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MEETING DATE: February 10, 2026

STAFF PERSON RESPONSIBLE: Zachary Humbles, P.E., Special Projects Engineer

DESCRIPTION: Professional Services Contract with Water and Earth Technologies, for the 2026 Flood Protection Infrastructure Hydraulics & Hydrology Operations & Maintenance Project in the Amount of \$248,010.00, Douglas County Project Number SP 2026-001.

SUMMARY: The Project will enable Douglas County to continue to operate the gauge network, along with related flood protection infrastructure (dams, for example) require on-going technical support. Economizing the antiquated or redundant infrastructure is a priority. As part of this effort, multiple agencies, boards, and, in some instances, public outreach generate the need to develop complex, multifaceted design solutions that respect a myriad of considerations. Advanced hydraulic and hydrologic study and modeling is required to satisfy these requirements which include fully, but are not limited to, 2D (SRH) SEDCAD flow modeling to determine water surfaces elevations base flood elevations for a wide variety of events, Federal Emergency Management Agency permitting, US Army Corps of Engineers 404 and related permitting, city and county Ordinary High Water Mark boundary determinations, Mile High Flood District coordination, US Fish & Wildlife habitat impacts and wetland modeling. An immediate application of the advanced Hydraulics & Hydrology studies is the Douglas County Public Works Engineering Dam Decision teams' interest in ensuring that dam Operations & Maintenance, modification, and related efforts create no impact or enable mitigation design.

Water and Earth Technologies was selected based on their proven performance history serving Douglas County with excellent results and sustaining gauge data delivery through a broad network of remote gauges. In addition, they also provide a very cost-competitive suite of analytical services to inform the continued economization of the same network. There are only two responsive gauge network operators in the front range, and only one of them also has an in-house suite to support infrastructure reduction modeling. Funding for this contract will come from BU 800506, Fund 200.

RECOMMENDED

ACTION:

Approval of the Professional Services Contract (PCS) with Water and Earth Technologies (WET), for the 2026 Flood Protection Infrastructure Hydraulics & Hydrology Operations & Maintenance Project in the amount of \$248,010, Douglas County Project Number SP 2026-001.

REVIEW:

Kristina Mann	Approve	1/28/2026
Jeff Garcia	Approve	1/30/2026
Christie Guthrie	Approve	1/30/2026
Doug DeBord	Approve	2/4/2026

ATTACHMENTS:

Contract - Water and Earth Tech - Flood Gauge