
Utilities Plan

Washington State Fair – 125th Anniversary Improvements

International Village, Barn M, and Rodeo Barn

110 9th Avenue SW
Puyallup, WA 98374

Prepared for

Washington State Fair
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PROJECT ENGINEER'S CERTIFICATION

I hereby certify that this utilities memo for the Washington State Fair has been prepared by me or under my supervision and meets minimum standards of City of Puyallup and normal standards of engineering practice. I hereby acknowledge and agree that the jurisdiction does not and will not assume liability for the sufficiency, suitability, or performance of drainage facilities designed by me.



Justin Jones, PE



04-01-24

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PROJECT OVERVIEW

The Washington State Fair (WSF) is a 98 acre facility located between 15th Avenue SW to the South; Meridian Street to the East; 9th Avenue SW to the North; and Fairview Drive to the West. The Fair Association is proposing three projects within the fairgrounds, including demolition and replacement of the International Village; demolition of Barn M; as well as demolition of the Rodeo Barn. Each of these projects is described below.

International Village

The International Village project site proposes the construction of a 14,214 SF two story Restaurant Building with site improvements.

The proposed development will result in 43,809 SF of impervious surfaces within the project area.

Site improvements include the construction of 24,860 SF of new permeable asphalt pavement, 886 SF of new concrete pavement, 3,117 SF of new asphalt pavement, 22,907 SF of new hydroseeding. The building will also have utility service connections for sewer, water, power, gas, and communications.

Stormwater from the International Village Building will be collect with roof downspouts and conveyed to a proposed infiltration gallery, which will infiltrate 100% of stormwater up to the 100-year storm. Infiltration testing was performed onsite to obtain a design infiltration rate for on-site soils in the vicinity of stormwater infiltration systems, See Appendix A.

Runoff from the proposed pervious asphalt will infiltrate onsite into native soils below the pavements. The pervious pavements are designed to infiltrate 100% of stormwater up to the 100-year storm event.

Barn M

The Barn M project proposes the demolition of the existing 67,660 SF, 4,270 SF, and 2,760 SF Barn M structures.

Since sanitary sewer service is no longer required for the building, the existing sanitary sewer connections will be cut and capped on the Sanitary Sewer line running E-W under the building. New storm lines will be installed in the existing catch basins (on the north side of the building) to convey stormwater runoff to the existing 42-inch city main in 5th Street. The existing catch basins (on the south side of the building) convey runoff to a sanitary sewer manhole to the south. A new storm line will be installed in this manhole to convey runoff to an existing catch basin, where the runoff will be eventually conveyed to the existing 42-inch stormwater main under 5th Street. The existing outlet sewer pipe will be cut and capped.

Any existing dirt areas will be hydroseeded.

Rodeo Barn

The Rodeo Barn project proposes the demolition of the existing 24,410 SF structure. Stormwater runoff will infiltrate into native soils onsite.

Existing dirt underneath the Rodeo Barn structure will be hydroseeded.



PROJECT MAP



WATER

Domestic

International Village

The domestic water service for the new International Village will provide water for restrooms and vendor/restaurant use. Service will be provided through a connection to the existing 6-inch water main just northeast of the proposed international building. This existing water main is a WSF main and the connection will be behind the backflow protection assembly and water meter. A Reduced Pressure Backflow Assembly will be located inside the building.

Barn M

Domestic water service for the Barn M demolition is not necessary.

Rodeo Barn

Domestic water service for the Rodeo Barn demolition is not necessary.

Fire

International Village

Fire Service water improvements are proposed. The existing 8" fire service water line will be extended to provide fire flow to the proposed International Village building. Additionally, two new fire hydrants are proposed, and one yard hydrant will be replaced with a fire hydrant.

The proposed building Fire Department Connection (FDC) will be installed in the landscaping adjacent to the west side of the proposed International Village building.

Barn M

Fire service water improvements are not necessary after the demolition of Barn M.

Rodeo Barn

Fire service water improvements are not necessary after the demolition of the Rodeo Barn.

SANITARY SEWER

International Village

The International Village will have restrooms and restaurants that require sanitary sewer service. In addition, a future 6" sanitary sewer line for future vendor hookups will be installed to the east of the proposed International Village Building.

A saddle manhole will be installed along the existing 12-inch sanitary sewer line to the northwest of the proposed International Village Building. In addition, a typical sanitary sewer manhole will be installed north of the proposed International Village building to collect the sanitary sewer flow from both the proposed International Village building and the 6-inch sanitary sewer line to the east.

Prior to entering the typical sanitary sewer manhole, a grease interceptor will be installed for both the proposed International Village building and the 6-inch line for the future vendor hookups.

Barn M

Sanitary Sewer service for the Barn M demolition is not necessary.

Rodeo Barn

Sanitary Sewer service for the Rodeo Barn demolition is not necessary.