

# Fanno Creek Basin Public Facilities Plan *Amendment*



**Bureau of Environmental Services**



# Fanno Creek Basin

## 5-yr Storm Flow / Capacity Issues

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- Peak Flow in Fanno Creek Basin 44 cfs
  - Pumping Capacity of existing Fanno Basin Pump Station 24 cfs
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- Pumping capacity deficiency 20 cfs

# Fanno Creek Basin

## Capacity Issues

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- Peak storm flow includes infiltration & inflow of surface and groundwater
- Capacity deficiency results in:
  - Failure to manage flows as required by the City's NPDES permit and Agreement with CWS
  - Potential overflows to Fanno Creek
- Solution needed to manage sewer needs and address a public health risk

# Proposed Projects

# Fanno Creek Basin

## Flow Capacity Improvement Option Selected

- New SW 86<sup>th</sup> Avenue Pump Station and associated facilities
- Reasons for selecting this option:
  - Most efficient way to capture flow
  - Least disruptive to the public
  - Most cost effective
  - Least impact to the Clean Water Services collection and conveyance system

# Fanno Creek Basin

## Project Elements

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- **SW 86<sup>th</sup> Ave Pump Station & Appurtenances**  
New 20-cfs minimum capacity pump station and appurtenances, including a surge protection facility
- **SW 86<sup>th</sup> Ave Diversion/Flow Control Manhole**  
Replacement of an existing manhole with a new manhole that can divert and control flow to existing and new pump stations
- **SW 86<sup>th</sup> Ave Sewer Extension**  
New sewer line from the Diversion/Flow Control Manhole to the new 86<sup>th</sup> Avenue Pump Station

# Fanno Creek Basin

## Other Options Evaluated

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- Building a new pump station and pressure line system further upstream
- Building a new 5-million gallon wet weather storage tank system
- Diverting excess flows to the Clean Water Services



## Fanno Creek Basin

# Public Outreach and Involvement

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- BES Public Outreach staff began outreach efforts in summer 2009.
- Outreach efforts have focused on projects that address the need for increasing pumping capacity in the Fanno Creek Basin.
- Neighborhood residents have expressed concern with respect to construction impacts, odor, noise and vibrations from the existing pump station.

## Public Outreach and Involvement

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- Public outreach and involvement methods are ongoing and have included:
  - Presentations to the local Citizen Participation Organization (CPO-3)
  - Public meetings
  - Informational flyers
  - Local newspaper media
  - Frequent E-mail updates to a list of interested individuals and organizations
  - Project website

# Fanno Creek Basin

## Public Outreach and Involvement

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- The BES design team is addressing concerns from the public through:
  - Improved facility design
  - Selected construction methods
  - Incorporating neighborhood feedback in design aesthetics and construction logistics

# Washington County Land Use Review and Development Requirements

BES understandings regarding the County's Type II/III review requirements are based on pre-application advice from County Staff, subject to confirmation upon submittal of the actual applications

# Washington County

## Zoning Issues

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- Site Zoning - Residential
- Pump Station and appurtenances may be allowed through a Type III review.
- Approval based on:
  - Present or future need;
  - How facility fits into utility's Master Plan;
  - Minimum area required;
  - Measures to minimize damage to paved roads, natural resources, or open space.
  - Underground pipes and conduits are exempt from Type III, and subject to Type II review.

# Washington County

## Comprehensive Plan Requirements

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- Washington County Comprehensive Plan requires that development not unduly conflict with area's character.
  
- Project will:
  - Limit tree removal
  - Provide effective screening
  - Size buildings to be compatible with area

# Washington County

## Floodplain Requirements

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- The Diversion/Flow Control Manhole and Sewer Extension will be in Fanno Creek's 100-year floodplain.
  - Construction approval is subject to Type II review.
- Pump Station and Appurtenances will not be located inside the 100-year floodplain.

# Washington County

## Significant Natural Area Requirements

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- Fanno Creek floodplain - including portions of site - is designated a "Water Area and Wetland" significant natural area.
  - Installation or construction of sewer utilities allowed in Water Areas and Wetlands.
  - Pump Station will not be in Significant Natural Areas.



# Public Facility Plan Amendment

# Public Facilities Plan Amendment

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- ❑ Proposed SW 86<sup>th</sup> Avenue projects are not currently listed in the City's acknowledged Public Facilities Plan (adopted in 1989).
- ❑ Proposal would amend the City's Public Facilities Plan, project list and Sanitary Sewer Element to include these projects.
- ❑ Amendment required for project to proceed.

# Fanno Creek Basin Staff Recommendation

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- ❑ Recommend that City Council amend the adopted Public Facilities Plan, Sanitary Sewer Element and project list of the Comprehensive Plan as specified in the *Proposed Draft*.
- ❑ Recommend that City Council adopt the ordinance.