy
 - b. Nebraska Department of Environment and Energy
 4. Permits
 - a. NPDES Permit for Storm Water Discharges from Construction Sites
 - b. NDOT (If Applicable)
 - c. Other Permits (If Applicable)
- C. The Subdivider/Developer shall retain the services of a certified testing laboratory to provide the following testing services during construction. The Subdivider/Developer shall pay for all testing and retesting costs.
1. Grading/Fill Testing
 2. Trench Testing
 3. Subgrade Testing
 4. Concrete Testing
 - a. Air
 - b. Slump
 - c. Compressive Strength
 5. Pavement Thickness Testing
 6. Sanitary Sewer Main Testing
 - a. Low Pressure Air Test

- b. Alignment and Deflection Test
 - c. TV Inspection
 - 7. Water Main Testing
 - a. Bacteriological Samples
 - b. Hydrostatic Pressure Test
 - 8. Storm Water Pollution Prevention Plan (SWPPP) Monitoring
 - a. Storm Water Construction Site Inspection Report by a certified erosion and sediment control inspector
 - b. Erosion and Sediment Control Maintenance Report by a certified erosion and sediment control inspector
 - 9. Testing Data shall be submitted to the City Administrator as each element of the project is completed.
- D. Post Construction Review:
 - 1. Subdivider/Developer shall submit to the City Administrator three (3) paper copies and an electronic copy (PDF) on a CD the following:
 - a. As Built drawings of the improvements by the Engineer who prepared the plans and specifications.
 - b. Final statement of costs prepared by the Engineer who prepared the plans and specifications.
 - c. Request in writing by the Subdivider/Developer for the City to accept the improvements.



MEDICAL HOLD

In accordance with Nebraska law, you have the right to request the postponement (a delay) of a scheduled disconnection of residential electric service due to health reasons. You must present Crete Public Works Department with a certificate from a duly licensed physician certifying that you or someone living in your house has an existing illness or handicap which would cause this individual to suffer an immediate and serious health hazard by the disconnection of electric service.

Fill out your portion of this form and submit to your licensed physician to complete. This form must be filed with the Crete Public Works Department within five (5) days of receiving notice of disconnection of electric service. Once the City of Crete receives this completed form, the City will delay disconnection for a period of thirty (30) days. All provisions outlined in Crete Municipal Code still apply.

Only one postponement of disconnection is allowed for each incident of non-payment of any past due account.

The information you provide will not be used for any purpose other than to initiate a medical delay. Medical information will not be kept in the customer's billing account. By signing this form, you are authorizing your physician to release your medical information as it pertains to the requested medical hold.

SECTION 1A: To be completed by residential customer of record:	
Name:	
Address of Residence:	
Account Number:	
Phone Number:	E-mail Address:
<i>I certify that the information provided above is accurate and that I am the individual requiring the medical hold or the individual lives in my home.</i>	
Customer Signature:	Date:

Note: If the customer of record is not the individual within the household requiring the medical hold, Section 1B must also be completed. If the customer of record is the individual requiring the medical hold, proceed to Section 2.

SECTION 1B: To be completed by resident of household requiring the medical hold (if individual is not the customer of record):

If the individual is under 18 years of age or otherwise unable to sign, this section is to be completed by the legal Guardian or Power of Attorney.

Name:

Relationship to Customer:

Phone Number:

E-mail Address:

I certify that the information provided above is accurate, that I am a member of the household of the address noted in Section 1A, and that I am the individual requiring the medical hold.

Signature:

Date:

SECTION 2: To be completed by physician:

Name:

Professional License Number:

Licensing State:

Phone Number:

Type of Medical Practice:

Medical Practice Address:

I certify that the customer of record or the member of their household noted on this form requires medical equipment/a life support system to which an interruption of electric service would be immediately life-threatening and/or the individual has an existing condition that will be aggravated by the lack of electric service.

Physician Signature:

Date:

Return the completed form to:
Crete Department of Public Works
P.O. Box 86
Crete, NE 68333
Phone: 402-826-4312
E-mail: PW.help@crete.ne.gov