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April 9, 2026

BCC Agenda Item: _____

Board of County Commissioners
Acting as the governing body of Water Environment Services
Clackamas County

Approval of an Amendment to a Contract with Tapani for Intertie 2 Force Main Project design refinements. Amendment Value is \$696,867.07 and no time increase. Total Contract Value is \$16,164,042.57 for 2 years. Funding is through WES Sanitary Sewer Construction Funds. No County General Funds are involved.

Previous Board Action/Review: Original Contract #9933 approved September 17, 2024.

Performance Clackamas: 1. This project supports WES' strategic plan to upgrade WES' infrastructure to ensure the sustainable delivery of reliable, high-quality, and climate-resilient clean water services that support the growth and vitality of our communities, natural environment, and economy.

2. This project supports the County's Strategic Priorities of Strong Infrastructure, Vibrant Economy, and Safe, Secure and Livable Communities.

Counsel Review: Yes

Procurement Review: Yes

Contact Person: Jeff Stallard

Contact Phone: 503-742-4694

EXECUTIVE SUMMARY: This contract amendment addresses a series of design refinements, field-driven adjustments, and owner-requested changes identified during construction of the Intertie 2 Force Main Project. The updates primarily include modifications to the force main alignment and depth to resolve unforeseen conflicts with existing underground utilities, incorporation of updated traffic control and permitting requirements from Clackamas County, and refinements to system components to improve long-term operability and maintainability. These changes are typical for complex underground infrastructure projects and are required to maintain safety, regulatory compliance, and system reliability.

The amendment also includes coordination with adjacent construction activities at the Intertie 2 Pump Station Expansion Project, adjustments to materials and installation approaches, and a negotiated cost share for increased soil management associated with site conditions encountered during construction.

RECOMMENDATION: Staff recommends that the Board of County Commissioners of Clackamas County, acting as the governing body of Water Environment Services, approve Amendment #1 for Contract #9933 with Tapani, Inc. for design refinements for the Intertie 2 Force Main Project.

Respectfully submitted,

Greg Geist
Director, WES

Attachment: Amendment #1, Contract #9933 Tapani, Inc.

For Filing Use Only

**AMENDMENT #1
TO THE CONTRACT DOCUMENTS WITH TAPANI, INC.
FOR INTERTIE 2 DIVERSION FACILITY - 30" FORCE MAIN IMPROVEMENTS PROJECT
Contract #9933**

This Amendment #1 is entered into between **Tapani, Inc.** ("Contractor") and Water Environment Services ("Owner") and shall become part of the contract documents entered into between both parties on **September 19, 2024** ("Contract").

The Purpose of this Amendment #1 is to make the following changes to the Contract:

- ARTICLE 1 – WORK, Section 1.01** is hereby amended as follows:

Owner has authorized additions to Work due to unforeseen existing conditions through the course of construction. The additional Work is attached as Exhibit "A" to this Amendment #1 and hereby incorporated by reference.

- ARTICLE 5 – CONTRACT PRICE** is hereby amended as follows:

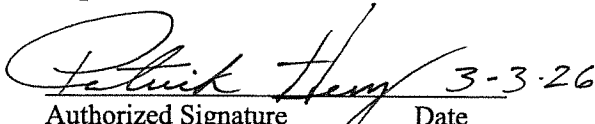
Owner authorizes additional compensation of \$696,867.07 for the additional work described in Exhibit "A" to this Amendment #1. The maximum compensation authorized under this Contract shall not exceed \$16,164,042.57.

ORIGINAL CONTRACT	\$ 15,467,175.50
<u>AMENDMENT #1</u>	<u>\$ 696,867.07</u>
TOTAL AMENDED CONTRACT	\$ 16,164,042.57

Except as expressly amended above, all other terms and conditions of the Contract shall remain in full force and effect. By signature below, the parties agree to this Amendment #1, effective upon the date of the last signature below.

Tapani, Inc.

Water Environment Services

 3-3-26
 Authorized Signature Date
Patrick Herz 3-3-26
 Printed Name

 Signature Date

Name: _____

Title: _____

Approved for Legal Sufficiency


 03/16/2026
 County Counsel Date

Exhibit A
Additional Work

Item	Subject	Date Submitted	Agreed Cost	Reason	Comments
1	WCD 02 - Changes to Connection at Tri-City	3/19/2025	\$ 6,025.00	Design Error/Omission	WCD #2 is required due to changes in the Tri-City yard piping configuration to be installed for adjacent, concurrent IT2 Pump Station project. Contractor to increase depth of installation of 30-inch DI SSFM piping from horizontal bend at STA F16+84 to connection to Tri-City Yard Piping (anticipated to be previously installed by others) at F18+10 by approximately 0-feet to 1.6-feet for approximately 126-linear feet.
2	WCD 03 - Changes to Drain Valve Assemblies	3/19/2025	\$ 5,415.83	Design Error/Omission	WCD #3 is required due to changes to drain piping at IT2 Pump Station and to Tri-City yard piping, both to be installed by others for adjacent, concurrent IT2 Pump Station project. Contractor to revise drain piping configuration for force main connection to existing drain valve assembly at STA A0+48. Increase drain piping install depth for force main drain valve assembly connection to existing influent manhole at STA F17+83 (in Agnes Avenue, located adjacent to Tri-City Wastewater Treatment Plant, shown in Detail 2) to accommodate deeper install for 30" SSFM piping in Agnes Avenue as described in WCD #2. It is assumed that install depth for drain valve piping will increase by approximately 1.6' to 1.0'.
3	WCD 04 - Changes to Tracer Box Detail	3/24/2025	\$ 11,078.20	Owner Preference	WCD #4 is required to specify in-roadway tracer wire access boxes, and to clarify requirements of the Drawings and the Technical Specifications as they relate to tracer wire access box locations and installation. Required spacing for tracer wire test boxes are changed from "per manufacturer's recommendations" to "at ends of SSFM segments, and every 500 LF (max spacing) along alignment". Off-roadway locator station and locate boxes specified replaced with in-roadway valve can access with revised 4" PVC pipe wire loop termination. Grounding anode (Copperhead Industries, ANO-12) specified; specifications allude to a grounding anode with ground wire, but additional details were provide to clarify inclusion of this item and installation instructions.
4	WCD 05 - Existing Drain Valve Replacements	11/24/2025	\$ 107,725.00	Owner Preference	Field reconnaissance conducted by WES Operations staff indicated that there are a number of 6-inch gate valves associated with existing drain valve assemblies for the IT2 FM that are inoperable and will require replacement. WES has decided to replace these existing gate valves with plug valves. Existing drain valve assemblies, including gate valves must be fully functional to allow full draining of existing 20" SSFM (and 30" SSFM). Contractor to remove 6-inch gate valves associated with drain valve assemblies (DVA's) connected to existing 20" and 30" SSFM's at six locations listed on the WCD form and replace with 6" plug valves approximately as shown on "WCD #5 – Existing Drain Valve Replacements (Markup Figure)".
5	WCD 06 - Traffic Control Plan Revisions	11/24/2025	\$ 69,771.00	Permit Compliance	Contractor to incorporate Clackamas County DTD comments pertaining to road closure and detour plans for SE Johnson Road and SE Clackamas Road/SE McKinley Avenue as shown on markups of Sheets TC-3, TC-4, and TC-5, which include deployment of portable changeable message signs (PCMS). Regarding closure and detour plan for SE Cason Road (Sheet TC-6), Clackamas County DTD also commented "As with the other stages, you will probably want to plan for at least a couple of PCMS's (to be deployed)."
6	WCD 07 - Flagging for Road Closure at Sabin-Schellenberg School	11/24/2025	\$ 21,102.81	Owner Preference	Per North Clackamas School District's (NCSD) request, Contractor to provide flaggers at the ends of the work zone for the planned closure along SE Johnson Rd as required to assist in coordinating periodic access throughout the day to Sabin-Schellenberg School (SSC) for students and faculty while the school is in session. Contractor to coordinate with NCSD and WES to limit the number of days in which this added traffic support provision is needed to supplement the road closure by adjusting bus and personal vehicle access routes as necessary to avoid the need for school related traffic to travel through the closure sections and adjacent to the active work site, where possible. Contractor to provide the proposed cost for providing flagging at road closure for SSC per this WCD as a per flagging hour unit cost. Contractor shall also track these flagging hours separately from flagging required elsewhere in the project, which is to be paid for under existing pay items.

7	WCD 09 - Waterline 'U' Connection Redesign	10/17/2025	\$ 21,924.06	Unanticipated Existing Conditions	Upon Contractor excavating north end of existing 12-inch CRW water main to begin Waterline 'U' Relocation work, and then subsequent potholing to confirm existing conditions, it was discovered that existing horizontal offset bends shown on the Drawings near STA U1+20 are actually located near approximate STA R29+78 (or STA -U0+30). As such, the relocation of Waterline 'U' requires extension to the north to allow for removal of additional existing 12-inch waterline that conflicts with the proposed 30" SSFM within Segment 'B'. See RFI #15 for further information regarding this required change. Per markup of Sheet W-3 of Drawings for WCD #9, dated 6-6-25, Contractor shall revise northern tie-in connection for Waterline 'U' Relocation plan and profile (as shown on markup) to include these additional items not included in lump sum, Contract Bid Item G-5b.:140 LF of restrained joint 12" CL52 DI water main, One (1) water service retrofit/reconnection for address 14513 SE Johnson Rd, Pothole existing gas service to confirm location/depth at approx. STA U0+05.
8	WCD 10 - Segment 'B' Janssen Road Gas Conflict	10/17/2025	\$ 252.41	Unanticipated Existing Conditions	During exploratory potholing activities performed by the Contractor, an existing 6-inch steel gas main (crossing at approximate STA B36+90) was discovered to be in conflict with the proposed 30-inch SSFM profile shown on Drawings, near SE Janssen Rd. Contractor to revise the 30-inch SSFM profile by increasing depth via joint deflection and add two (2) offsetting 30-inch vertical bends to cross below the existing gas main (see attached figure). Contractor shall also install Type #240 Roll-On Shields (as manufactured by Glas Mesh Company) on the existing 6-inch steel gas line at the crossing of the proposed 30-inch SSFM to lower risk of ductile iron force main picking up stray current from steel gas main's ICCP system.
9	WCD 11 - Waterline 'T' Connection Redesi	10/20/2025	\$ (16,545.76)	Unanticipated Existing Conditions	Upon Contractor excavating trench to begin Waterline 'T' Relocation work, and subsequent potholing of the existing water line and underground telephone utility, it was discovered that existing 12" waterline conflicts with proposed Waterline 'T' alignment from approximately STA T3+85 to STA T5+36. As such, the Engineer has revised the relocation of Waterline 'T' to avoid conflict with existing utilities while complying with CRW design guidelines.
10	WCD 12 - Added PCMS Boards: Segment '	8/28/2025	\$ 9,302.80	Permit Compliance	Contractor to incorporate Clackamas County DTD comments pertaining to road closure and detour plans for SE Cason RD, SE Webster RD, and SE Strawberry LN. The locations of portable changeable message signs (PCMS) and other traffic control signage, to be deployed, is shown on markups of Sheet TC-6.
11	WCD 14 - Segment 'D' Revised Storm Sewer Relocation	11/24/2025	\$ 35,354.71	Unanticipated Existing Conditions	During trenching work to install 30" SSFM within Segment 'D' per previously issued WCD #14 it was discovered that the 30" SSFM profile previously revised per RFI #32 (and WCD #14) conflicted with an existing 8-inch concrete sanitary sewer (SS) main at STA D10+30. Therefore, WCD #14 required revision and is being replaced/reissued as WCD #14(R) to update the 30-inch SSFM profile revisions and re-include 18-inch SD relocation work at STA D9+10, as described herein, to avoid conflicts with the existing 8-inch SS main and 18-inch SD. See RFI #38 for further information.
12	WCD 15 - Segment F Gas Conflict	11/24/2025	\$ 3,157.24	Contractor Error/Omission	During trenching activities for Segment 'F' performed by the Contractor, an existing 4-inch steel gas main (crossing at approximate STA F12+44) was discovered to be in conflict with the proposed 30-inch SSFM profile shown on Drawings, within Washington Street. Existing gas main was not potholed ahead of the Contractor's trenching work as required per the Contract Documents. Contractor revised the 30-inch SSFM profile by increasing depth via joint deflection and added/revised DI bends to the pipeline to cross below the existing gas main with 6" clearance (see attached figure). Contractor is also required to install Type #240 Roll-On Shields (as manufactured by Glass Mesh Company) on the existing 4-inch steel gas line at the crossing of the proposed 30-inch SSFM to lower risk of ductile iron force main experiencing stray current corrosion from steel gas main's ICCP system.
13	WCD 16 - Segment F SS Lateral Conflict	11/24/2025	\$ 5,984.76	Unanticipated Existing Conditions	During trenching activities performed by the Contractor, an existing 6-inch sanitary sewer (SS) lateral encased in CDF (crossing at approximate STA F16+50) was discovered to be in conflict with the 30-inch SSFM profile. Further, after investigation by the Contractor, it was determined that relocation of the SS lateral would likely conflict with the existing 6-inch steel gas main buried approximately 9 feet deep adjacent to the west side of Agnes Avenue roadway. As such, Contractor requested that 30" SSFM profile be revised to avoid conflict. See RFI #41 for further information regarding this change. Per Engineer's response to RFI #41, Contractor adjusted the 30" SSFM profile to avoid conflict with existing 6-inch SS lateral at STA F16+50 by rolling horizontal bends and deflecting joints as required to increase the installation depth of the 30-inch DI SSFM from STA F16+03 to STA F17+83.

14 WCD 17 - Revised IT2 PS Connection and I 11/24/2025 \$ 23,239.45 Owner Preference

Previously issued WCD #3 added a 6” drain connection from the adjacent pump station project’s proposed pigging vault to the Contractor’s required connection to DVA #0 adjacent to the pump station site. This WCD resulted in a situation where Tapani and R.L. Reimers (IT2 PS Contractor) would potentially be working within the same piping construction corridor. To alleviate potential conflict, WES and Consor proposed dividing up the work to create clearer boundaries between the two contractors. As such, Tapani is to install segment ‘A’ 30” SSFM up to and including the 30”x12” tee at STA A0+48, and they also shall complete the drain valve connection to DVA #0. Tapani shall not install any 30” SSFM beyond the 30”x12” tee. Tapani will then deliver materials described above, which were included within their original contract, to R.L. Reimers. R.L. Reimers will then utilize the materials to make the final connection to the yard piping at IT2 pump station. R.L. Reimers will be responsible for restoring affected pump station landscaping and any fence panel that is removed. Tapani will be responsible for restoring the hardscape items within the right-of-way to their original condition.

15 WCD 18 - Segment 'A' Redesign 11/21/2025 \$ 5,780.84 Unanticipated Existing Conditions

Per exploratory utility potholing and excavation work completed prior to beginning 30” SSFM installation for Segment ‘A’, Contractor discovered that the existing sanitary sewer lateral STA A2+88 conflicts with proposed 30-inch SSFM profile. Additionally, the capped southern end of existing Segment ‘A-B’ was found to be located further south and deeper than what is shown on the Drawings. Following Engineer’s response to RFI #50, Contractor is directed to extend the termination of Segment A and increase depth of installation of 30-ich DI SSFM piping from STA A3+31 to STA A5+15 from 0 to 1 ft, respectively, to tie-into existing Segment ‘A-B’. Additionally, Contractor shall relocate existing sanitary sewer lateral at approximate STA A2+88 to avoid conflict with 30” SSFM.

16 WCD 19 - Segment 'A' Waterline Thrust Blc 11/21/2025 \$ 10,870.10 Design Error/Omission

To prevent possible destabilization of existing concrete thrust blocking assumed behind waterline tee located adjacent to planned 30” SSFM trench near STA A1+35, Contractor is directed to install a concrete collar block on the branch side of CRW’s existing waterline tee. Concrete collar block is intended to provide supplemental restraint of said water facilities prior to Contactor beginning excavating adjacent trench for 30” SSFM. See RFI #54 for additional information.

17 WCD 20 - Added 12" Spool for OAVA 9 12/29/2025 \$ 3,097.12 Unanticipated Existing Conditions

While confirming existing conditions inside vault at OAVA Site 9, Contractor observed that existing plain ends of 12” DI piping left capped in vault for future connection do not allow for new 12” vault piping to be installed as shown in Detail 1 on Sheet D-13 of the Drawings. In particular, the 12” pipe penetrating into the vault through its western wall (from the flushing port) appears to have been installed too short to complete interior 12” piping with fittings and appurtenances shown on referenced detail. Following Engineer’s response to RFI #53, Contractor is directed to add a fabricated DI flange spool (FLG x FLG, length as required) to extend new 12” piping in vault as required, and complete piping upgrades. Contractor to provide AWWA C115 DI flange spool, lined with Protecto 401, and epoxy coated, all per Submittal #333400-1.2. See RFI #53 for additional information.

18 WCD 21 - Soil Claim Cost Sharing 12/18/2025 \$ 373,331.50 Contractor Error/Omission

As included in attached letter from WES, dated 12/15/25, responding to Tapani’s claim for additional compensation related to soil handling and disposal requirements for the Project. WES agrees to contribute \$373,331.50 total towards Tapani’s increased soil management costs. WES’s contribution to Tapani as listed above is intended to be included in the Contract as a lump sum change order item, which will be paid for as a percentage of 30-inch sanitary sewer force main (SSFM) piping installed to date with each progress payment, compared to the total amount of 30-inch SSFM piping ultimately installed for the project.

\$ 696,867.07

Signature: *Carla Atwood*

Email: CarlaAtw@clackamas.us