



Memorandum

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT

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Reviewed by:

General Manager

Date:

2-11-22

DATE: February 11, 2022
TO: General Manager
FROM: Senior Engineer
SUBJECT: MRF Maintenance Access Improvements

RECOMMENDATION: That the Board authorize the General Manager to execute a contract with Mathews Mechanical of Newark, CA for Materials Recovery Facility (MRF) Maintenance Access Improvements in the amount of \$153,500 (includes 5% contingency).

BACKGROUND

The new MRF (MRF 2.0) upgrades went operational at the end of August of 2020. These improvements upgraded the MRF system to improve recovery of commodities and increase staff efficiency. In the time since these upgrades went operational, District staff has increasingly gained experience in the operations and maintenance of the new equipment. During that time, District staff identified “hot spot” locations that were prone to frequent material jams and/or required frequent maintenance. These jams translated to significant operational down time for the MRF while maintenance crews put on fall protection harnesses, drove an aerial lift to gain access, established safe work conditions, and finally addressed the situation. Over time the “hot spot” areas were identified and compiled onto a list. The engineering department assessed the “hot spots” and determined where, if any, improvements could be made to increase ease of access, safety, and response time. The engineering team’s approach was to eliminate the fall hazards that required maintenance staff to wear harnesses by providing fall prevention devices (like railings, platforms, or walls). And also, to provide easier access to “hot spots” by adding locking gates, stairs and tie off points that eliminated the need to mobilize an aerial lift. Making these improvements will greatly increase the response time to jams and decrease the time to get the equipment back up and running (aka “downtime”). The proposed improvements will save time, money and ultimately improve the MRF’s production performance.

DISCUSSION

In addition to the equipment manufacturer (BHS), District staff also contacted vendors for both engineering/construction assessments and installation services for the maintenance access improvements. Mathews Mechanical was the only contractor who offered both the engineering and installation services that met the District’s needs for design and installation of the improvements. In addition, Mathews Mechanical also installed numerous fall prevention improvements at the MRF since its original start date. As a result, Mathews Mechanical has the experience with MRWMD’s MRF and its specific needs and operating procedures such that they are the appropriate company to retain for these services.

FINANCIAL IMPACT

The budget proposal provided by Mathews Mechanical for the MRF Maintenance Access Improvements is \$146,171. District staff has added a 5% contingency amount due to the possible need for final engineering or changes during installation for a total budgeted cost of \$153,500 for the scope of work. This was not included in the 2020/21 expense budget. However, expenses are tracking on the order of \$300,000 under budget and net income is tracking above budget and prior YTD amounts. Staff proposes that these MRF improvement costs be incorporated as part of the expense budget and, should the approved expense budget be exceeded at the fiscal year's end, then paid for from the surplus revenues already collected for FY 2021/22.

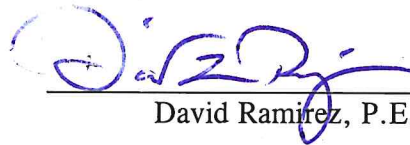
STRATEGIC PLAN

The MRF Maintenance Access Improvements fit under several general policy directives cited in the District's "Pillars of Sustainability" plan.

- People. The improvements provide MRF maintenance staff with the tools they need to do their job. The improved access will enable them to access "hot spots" faster and safer than they had previously.
- Finance. The improvements provide greater "up" time through improved response time to jams making the MRF operate more reliably, which means MRF staff hours can be spent processing material rather than waiting for the system to come back online to continue the recycling activities.

CONCLUSION

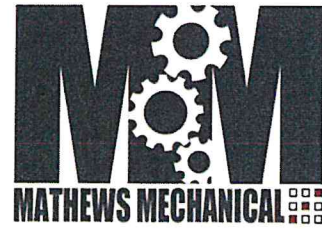
The MRF Maintenance Access improvements will have multiple benefits to the District's MRF staff and its financial performance. This involves greater safety, efficiency of maintenance work in the improvement areas, and 'uptime' at the MRF. Staff therefore recommends that the Board authorize the General Manager to execute a contract for MRF Maintenance Access Improvements with Mathews Mechanical of Newark, CA for \$153,500 (including 5% contingency).



David Ramirez, P.E.

Attachments:
Mathews Mechanical Quote





February 3, 2022

Monterey Regional Waste Management
14201 Del Monte Blvd.
Marina, CA. 93933
ATTN: David Ramirez

Quote: #15305A-SC

Project: Design, Fabricate, and Install various Fall Prevention

Scope:

We will supply the Drafting Labor, Materials, Parts, and Equipment to design, fabricate, and install the various Fall Prevention at the area's we discussed during our visit.

C61:

- We will design and fabricate (1) Ships Ladder and (1) 3'x8' Platform with a gate and handrails.
- Includes columns on both sides with a total of (4) columns.
- Includes powder coating

C58:

- We will design and fabricate (1) 2'x20' Catwalk next to the existing ladder
- Includes a ladder to access the conveyor.
- Includes powder coating

C013:

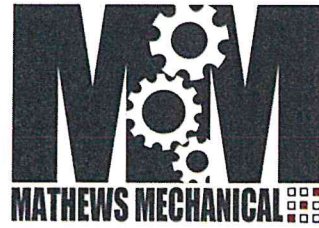
- We will fabricate and install stairs from your existing platform to the C0113 conveyor.
- We will extend the existing platform.
- We will attach a set of stairs with handrailing.
- We will fabricate and install 10' panels on both sides of the conveyor with an access to conveyor.
-

Construction Debris Area:

- We will cut opening approx. 2' with hinged access
- We will design and fabricate an extension to the existing platform approx. 3' with 42" railing.
- We will install (2) weld on D rings for Tie Off points
- Platform and rails come powder coated.

C40:

- We will design and fabricate (1) 11'x3' Platform to reach over conveyor.
- Includes approx. 5' Ships Ladder on left to Catwalk
- Includes Powder Coating



Note:

- This pricing is based on all work to be done consecutive with single mobilization.
- It is assumed that the area's we will be working in will be free and clear at the area's we will be working at during the time of installation.
- Pricing includes travel expenses and rental equipment for installation.

Exclusions:

- Permits or Special Inspections

Pricing for the project will be:

Materials	\$44,071.00
Rental:	\$3,113.00
Travel:	\$4,657.00
Drafting Labor:	\$16,000.00
Shop Labor:	\$39,305.00
Installation Labor:	\$30,687.00
Estimated Tax	<u>\$8,338.00</u>
Total:	\$146,171.00

This proposal assumes straight time wage rates for installation time. Any other wage rate considerations may affect pricing.

If you have any questions, please give me a call at (510) 475-9950. Thank you again for the opportunity to work with you. I look forward to hearing from you soon.

Please note: Due to ongoing volatility in the supply and shipping chains, our suppliers are unwilling to hold quoted pricing for the historical time frames, and in some cases the pricing has doubled in less than 30 days, with pricing commitments typically running at 7 to 14 days maximum. To accommodate these fluctuations, we reserve the right to review and revise materials & shipping prices at the time of order placement.

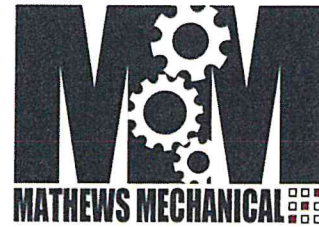
Sincerely,

Steve Cribbs

Steve Cribbs
Sales Representative
Mathews Mechanical
(510)475-9950
C: (510)314-7473
Scribbs@mathmec.com

Chuck McCuin

Chuck McCuin
Estimator
Mathews Mechanical
(510)475-9950
C: (510)274-8871
cmccuin@mathmec.com



This quote is based on clear access to the worksite during normal work hours; 7:30AM to 4:30PM, Monday thru Friday.

Any unforeseen equipment or materials not addressed in this quote that is required for the work may result in an increase in cost.

Delivery time will be determined upon receipt of order.

Our terms are 50% deposit, 2/10 with balance due net 20 days after delivery.

*Applicable tax and shipping is **not** included in this quote and is the responsibility of the buyer.*

Any deviation from the proposed plan may result in a change of cost.

Our standard warranty for this type work is 90 days on workmanship with materials as warranted by the manufacturer.

All drawings pertaining to this project created by Mathews Mechanical are property of Mathews unless contracted otherwise.

All engineering is assumed to be proprietary and will remain in Mathews' ownership unless clearly agreed to in this or another contract.