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State of Colorado
Derek R. Johnson
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**FINAL REPORT (August 2016 to present): Contract number C150535 / CTGG1 2015-391
WSRA Grant – Water Infrastructure Supply Efficiency – WISE Partnership**

Dear Derek,

The Connections and Turnout Preliminary Design portion for the overall WISE project commenced with our Notice to Proceed on October 23, 2013. All tasks (1, 2, 3A, 3B, and 3C) related to this grant are complete, and the work is detailed in previous progress reports. To date, the final deliverables for your review include:

Task 1 – This task identifies and assesses 3 location options for the turnout building or valve vault for each of the required facilities. The deliverables include a Technical Memorandum analyzing the 3 site options and gives a recommendation for the site location for each of the turnouts. Task 1 is complete and the Technical Memorandum containing both analysis and recommendation is included here.

Task 2 – Task 2 covers the analysis and production of plans, documents, and drawings necessary for preliminary design of the turnouts. This work performed includes but is not limited to the following: developing aerial mapping for all potential pipeline routes, developing flow control process diagrams to facilitate equipment layout and selection, performing hydraulic modeling and analysis, doing preliminary sizing of flow control valves, conducting survey work through Farnsworth, conducting supervisory control and data acquisition (SCADA) meetings, completing a desktop radio path study, control architecture drawings, and process and instrumentation drawings (P&IDs), conducting various meetings with participants and sub-consultants, discovering participant preferences, and submitting draft basis of design and construction memorandums to the WISE Authority. Task 2 is complete and Basis of Design Memoranda and preliminary design drawings are attached to this final report.

Task 3A – As described in the Progress Report submitted in September 2016, this task covers the analysis and plans, documents, and drawings necessary for the final design of the Aurora Connection and the Pressure Sustaining Valve. All work associated with this task is complete and the design drawings and the final deliverable for this Task 3A, which are the as-built drawings for the Aurora Connection and the Pressure Sustaining Valve, are attached to this final report.

Task 3B – Task 3B covers the analysis and production of plans, documents, and drawings necessary for preliminary design of the Ridgegate Line. As outlined in the September 2016 Progress Report, all work associated with this task is complete and the deliverables are included with this final report. These include the preliminary and final design drawings, design sheets, plans, and reports associated with the Ridgegate Line.

Task 3C – Task 3C involves the design and implementation of SCADA/Controls. This work has been fully designed, and installations are complete at each SCADA location. The SCADA Technical Memorandum, final design documentation (project specifications), construction plans, and the final deliverable, or the complete O&M Manual for the SCADA system, is attached here for your review.

We are excited to have come so far on this important project, and we greatly appreciate your time in getting this accomplished. Please do not hesitate to contact me with questions or requests for more information at 720-216-5158.

Sincerely,

Mikal Martinez

Enclosures by Email: Dropbox Link to PDF of Final Deliverables

