



Aurora Water



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To: Sarah Wieder

From: Ted Hartfelder, Aurora Water
Bruce Creamer, Black & Veatch Corporation
Brian Jessee, Black & Veatch Corporation

Subject: LETTER OF INTRODUCTION FOR THE HIGHPOINTE LIFT STATION CAPACITY
IMPROVEMENTS PROJECT – CONTEXTUAL SITE PLAN SUBMITTAL (DA-1746-16,
#1155579) – Revision 1

The City of Aurora (City) is in the process of upgrading the capacity of the existing Highpointe Lift Station (HLS) due to projected increases to flow resulting from rapid development of the area served by the lift station. Aurora Water is the Applicant for the project and Black & Veatch is acting as the Agent and Engineer of Record. This letter serves to introduce the project as part of the Contextual Site Plan Submittal. Included with this letter are the Contextual Site Plan, Preliminary Drainage Study, and a written response to the Pre-Application Meeting Notes.

The existing HLS, located at 6628 North Dunkirk Street, Aurora, Colorado, 80019, initially was constructed in 2007 to serve a minimally developed area with a peak capacity of 550 gallons per minute (gpm). A 6-inch diameter forcemain conveys wastewater from the HLS to East 56th Avenue, where an inceptor managed by the City and County of Denver delivers flow to the Metropolitan Wastewater Reclamation District system for eventual treatment at the Robert W. Hite Treatment Facility. The HLS, which is owned and operated by the City of Aurora, currently occupies a footprint of approximately 20,000 square feet (approximately 0.5 acres) on a site that is approximately 1.6 acres. Access to the HLS is solely from North Dunkirk Street. Existing features primarily consists of an underground wetwell, underground meter vault, linear array of above ground electrical panels and cabinets, and an above ground emergency generator. A six foot tall chain link fence surrounds the HLS.

The HLS is in the E-470 Airport Corporate Subarea and will follow the special area requirements. The High point at DIA Framework Development Plan also governs this area and has been reviewed. In order to meet these, the proper landscape buffers, tree lawn trees, site lighting, and fencing are included. An architectural elevation sheet has been included to show building heights and types.

Increased flows primarily will be driven by construction of the Gaylord Rockies Resort and Convention Center, which alone is expected to produce peak flows nearly double the current HLS capacity. Buildout of the Highpointe Basin is expected to occur by 2025 with projected peak hour flows of 3,250 gpm. Capacity upgrades to the HLS will be designed to convey a peak hour flow of 3,250 gpm. The nature of the wastewater is not expected to change from the existing domestic sanitary sewer, as zoning for development is entirely a mix of residential and commercial users. The location of the lift station, access points, forcemain, and discharge point will not change as part of the upgrades. Key intended upgrades to the HLS include the following:

- Increase in site footprint to approximately 35,000 square feet (approximately 0.8 acres) to provide space for the new structures. The new lift station will incorporate the existing lift station's footprint, and some of the existing lift station's civil, electrical, and mechanical elements.
- New below ground wetwell and valve vault. The new vaults are required to house two new pumps that are larger in size. The existing vaults will hold two new pumps as well, for a total of four pumps at the site.
- New electrical system housed in a pre-manufactured building, approximately 10- by 50-foot, single-story. The new electrical system is required to serve increased loads and AFDs for pump control.
- New above ground 4,000 gallon storage tank for odor control chemicals. A small pump panel will be located next to the tank.
- New 8-foot masonry screen wall that will act as a fence.
- New landscaping including trees and shrubs in a 25-foot buffer around the developed part of the site.
- Two new 16-inch diameter force mains, approximately 5,500 feet in length. The alignment will generally parallel the existing main's alignment and terminate at the same location. The existing main is, and proposed new force main will be, located within the footprint of North Dunkirk Street.

It should be noted that the completed project will allow Aurora Water to serve the Highpointe Basin for many years to come and will allow complete development of the area without a major upgrade to the facility required. The completed facility will have more reliability, flexibility, and redundancy in order to meet Aurora Water and the Colorado Department of Public Health and Environmental standards. With the exception of construction traffic, the public will notice no difference to the level of service they currently receive, and the visual impact of the sight will be greatly reduced by the construction of the masonry screen wall and landscape buffer. All maintenance traffic can be parked on site within the fence. Pickup trucks visit daily. Large equipment such as a crane will only be used for major maintenance operations and would only be expected once per year at the most. All traffic during construction will be parked on site.

The construction of the improvements is anticipated to take place between 03 April 2017 and 06 April 2018 (one full calendar year). Construction sequencing has not been determined, but will generally start with the force main at the HLS site. Once the force main on the site is complete and the work can continue south on North Dunkirk Road, construction of the lift station structures will begin. Work will take place on the force main and lift station at the same time by two separate

crews. Contractor staging during project execution will be on City of Aurora owned property located immediately to the east of the current HLS site, as noted on the site plan. All required Public Works (Civil) and Building Department Permits will be obtained and all regulations followed.