

POWER & CONCENTRIC NEUTRAL CABLE REQUEST FOR QUOTES

QUOTE OPENING DATE/TIME
SEPTEMBER 15TH @ 4:00 P.M.
CITY OF GRAND ISLAND, CITY HALL
100 E. 1ST STREET, P.O. BOX 1968
GRAND ISLAND, NE 68802

ADVERTISEMENT
REQUEST FOR QUOTE

POWER & CONCENTRIC NEUTRAL CABLE

Sealed Quotes will be received at the City Clerk's Office, 100 E. First Street, Grand Island, NE 68801 or P.O. Box 1968, Grand Island, NE 68802 until 4:00 PM. (local time) on September 15th, 2022, for furnishing a Quote for all cable listed in the Quote sheets, F.O.B. for the City of Grand Island Utilities Department. Quotes received after the specified time will be returned unopened to sender.

The specifications, and any addenda, may be viewed on-line at www.grand-island.com under Business-Bid Calendar. Documents for use in preparing the Quote may be downloaded from the Quest CDN website, www.QuestCDN.com for a thirty dollar (\$30) fee.

Quotes shall be marked "POWER & CONCENTRIC NEUTRAL CABLE". All Quotes must be signed and dated in order to be accepted. The original Quote and two (2) additional complete copies (3 total) shall be submitted for evaluation purposes. If Quotes are being submitted online via QuestCDN, the submitter is NOT required to submit hard copies. Quotes not containing the correct number of copies will not be considered.

Quotes will be evaluated by the Purchaser based on the firm's ability and responsiveness; experience; schedule and efficiency of operation; rates and fees; reputation and ability to perform the project's requirements.

Quotes shall remain firm for a period of sixty (60) days after Quote due date. The City of Grand Island reserves the right to reject any or all Quotes and to waive technicalities therein and accept whichever Quote that may be in the best interest of the City of Grand Island, at its sole discretion.

The City of Grand Island does not discriminate on the basis of disability in admission of its programs, services, or activities, in access to them, in treatment of individuals with disabilities, or in any aspect of their operations. The City of Grand Island also does not discriminate on the basis of disability in its hiring or employment practices.

This notice is provided as required by Title II of the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. Questions, complaints, or requests for additional information or accommodation regarding the ADA and Section 504 may be forwarded to the designated ADA and Section 504 compliance coordinator.

RaNae Edwards, City Clerk

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1 GENERAL INFORMATION

1.1 DESCRIPTION

The purpose of this RFQ is procure various cable sizes and quantities as described in Section 1.6.

1.2 BID DATE, LOCATION, AND CONTACT INFO

- Quotes must be received at City Hall by 4:00 P.M. on Tuesday, September 14th, 2022. Quotes may be mailed to the City Clerk's Office (100 E. 1st Street), hand delivered, or submitted online by accessing the Quote specification calendar at <http://www.grand-island.com/business/Quotes-and-request-for-Quotes/Quote-calendar>. Late Quotes will not be considered.

Note: The Grand Island Utilities Department is NOT tax exempt and is subject to State and City sales tax. See the Nebraska Department of Revenue's web site at www.revenue.state.ne.us for contractor's tax information.

- Direct all Quote related questions to Ryan Schmitz at Phone: (308) 385-5463 Ext 2132, Email: rschmitz@giud.com.

1.3 DEFINITIONS

- **City or City of Grand Island** – An employee representative of the City of Grand Island.
- **Vendor** – Representative term for company being awarded a Contract for procurement.

1.4 SUBMITTAL REQUIREMENTS

The following information must be provided/completed and submitted with the Quote:

- Provide Completed Bid Tables in Section 4 (Note: Vendor has the option to Quote multiple products at their discretion)
- Signed Bid Table Sheet

Note: The equation listed in the Quote tables will be the agreed upon determining factor for cable pricing at the time of shipment.

1.5 CABLE BID TABLES

The enclosed Quote tables include the following criteria:

- **Base Price of Cable** – This is the current total price of cable at the time of the Quote opening. (i.e. the price Grand Island Utilities would pay if commodity pricing at the time of shipment was \$3.71/lb for copper and \$1.35/lb for aluminum). Quote sheet prices shall NOT include sales tax.
- **Price of Copper on which Quote is Based** – Market price of copper for which 'Base' cable prices are to be based on for bidding purposes.
- **Copper/Aluminum in Cable** – The amount of copper/aluminum, per lineal foot, that the vendors cable is composed of.

- **Price of Copper/Aluminum at Time of Order** – Market Day-end closing price for conductor material on business day that cable is shipped from the vendor to the City of Grand Island.
- **Total Price of Cable** – The price Grand Island Utilities will pay for cable. This value does NOT include sales tax. Note: This price may fluctuate up or down from the initial ‘Base Price’ Quote depending on the current market value of the conductor material.

Examples:

POWER CABLE BID TABLE					
Conductor Size	(A) Base Price of Cable (\$ /L.F.)	Price of Copper on which Bid is Based (\$/lb)	(B) Copper in Cable (lb/L.F.)	(C) Price of Copper at time of order (\$/lb)	Total Price of Cable (\$/L.F.) = A + (C - \$2.80)*B
1/0	\$3.30	\$2.80	0.391	\$3.15	\$3.44

CONCENTRIC NEUTRAL CABLE BID TABLE								
Conductor Size	(A) Base Price of Cable (\$/L.F.)	Price of Aluminum on which Bid is Based (\$/lb)	Price of Copper on which Bid is Based (\$/lb)	(B) Aluminum in Cable (lb/L.F.)	(C) Copper in Cable (lb/L.F.)	(D) Price of Aluminum at time of order (\$/lb)	(E) Price of Copper at time of order (\$/lb)	Total Price of Cable = A + (D - \$1.15)*B + (E - \$2.80)*C
#2	\$3.30	\$1.15	\$2.80	0.062	0.129	\$1.20	\$3.15	\$3.35

1.6 AWARD PROCESS

Quotes will be analyzed and awarded, independently, for the following four (4) categories:

- 1) 40,000 LF of Power Cable (Copper, Sizes: 1/0)
- 2) 20,000 LF of Power Cable (Copper, Sizes: 4/0 MCM)
- 3) 24,000 LF of Power Cable (Copper, Sizes: 500 MCM)
- 4) 25,000 LF of Concentric Neutral Cable (Aluminum, Size: #2)

1.7 PROCUREMENT PROCESS

- The ‘Price of Copper/Aluminum at time of Order’, as defined in Section 1.6, will be determined as follows:
 - Copper – Based on the market price of COMEX COPPER on the day that the cable is shipped. Supplier shall provide a copy of market prices to the City for verification.
 - Aluminum – Based on the market price of MID-WEST U.S. on the day that the cable is shipped. Supplier shall provide a copy of market prices to the City for verification.

1.8 DELIVERY AND NOTIFICATION

- Shall be F.O.B. Grand Island, Nebraska
- The Bill of Lading is to be marked “Notify Storeroom (Call 308-385-5469), Weekdays, 8-12 or 1-3”.
- Notice for a Monday delivery must be received by 4:15 P.M. on Friday
- Delivery will be accepted only during normal working hours (8 A.M. to Noon and 1 P.M. to 3 P.M. on Weekdays)
- Cable shipped in an enclosed truck will be rejected. **Flat-bed trucks only.**

2 POWER CABLE REQUIREMENTS

2.1 CODES AND STANDARDS

All power cables must be in full compliance with the following Standard:

ICEA S-97-682-2013	(Standard for Utility Shielded Power Cables Rated 5 Through 46 kV)
AEIC CS8-13	(Specification for Extruded Dielectric Shielded Power Cables Rated 5 Through 46 kV)

2.2 CONSTRUCTION

Cable must be MV-105, UL listed, 15 kV rated, and suitable for the following distribution system locations: wet, dry, indoor, outdoor (exposed to sunlight), conduit, and underground ducts. It must meet all standards set forth in ICEA S-97-682-2013 as well as those noted in this section. Any more restrictive requirements listed here-in shall supersede those detailed in the referenced section of the ICEA standard.

2.2.1 CONDUCTOR

- Per ICEA S-97-682-2013 Part 2
- Annealed Bare Copper
- Compact Stranded
- Class B
- Single Conductor

2.2.2 CONDUCTOR SHIELD

- Per ICEA S-97-682-2013 Part 3

2.2.3 INSULATION

- Per ICEA S-97-682-2013 Part 4
- Ethylene Propylene Rubber (EPR)
- 133% Insulation level (Nominal Thickness of 220 mils)
- 105°C Temperature Rating

2.2.4 INSULATION SHIELD

- Per ICEA S-97-682-2013 Part 5

2.2.5 METALLIC SHIELDING TAPE

- Per ICEA S-97-682-2013 Part 6
- Bare Copper Tape
- Thickness of 5 mil (0.005 in)
- Minimum 12½% overlap

2.2.6 JACKET

- Per ICEA S-97-682-2013 Part 7

2.3 IDENTIFICATION

The outer jacket surface of the cable shall be marked at regular intervals, per ICEA S-97-682-2013 Part 8.2.1. The labels must include:

- Manufacturer's Identification or trade name
- Size of Conductor
- Conductor Material
- Type of Insulation
- Voltage Rating
- Nominal Insulation Thickness (Per ICEA S-97-682-2013 Table 8-1)
- Power Cable Symbol (Lightning Bolt) per NESC 2017 Rule 350 (See Below)

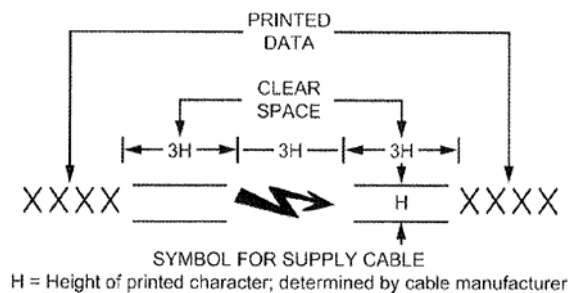


Figure 350-1—Symbols for identification of buried cables

- Year of Manufacture
- Semiconducting Jacket
- Sequential Length markings at 2 foot intervals (per ICEA S-97-682-2013 Part 8.2.4)

2.4 REELS

All power cable shall be less than 12 months old and delivered on new reels. Cable will not be accepted if delivered lying flat or with any damage to the reels flanges or covering. Reels must not be shipped in an enclosed truck. Reels must meet requirements listed in AEIC CS8-13 and also conform to the dimensions listed in this section. Oversized reels will not be accepted.

2.4.1 1/O COPPER POWER CABLE REELS

- Cable Length = 2000 L.F. (tolerance of +5%)
- Height = 45"
- Inside Flange Width = 28"
- Diameter of Drum = 21"

2.4.2 4/O COPPER POWER CABLE REELS

- Cable Length = 2000 L.F. (tolerance of +5%)
- Height = 50"
- Inside Flange Width = 32"
- Diameter of Drum = 24"

2.4.3 500 MCM COPPER POWER CABLE REELS

- Cable Length = 1200 L.F. (tolerance of +5%)
- Height = 50"
- Inside Flange Width = 32"
- Diameter of Drum = 24"

2.5 DOCUMENTS

Manufacturer must provide descriptive literature discussing installation procedures and cable pulling recommendations for each cable size & type being provided.

3 CONCENTRIC NEUTRAL CABLE REQUIREMENTS

3.1 CODES AND STANDARDS

All power cables must be in full compliance with the following Standard:

ICEA S-94-649-2013 (Standard for Concentric Neutral Cables Rated 5 Through 46 kV)

AEIC CS8-13 (Specification for Extruded Dielectric Shielded Power Cables Rated 5 Through 46 kV)

ASTM B609/B609M-12 (Standard Specification for Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes)

ASTM B233-97 (Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors)

ASTM B231/B231M-99 (Aluminum 1350 Drawing Stock for Electrical Purposes)

3.2 CONSTRUCTION

Cable must be UL listed, 15 kV rated, and suitable for the following single-phase distribution system locations: wet, dry, indoor, outdoor (exposed to sunlight), conduit, and underground ducts. It must meet all standards set forth in ICEA S-94-649-2013 as well as those noted in this section. Any more restrictive requirements listed here-in shall supersede those detailed in the referenced section of the ICEA standard.

3.2.1 CONDUCTOR

- Per ICEA S-94-649-2013 Part 2
- Aluminum 1350 Grade
- Compressed Stranded
- Class B
- Single Conductor

3.2.2 CONDUCTOR SHIELD

- Per ICEA S-94-649-2013 Part 3

3.2.3 INSULATION

- Per ICEA S-94-649-2013 Part 4 & AEIC CS8-13
- Ethylene Propylene Rubber (EPR)
- 133% insulation level (Nominal Thickness of 220 mils)
- 105°C Temperature Rating

3.2.4 INSULATION SHIELD

- Per ICEA S-94-649-2013 Part 5 & AEIC CS8-13

3.2.5 CONCENTRIC NEUTRAL CONDUCTOR

- Per ICEA S-94-649-2013 Part 6
- Full Neutral
- Solid, Round, Annealed, Helically applied Copper Wires
- Must be ten #14 AWG wires
- Minimum 12½% overlap
- Sized for Single-Phase System

3.2.6 JACKET

- Per ICEA S-94-649-2013 Part 7
- Material must be Linear Low Density Polyethylene (LLDPE)

3.3 IDENTIFICATION

The outer jacket surface of the cable shall be marked at regular intervals, per ICEA S-94-649-2013 Part 8.2.1. The labels must include:

- Manufacturer's Identification or trade name
- Size of Conductor
- Conductor Material
- Type of Insulation
- Voltage Rating
- Nominal Insulation Thickness (Per ICEA S-94-649-2013 Table 8-1)
- Three red longitudinally extruded red stripes per ICEA S-94-649-2013 Part 8.2.1.1
- Power Cable Symbol (Lightning Bolt) per NESC 2017 Rule 350 (See Below)

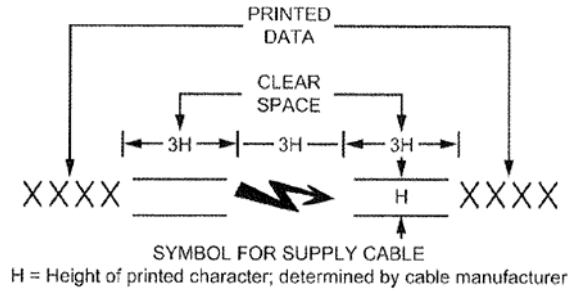


Figure 350-1—Symbols for identification of buried cables

- Year of Manufacture
- Semiconducting Jacket
- Sequential Length markings at 2 foot intervals (per ICEA S-94-649-2013 Part 8.2.4)

3.4 REELS

All concentric neutral cables shall be less than 12 months old and delivered on new reels. Cable will not be accepted if delivered lying flat or with any damage to the reels flanges or covering. Reels must not be shipped in an enclosed truck. Reels must meet requirements listed in AEIC CS8-13 and also conform to the dimensions listed in this section. Oversized reels will not be accepted.

3.4.1 #2 ALUMINUM CONCENTRIC NEUTRAL CABLE REELS

- Cable Length = 2500 L.F. (tolerance of +5%)
- Height = 50"
- Inside Flange Width = 32"
- Diameter of Drum = 24"

3.5 DOCUMENTS

Manufacturer must provide descriptive literature discussing installation procedures and cable pulling recommendations for each cable size & type being provided.

4 BID TABLES

4.1 POWER CABLE BID TABLE

POWER CABLE BID TABLE					
Conductor Size	(A) Base Price of Cable (\$ /L.F.)	Price of Copper on which Bid is Based (\$/lb)	(B) Copper in Cable (lb/L.F.)	(C) Price of Copper on day of shipment (\$/lb)	Total Price of Cable (\$/L.F.) = A + (C - \$2.80)*B
1/O		\$3.71		Not Applicable For Bid	Not Applicable For Bid
4/O		\$3.71		Not Applicable For Bid	Not Applicable For Bid
500 MCM		\$3.71		Not Applicable For Bid	Not Applicable For Bid

4.2 CONCENTRIC NEUTRAL CABLE BID TABLE

CONCENTRIC NEUTRAL CABLE BID TABLE								
Conductor Size	(A) Base Price of Cable (\$ /L.F.)	Price of Aluminum on which Bid is Based (\$/lb)	Price of Copper on which Bid is Based (\$/lb)	(B) Aluminum in Cable (lb/L.F.)	(C) Copper in Cable (lb/L.F.)	(D) Price of Aluminum on day of shipment (\$/lb)	(E) Price of Copper on day of shipment (\$/lb)	Total Price of Cable = A + (D - \$1.15)*B + (E - \$2.80)*C
#2		\$1.35	\$3.71			Not Applicable For Bid	Not Applicable For Bid	Not Applicable For Bid

4.3 LEAD TIMES

CABLE SIZE	ESTIMATED LEAD TIME
1/O	
4/O	
500 MCM	
#2	

FIRM SUBMITTING QUOTE _____

SIGNATURE _____