

**If this page is not signed and included with your bid, it will
be disqualified.**

Date: _____

**CITY OF SAGINAW PURCHASING OFFICE
1315 S. WASHINGTON AVENUE
SAGINAW, MICHIGAN 48601**

**TO: PROSPECTIVE BIDDERS
SUBJECT: ADDENDUM # 4 C- 1648 Saginaw Wastewater Plant Electrical
Upgrades Dated 12- 4 -2018**

Information disclosed and/or questions raised since issuance of documents to bidders
requires that a change be made in the subject bid as shown on this form:

CHANGES:

- No. 1) Bid Date changed to December 11, 2018 at 3:00 pm
- No. 2) Attached is the Question and Answer Log
All attached is to be considered as part of the bid. 14 pages
- No. 3) All addendums are posted on the City's Website
<http://www.saginaw-mi.com/departments/fiscalservices/purchasing.php>

Communications concerning this Bid shall be addressed to: Gene Jones, (313) 402-8846.

NOTE: SIGN ADDENDUM AND SUBMIT SAME WITH BID.

I _____ certify that I have read this ADDENDUM and
that the bid, as submitted, reflects the changes described in this addendum.

(Company's Name)

(Address)

(Signature)

(Title)

Bidder shall sign Addendum and submit it with bid.

Addendum Cover
Total pages Cover + 14

ADDENDUM No. 4

City of Saginaw Michigan

Request for Proposals (RFP) Project: City of Saginaw C-1648 WWTP Electrical Upgrades

November 29, 2018

MODIFICATIONS TO RFP:

1. Revise specification section 16330 section 2.03 item 5: Add additional item "I"
 - a. Transformer to be provided with integral containment.
2. Revise specification section 16050 section 3.01 item H: Add the following sentence to existing item H.
 - a. Contractor responsible for supplying supports, connections, insulators, stand-offs, etc., as required to connect the new feeder cables F401 and F402 to the existing Consumers Energy transformers. The Contractor is responsible to coordinate these connections to the existing Consumers Energy transformers with Consumers Energy.
3. Only a 6 strand fiber multimode fiber optic cable is required from RSPP to GIOP.
4. The two power factor correction capacitors shown on sheet E-106 may be supplied integral to the motor control center no.1.
5. There is no site office trailer required for the project.

QUESTION AND ANSWER LOG AS OF 12-3-18, 10:09AM:

From: Jones, Gene
Sent: Monday, December 3, 2018 6:53 AM
To: Mark Krieger <mark@wfnelson.com>
Cc: 'ABiddle@saginaw-mi.com' <ABiddle@saginaw-mi.com>
Subject: RE: Saginaw WWTP Electrical Upgrades RFI

Mark, the section you reference is a general introductory reference to the types of cables.

Refer to section 2.04 for the project specific cable that is to be provided.

Gene

From: Mark Krieger <mark@wfnelson.com>
Sent: Monday, December 3, 2018 6:43 AM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: Saginaw WWTP Electrical Upgrades RFI

Gene,

Can unshielded 5kv cable be used on the project? It is called out in spec section 16120/1.03/B/2. This would be extremely helpful when making up in the motor heads on the raw sewage pumps. Please advise.

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160

From: Mark Krieger <mark@wfnelson.com>
Sent: Thursday, November 29, 2018 11:44 AM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: FW: Saginaw WWTP Electrical Upgrades RFI

Thanks Gene

From: Jones, Gene [<mailto:Gene.Jones@tetrattech.com>]
Sent: Thursday, November 29, 2018 2:40 PM
To: Mark Krieger
Cc: Jones, Mick; 'ABiddle@saginaw-mi.com'
Subject: RE: Saginaw WWTP Electrical Upgrades RFI

Mark, going thru some emails, I am not sure if I responded to this email you sent on Tuesday.

The Contractor will need to provide a means of powering the loads shown at the existing distribution panel in the electrical room during the switchover. This is a contract requirement as the plant must remain in operation during this construction.

This sequencing and the contract requirement to keep the plant operational was discussed during the prebid meeting for this area as well as the raw sewage pumps and the outdoor switchgear.

We would typically not tell the contractor what size generator they need to do their work sequence for this location. We only show the control centers and panelboards that need to be powered. That is shown on drawing E-106.

I hope that helps.

Gene

From: Jones, Gene
Sent: Friday, November 30, 2018 4:07 PM
To: 'stephen@tedselectricservice.com' <stephen@tedselectricservice.com>
Subject: RE: Saginaw C-1648 - WWTP Electrical Upgrades

Stephen, there is nothing required outside of the breakers.

The concrete trough that is shown would be an alternate method of getting wires into this line-up.

Gene

From: stephen@tedselectricservice.com <stephen@tedselectricservice.com>
Sent: Friday, November 30, 2018 2:16 PM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: Saginaw C-1648 - WWTP Electrical Upgrades
Importance: High

Gene,

I had a quick question about the future biogas breaker sections of the new MVUS, The drawing does not reference any duct-bank or conduit stubs out of the foundation/pad for the future biogas connection, is this something that would be desired for the future integration? If so, what are the design parameters of these provisions? Does the city know roughly where they want to install the biogas generator when/if the project moves forward? Would a manhole be desired for the current termination point?

I'm thinking that this would be desired for ease of the future expansion to mitigate some of the larger, down-the-road work of getting conduits into the switchgear from the additional source if no provisions are provided.

Thanks,

Stephen Wejrowski
Stephen Wejrowski
Project Manager
Ted's Electric Service, Inc.
6245 N. Swede Rd.
Rhodes, MI 48652
Ph. - (989) 689-6241
Fax - (989) 689-6242
Mo. - (989) 205-1184
email - stephen@tedselectricservice.com

From: ABiddle@saginaw-mi.com <ABiddle@saginaw-mi.com>
Sent: Thursday, November 15, 2018 4:43 AM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Cc: Mark Krieger <mark@wfnelson.com>; Jones, Mick <Mick.Jones@tetrattech.com>;
BBaldwin@saginaw-mi.com; TLeFevre@saginaw-mi.com
Subject: RE: SWTTP Electrical Upgrades Liquidated Damages

Hi Gene,

I have reviewed Mark's comment and your response.

I do not agree with the statement that "This project will be based on weather conditions and not a deadline."

This project will have a defined Start Date and a Completion Date as per the following Specifications:

- Contract - Article 2
- Progress Clause

That being noted, the City completely understands that weather can cause work delays outside and the City is totally willing to work with the Contractor regarding any such delays. Mark has worked with the City long enough to know this to be the case. If needed, there is also a provision in the Specifications which can be used to address this if it becomes an issue:

- General Conditions - Extension of Time

Thanks.

Andy Biddle, P.E.
Water/Sewer Engineer
City of Saginaw
Phone: 989-759-1632

From: "Jones, Gene" <Gene.Jones@tetrattech.com>
To: Mark Krieger <mark@wfnelson.com>

Cc: "'ABiddle@saginaw-mi.com'" <ABiddle@saginaw-mi.com>, "Jones, Mick" <Mick.Jones@tetrattech.com>
Date: 11/14/2018 11:55 AM
Subject: RE: SWTTP Electrical Upgrades Liquidated Damages

Mark, I thought that was discussed and the city indicated that the weather could be an issue and we would work with the contractor if that turns out to be the case.

I will forward your question to the city to see if we need to issue any additional clarification.

Thank you,

Gene

From: Mark Krieger <mark@wfnelson.com>
Sent: Wednesday, November 14, 2018 8:38 AM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: SWTTP Electrical Upgrades Liquidated Damages

Gene,

There is a special provision in the spec regarding liquidated damages. This project will be based on weather conditions and not a deadline. This needs to be addressed don't you feel? Please let me know.
Thanks

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160

From: Jones, Gene
Sent: Wednesday, November 14, 2018 12:03 PM
To: 'Mark Krieger' <mark@wfnelson.com>
Cc: 'ABiddle@saginaw-mi.com' <ABiddle@saginaw-mi.com>; Jones, Mick <Mick.Jones@tetrattech.com>
Subject: RE: SWWTP Electrical Upgrades RFI

Mark, that should be part of item no.1.

I will ask the city to see if we need to issue any further clarification on this.

Thank you,

Gene

From: Mark Krieger <mark@wfnelson.com>
Sent: Wednesday, November 14, 2018 8:53 AM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: SWWTP Electrical Upgrades RFI

Gene,

The \$15,000.00 dollar allowance for Consumers Energy will be needed for both items #1 and #5 on the bid breakdown. Which line item should this be in?

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

From: Jones, Gene
Sent: Thursday, November 29, 2018 11:40 AM
To: 'Mark Krieger' <mark@wfnelson.com>
Cc: Jones, Mick <Mick.Jones@tetrattech.com>; 'ABiddle@saginaw-mi.com' <ABiddle@saginaw-mi.com>
Subject: RE: Saginaw WWTP Electrical Upgrades RFI

Mark, going thru some emails, I am not sure if I responded to this email you sent on Tuesday.

The Contractor will need to provide a means of powering the loads shown at the existing distribution panel in the electrical room during the switchover. This is a contract requirement as the plant must remain in operation during this construction.

This sequencing and the contract requirement to keep the plant operational was discussed during the prebid meeting for this area as well as the raw sewage pumps and the outdoor switchgear.

We would typically not tell the contractor what size generator they need to do their work sequence for this location. We only show the control centers and panelboards that need to be powered. That is shown on drawing E-106.

I hope that helps.

Gene

From: Mark Krieger <mark@wfnelson.com>
Sent: Tuesday, November 27, 2018 1:56 PM
To: Jones, Gene <Gene.Jones@tetrattech.com>

Subject: Saginaw WWTP Electrical Upgrades RFI

Gene,

Drawing E-103 talks about temporary for critical loads in the existing MCC-1. Can you identify which of these loads need to be on temporary power? Can you provide a KW range for these critical loads so the proper generator can be provided? Please advise.

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

From: Mark Krieger <mark@wfnelson.com>
Sent: Tuesday, November 27, 2018 1:56 PM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: Saginaw WWTP Electrical Upgrades RFI

Gene,

Drawing E-103 talks about temporary for critical loads in the existing MCC-1. Can you identify which of these loads need to be on temporary power? Can you provide a KW range for these critical loads so the proper generator can be provided? Please advise.

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

From: Jones, Gene
Sent: Friday, November 30, 2018 12:20 PM
To: 'Mark Krieger' <mark@wfnelson.com>
Cc: Ryan Nelson <ryan@wfnelson.com>
Subject: RE: Saginaw WWTP Electrical Upgrades RFI

Only the 6 strand is required.

The project requires multimode fiber. The spec calls out specifics for single and multimode and references "or as shown on drawings."

Gene

From: Mark Krieger <mark@wfnelson.com>
Sent: Friday, November 30, 2018 11:14 AM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Cc: Ryan Nelson <ryan@wfnelson.com>
Subject: Saginaw WWTP Electrical Upgrades RFI

Gene,

Spec section 13413 (fiber optic cable) only talks about single mode fiber cable. The drawings in several locations call out multimode fiber. Which is correct?

Drawing E-302 calls for a 6-strand fiber cable to be installed between the RSPP and the GSIOP. It also calls for a 4-strand, 50 micron to be pulled in the existing conduit from the RSPP to the GSIOP. Drawing I-101 only shows the 6-strand fiber between the RSPP and the GSIOP. Is the 4-strand 50 micron cable required?

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

From: Jones, Gene
Sent: Thursday, November 29, 2018 10:28 AM
To: Mark Krieger <mark@wfnelson.com>
Subject: Re: Saginaw WWTP RFI's

Mark see the email below the very first sentence

Painting is not required
Sent from my iPhone

On Nov 29, 2018, at 1:26 PM, Mark Krieger <mark@wfnelson.com> wrote:
Gene,

What about the paint?

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

From: Jones, Gene [<mailto:Gene.Jones@tetrattech.com>]
Sent: Thursday, November 29, 2018 12:50 PM
To: Mark Krieger
Cc: Ryan Nelson; Jones, Mick; 'ABiddle@saginaw-mi.com'
Subject: RE: Saginaw WWTP RFI's

Mark, painting is not required.

The contractor is completely responsible for making those connections.

The bidders must include to make these connections. Any contractor that installs cables to the point of connection and does not include the means necessary to make the connections is not submitting a responsible bid.

The addendum on this matter required that coordination and connections to be provided.

Gene

From: Mark Krieger <mark@wfnelson.com>
Sent: Thursday, November 29, 2018 9:29 AM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Cc: Ryan Nelson <ryan@wfnelson.com>
Subject: Saginaw WWTP RFI's

Gene,

We were out to the plant yesterday, and noticed that if we remove the potheads from Feed F-402 there will need to be additional work done to support the existing busbar from the transformer as it was done on the F-401 feed. Are you going to address this?

We also noticed that the majority of the existing conduit on site is not painted. Painting is in the specs, but is painting of the conduit required?

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

Pad mount
Sent from my iPhone

On Nov 27, 2018, at 2:57 PM, Mark Krieger <mark@wfnelson.com> wrote:
Gene,

I received an RFI from a vendor. Can you please answer this RFI and send it back to me? Thanks

On drawing E-105 the 1000 KVA transformer is drawn as if it is to be a substation style, close coupled to the switchgear. The specification, 16330, stated it should be a padmounted design. Cable in/out. Which is correct?

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

From: Jones, Gene
Sent: Monday, November 26, 2018 12:13 PM
To: Mark Krieger <mark@wfnelson.com>
Subject: RE: Saginaw WWTP Electrical Upgrades RFI's

Mark, Nelson Electric is the only contractor that has asked any questions on the project since the pre-bid meeting.

Gene

From: Jones, Gene
Sent: Monday, November 26, 2018 1:19 PM
To: Mark Krieger <mark@wfnelson.com>
Subject: RE: SWWTP Electrical Upgrades RFI

Yes that is correct.

Mark, I can't speak for the other contractors.

My opinion is that this is not a complicated project for the electrical contractor. The switchgear is very expensive, but basically all the contractor is doing is connecting wires for the most part.

Gene

From: Mark Krieger <mark@wfnelson.com>
Sent: Monday, November 26, 2018 1:16 PM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: SWWTP Electrical Upgrades RFI

Gene,

In the NEMA 4 areas shown on the drawings, I'm assuming any j-boxes will need to be stainless steel correct? Don't you think it's strange no one else is asking any questions?

Wm. F. Nelson Electric, Inc.
Mark Krieger

Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

From: Mark Krieger <mark@wfnelson.com>
Sent: Monday, November 26, 2018 1:16 PM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: SWWTP Electrical Upgrades RFI

Gene,

In the NEMA 4 areas shown on the drawings, I'm assuming any j-boxes will need to be stainless steel correct? Don't you think it's strange no one else is asking any questions?

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

Mark, Nelson Electric is the only contractor that has asked any questions on the project since the pre-bid meeting.

Gene

From: Mark Krieger <mark@wfnelson.com>
Sent: Monday, November 26, 2018 12:11 PM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: Saginaw WWTP Electrical Upgrades RFI's

Gene,

Are you going to have a RFI log put together so all the RFI's you've received can be reviewed by all contractors bidding the project?

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

Mark that is by the switchgear manufacturer

Sent from my iPhone

On Nov 20, 2018, at 4:55 PM, Mark Krieger <mark@wfnelson.com> wrote:
Gene,

Is the Panelview 1500 and PM-5000 keypads being supplied by the controls contractor or by the gear manufacturer for the mimic panel?

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

From: Jones, Gene
Sent: Tuesday, November 20, 2018 6:02 AM
To: Mark Krieger <mark@wfnelson.com>
Subject: Re: Saginaw WWTP Electrical Upgrades Coordination Study

Mark

No it needs to be as specified

Gene

Sent from my iPhone

On Nov 20, 2018, at 8:58 AM, Mark Krieger <mark@wfnelson.com> wrote:
Gene,

Can the coordination study be done by an engineering firm, or does it have to be the equipment manufacturers? Let me know. Thanks

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

No
I don't believe so
Sent from my iPhone

On Nov 14, 2018, at 4:38 PM, Mark Krieger <mark@wfnelson.com> wrote:
Gene,

Are you going to need an office trailer on site for the project as stated in the specs?

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

Mark, I thought that was discussed and the city indicated that the weather could be an issue and we would work with the contractor if that turns out to be the case.

I will forward your question to the city to see if we need to issue any additional clarification.

Thank you,

Gene

From: Mark Krieger <mark@wfnelson.com>
Sent: Wednesday, November 14, 2018 8:38 AM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: SWTTP Electrical Upgrades Liquidated Damages

Gene,

There is a special provision in the spec regarding liquidated damages. This project will be based on weather conditions and not a deadline. This needs to be addressed don't you feel? Please let me know.
Thanks

Wm. F. Nelson Electric, Inc.
Mark Krieger
Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

From: Jones, Gene
Sent: Monday, November 19, 2018 4:46 PM
To: Mark Krieger (mark@wfnelson.com) <mark@wfnelson.com>
Cc: 'ABiddle@saginaw-mi.com' <ABiddle@saginaw-mi.com>; Jones, Mick <Mick.Jones@tetrattech.com>
Subject: RE: Saginaw WWTP Electrical Upgrades RFI's

Mark- see responses below in red:

From: Mark Krieger <mark@wfnelson.com>
Sent: Monday, November 19, 2018 12:57 PM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: Saginaw WWTP Electrical Upgrades RFI's

Gene,

1.)We are reusing the 3 ½” conduits from the mimic panel to the outdoor switchgear for the Ethernet/fiber optic cable. I don't see a drawing in the set that this length can be taken from. A.)Is this drawing available?

That can be estimated from the site plan drawings. During the mandatory walkthrough, we showed all of the bidders the mimic panel, where the conduits go above the ceiling to the maintenance area, in the maintenance area, the boxes on the wall that go from the outdoor switchgear to the mimic panel. See sheet E-003 and sheet E-300.

2.)A.)Is the 8-strand fiber cable the only controls/communication wiring between MVUS-1 and RSPP shown on drawing I-101? Drawing E-201 shows 6-strand fiber between the MVUS-1 and RSPP. B.)Is it a 6 or 8-strand fiber? It shows on drawing E-300 (2) fiber zip cords and (1) 8-strand fiber going in a 1” conduit. C.)Is this conduit existing? Drawing I-101 show only the (2) duplex fiber zip cords from the RSPP to the MPP (Mimic panel) and no 8-strand or 6-strand fiber cable. D.)Please clarify.

The fiber zip cords The fiber cable from the outdoor switchgear to RSPP is 8 strands. This will be clarified by addendum for the bidders. The 8 strand fiber cable passes thru the mimic panel and goes to the RSPP. The 2 fiber zip cords are for the switch at the mimic panel to go to the RSPP FOPP. The conduit is to be new for the fiber cable and fiber zip cords from the mimic panel to the RSPP as shown on contract drawing E-300.

3.)Drawing E-300 shows a 1” c with (6) #12's and (8) #14's stating MMP. I'm assuming to originates at the mimic panel but where does it go to? A.)Please clarify. This is for powering the stratix switch and panelview power supply from within the existing MPP. We ran spare control wires in addition the No.12 wires. This work is described in notes 1 and 2 on sheet E-300.

4.)My assuming that the Mimic panel work is part of Item #1 on the bid form. A.)Is this correct? Yes.

5.)Drawing E-400 shows the new pad for MVUS-1. The pad thickness is 17” and shows footings below grade. A.)Will the existing pad need to be sawcut for the footings to be installed? Drawing E-302 says the new pad is being poured on top of the existing pad. It also states to pour steps up to the new pad. I'm not sure how the existing wire will be long enough with this added height. C.)What are your thoughts. Drawing E-105 (MVUS-1 elevation drawing) says to pour a 4” thick pad for new switchgear. D.)Please clarify. New footings are shown to be installed. This is the contractors responsibility to install the footing shown. The contractor is to bid to install new wire because of this height increase. That was discussed in detail during the mandatory pre-bid meeting and walkthrough. The reference to the concrete pad on sheet E-105 is a typo and will be clarified by addendum for the bidders.

RFI's 1-5 have several questions in each item number. I have clarified them with letters. – Ok thank you.

Wm. F. Nelson Electric, Inc.
Mark Krieger

Estimator/Project Manager
Office: 989-752-7184
Cell: 989-239-1160
Email: mark@wfnelson.com

Dave, we just specified Myron Zucker, KVAR as noted, Nema 12 enclosure.

We would also accept those being supplied by either Eaton or Square D integral to the new motor control center as an or equal to what is shown.

Gene

From: David Best <dfbest@dfbestco.com>
Sent: Thursday, November 29, 2018 1:31 PM
To: Jones, Gene <Gene.Jones@tetrattech.com>
Subject: FW: City of Saginaw WWTP Electrical Upgrade

Gene,

Do you have a specification for the capacitors?

If you have any questions please feel free to call me at (C) 517-404-7637.

Thank You
David F. Best
D. F. BEST COMPANY, INC.
Electrical Construction Services
Clean Solutions for a changing world.
(O) 517-548-0612, (F) 517-548-0911