

Tom Crowley

From: Tom Crowley
Sent: Tuesday, June 21, 2022 2:10 PM
To: Josh Klug; Seth Johnson
Cc: Dan Ethington
Subject: Summary of Engineers Costs for Rebar Cutting of Top

Josh/Seth,

We have looked at the additional effort for Carollo to provide the detailed inspection, correspondence and review for the request to substitute the current design with a design that allows cutting of the rebar in the top matt. If acceptable, an amendment will be developed with the City to pay for these services through our established contracting means and recovery of OKC's additional costs will be by a deductive change order.

| Basic Services - WC-0948 Rebar Cutting Substitution Effort | Hours | Rate | Fee | Hours | Rate |
|--|----------------|-------|---------|-------|------|
| Inspection of rebar mat prior to cutting rebar | 6 | \$120 | \$720 | 6 | \$ |
| Inspection of rebar mat following rebar cutting | 6 | \$120 | \$720 | 6 | \$ |
| Correspondance with Structural Engineer/ Structural Engineer Review and Approval | 2 | \$120 | \$240 | 2 | \$ |
| Structural Engineer Efforts to review, analyze, and approve cutting of mat | 12 | \$235 | \$2,820 | 12 | \$ |
| Project Management | 2 | \$265 | \$530 | 2 | \$ |
| SUBTOTAL Basic Services - Rebar Cutting Inspection Review Services | \$5,030 | | | | |

Please call me with any questions or concerns the procedure and billing rates utilized are provided in the special provisions:

Excerpt Below:

~~§6)~~^{AD2} Engineers Compensation: Owner and Contractor agree that Owner may include Engineer's Compensation in liquidated damages being withheld from the total Contract Price for any of the following:

- Excessive submittal Reviews in Accordance with Specification Section 01300, Paragraph 1.07, E.. 4.
 - Review of Substitutions in Accordance with Specification Section 01600, Paragraph 1.05, B.8
 - Inspections or Designs Related to correction of Defective Work as specified in Item 13, Paragraph G.
 - All other services identified as requiring payment by the Contractor
- Compensation to Engineer will be provided based upon the following rates:

| Position | Hourly Rate |
|-------------------------|-------------|
| Principle | \$285 |
| Project Manager | \$265 |
| Project Engineer | \$235 |
| Project Discipline Lead | \$195 |
| EIT | \$165 |
| Engineering Tech | \$120 |
| Clerk | \$90 |
| Expenses | At Cost |
| Subconsultants | Rate + 10% |

Tom Crowley

From: Tom Crowley
Sent: Thursday, July 28, 2022 7:48 AM
To: Mark Keller
Cc: Richard Taylor; Dan Ethington
Subject: Re: Roof on Structure #1

Correct but since

- 1) our specs do not allow field cutting
- 2) BRB ignored these and ordered rebar on the top decks specific so they could field cut.
- 3) we caught this in the submittal and worked out a negative change order for the to pay the city for our additional services to inspect and review the rebar prior to placement.
- 4) per the conference call with you and the contractor; we are having Richard inspect the field cuts and provide documentation to you that you can review prior to concrete pour.

Sent from my iPhone

On Jul 28, 2022, at 7:33 AM, Mark Keller <MKeller@carollo.com> wrote:

I am seldom involved with the documentation of field work. That falls under our construction management group. I get a call if there is something out of line that isn't a simple fix, but I rarely, if ever, see documentation of work that is deemed to comply with the requirements of the contract documents.

Mark

From: Richard Taylor <rtaylor@cpyi.com>
Sent: Wednesday, July 27, 2022 2:10 PM
To: Mark Keller <MKeller@carollo.com>; Tom Crowley <TCrowley@carollo.com>
Cc: Dan Ethington <dethington@carollo.com>
Subject: RE: Roof on Structure #1

CAUTION: This email originated from outside Carollo Engineers. Do not open attachments or click links unless you recognize the sender.

Hello Mark,

Thank you for the email and the attachments. I have a similar method/spreadsheet that I use for rebar inspections.

I just got back from the site a few minutes ago, and I will prepare a rebar inspection report based on my observations.

I think what Tom and I were wanting to confirm, is how you want to see/document the process of the field cutting of the bars around the different blockouts. I can walk you through the process that I requested BRB to follow for the field cutting, and then show you the outcome based on my site visit an hour ago.

The rebar for the deck of PCV#1 is cut, and tied in place, and is within clearance tolerances....I just wasn't sure how you wanted to document the process.

Richard Taylor
Water Practice Construction Manager

CAUTION: This email originated from outside Carollo Engineers. Do not open attachments or click links unless you recognize the sender.

Good morning,

Just letting you know that we are set up to pour the roof deck on structure #1 Friday morning at 4:30 A.M. We have a electrical Insp set up for tomorrow and Richard with CP&Y will inspect the rebar this afternoon. If you have any question or concern
Please feel free to contact me.

Thanks
Scott Kolling
BRB Contractors

NCN-01 and CO2.2 Backup

Basic Services WC-0948 Additional Rebar Inspection
NCN-01

| Basic Services - WC-0948 NCN-1 | Hours | Rate | Fee |
|--|-------|-------|-----------------------|
| Inspection of Defective Work | 16 | \$120 | \$1,920 |
| Identification of Bars that require correction | 6 | \$120 | \$720 |
| Correspondance with Structural Engineer/ Structural En | 2 | \$120 | \$240 |
| Structural Engineer Efforts to review, analyze, and deve | 9 | \$235 | \$2,115 |
| Project Management | 4 | \$265 | \$1,060 |
| <i>SUBTOTAL Basic Services - NCN-1</i> | | | <i>\$6,055</i> |

~~5.61~~^{AD2} Engineers Compensation: Owner and Contractor agree that Owner may include Engineer's Compensation in liquidated damages being withheld from the total Contract Price for any of the following:

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| Engineering Tech | \$120 |
| Clerk | \$90 |
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| Subconsultants | Rate + 10% |

UPDATE 8/25/22: Please see attached solution. ALL out of specification hooks are to be cut at the existing concrete surface and new hooks (factory bent to ACI standards) to be doweled in as indicated on the attached Drawing (Attachment E).

Acknowledgement by Contractor

Defective work shall be corrected. Rejected work shall be removed and replaced with work that is not defective. All costs made necessary thereby shall be borne by the Contractor. Payment will not be made for defective or rejected work until amended. Contractor shall notify inspector when defective or rejected work is amended.

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|---------------------|--------------------|--------------|------------|
| Prepared By: | Thomas Crowley, PE | Date: | 08/25/22 |
| Received By: | | Date: | XX/XX/XXXX |