### J.F. Shea Construction, Inc.

General Contractors License No. 769989

July 03, 2024

Mission Springs Water District 66575 Second Street Desert Hot Springs, CA 92240

Attention: Lucas Rathe – Resident Engineer Reginal Water Reclamation Facility Project No. 17-002-S

Subject: Potential Change Order No. 082 – Adverse Weather Direct Operations Inefficiencies

Dear Mr. Rathe,

J.F. Shea Construction, Inc. (JFS) has been in discussion with Mission Springs Water District (MSWD) regarding the issues that have impacted our ability to complete the project per the original schedule. There are several significant unforeseen events that have contributed to the overall project delays. This summary is intended to provide facts related to the issues and a guideline to acknowledging merit for these impacts.

In accordance with the bidding documents and contract (Reference Pre-bid Q&A #130, 224, 269), a 15working day (WD) allowance was designated for adverse weather. The contractual project duration of 600 calendar days through Substantial Completion equates to 412 working days. Based on the 15 WD allowance, <u>3.6%</u> of the contractual working days would have been expected to be impacted by adverse weather.

This project has experienced an unprecedented and unforeseen amount of adverse weather days. Please reference Exhibit 1 - 17002S-MSWD-RWRF Adverse Weather Days Summary. A total of 77 WD have been affected by adverse weather, 62 WD of which can be claimed as unforeseen. The 62 WD are equivalent to a <u>15.1%</u> unplanned weather impacts to available working days to construct the project, thereby delaying project completion by an indetermined amount.

JFS has evaluated the effects of adverse weather impacts to operational direct cost and has determined that these events have caused significant direct cost losses due to the inability to perform work safely and at a cost-effective production rate. In most cases, high winds caused grounding of cranes based on manufacturer safety guidelines. Additionally, general project safety risks such as eye injuries and materials storage became increasingly difficult to control during these events.

JFS has compiled actual direct cost data for the project and used an inefficiency factor to develop a value for the operational impacts. Please reference Exhibit 2 – 17002S-MSWD-RWRF Adverse Weather Impacts – Direct Operations Inefficiencies. Note, this cost information is confidential and must not be shared outside of your organization without explicit approval from JFS.

In accordance with General Conditions Section 2.13, J.F. Shea Construction, Inc. is hereby providing a Lump Sum Cost Proposal in the amount of \$428,086.00 for the Adverse Weather Direct Operations Inefficiencies. Please reference Exhibit 3 – 17002S-MSWD-RWRF Adverse Weather Impacts Cost Summary.

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Per General Conditions Section 2.13, J.F. Shea Construction, Inc. is requesting issuance of a Change Order in order to formalize this change request. Please contact me at (909) 824-4293 if you have any questions or require any additional information.

Sincerely,

Rafael Torres Project Manager J.F. Shea Construction, Inc.

Attachments:

- 1. Exhibit 1 17002S-MSWD-RWRF Adverse Weather Days Summary
- 2. Exhibit 2 17002S-MSWD-RWRF Adverse Weather Impacts Direct Operations Inefficiencies
- 3. Exhibit 3 17002S-MSWD-RWRF Adverse Weather Impacts Cost Summary

# EXHIBIT 1

# 17002S-MSWD-RWRF

### 17002S-MSWD-RWRF Adverse Weather Days Summary

| Date of    | Non Work Dave                | Cummulative    |         | Cummulative     |
|------------|------------------------------|----------------|---------|-----------------|
| Occurance  | Non-Work Days<br>This Notice | Allowable Non- | Туре    | Actual Non-Work |
| Occurance  | This Notice                  | Work Days      |         | Days            |
| 4/14/2022  | 1                            | 0              | Wind    | 1               |
| 10/7/2022  | 1                            | 0              | PM-10   | 2               |
| 11/28/2022 | 1                            | 0              | Wind    | 3               |
| 12/1/2022  | 1                            | 0              | Wind    | 4               |
| 1/5/2023   | 1                            | 0              | Rain    | 5               |
| 1/16/2023  | 1                            | 0              | Rain    | 6               |
| 1/17/2023  | 1                            | 0              | Wind    | 7               |
| 1/23/2023  | 1                            | 0              | Wind    | 8               |
| 2/14/2023  | 1                            | 0              | Wind    | 9               |
| 2/28/2023  | 1                            | 0              | Wind    | 10              |
| 3/1/2023   | 1                            | 0              | Wind    | 11              |
| 3/8/2023   | 1                            | 0              | Wind    | 12              |
| 3/13/2023  | 1                            | 0              | Wind    | 13              |
| 3/15/2023  | 1                            | 0              | Rain    | 14              |
| 3/21/2023  | 1                            | 0              | Rain    | 15              |
| 3/23/2023  | 1                            | 1              | Rain    | 16              |
| 4/3/2023   | 1                            | 2              | Wind    | 17              |
| 4/12/2023  | 1                            | 3              | Wind    | 18              |
| 4/13/2023  | 1                            | 4              | Wind    | 19              |
| 4/14/2023  | 1                            | 5              | Wind    | 20              |
| 4/17/2023  | 1                            | 6              | Wind    | 21              |
| 4/18/2023  | 1                            | 7              | Wind    | 22              |
| 4/19/2023  | 1                            | 8              | Wind    | 23              |
| 4/24/2023  | 1                            | 9              | Wind    | 24              |
| 5/1/2023   | 1                            | 10             | Wind    | 25              |
| 5/2/2023   | 1                            | 11             | Wind    | 26              |
| 5/3/2023   | 1                            | 12             | Wind    | 27              |
| 5/4/2023   | 1                            | 13             | Wind    | 28              |
| 5/5/2023   | 1                            | 14             | Wind    | 29              |
| 5/8/2023   | 1                            | 15             | Wind    | 30              |
| 5/9/2023   | 1                            | 16             | Wind    | 31              |
| 5/10/2023  | 1                            | 17             | Wind    | 32              |
| 5/11/2023  | 1                            | 18             | Wind    | 33              |
| 5/30/2023  | 1                            | 19             | Wind    | 34              |
| 5/31/2023  | 1                            | 20             | Wind    | 35              |
| 6/1/2023   | 1                            | 21             | Wind    | 36              |
| 6/5/2023   | 1                            | 22             |         |                 |
| 6/6/2023   | 1                            | 23             |         |                 |
| 6/7/2023   | 1                            | 24             | Wind 39 |                 |
| 6/8/2023   | 1                            | 25             | Wind    | 40              |
| 6/9/2023   | 1                            | 26             | Wind    | 41              |
| 6/12/2023  | 1                            | 27             | Wind    | 42              |

11 rain/PM 10 days

29 Wind days from 4/4/24 to 5/31/24

| 6/13/2023  | 1 | 28 | Wind  | 43 |
|------------|---|----|-------|----|
| 6/14/2023  | 1 | 29 | Wind  | 44 |
| 6/15/2023  | 1 | 30 | Wind  | 45 |
| 6/16/2023  | 1 | 31 | Wind  | 46 |
| 6/19/2023  | 1 | 32 | Wind  | 47 |
| 6/20/2023  | 1 | 33 | Wind  | 48 |
| 6/21/2023  | 1 | 34 | Wind  | 49 |
| 6/22/2023  | 1 | 35 | Wind  | 50 |
| 6/26/2023  | 1 | 36 | Wind  | 51 |
| 6/27/2023  | 1 | 37 | Wind  | 52 |
| 6/28/2023  | 1 | 38 | Wind  | 53 |
| 7/3/2023   | 1 | 39 | Wind  | 54 |
| 7/5/2023   | 1 | 40 | Wind  | 55 |
| 7/6/2023   | 1 | 41 | Wind  | 56 |
| 7/7/2023   | 1 | 42 | Wind  | 57 |
| 7/10/2023  | 1 | 43 | Wind  | 58 |
| 7/11/2023  | 1 | 44 | Wind  | 59 |
| 7/12/2023  | 1 | 45 | Wind  | 60 |
| 7/13/2023  | 1 | 46 | Wind  | 61 |
| 7/14/2023  | 1 | 47 | Wind  | 62 |
| 7/31/2023  | 1 | 48 | PM-10 | 63 |
| 8/9/2023   | 1 | 49 | Wind  | 64 |
| 8/10/2023  | 1 | 50 | Wind  | 65 |
| 8/11/2023  | 1 | 51 | Wind  | 66 |
| 8/21/2023  | 1 | 52 | Rain  | 67 |
| 8/22/2023  | 1 | 53 | Rain  | 68 |
| 9/20/2023  | 1 | 54 | Wind  | 69 |
| 9/21/2023  | 1 | 55 | Wind  | 70 |
| 10/10/2023 | 1 | 56 | Wind  | 71 |
| 10/11/2023 | 1 | 57 | Wind  | 72 |
| 10/23/2023 | 1 | 58 | Wind  | 73 |
| 10/26/2023 | 1 | 59 | Wind  | 74 |
| 11/7/2023  | 1 | 60 | Wind  | 75 |
| 2/5/2024   | 1 | 61 | Rain  | 76 |
| 2/6/2024   | 1 | 62 | Rain  | 77 |

## EXHIBIT 2

# 17002S-MSWD-RWRF

### Adverse Weather Impacts – Direct Operations Inefficiencies

#### Actual Cost Data:

| Total Project Labor Cost | \$8,945,563   |
|--------------------------|---------------|
| Indirect Labor Cost      | (\$2,122,934) |
| Direct Labor Cost        | \$6,822,629   |

| Total Project Equipment Cost | \$2,830,636        |
|------------------------------|--------------------|
| Indirect Equipment Cost      | <u>(\$306,458)</u> |
| Direct Equipment Cost        | \$2,524,178        |

Total Direct Labor & Equipment Cost \$9,346,807

(Cost data based on actual cost as detailed in Water Division Job Cost Report – February Monthly thru 03/03/24)

#### Adverse Weather Impact Analysis:

| Project Duration                 | 412 WD              |
|----------------------------------|---------------------|
| Adverse Weather Allowance        | <u>15 WD</u>        |
| Expected Adverse Weather Impacts | 3.6% [15 WD/ 412WD] |

| Project Duration                  | 412 WD   |
|-----------------------------------|--|
| Unplanned Adverse Weather         | <mark>25 - <del>62 W</del>D [77 WD - 15 WD]</mark> |
| Unplanned Adverse Weather Impacts | 15.1% [62 WD/ 412WD] 6.07%                         |

| Adverse Weather Inefficiency Factor         | ~25.0%                                      | 12.5%      |
|---|---|------------|
| Unplanned Adverse Weather Impacts           | 15.1%                                       |            |
| Unplanned Impacts to Direct Cost Factor     | <b>3.775%</b> [~25.0% x 15.1%] <b>1.52%</b> | 0.759%     |
| (Contractual completion time is 600 calenda | r days which is equivalent to 412 wor       | king days) |

### Adverse Weather Cost Impact Summary:

| Total Direct Labor & Equipment Cost     | \$9,346,807         |          |
|---|---------------------|----------|
|   | Х                   |          |
| Unplanned Impacts to Direct Cost Factor | <u>3.775%</u> 1.52% | 0.759%   |
| Unplanned Impacts to Direct Cost        | <u>\$352,842</u>    | \$70,918 |

| JF Shea Con  | struction, Inc.                        |          |          |          |           |             |             |             |             |             |             |
|--------------|--|----------|----------|----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| Water Divis  | ion Job Cost Report                    |          |          |          |           |             |             |             |             |             |             |
| GL Posting   | Dates: 02/10/24- Through -03/08/24     |          |          |          |           |             |             |             |             |             |             |
| For costs in | curred: February Monthly thru 03/03/24 |          |          |          |           |             |             |             |             |             |             |
|              |  |          |          |          |           |             |             |             |             |             |             |
|              |  |          | Estimate | Estimate | Estimate  | Job to Date |
| Cost Code    | Cost Code Description                  | Uom Type | Dollars  | Units    | Unit Cost | % Compl.    | Units       | Dollars     | Bdgt Earned | Unit Cost   | Gain / Loss |
| 13658        | Mission Springs RWRF                   |          |          |          |           |             |             |             |             |             |             |
|              |  |          |          |          |           |             |             |             |             |             |             |
| Job Code     |  |          |          |          |           |             |             |             |             |             |             |
| L            | Labor                                  |          |          |          |           |             |             | 8,945,563   |             |             |             |
| Т            | Supplies                               |          |          |          |           |             |             |             |             |             |             |
| I            | Equipment Renl - Internal              |          |          |          |           |             |             | 2,163,442   |             |             |             |
| 0            | Equipment Rent - External              |          |          |          |           |             |             | 667,194     |             |             |             |
| М            | Permanet Materials                     |          |          |          |           |             |             |             |             |             |             |
| S            | Subcontracts                           |          |          |          |           |             |             |             |             |             |             |

# EXHIBIT 3

## 17002S-MSWD-RWRF

#### JF Shea Construction Regional Water Reclamation Facility MSWD Project No. 17-002-S

| PCO/ CO:    | PCO-082 |  |                    | DATE                 |
|-------------|---------|--|--------------------|----------------------|
| DESCRIPTION | :       | Adverse Weather Direct Operations Inefficiencies | Issued:<br>Priced: | 04/30/24<br>07/01/24 |
|             |         |  |                    |                      |

| Item | Description                    | UM                         | Qty | MH/unit | Total<br>MH | F     | Rate     |    | al Labor<br>Cost | Material<br>Taxable |               | Other<br>Non-Tax |    |    | Sub |    |            | Total Cost              |
|------|--------------------------------|----------------------------|-----|---------|-------------|-------|----------|----|------------------|---------------------|---------------|------------------|----|----|-----|----|------------|-------------------------|
| 1    | JFS Direct Cost Inefficiencies | LS                         | 1   |         |             | \$ 35 | 2,842.00 | \$ | - \$ - \$        |                     | \$ 352,842.00 | \$               | -  | \$ | -   | \$ | 352,842.00 |                         |
| 2    |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 3    |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 4    |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 5    |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 6    |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 7    |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 8    |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 9    |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 10   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 11   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 12   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 13   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 14   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 15   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 16   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 17   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 18   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 19   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
| 20   |                                |                            |     |         |             | \$    | -        | \$ | -                | \$                  | -             | \$-              | \$ | -  | \$  | -  | \$         | -                       |
|      |                                |                            |     |         |             |       |          |    |                  |                     |               |                  |    |    |     |    |            |                         |
|      |                                | SUBTOTAL                   |     |         | 0           |       |          | \$ | -                | \$                  | •             | \$ 352,842.00    | \$ | -  | \$  | •  | \$         | 352,842.00              |
|      | Sales Tax 7.75%                |                            |     |         |             |       |          |    |                  | \$                  | -             |                  |    |    |     |    | \$         | -                       |
|      |                                | SUBTOTAL                   |     |         |             |       |          | \$ | -                | \$                  | -             | \$ 352,842.00    | \$ | -  | \$  | -  | \$         | 352,842.00              |
|      | MARKUP (Profit Only)           |                            |     |         |             |       |          | •  |                  |                     |               |                  |    |    |     |    |            |                         |
|      | Labor 10%<br>Materials 10%     |                            |     |         |             |       |          | \$ | -                | \$                  |               | \$ 52,926.30     |    |    |     |    | \$<br>\$   | -<br>52,926.30          |
|      | Equipment 10%                  |                            |     |         |             |       |          |    |                  | Ψ                   |               | ÷ 02,020.00      | \$ | -  |     |    | \$         | -                       |
|      | Subcontractor 5%               |                            |     |         |             |       |          |    |                  |                     |               |                  |    |    | \$  | -  | \$         | -                       |
|      | G                              | SUBTOTAL<br>&A COST (5.5%) |     |         |             |       |          | \$ | -                | \$                  | -             | \$ 52,926.30     | \$ | -  | \$  | -  | \$<br>\$   | 405,768.30<br>22,317.26 |

#### Total Cost

\$ 428,086.00

1. Reference Exhibit 2 for cost details.

2.

3.

Notes: