

**WEST SOUND UTILITY DISTRICT
RESOLUTION 671-17**

**A RESOLUTION OF THE
WEST SOUND UTILITY DISTRICT BOARD OF COMMISSIONERS
AMENDING A PROFESSIONAL SERVICES CONTRACT
WITH MEAD & HUNT, INC. TO CONDUCT ENGINEERING
SERIVCES FOR THE SKWRF DEWATERING PROJECT**

WHEREAS, the District executed a contract on March 6, 2017, with Mead & Hunt, Inc. to perform engineering service for the SKWRF dewatering equipment project in an amount not to exceed \$26,340; and

WHEREAS, based on findings from the initial work conducted by Mead & Hunt, SKWRF staff have determined that additional structural analysis for the centrifuge replacement project; and

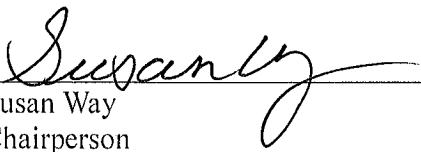
WHEREAS, based on the revised scope of work, Mead & Hunt have determined that an additional \$3,900 is necessary to cover the revisions to their professional services agreement; **NOW, THEREFORE**,

THE BOARD OF COMMISSIONERS OF WEST SOUND UTILITY DISTRICT HEREBY RESOLVES:

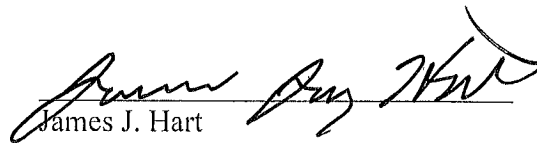
Section 1. The Board of Commissioners hereby approves the attached contract amendment (Exhibit "A") and revised scope of work from Mead & Hunt, Inc. to preform engineering services for the dewatering equipment project for an additional amount of \$3,900, and the Board further authorizes the General Manager to sign the attached contract amendment.

APPROVED and ADOPTED by the Board of Commissioners of West Sound Utility District at a Board meeting scheduled on July 10, 2017.

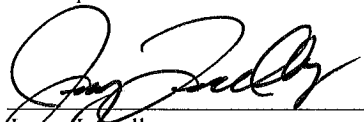
WEST SOUND UTILITY DISTRICT
Kitsap County, Washington



Susan Way
Chairperson



James J. Hart
Vice Chairperson



Jerry Lundberg
Secretary



Contract Amendment

6/23/2017

Randy Screws
West Sound Utility District
1165 Beach Drive E.
Port Orchard, WA 98366

Project Name: Dewatering Improvements
Project Location: South Kitsap Water Recl. Facility
Project number: 4511300-170444.01
Mead & Hunt Manager: Shannon Saramaa

Subject: Amendment No. 1

Dear Mr. Screws:

The above-referenced PROJECT requires an Amendment. The work in this Amendment is in addition to the Scope of Services stated in the original contract between the CLIENT West Sound Utility District and the CONSULTANT (Mead & Hunt, Inc.) dated 2/28/2017.

The CLIENT agrees that the CONSULTANT shall provide professional consulting services for the PROJECT as set forth in this Amendment and the CLIENT shall provide payment for those services as provided for in this Amendment.

A detailed description of our understanding of the Amended PROJECT Scope of Services, Schedule, and Compensation is provided below.

Reason for Amendment

The original Scope of Services was limited to structural analysis and drafting related to the existing flooring system, and excluded review and evaluation of the supporting columns and wall systems. Through analysis of the floor system, the existing floor beams were found to have adequate strength to support the new equipment in the configurations indicated. However, the floor system is near capacity. The existing beams will see a significant load increase as part of this project. In previous years when the Sharples centrifuge was added, three supplemental columns were added below beams at the lower floor on the east side. Two beams north of these three column-supported beams are now heavily loaded, and the existing CMU wall supporting these beams needs further evaluation and likely strengthening. The increase in load of two of the above-mentioned northern beams without column support requires further evaluation since the reinforcing in the wall supporting the beams is unknown. Before the equipment is placed on the floor, this additional analysis should be performed and any strengthening required should be implemented.

During the site visit we noted that two lower level Concrete Masonry Unit (CMU) wing walls at the north side of the bay were not anchored at the top of the wall, as gaps could be seen between the

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walls and floor beam. Priority should be placed on anchorage of the tops of the north lower floor CMU walls.

The existing Flottweg centrifuge that is being removed as part of this project has a chute opening directly below the unit. As the design has progressed with the manufacturer, the decision has been made that this opening will no longer be needed with the revised equipment layout. The new screw press will also not be re-using the existing drain penetration for the centrifuge. Closure for these openings will need to be detailed and added to the drawings.

Strengthening of the existing flooring system is required to support the new screw press. One of the proposed W12x16 floor members conflicts with the existing 4" drain from the Huber Disk Thickener. Through discussions with the District, we understand this gravity drain cannot be relocated. Additional clearance will be needed for the drain, which will require resizing of the beam or additional coping, which will need to be detailed on the drawings.

Lastly, following completion of the structural analysis and drawings, the proposed conveyor was shortened. The structural analysis, drawings and anchorage details will need to be updated to reflect the modification.

Amended Scope of Services

The Scope of Services for the PROJECT is amended as follows:

- Analyze and add drawing details for supporting beams identified as #6 and #7 in M&H 5/11/17 Technical Memorandum. Proposed solution includes adding two (2) new columns to match the existing column supports, similar to strengthening implemented during previous projects.
- Add anchorage details for stabilizing the tops of the north lower floor CMU walls.
- Design and add drawing details identifying closure of the unused chute and drain penetrations in the floor.
- Revise the proposed 12x16 beam size to accommodate existing 4" drain from Huber Disk Thickener. Update the structural model and drawings accordingly.
- Update structural model and drawings to reflect shortened conveyor and reduced loads.
- Miscellaneous:
 - Add a note to reference the existing drawing for the "catwalk" area which was not evaluated. The existing drawing indicates 100 PSF floor live load in this area.
 - Adjust existing 6x9 brace 8" to east on the drawing, to match existing conditions.
 - Show location of proposed floor penetration for the screw press drain
 - Add locations for tote storage (live loads) on the drawing that have been included in the structural model.

Deliverables:

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- Revised 11X17 Drawings; PDF and DWG files transmitted electronically

Amended Schedule

Mead & Hunt proposes the following revised dates to complete the work for this PROJECT:

- Task 2 revised end date - 7/14/2017

Amended Compensation

Form of compensation for work in this Amendment will be in accordance with the *Terms and Conditions* of the existing CONTRACT. The West Sound Utility District will pay Mead & Hunt an increase of \$3900 for Task 2, for the work performed under this Amendment. This Amendment results in a revised contract amount of \$ 30,240 for the total PROJECT.

Amended Responsibilities of West Sound Utility District

In addition to those responsibilities listed in the original CONTRACT and previous amendments (if applicable), this Amendment is based on West Sound Utility District performing or providing the following:

- Updated conveyor CAD drawings and loads
- Available data, drawings and information for wall design in the area of the proposed column supports

Authorization for Amendment

The Amended Scope of Services, Schedule, and Compensation stated in this amendment are valid for a period of thirty (30) days from date of submission. If authorization to proceed is not received during this period, this amendment may be reviewed and modified by Mead & Hunt.

Signatures of authorized representatives of West Sound Utility District and Mead & Hunt shall amend the existing Agreement (original CONTRACT and all previous amendments, if applicable) between the two parties, and receipt of one signed copy shall be considered authorization to proceed with the work described in this Amendment. All services will be performed in accordance with the *Terms and Conditions* of the original CONTRACT and amendment, if applicable. If a signed copy of this Authorization is not received by Mead & Hunt, Inc. within seven (7) days from the date of issuance, Mead & Hunt, Inc. may stop work on the above services.

Respectfully submitted,

MEAD & HUNT, Inc.



Shannon Saramaa, P.E.
Water/Wastewater Engineer

Accepted by: WEST SOUND UTILITY
DISTRICT

Approved by: MEAD & HUNT, INC.

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

*The above person is authorized to sign for Client
and bind the Client to the terms hereof.*

Date: _____

Date: _____