

Scott Boettcher

From: Andrew Kinney <KinneyA@co.thurston.wa.us>
Sent: Wednesday, June 20, 2018 9:29 AM
To: Scott Boettcher
Subject: Proposal for Structural Engineered Platforms in Flood Areas
Attachments: P1_Critter Pads_June 13, 2018.pdf

Scott – here is a **DRAFT** Proposal for the platforms from MC SQUARED, Mike Szramek is who Tim has been talking to from start. The proposal covers all the requirements that Tim and I have including seismic events. If this is acceptable I can contact Mike and have him send a proposal to you or the TC Conservation District. Tim and I would like to review the plans for acceptance by Thurston County. We will each spend 5 to 10 hours on this, I'm checking on how we can bill TC CD but I think we will do the review on our time.

Thoughts, comments?

Andrew

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June 13, 2018

Tim Rubert
2000 Lakeridge Dr. SW
Olympia, WA 98502

RE: Proposal for Structural Engineering Services for Elevated Livestock
Platforms in Flood Areas, Several Counties in Washington

Dear Tim:

Thank you for asking us to provide you with a proposal for the structural engineering for the new elevated livestock platforms that can be constructed in flood areas in western Washington.

The project will be to provide a structural design for modular sized elevated platforms to support livestock during times of flooding in the rural farming community. The idea would be to provide an elevated 20 foot square platform that would support livestock and allow any flood water to pass below. The standard 20 foot square platform could be increased in size by adding additional platforms. The design could be used regionally.

I would expect that the users of these platforms would love input as to what they would be able to build on their property, it would be best to meet with them to discuss options for size, materials, loadings, height above ground, ramps, railings, support by piles or posts on spread footings, typical expected soils at the sites, and a multitude of other stuff.

The design would be based on Puget Sound area seismic events. If these were installed near the ocean, the seismic forces would be larger, resulting in larger foundation sizes.

Our scope of work would be as listed below:

1. Meet with users of these platforms to gather their input for a preliminary design at a central location.
2. Prepare preliminary designs and drawings of a standard module and multiple modules. Distribute these to the users for their comments.
3. Prepare 90% drawings based on comments received from users. Distribute these to the users for their final comments. This could include a meeting at a central location also.
4. Complete design and drawings for regional use.

Since the scope of work would not be accurately defined until meeting with the users, preparing preliminary drawings and receiving comments back, we can work on an hourly basis with a not to exceed fee. Construction site visits, construction administration services, and shop drawings will be considered extra services and billed at our standard hourly rates.

The following is an estimate of the required time for various portions of the design process:

Design	Engr Time	Draft Time
Phase 1	16 Hrs.	
Phase 2	40 Hrs.	32 Hrs.
Phase 3	40 Hrs.	16 Hrs.
Phase 4	24 Hrs.	16 Hrs.
Miscellaneous	<u>16 Hrs.</u>	<u>8 Hrs.</u>
Totals	136 Hrs.	72 Hrs.

Based on hourly costs for engineering at \$140.00 and drafting at \$74.00, the estimated cost for the structural engineering is \$24,368.00.

We will not be performing the following as part of this agreement:

1. Attending pre-construction meetings,
2. Providing more than three sets of bound calculations and structural drawings,
3. Providing construction site visits,
4. Reviewing shop drawings,
5. Writing structural specifications.

We look forward to working with you on these new Elevated Livestock Platforms for western Washington. We would be able to start within 10 days of authorization to proceed. The timing would be dependant upon the meetings with the users and their review time.

If you have any questions, or if I may be of further help, please call me at (360) 754-9339.

Sincerely yours,
MC Squared, Inc.



Mike Szramek, P.E. S.E.
Principal Engineer

Structural Engineering for Elevated Livestock Platforms, Western Washington

The person signing this agreement shall be the person responsible for payment of the stated services. Please initial next to the service you would like us to perform and return a signed copy to MC Squared, Inc.

The undersigned agrees to pay invoice within thirty business days for work performed during the preceding period. Interest of 1½% per month will be charged on 60-day overdue accounts. If payment is not received, or other arrangements made within 60 days of the last project workday, a lien will be filed. A fee of \$90 will be charged for the preparation and filing of such lien and \$90.00 will be charged for the preparation and filing of lien release. If an attorney is employed for collection or if legal action is initiated to recover loss under this agreement, I agree to pay a reasonable attorney's fee in connection therewith. Liability shall be limited to the amount of fee charged. This work order is subject to cancellation by either party upon written notice, PROVIDED that the customer shall be responsible for charges for work already performed, prior to the receipt of said notice.

Structural Engineering based on an hourly basis with a not to exceed fee of \$24,368.00.

Printed Name _____

Billing Address : _____

Signature _____ Date _____

We have sent this agreement by e-mail. Please return a signed copy of this agreement to MC Squared, Inc. Keep a signed copy for your records.

File c:\wp9\My Documents\PROIELEVATED LIVESTOCK PLATFORMS JUNE-2018.wpd