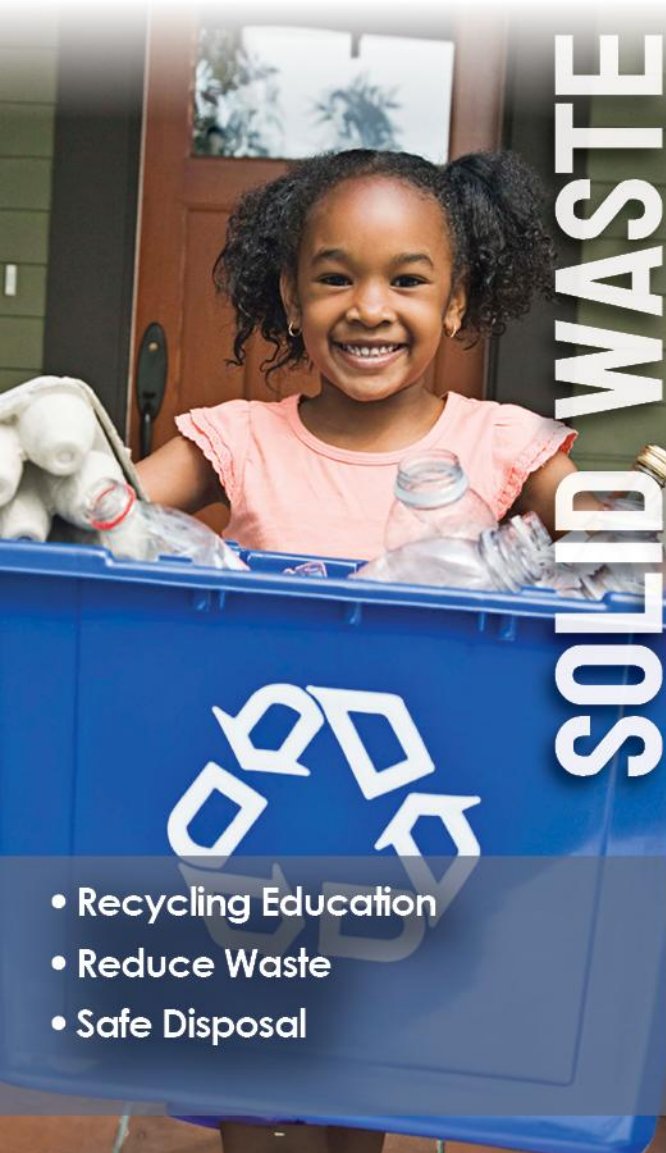




Kitsap County Public Works

Caring about your every day



SOLID WASTE

- Recycling Education
- Reduce Waste
- Safe Disposal



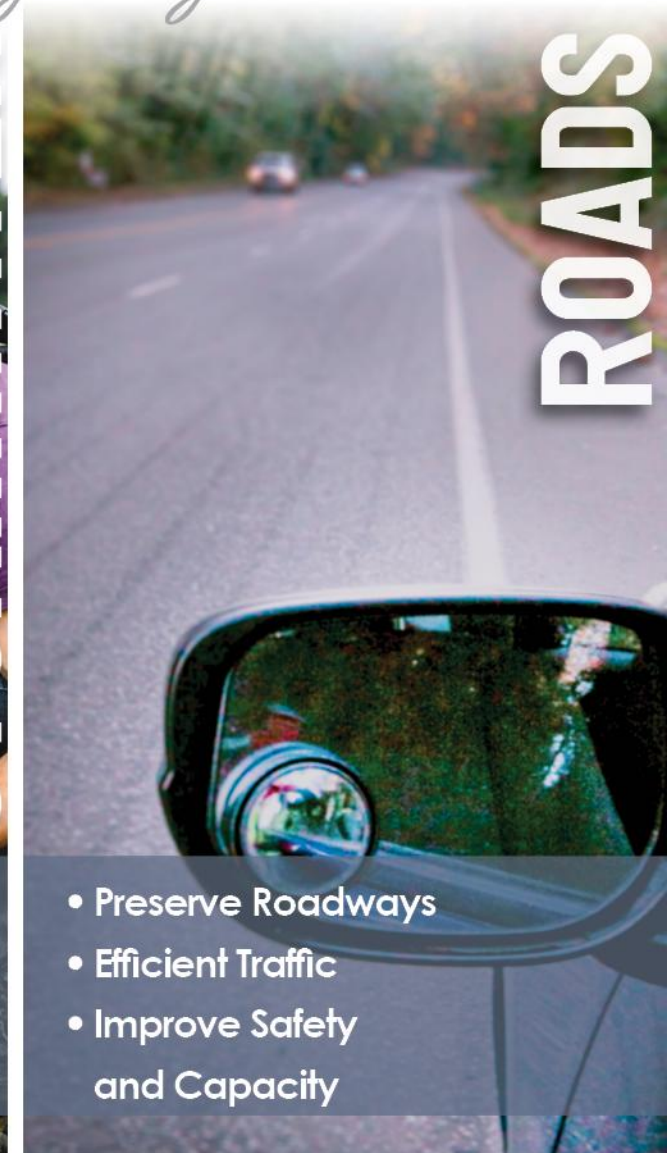
SEWER

- Sewage Collection
- Sewage Treatment
- Water Reuse



STORMWATER

- Reduce Flooding
- Prevent Pollution
- Restore Fish Habitat



ROADS

- Preserve Roadways
- Efficient Traffic
- Improve Safety and Capacity



Sewer Utility Division

2025 Sewer Standards Update – Public Hearing
September 2, 2025

Staff Contact: Anthony Burgess, Capital Projects Manager



Kitsap County Department of Public Works

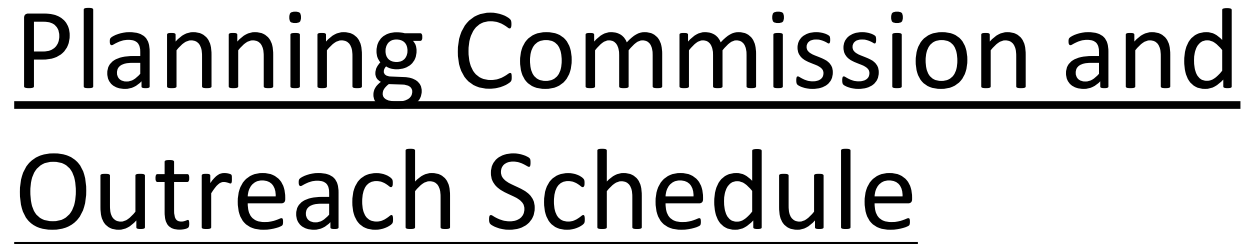


Kitsap County Department of Public Works

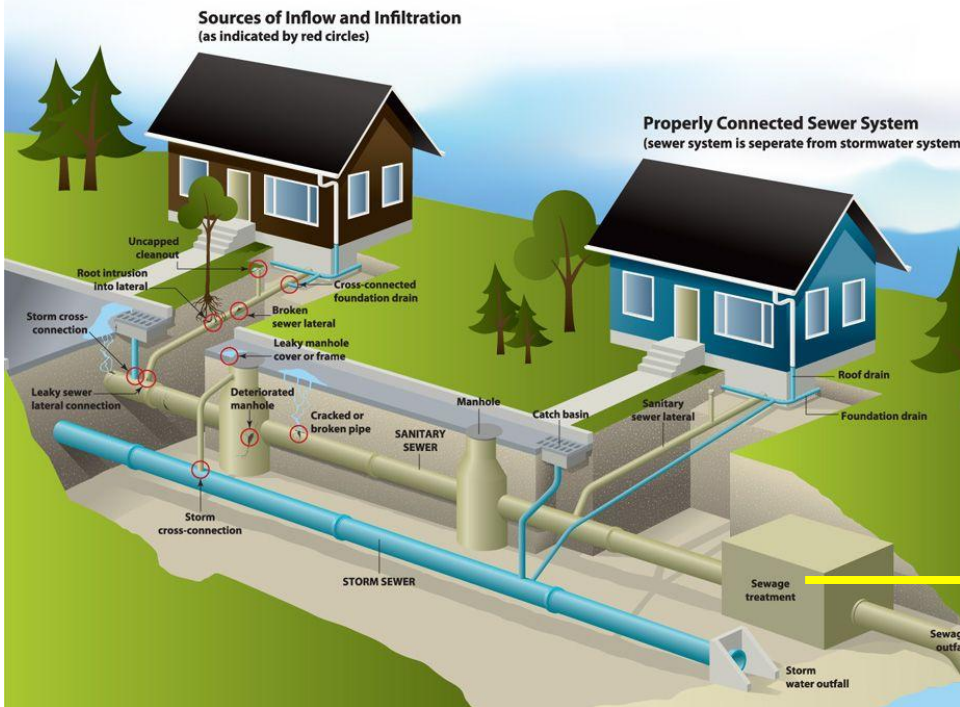


Agenda

- Public Outreach and Planning Commission Schedule
- What is Sewer?
- Introduction to Standards and why an update is needed
- What did we change?
 - Recap. Priority 1 changes from workshop #2
 - Recap. Priority 2 changes from workshop #1
- Q/A before Public Hearing

4

What is Sewer?



Kitsap County Sewer provides service to Kingston, Manchester, Central (Silverdale/Poulsbo /Bangor/Keyport), and Suquamish service areas.

- Over 220 Miles of Pipeline
- 4 Treatment Plants
- 65+ Pump Stations



1996 Standards

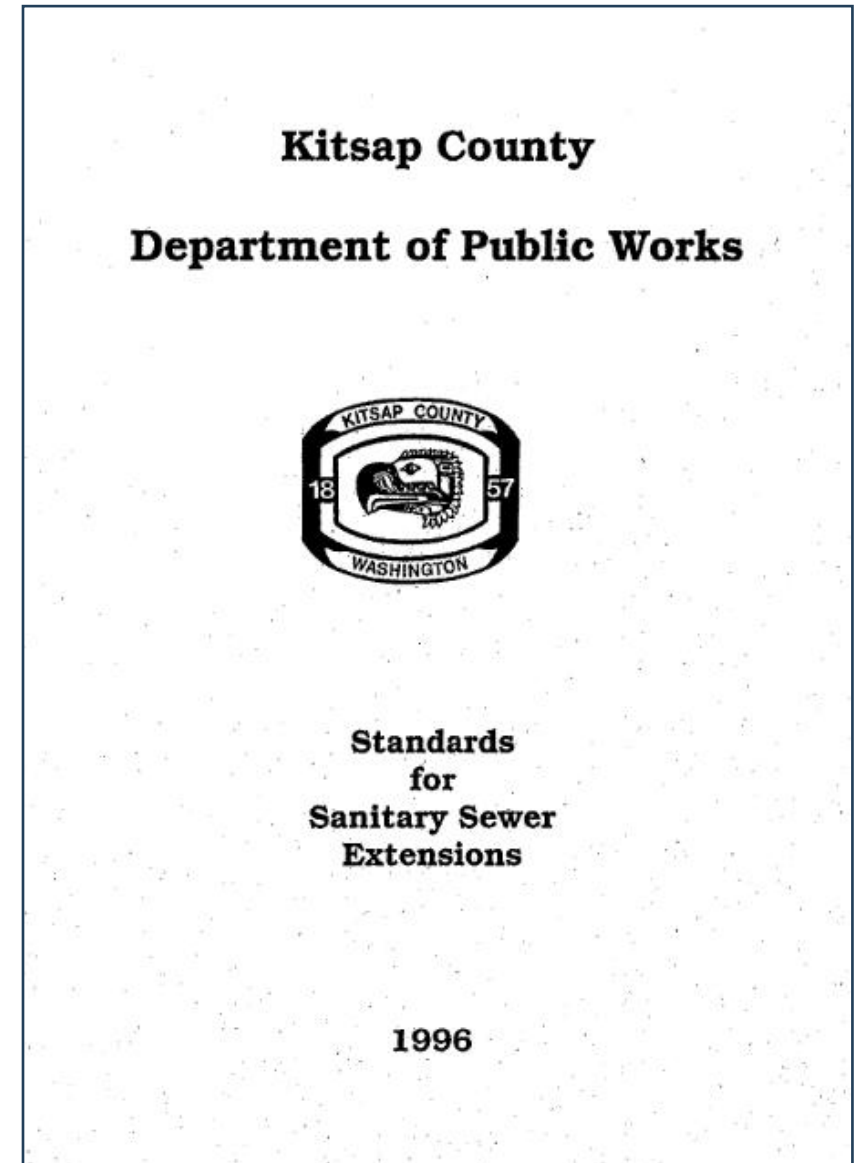
- Original Mechanism performed by county to create development standards.
- Action also included creation of several Code Section which will be re-addressed in subsequent staff efforts.

Then and Now

- Past attempts at updating the standards we made in 2000 and 2015.
- These efforts failed to navigate the formal adoption process.
 - No Public Engagement, SEPA, Hearing, and resolution.
- The most recent attempt to update these standards was in 2020, these standards have been utilized unofficially by the Utility as the 1996 standards were insufficient to serve the needs of the utility.

2025 Standards

- Incorporates much of the work performed by previous attempts.
- Updates format to be consistent with other jurisdictions.
- Will serve as a benchmark for future work.

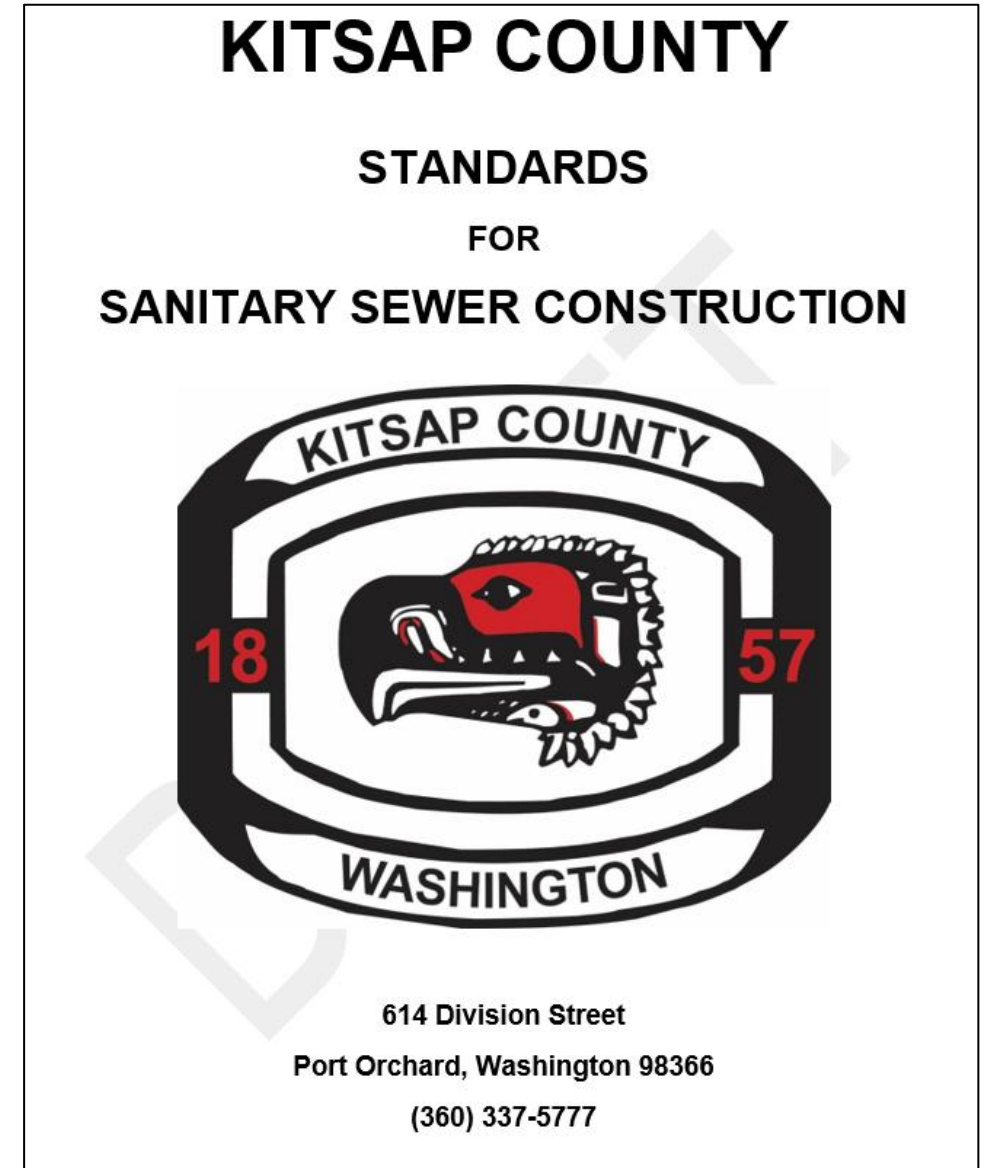


Why The Update?

- PW Sewer has not had a comprehensive update to their standards in many years.
- Requirements are not easily understood and difficult to locate.
- Some requirements are seen as barriers to development.
- Some requirements are not consistent with current construction practices.
- Several Policy Changes have occurred and have not been reflected in the standards.

What we did:

- Updated all figures to modern format.
- Included policies in the document.
- Re-organized the document to be a resource and tool for the development community.
- Expanded upon several sections to clarify grey or silent topics.
- Updated means and methods to be consistent with current construction practices and inspection requirements.
- Structured the document to be comprehensive and reduce ambiguity.
- Will bring the document to Planning Commission in 2 parts.



An update in (2) parts:

- **Priority 1:** Jurisdiction means and methods.
 - These are industry specific requirements that are not meant to be open for exhaustive public deliberation.
 - These means and methods directly correlate to system operation, maintenance safety, and ensure longevity of public infrastructure.
 - There is a great deal of information within the document that must be updated as written
- **Priority 2:** Focusing on Development Issues
 - These are new or expanded ideas which are discretionary and change jurisdiction to jurisdiction.
 - These specific development regulations include policies, or other allowances that are not outright covered in WSDOT or Ecology guidance documents.
 - Each of these topics will be discussed within the upcoming work study.
 - These standards have been shared with and presented to the Kitsap Builders Association in hopes of receiving constructive commentary prior to our 1st workshop.

KITSAP COUNTY

STANDARDS

FOR

SANITARY SEWER CONSTRUCTION



614 Division Street

Port Orchard, Washington 98366

(360) 337-5777

Priority 1: Focusing on Development Issues – FOLLOW UP FROM WORKSHOP #1

29 Years

1996 Standards

7 – Divisions:

- I) General Provisions
 - IF) Forms and Agreements
 - II) Sanitary Sewer Mains
 - III) Side Sewers and Building Sewers
 - IV) Submersible Type Sewage Pump Stations
 - V) Wet Well/Dry Well Pump Stations
 - VI) Individual Grinder Pump Installations
- Standard Details

~85 pages of standards

32 Standard Details

Included Standard Forms

2025 Standards

13 – Sections:

- 1) General Requirements
 - 2) Sewer Pipe Design
 - 3) Trenching and Pipe Installation
 - 4) Manholes and Cleanout Design Construction
 - 5) Industrial and Commercial Pretreatment
 - 6) Alternative Systems and Special Requirements
 - 7) Pump Station Provisions and Records
 - 8) Site Requirements
 - 9) Building Requirements
 - 10) Pump Design and Hydraulics
 - 11) Wet Well and Vault Design
 - 12) Electrical and Controls
 - 13) Testing and Acceptance
- Standard Details

~83 pages of Standards

36 Standard Details

Does not include Standard Forms

**KITSAP COUNTY
STANDARDS FOR SANITARY SEWER EXTENSIONS**

TABLE OF CONTENTS

INTRODUCTION

DIVISION I - GENERAL PROVISIONS

I-1.000	INTRODUCTION
I-2.000	PROJECT PROPONENT'S CHECKLIST
I-3.000	GENERAL PLAN FORMAT

DIVISION II - FORMS AND AGREEMENTS

STANDARD SPECIFICATIONS

DIVISION II - SANITARY SEWER MAINS

II-1.000	DESCRIPTION
II-2.000	MATERIALS
II-3.000	INSTALLATION
II-4.000	TESTING

DIVISION III - SIDE SEWERS AND BUILDING SEWERS

III-1.000	DESCRIPTION
III-2.000	MATERIALS
III-3.000	INSTALLATION
III-4.000	TESTING

DIVISION IV - SUBMERSIBLE TYPE SEWAGE PUMP STATION

IV-1.000	DESCRIPTION
IV-2.000	MATERIALS AND CONSTRUCTION
IV-3.000	INSTALLATION
IV-4.000	TESTING

DIVISION V - WET WELL/DRY WELL TYPE SEWAGE PUMP STATION

V-1.000	DESCRIPTION
V-2.000	MATERIALS
V-3.000	INSTALLATION
V-4.000	TESTING

Table of Contents

Definitions	7
Section 1: General Requirements	10
1.1 General	10
1.2 Submittals	11
1.3 Drawing Requirements	11
1.4 Siting Considerations	12
1.5 Easements	12
1.6 Developer Responsibilities	12
1.7 Blockages	13
Section 2: Sewer Pipe Design	14
2.1 Design Considerations	14
2.2 Pipe Design	14
2.3 Materials	17
2.4 Joints and Fittings	1948
2.5 Miscellaneous	2049
Section 3: Trenching and Pipe Installation	20
3.1 General	20
3.2 Trenching	21
3.3 Materials	21
3.4 Pipe Bedding	22
3.5 Pipe installation	2322
3.6 Backfill	23
Section 4: Manholes and Cleanout Design and Construction	24
4.1 Locations of Cleanouts and Manholes	24
4.2 Manhole Connections	25
4.3 Manhole Design	25
4.4 Installation	28
Section 5: Industrial and Commercial Pretreatment	29
5.1 Description/Design	29
5.2 Grease Interceptor	29
5.3 Grease Trap	30
5.4 Operations and Maintenance	30
5.5 Plumbing for Dumpster Pads	30

**DIVISION I
GENERAL PROVISIONS**

I-1.000 DESCRIPTION

1.010

General

Kitsap County was founded in 1857 and was originally named Slaughter County. It is now home to over 200,000 people. These people are represented by three County Commissioners and are served by a variety of agencies and government departments, including Public Works. Kitsap County occupies a unique portion of the State of Washington, directly between the urban areas of Seattle and Tacoma and the wilderness of the Olympic Mountains. It is bounded by Hood Canal on the west, Puget Sound on the east, and Mason and Pierce Counties to the south.

1.020

Introduction

The purpose of the Standards for Sanitary Sewer Extensions is to provide minimum design and construction requirements for the extension of and connection to Kitsap County sewer facilities. It also specifies documentation and administration requirements necessary for obtaining approval and acceptance of sewers. These Standards shall govern all construction and upgrading of sewer systems and facilities conveyed to Kitsap County, except where otherwise provided for in other ordinances.

Divisions II through VI of these Standards implement, and are intended to be consistent with, the latest edition of the Washington State Department of Ecology's "Criteria for Sewage Works Design." Except where provided otherwise in these Standards, construction details, workmanship, and materials shall be in accordance with the most recent edition of the "Standard Specifications for Road, Bridge, and Municipal Construction," prepared by the Washington State Department of Transportation and the American Public Works Association.

Variances from these Standards will only be granted by Kitsap County upon evidence that such variances are in the public interest and based on sound engineering judgment. The requirements for safety, function, appearance, and maintainability shall be fully met. Variances must be approved in writing prior to construction.

Failure to comply with these Standards shall be cause for withholding all approvals associated with the sewer facilities proposed.

I-1

Section 1: General Requirements

1.1 General

1.1.1 These Standards for Sanitary Sewer Construction (Standards) set forth minimum standards for the planning, design, and construction of sanitary sewer facilities in Kitsap County. Although these Standards are intended to apply to physical development within Kitsap County, the standards may not apply for all situations. Compliance with these Standards does not relieve the party responsible for the project of their duty to apply conservative and sound professional judgment. These standards are minimum standards and are intended to assist, but not substitute for, competent work by design professionals. The Kitsap County Public Works Sewer Utility Division, hereby referred to as "the County", may require more stringent requirements than would normally be required under these Standards due to special conditions and/or environmental constraints.

1.1.2 These Standards shall be used in conjunction with the Department of Ecology's most current version of "Criteria for Sewage Works Design." Since the following requirements are general and do not cover all possible situations, the County reserves the right to deviate from these standards if the County feels the project warrants such.

1.1.3 It is the policy of the County that the Developer extend any sanitary sewer improvements to the most distant end of abutting and interior Right of Way or easements unless it is determined by the County, according to its rules and policies, that extension of the sanitary sewer will not be necessary. Developers owning corner property must extend the wastewater system to the far ends of both corners of the property unless it is determined by the County, in its sole discretion, that said extension of the system is not necessary. The wastewater system must be extended to the far end of the development at depths, whenever possible, that enable the County to provide gravity service to upstream properties.

1.1.4 Sewer extensions must provide adequate capacity to allow for the future expansion of the system in conformity with the County's comprehensive planning or future needs as determined by the County. Properties which propose Lift Stations may be required to install expanded storage capacity in their designs for future upstream connections.

1.1.5 All sewer mains and other facilities must be installed in public Right of Way or in recorded utility easements dedicated to the County. The developer or the developer's engineer must check with the County prior to beginning the design of the extension to determine if there is a preferred main location. Utility mains and other facilities installed outside of dedicated Right of Way and required easements, will remain privately owned and maintained by the common property ownership. Some exclusions to this policy may be granted on a case-by-case basis at the discretion of the County.

1.1.6 The County will not inherit, own, or operate septic systems.

1.1.7 Systems constructed ~~in private roadways or~~ within commercial and residential private property will not be dedicated to the County and will remain under private ownership unless otherwise required by the Division Manager.

1.1.8 Connections to existing sewer mains shall not be made without first receiving all issued permits from Kitsap County. Work shall not be started until all traffic control, materials, equipment, and labor necessary to properly complete the work are assembled on the site. A physical copy of the Permit authorizing such work must ~~be on site at all times.~~ Once work is

Priority 2: Focusing on Development Issues – FOLLOW UP FROM WORKSHOP #1

Section 1.1.7 (Pg 10):

Removed the proposal for requiring non-dedication of utilities in private roadways.

Section 1.7.1, 1.7.1.3-4 (Pg 14):

Reworded blockage policy to be more specific on which steps happen first, added statements for reimbursement of homeowner incurred costs.

Section 3.3.4 (Pg 22):

Broke out allowance for Geotech to certify materials.

Section 3.3.9 (Pg 22):

Clarified any non-approved material rather than specifying only pea gravel.

Section 6.2.2.4(a) (Pg 32):

Added clarity on how ERUs are regulated for Accessory Dwelling Units.





Questions/Comments before Hearing

Anthony Burgess, PE
awburgess@kitsap.gov
(360)981-1767



Kitsap County Department of Public Works