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City of Aurora Planning and Development Services  
15151 E. Alameda Pkwy, Suite 2300  
Aurora, CO 80012

September 24, 2021

RE: Murphy Creek Interconnection and Delivery Vault Project  
Site Plan Application Submittal - Introductory Letter

To Planning and Development Staff:

### **Background**

Presently, both the Rampart Raw Delivery System (RDS) and Sand Creek Reuse System (SCRS) can deliver water to the Murphy Creek Golf Course Irrigation Pond. The pond is located off the southeast corner of the intersection of South Old Tom Morris Road and East Jewell Avenue. Reuse water is pumped from the northwest by the Sports Park Pump Station via the SCRS pipeline, and raw water flows in from the south from the RDS either by pumped flows from the Aurora Reservoir Pump Station, or by gravity when water is back-flowing from the Aurora Reservoir. An existing pump station (Murphy Creek Irrigation Pump Station) is located on the south side of the pond which draws suction from the pond to serve as irrigation water throughout the Murphy Creek Golf Course and surrounding areas. The typical operation is to fill the Murphy Creek Irrigation Pond throughout the day as irrigation typically takes place overnight. The primary source of water for the pond is the SCRS system, although occasionally RDS water is used if the SCRS system is down or cannot meet the demands at the time.

### **Project Description**

This Project includes evaluation and design of enhancements for delivering raw water from the RDS and reuse water from the SCRS, at a location adjacent to the Murphy Creek Irrigation Pond. The planned modifications add operational flexibility and greater reliability in selectively delivering water sources to current and future internal and external clients via a new Interconnection and Delivery Vault to be located near the intersection of South Old Tom Morris Road and East Jewell Avenue.

As regards to external/third-party clients, primarily the vault is intended to deliver reuse water, with a secondary or emergency capability to deliver raw water. As regards to internal clients, the Interconnection and Delivery Vault will serve existing customers (such as Golf) and connect the RDS and SCRS in a manner to allow one-directional flow from the RDS into the SCRS to Sports Park Complex. The interconnection would allow RDS raw water to be delivered to points north along the SCRS pipeline when the SCRS system is out-of-service. The piping and controls will support simultaneous delivery of RDS and SCRS waters. Additionally, the vault design will include provisions to simplify future piping additions that will increase the amount of RDS water that can be distributed.

The new Interconnection and Delivery Vault will be approximately 743SF (0.011 acres) mostly under underground using pre-cast concrete and only approximately 6-in of the vault roof will be aboveground. The underground vault will house the required pipe connections, piping, valves. The aboveground SCADA system will enable the vault to be remotely monitored and controlled through the Owner's existing radio-based control network

### **Justifications**

This Project is not requesting any waivers from the City Code. However, based on the comments from the Office of Developmental Assistance (ODA) Pre-Application Meeting (Attachment 2) the following are not required for this Project:

- 1) Building Department Permit
- 2) Fire Lane Easement or fire hydrant requirements
- 3) Subdivision Plat
- 4) Oil and Gas Well Development
- 5) Traffic Study

Additionally, Attachment 3- Site Plans are enclosed and have been prepared using the site plan checklist criteria in Section 146-405(F) in the City Code.

### **Project Contact Information**

Aurora Water Project Delivery Services  
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### **Proof of Ownership**

The new Interconnection and Delivery Vault will be partially located on property currently owned by the City of Aurora or within existing City right-of ways. Other portions of the new infrastructure will require new easements to be acquired from the property owner (Murphy Creek LLC) that abuts the City's property on parcel number is 1977-30-2-00-016.

The property owner has future development plans for this parcel and Aurora Water has been in coordination with them through-out the design process to ensure the design does not conflict with their development plans. As the design is finalized and begins the Public Works Civil Plan Review Process, a legal description of the requested temporary and permanent easements will be prepared and secured with the property owner.

### **Civil Plan Review by Public Works**

This Project has initiated the Civil Plan Review by Public Works. We have completed the Pre-submittal Meeting and are working on addressing their initial comments to resubmit for the Round 1 Review the week of October 4, 2021. The attached Drainage Conformance Letter and Stormwater Management Plan have been updated to address Public Works comments from the Pre-submittal Meeting.

**Conclusion**

If you have any questions, please do not hesitate to contact me at [cschumac@auroragov.org](mailto:cschumac@auroragov.org) or 303-210-4947.

Sincerely,



Catherine Schumacher  
Project Engineer  
Aurora Water

**Attachments:**

1. Example Vault Layouts and Pictures
2. Responses to the ODA Comments Pre- Application Meeting (#1540365) Notes – Dated June 3, 2021/Meeting help May 20, 2021
3. Site Plan Drawings
4. Street Cross Section
5. Pre-Submittal Meeting Checklist
6. Accompanying Documents
7. Drainage Conformance Letter
8. Stormwater Management Plan with Public Works Pre-Submittal Comments Addressed