SKYWAY
WATER AND SEWER
DISTRICT

2011
SIDE SEWER REGULATIONS

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SKYWAY WATER & SEWER DISTRICT
SIDE SEWER REGULATIONS

The following are the 2011 Side Sewer Regulations, revising and rescinding the Code set forth in Skyway Water & Sewer District Resolution No. 11-06-477, and any subsequent amendments thereto, regulating the use of public and private sewers and drains, private sewage disposal, the installation and connection of sewers to buildings, and the discharge of waters and wastes into the District's sanitary sewer system.

Any side sewer connection to the District sewer system shall be completed in accordance with the terms of these Side Sewer Regulations. All side sewer work must conform to State of Washington Department of Ecology (DOE), the Skyway Water & Sewer District, the Uniform Plumbing Code (UPC), Uniform Building Code (UBC), Best Management Practices (BMP's), and other local authority requirements.

The Property Owner agrees to comply with requirements of the most current edition of the following documents in the following order of precedence (1 presiding over 2, 3 and 4; 2 presiding over 3, and 4, and so forth):

1. Skyway Water & Sewer District's "Side Sewer Regulations" (this document)
2. Skyway Water & Sewer District's "Development Guidelines for Construction of Water & Sanitary Sewer Facilities"
3. Standard Specifications for Road, Bridge, and Municipal Construction" as published by the Washington State Department of Transportation (WSDOT).
4. Other Agency or Permitting Standards, Specifications, Requirements, etc.

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ARTICLE I

DEFINITION OF TERMS

1.01 BMP

Best Management Practice, generally referenced in these Regulations as regarding, but not limited to storm drainage discharges, erosion control, and sediment control.

1.02 COMMERCIAL STRUCTURE

The words "Commercial Structure" shall mean all structures other than Residential. Each Commercial Structure connected by canopy, breezeway, or other type cover shall be classed as a separate commercial structure.

1.03 CONTRACTOR

The person or firm, acting as an agent of the Property Owner, who actually constructs the water and/or sanitary sewer improvements. This may be the same party as the Property Owner.

1.04 DEPARTMENT OF ECOLOGY (DOE)

The Washington State Department of Ecology

1.05 DEPARTMENT OF HEALTH (DOH)

The Washington State Department of Health unless otherwise noted.

1.06 DISTRICT

The word "District" shall mean the Skyway Water & Sewer District, a municipal corporation, the Manager of the District, or the Manager's authorized representatives.

1.07 DISTRICT STANDARDS

The information included in the “Development Guidelines for Construction of Water and Sanitary Sewer Facilities” as adopted by the Skyway Water & Sewer District.

1.08 DOWNSPOUT

The word "Downspout" shall mean the leader or pipe above ground which is installed to conduct storm water from the roof gutter or any structure.

1.09 EQUIPMENT

The machinery, accessories, appurtenances, and manufactured articles to be furnished and/or installed under the contract.

1.10 INDUSTRIAL WASTE

The words "Industrial Waste" shall mean any liquid, solid, or gaseous substance, or combination thereof resulting from any process of industry, manufacturing, commercial food processing, business, trade, research, or development.

1.11 MATERIAL OR MATERIALS

These words shall be construed to embrace machinery, manufactured articles, materials of construction (fabricated or otherwise), and any other classes of material to be furnished in connection with the contract.

1.12 OCCUPANT

The word “Occupant” shall mean any Person or Owner in physical possession of a structure to which Sewer Service is available.

1.13 ORANGE BOOK

The Washington State Department of Ecology’s “Criteria for Sewage Works Design”, the current edition

1.14 PERFORMANCE BOND

A bond or other financial guarantee approved by the District, furnished by the Property Owner, and written by a corporate body qualified to write surety in the State of Washington, guaranteeing that the work will be completed in accordance with the plans and specifications.

1.15 PERSON OR OWNER

The words “Person or Owner” shall mean any individual, company, partnership, corporation, association, society or group who has ownership of a structure to which sewer service is available and the singular term shall include the plural.

1.16 PRIVATE SEWER

The words “Private Sewer” shall mean a Sewer, exclusive of Side Sewers, which are neither owned nor operated by the District.

1.17 PUBLIC SEWER

The words “Public Sewer” shall mean a Sewer, exclusive of Side Sewers, owned or operated by the District.

1.18 RESIDENTIAL STRUCTURE

The words “Residential Structure” shall mean a single family structure or a multiple family structure.

1.19 RIGHT-OF-WAY

Property that is owned by a public agency as a corridor to transport traffic and/or utilities. With regard to the Skyway Water & Sewer District this term will usually pertain to King County. It may also apply to, but not be limited to, Seattle Public Utilities, Seattle City Light, WSDOT, Tukwila, or Renton.

1.20 SANITARY SEWER

The term “sanitary sewer” and “sewer” shall both mean sanitary sewer unless otherwise noted.

1.21 SEWAGE OR DOMESTIC WASTES

The words “Sewage or Domestic Wastes” shall mean water carrying waste discharged from the sanitary facilities of structures occupied or used by people.

1.22 SEWER

The word “Sewer” shall mean a conduit designed or used to transport wastewater, and into which storm water, surface and ground waters are not intentionally admitted. See “Sanitary Sewer”.

1.23 SEWER SERVICE

The words “Sewer Service” shall mean the continuing acceptance by the District of the sewage or wastewater from a structure in the public sewer.

1.24 SEWER SERVICE STUB

That portion of a sewer service line that provides service to a property and extends from a sewer main to a right-of-way line, property line or easement line. Sewer service stubs shall be owned and maintained by the Property Owner.

1.25 SIDE SEWER

The words “Side Sewer” shall mean a conduit system (pressure or gravity) extending from the plumbing system of a structure(s) to and connecting with a Public or Private Sewer Main. Side sewers are privately owned. That portion of a sewer service line on private property that extends from the end of the sewer service stub to the building connection. The side sewer shall be owned and maintained by the Property Owner.

1.26 SIDE SEWER AS-BUILT DRAWING

The words "Side Sewer As-Built Drawing" shall mean a drawing prepared by the District in conjunction with the Side Sewer Permit, and shall show the "As-Built" location of the side sewer installation.

1.27 SIDE SEWER CONTRACTOR

The words “Side Sewer Contractor” shall mean any person, partnership, corporation or association duly qualified and competent to do work incidental to the construction or repair of side sewers under permits issued under these regulations and who shall have been duly licensed and bonded with the State of Washington. Licensed Side Sewer Contractor employed by the Property Owner.

1.28 SKYWAY

Skyway Water & Sewer District

1.29 STORM DRAIN

The words “Storm Drain” shall mean a conduit designed or used to transport storm water.

1.30 STORM WATER

The words “Storm Water” shall mean rainfall, or waters on the surface of the ground or underground resulting from rainfall or other natural precipitation.

1.31 UBC

Uniform Building Code, most current edition

1.32 UPC

Uniform Plumbing Code, most current edition

1.33 WASTEWATER

The words “Wastewater” shall mean water-carrying wastes containing either or both sewage and industrial waste.

ARTICLE II

USE OF SEWERS

2.01 RESPONSIBILITY FOR REPAIRS AND MAINTENANCE

The limit of responsibility of the District shall be maintenance of the public sewer. Side sewers shall be maintained by the Property Owners served. When and if the District is required to maintain and/or repair a side sewer or private sewer in order to protect the operation of the public sewer, the cost for such maintenance/repair shall be charged to the Owner of the property(ies) served by the side sewer. The District may provide private side sewer replacements as a part of a local or regional sewer infrastructure improvement project.

2.02 SIDE SEWER CONNECTIONS

All plumbing outlets shall be connected to the side sewer.

2.03 WASTES OTHER THAN DOMESTIC OR INDUSTRIAL

The discharge into any sewer by direct or indirect means of any of the following is prohibited:

A. Subsoil Foundation Drains.

B. Footing Drains.

C. Window Well Drains.

D. Door Well Drains.

E. Yard Drains.

F. Unroofed Basement Floor Drains.

G. Overflows from unpolluted water storage facilities.

H. Clear water from refrigeration, reverse-cycle heat pumps and cooling or air-conditioning equipment, except for the periodic draining and cleaning of such Systems.

I. Roof drains or downspouts from areas exposed to rainfall or other precipitation.

J. Surface or underground waters.

K. Any liquid or vapor having a temperature higher than 150 degrees Fahrenheit.

L. Any waste that contains more than 100 parts per million by weight of fat, oil, or grease.

M. Any gasoline, benzene, naphtha, oil, or other flammable or explosive liquid, solid, or gas.

N. Any garbage that has not been properly shredded and diluted with water.

O. Any ashes, cinders, sand, mud, straw, hair, shavings, metal, glass, rags, feathers, tar, plastics, wood, or any other solid or substance capable of causing obstruction to the flow in sewers or improper operation of the sewage works.

P. Any waste having a pH lower than 5.5 and higher than 8.5 or having any other corrosive property capable of causing damage or hazard to the structures, equipment or personnel of the District.

Q. Any waste containing a toxic or poisonous substance in sufficient quantity to injure or interfere with any sewage treatment process.

R. Any waste containing suspended solids of such character and quantity that unusual attention or expense is required to handle such materials in the public sewer system or at the sewage treatment plant.

S. Any obnoxious or malodorous gas or substance capable of creating a public nuisance.

T. Septic tank effluent or sludge, except from District approved systems.

2.04 CONNECTION OF CESSPOOLS, SEPTIC TANKS, TRAPS, AND INTERCEPTORS

A. Direct connection from the plumbing fixtures in the structure to the public or private sewer is required.

B. Any connection to a cesspool or septic tank will be removed, and proper connection directly made to the new side sewer. Cesspools or septic tanks shall be abandoned, removed, and properly backfilled by the property Owner.

C. A District-approved grit and oil/water separator shall be required for vehicle wash down facilities.

D. A District-approved grease interceptor shall be installed where required by the District in accordance with the current Fats, Oils, and Grease (FOG) regulations to protect the District's sewer system. All facilities must meet the requirements of the District and/or the King County's Department of Natural Resource, Water and Land Division, Industrial Waste Program for legal fats, oil and grease discharge to sewers, whichever is more stringent. All commercial or industrial facilities, schools, churches, or other non-single family residential facilities that have food service facilities or car washes shall be equipped with 1,000-gallon (minimum) grease interceptors. Submit sizing calculations for District review. A Guide to Restaurant Grease Management is included in Appendix I of these Regulations. All commercial building pads with unidentified or potentially variable uses must be provided with a grease interceptor at the time of initial construction. Provide graywater plumbing to building pad(s).

E. A grease interceptor for an existing public or private facility (restaurant, school, car wash, etc.) may be required if grease build-up becomes present in the downstream public sewage system.

2.05 DECOMMISSIONING OF SEPTIC TANKS

After connection to the sewage system, all septic tanks and similar private sewage disposal facilities shall be decommissioned by the following means:

A. Pump the facility dry by a company licensed in the State of Washington to do so.

B. Remove and dispose of the tank's lid, or break the lid into pieces to be used in the backfilling of the tank. Broken pieces of lid used in the backfilling of the tank shall be of such shape and size and placed in such a manner as to avoid the creation of voids.

C. The tank shall be filled with non-compressible, non-biodegradable material.

ARTICLE III

OBTAINING SIDE SEWER PERMIT

3.01 SEWER AVAILABILITY AND SIDE SEWER PERMIT

A new Side Sewer Permit is required when a new structure is constructed, or an alteration affecting the side sewer is made. No person shall extend, repair, replace or make connections to a public, private or side sewer within the property lines without first obtaining a permit from the District, calling for utility locates, and requesting proper inspection of the work by the District.

A Side Sewer Permit is also required when an existing structure is demolished or disconnected from sewer service. Any existing side sewer proposed for re-use for a new building shall meet the current existing Regulations, or be shall replaced by the Property Owner. No work shall be done regarding the re-use of a disconnected side sewer without approval and inspection of the District.

Anyone wishing to connect a new side sewer to the District's sewer system must contact the District and provide a written request for Sewer Availability. The written request shall include a complete legal description of the parcel, a description of the proposed use of the parcel, a site plan, proposed side sewer location and route, flow requirements, and legal ownership.

A Side Sewer Permit shall be applied for by the Owner or the Side Sewer Contractor, at no cost or liability to the District, and issued by the District prior to any work side sewer work being performed either on private property or within public rights-of-way. Applications for Side Sewer Permits must be submitted at least 24 hours prior to side sewer Preconstruction Conference. If any portion of the installation is within right-of-way, time must be allowed for issuance of King County, City of Renton, City of Tukwila, or City of Seattle right-of-way permit, whichever entity has jurisdiction.

Side sewer installation shall meet the requirements of the most current version of the Skyway Water & Sewer District's Side Sewer Regulations.

Sewer Availability and Sewer Connection forms are included in Appendices B and C of these Regulations.

3.02 PERSON WHO MUST APPLY FOR PERMITS

Application for a Side Sewer Permit will be made personally by the Owner of the property to be served, or by the Owner's authorized agent.

3.03 MATERIAL REQUIRED FOR THE PERMIT APPLICATION

In making an application for a Side Sewer Permit, the Owner or authorized agent shall furnish a site plan showing the size and location of structures on the property, the Owner's name, address, and legal description of the property to be served. The full course of the proposed side sewer from the public sewer in the street to the structure

shall be shown on the plan. Where easements are required, they shall be obtained by the Owner at the Owner's expense and filed with the King County Recorder. Prior to issuance of the permit, a copy of the recorded easements shall be provided to the District.

3.04 PERMIT FEES

Prior to the issuance of any permit, all fees identified on the application shall be paid to the District. The permit fees shall be as established by the District's current fees and rates resolution.

3.05 TERM OF USE

The side sewer construction shall be complete and accepted within one year of date of issuance of the Side Sewer Permit. If allowed by the Property Owner to expire, a new Side Sewer Permit shall be applied for and applicable fees paid.

3.06 PUBLIC RIGHT-OF-WAY PERMIT

A Right-of-Way Permit is required for side sewer work in a public right-of-way. Under its franchise agreement with the underlying land use agency, the District will use its reasonable efforts to obtain the Right-of-Way Permit at Property Owner's expense, on behalf of the Property Owner. The Property Owner shall provide the District with necessary documents required to obtain the permits. The Property Owner and their Contractor agree to comply with all State and County regulations applicable to Developer and/or Contractor while construction is in progress in King County rights-of-way. The Owner shall pay the District for the Right-of-Way Permit at the time that the side sewer permit is purchased. The Right-of-Way Permit is typically issued in approximately 3 weeks. No work shall be performed on the side sewer until the Right-of-Way Permit is obtained and the Preconstruction Conference is conducted.

3.07 CLEARING AND GRADING OR BUILDING PERMIT

The Owner shall be responsible for obtaining a clearing and grading permit or building permit, if required, from the underlying land use agency for installation of the side sewer on private property. The Owner shall furnish a copy of the permit and the permit number to the District prior to beginning work on the side sewer.

3.08 PRIVATE EASEMENTS

The Property Owner shall provide the District with supporting data to verify the location of all proposed private easements for side sewers entering / crossing other private property to connect to the sewer main. A legal description of the easement alignment shall be provided on the private easement document. All private easements shall consist of a tract a minimum of ten (10) feet in width. Exception may be granted by the District if appropriate considering the depth of the proposed side sewer, and the surrounding

terrain. Easements shall be clearly written in a manner that the easement can be plotted from the description. Sample easements are included in Appendix F of these Regulations.

All easements shall be approved by the District prior to their recording with King County. Proof of recording of the private sanitary sewer easements outside of the Owner's property shall be recorded by the Property Owner and a copy delivered to the District prior to the District's approval of the side sewer construction.

3.09 KING COUNTY CAPACITY CHARGES

The property Owner is responsible to King County for the King County Sewage Treatment Capacity Charge for new connections to the sewer system. This fee is collected by the District, and forwarded in its entirety to King County's Wastewater Division. See Appendix C for the Residential Sewer Use Certification Sewage Treatment Capacity Charge form.

3.10 BEST MANAGEMENT PRACTICES

The Contractor/Property Owner shall conform to the most recent version of the Washington State Department of Transportation's "Best Management Practices Field Guide for ESA 4(d) Habitat Protection", and follow the State and King County requirements/guidelines for all aspects of the construction project. BMP's shall be used for work including, but not limited to, sedimentation and erosion control, dewatering, the discharge of flushing water, the monitoring and control of pH, turbidity and temperature of discharged wastewater, and the containment and proper disposal of sawcutting of existing pavement, curb and sidewalks.

3.11 PRECONSTRUCTION CONFERENCE

The Side Sewer Contractor shall contact the District to schedule a Preconstruction Conference for all side sewer installations occurring in the public right-of-way at least 48 hours in advance of the Work. Scheduling of the meeting shall not occur until the District has approved the side sewer plan, and a Certificate of Insurance have been provided to the District. The pre-construction meeting will be held at the project site during normal District office hours. For installations involving a Right-of-Way Permit, the Preconstruction Conference will not be conducted until the District has received the Right-of-Way Permit. The District will coordinate the scheduling of the meeting with the right-of-way inspector.

Side Sewer Contractors or the Owner shall contact One-Call for utility locations. The phone number is 811 or 1-800-424-5555.

3.12 CALL FOR JOB START

Before beginning ANY work in contact with the District's existing system, such as an existing side sewer stub or connection to the existing sewer main, the Side Sewer Contractor shall schedule an initial inspection with the District at least 24 hours in advance. The District's representative must be present for installation of any connection to the District's existing system, including removal of an existing side sewer cap. Failure to call for an initial inspection will result in the Side Sewer Contractor having to clean and conduct a television inspection of the downstream sewer main to remove any debris that may have entered the District's sewer system.

3.13 UNAUTHORIZED WORK

No work shall be started on any side sewer without a permit. No Side Sewer Contractor shall do any side sewer work under any other person's permit, nor shall any unauthorized person do any side sewer work under a Licensed Side Sewer Contractor's Permit. If work is started on any side sewer without a permit or authorization from the District, a fine of $1,000 can be levied against the violator.

3.14 TIME OF ISSUING PERMIT

No permit will be issued for a side sewer connection before the District has accepted the public sewer to which the side sewer will be connected.

3.15 POSTING OF PERMIT

The Contractor's copy of the Side Sewer Permit and side sewer plan shall be readily available on the job to the District representative. No inspection will be made unless such permit and plan is readily available on the job site. The Contractor shall be responsible for all additional costs incurred by the District for additional inspections.

3.16 RESPONSIBILITY OF SIDE SEWER CONTRACTOR

The Side Sewer Contractor shall be responsible for abiding by all applicable requirements of these Regulations.

The District shall at all times have access to the work for the purpose of verifying compliance with the District's requirements, including observation of system testing, and recording as-built information for the sewer card. The Owner shall provide proper and safe facilities for such access and for such observation.

If any work should be covered up without approval or consent of the District, it must be uncovered for review by the District at the Owner's expense.

The Owner shall make tests of the work at the Owner's expense in the presence of the District or their representative.

3.17 FAILURE TO COMPLY WITH PERMIT PROVISIONS

If any work done under a Side Sewer Permit is not in accordance with provisions of these Regulations, and if the Contractor or person doing the work fails and/or refuses to properly construct and complete such work, notice of such failure or refusal shall be given to the Owner or Occupant of the property. The District may cause said work to be stopped. The Owner and/or Contractor shall be responsible for all additional costs incurred by the District related to Owner's and/or Contractor's failure to properly complete the work. If the District incurs costs, it will be billed out for time, materials, and a 15% administration charges.

If the work in the opinion of the District constitutes a hazard to public safety, health, or the public sewer, the District may complete such work. The cost of such work and any materials necessary therefore shall be charged to the Owner and/or Contractor and shall be payable by the Owner and/or Contractor immediately upon written notice given by the District of the amount or by posting a notice on the premises.

3.18 COMPLETION OF WORK

All work shall be completed promptly and in compliance with the governing agency's (City or County) requirements. If such work is not in compliance with governing agency's requirements (King County, City of Renton, City of Tukwila, or the City of Seattle), any costs incurred by the District to bring such work into compliance and to restore the Right-of-Way or private property shall be charged to the property Owner, and shall be payable immediately to the District upon written notification to the Owner.

ARTICLE IV

SIDE SEWER CONTRACTOR LICENSE AND INSURANCE

4.01 INTRODUCTION

Any Side Sewer Contractor intending to do business within the District shall meet the following requirements.

4.02 GENERAL QUALIFICATION

A Side Sewer Contractor must be licensed and bonded with the State of Washington to conform to the nature of the work. A Side Sewer Contractor must provide the District with proof of license and insurance.

4.03 SIDE SEWER PERMIT FEE

The District's current Side Sewer Permit fee shall be charged at the time of side sewer permit acquisition from the District. This permit fee is good for twelve (12) months from the date of acquisition. After twelve months a new Side Sewer Permit and payment of the associated permit fee is required.

4.04 INSURANCE

The Side Sewer Contractor shall obtain and keep in force public liability and property damage insurance with the minimum amounts and coverage as shown below. Any insurance policies shall be issued by companies authorized to do business under the laws of the State of Washington.

A Certificate of Insurance shall be provided to the District and must include "Side Sewer Installations" in the Description of Operations. The insurance certificate must include the provision that such insurance shall not be canceled without at least forty-five (45) days written advance notice to the District.

This insurance certificate must be in the amount of:

Commercial General Liability

- $1,000,000 per occurrence liability (including extended bodily injury)
- $2,000,000 annual aggregate
- Employees and volunteers as additional insureds
- Premises and operations
- Broad form property damage including the hazards of underground, explosion, and collapse (XCU)
- Products completed operations
- Blanket contractual

- Subcontractors
- Personal Injury with Employee exclusion deleted
- Employers liability (Stop gap)

Automobile Liability

- $1,000,000 per accident bodily injury and property damage liability, including
- Any owned automobile
- Hired automobiles
- Non-owned automobile

Umbrella Liability

- $2,000,000 per occurrence
- $2,000,000 aggregate

A. As an alternative to be above indicated Commercial General Liability and Umbrella Liability insurance policies, the Contractor may provide the District with an Owners and Contractors Protective (OCP) policy with a limit of coverage of $5,000,000.

B. The Contractor shall additionally provide the District with evidence that the District has been named as additional insured on the Contractor's general liability policy for at least products completed operations coverage.

C. Providing of coverage in the stated amounts shall not be construed to relieve the Developer from liability in excess of such limits.

4.05 INDEMNIFICATION AND HOLD HARMLESS

Where Owner does work themselves (without a licensed Side Sewer Contractor) they must complete and provide to the District a Hold Harmless and Indemnity Agreement as found in Appendix C of these Regulations.

ARTICLE V

SIDE SEWER CONTRACT WITH OWNER

5.01 SKYWAY WATER & SEWER DISTRICT REGULATIONS

Contracts between Property Owners and Side Sewer Contractors shall provide that such Side Sewer Contractor will comply with all District regulations.

5.02 SPECIAL RELEASES

A. Minimum Grade, Elevation, and/or Depth of Cover Release: If it is determined that one or more of the conditions occur, the Property Owner shall sign and provide the District with a grade release waiver in a form.

1. If the side sewer grade (slope) is determined to be inadequate the grade of the side sewer is to be less than 2% or 1/4 inch per foot.
2. If the side sewer elevation results in an unusual danger of backup, as described in Section 7.13 of these Side Regulations.
3. If the depth of cover over the side sewer pipeline is less than prescribed by Section 7-07 of these Side Sewer Regulations.

The District will record the Release in the office of the County Recorder before acceptance. Recording fees shall be paid by the property Owner. See Appendix D for the Grade Release Waiver Form. The effect of said release waiver shall be to release the District from all future claims for damages due to the installation of said side sewer.

B. Joint Side Sewer: Joint side sewers are not allowed for new or replaced side sewers.

When two or more existing structures not in common ownership are connected to one side sewer (joint side sewer), easements running with the land must be executed and recorded with the County Recorder. Said easements shall be approved by the District, and shall insure that all properties involved shall have perpetual use of the side sewer. Said easements shall contain provisions for joint responsibility for costs of maintenance, repair, and access, and shall be signed by the Owners of the properties subject to the easement. The easement shall be acknowledged, and must be recorded by the Property Owners with the County Recorder and a copy given to the District before a permit will be issued for construction.

C. Side Sewer Stub Location: When a side sewer connection to the sewer main is not along the property frontage, the property Owner shall provide, and provide and record a “Declaration of Restrictive Covenant Notice for Sanitary Sewer Service” per Appendix E of these Regulations.

D. Grinder Pump Side Sewer: Any property that connects into the sewer system with a District approved grinder pump system must sign a Grinder Pump Service Agreement with the District at the time of the side sewer application, and provide and record a "Declaration of Restrictive Covenant Notice for Grinder Pump Side Sewer" per Appendix E of these Regulations.

E. Fees: The Owner or Owners of properties affected shall pay for the recording fees due to grade releases, easements, and covenants.

ARTICLE VI

LOCATION OF EXISTING SEWER STUB

6.01 CONNECTION TO DESIGNATED STUB

Connection of the side sewer shall be made to the stub designated at the time the side sewer permit is issued, unless written permission to do otherwise is obtained from the District.

6.02 STUB LOCATION

The side sewer stub location, as provided by the District, is to the best of the District's records. The locations of existing stubs are usually shown on as-built drawings furnished to the District by others. The District makes no warranty, express or implied, about the accuracy or completeness of such as-built drawings.

6.03 PROSPECTING FOR STUB

If the stub cannot be located with the measurements as furnished by the District, the Side Sewer Contractor shall prospect four feet in all directions, as site conditions allow, from the distance and depth given. If such prospecting fails to disclose the stub, the Contractor shall immediately contact the District and report the circumstances.

ARTICLE VII

MINIMUM REQUIREMENTS FOR INSTALLATION OF SIDE SEWERS - GENERAL

7.01 DISTRICT NOTES

Specifications associated with sewer construction are included in Appendix G of these Regulations. These Notes originate from the District's "Guidelines for Construction of Water and Sanitary Sewer Facilities". The Owner and their Side Sewer Contractor shall be familiar with and comply with the content of these Notes.

7-02 PIPE HANDLING AND STORAGE

Side sewer pipes shall be stored in unit packages provided by the manufacturer. Stored pipe and fittings shall be covered with an opaque material to prevent exposure to direct sunlight. They shall be stored in a manner to prevent excessive heat accumulation. Blows to the pipe causing impact damage shall be prevented. Pipe and fittings shall not be thrown, dropped or dragged. Rubber gaskets shall be stored in a cool, dark location, away from grease, oil and ozone. Pipes and/or fittings not conforming to these requirements or damaged in transit shall be rejected by the District.

7.03 SIDE SEWER LOCATIONS

A. All lots shall have the side sewer located within their own frontage and shall not be located in private side sewer easements without the express prior written consent of the District.

B. Structures that shall not be constructed over the side sewer lines include, but are not limited to, fences, carports, buildings, landscape timbers, retaining walls, mailbox stands, trees, and rockeries.

C. The maximum number of side sewers connected to a manhole is two (2).

D. Side sewers parallel to the foundation wall of any building shall be laid not less than thirty (30) inches from the foundation or building.

7.04 WATER / SANITARY SEWER SEPARATION

A. Parallel water and sewer lines shall be laid at least ten horizontal feet apart wherever possible.

B. Where it is necessary for sewer and water lines to cross, the crossing shall be made at an angle of ninety (90) degrees and the top of the sewer shall be located eighteen (18) inches or more below the bottom of the water line if possible. The longest standard length of sewer pipe shall be installed so that the joints will fall equidistant from any water crossing.

C. Where requirements A and B cannot be achieved, additional mitigation efforts, as allowed by the most recent edition of the Washington State Department of Ecology's "Orange Book" shall be considered.

7.05 OTHER UNDERGROUND FACILITIES

No other underground facilities shall be installed closer than three (3) feet horizontally to the side sewer pipeline as installed.

7.06 RETAINING WALLS / ROCKERIES OVER SIDE SEWERS

In instances where retaining walls or rockeries are to be constructed over (and perpendicular to) a side sewer, the side sewer shall be installed within a steel casing pipe with District-approved spacers. The steel casing shall extend at least ten (10) feet each side of the retaining wall/rockery.

ARTICLE VIII

MINIMUM REQUIREMENTS FOR INSTALLATION OF SIDE SEWERS - GRAVITY

8.01 GRAVITY SIDE SEWER PIPE MATERIALS

Gravity side sewer pipe shall be PVC, ductile iron, or HDPE and meet the following requirements:

PVC Pipe: All PVC gravity sewer pipe and fittings manufacture and installation shall meet or exceed the ASTM recommended specifications D3034-73, latest revision, and all installation shall be in strict compliance with the manufacturer's directions. All pipe shall be clearly marked with the date of manufacture. Any pipe with a manufacturing date 10-years or older shall not be allowed. All pipe shall be provided with a reference mark for proper spigot insertion. Joint gaskets shall meet the requirements of the latest revision of ASTM 1869.

Ductile Iron Pipe and Fittings: All ductile iron pipe shall conform to the latest revisions of ASA Specification A21.51 and AWWA Specification C151, Class 52. Grade of iron shall be a minimum of 60-42-10. Ductile iron pipe for all sanitary sewer applications shall be provided with an interior coating/lining of polyethylene meeting the requirements of ASTM D1248 or Protecto 401 ceramic epoxy, 40 mil minimum thickness. A bituminous coating shall be applied to the pipe's exterior.

Ductile iron fittings shall meet the current application ASA A21.10 (AWWA C110) and ASA A21.11 (AWWA C111). Ductile iron fittings for all sanitary sewer applications shall be provided with an interior coating/lining of polyethylene meeting the requirements of ASTM D1248 or Protecto 401 ceramic epoxy, 40 mil minimum thickness. A bituminous coating shall be applied to the fitting's exterior.

High Density Polyethylene (HDPE) Pipe and Fittings: All pipe and fittings shall bear identification markings in accordance with AWWA designations for HDPE pipe.

The pipe material shall meet the requirements for Type III, Class C, Category 5, Grade P34 material as described in ASTM D1248. Pipe and fittings shall be made in conformance with ASTM F714 and ASTM D3261 as modified for the specified material.

Butt-fusion of gravity side sewer pipes and HDPE fittings shall be performed in accordance with the pipe manufacturer's recommendations as to equipment and technique. The pipe shall be fused in the manner recommended by the pipe supplier and/or the fusion machine manufacturer and reviewed for compliance by the District during construction.

8.02 PIPE DIAMETER

A. No side sewer less than six (6) inches in diameter shall be laid in public right-of-ways or in easements.

B. Single Residence Connection

Side sewers serving a single residential structure shall be six (6) inches in diameter from the sewer main to the property line and a minimum of four (4) inches in diameter on private property to the residence.

C. Non-Single Family Connection

Side sewers serving a non-single family residential structure shall be a minimum of six (6) inches in diameter extending from the sewer main to the building, and shall connect to the sewer main at a (new or existing) manhole.

D. Joint Side Sewers

Replacement of an existing side sewer serving two single-family residential structures shall consist of a six (6) inch diameter (minimum) pipe extending from the sewer main to the wye that is installed at the confluence of the separate side sewers, and extending from the wye to the respective property line for which the side sewer is being installed. A minimum pipe diameter of four (4) inches is allowed from the property line to the building.

New joint side sewers are <u>not</u> allowed.

8.03 <u>CLEANOUTS</u>

Cleanouts shall be as shown on the Standard Detail SS12. Cleanout tees shall be double sweep.

A. Cleanouts

1. Cleanouts shall be installed at intervals not to exceed one hundred (100) feet in straight runs and for each aggregate horizontal change in direction exceeding ninety (90) degrees.
2. A cleanout shall be installed where the side sewer connects to the building stub, and the cleanout shall be no more than three feet from the building foundation.
3. Additional cleanouts, including those for commercial property, shall be installed at locations as designated by the District in accordance with District standards.
4. For single-family residential side sewers, cleanout accesses located in unimproved or landscaped areas shall be no more then 12-inches below ground surface. Cleanout located in sidewalks, pavement, or other improved areas and all cleanouts installed as part of a non-single family development shall be brought to grade as shown in the District's Standard Vertical Sewer Cleanout Detail SS12.

B. Test Tee

A test tee shall be provided at the point of connection to the sewer main, and at any other required point or points in order to insure that all portions of the side sewer or private sewer can be tested.

8.04 GRAVITY SIDE SEWER PIPE INSTALLATION

A. Side sewer shall be installed by a Side Sewer Contractor.

B. The Contractor shall provide and install trench shoring systems meeting the requirements of WAC Chapter 296.

C. Side sewers shall be installed perpendicular to the main and true to grade with the bells up grade. Side sewers within King County road right-of-way shall be placed within ten (10) degrees of perpendicular to road centerline. All side sewers shall be laid on a grade no less than 2-percent (¼ inch per foot) and no greater then one (1) foot vertical to one (1) foot horizontal. When changes in slope between connecting pipes exceeds the manufacturer's recommendations, standard bends shall be used.

D. Sides sewers that are 20-feet or greater in depth at the point of connection to the sewer main shall consist of C900 PVC pipe up to the transition point to 4-inch D3034 PVC.

E. The Contractor shall maintain sufficient pumping equipment on the job to keep side sewer trenches free from groundwater. Pump discharge from the project site shall be free from sediment and silt. Rock, boulder, roots, and other obstructions shall be entirely removed or cut out to the width of the trench and to a depth of 6 inches below pipeline grade. Where material is removed from below pipeline grade, the trench shall be backfilled to grade with material satisfactory to the Engineer and compacted meeting requirements of modified proctor test ASTM D1557.

F. The pipe trench shall be excavated to a depth as required for the installation of the pipe and the required pipe bedding. The Owner and their Contractor shall comply with all applicable OSHA and WISHA safety requirements.

G. Pipe Bedding

1. Bedding material for PVC side sewer pipe shall be crushed surfacing top coarse per WSDOT Standard Specification 9-03.9(3), or pea gravel (100% passing 3/8" Sq. opening, 0-5% passing a No. 8 Sieve).

2. Bedding material shall be placed from a minimum of four (4) inches below the pipe barrel to twelve (12) inches over the top of pipe as shown in the District's Standard Trench Section for Sewer Pipe Detail (SS01). The bedding shall be placed before the pipe is installed and shall be spread smoothly so that the pipe is uniformly supported along the barrel.

Subsequent lifts of not more than six (6) inch thickness shall be placed and individually compacted by hand, to avoid damaging the pipe.

3. Removal of shoring or moveable trench shields or boxes shall be accomplished so that the bedding material placement is not disturbed.

H. Trench Backfill

1. Imported trench backfill and native trench backfill material shall be compactable per Section H3 (below), and shall be free from wood, bark, roots or other extraneous material.

2. Where the side sewer extends through the public right-of-way, the backfill material shall be crushed surfacing base course, or as required by the agency having jurisdiction over the public right-of-way. Where governmental agencies have jurisdiction over roadways, the backfill and compaction shall be done to the satisfaction of both the District and the agency having the jurisdiction over roadways.

3. Trench compaction shall determined per the Modified Proctor Test, and shall be to 90% of maximum density in private unimproved areas, and 95% in roadways, driveways, sidewalk areas, and in the public right-of-way. Compaction testing shall be by a certified testing laboratory. All test results shall be provided by the Applicant to the District.

   Compaction shall be with the use of a mechanical compactor in a manner acceptable to the District unless otherwise required by the agency that has jurisdiction over a public right-of-way.

4. All bedding, laying and jointing shall be done in accordance with the pipe manufacturer's recommendations.

8.05 MINIMUM SURFACE COVER FOR PIPE

A. Minimum cover for side sewers on private property shall be eighteen (18) inches.

B. Minimum cover for side sewers at property line shall be five (5) feet.

8.06 CONNECTION TO EXISTING SEWER MAIN

Where no tee or wye is provided or available, connection shall be made by machine-made tap and approved saddle, or otherwise as approved by the District. Connections where a new building sewer is the same size as the existing main shall be accomplished by the installation of a new manhole.

Taps shall not be allowed to protrude into the existing main. Maximum angle of service tap is 45 degrees.

The District shall be notified two (2) full working days prior to a tap of a District sewer. A District representative shall be present to witness the tap. The mainline at the tap location shall be videotaped, at the Property Owner’s expense, after tapping and prior to

approval to ensure compliance. The manufactured bevel on the pipe to be inserted into the saddle shall be cut off to avoid pushing the pipe too far into the main.

New side sewer connections on an existing sewer main for a single connection (not in conjunction with a new development) shall conform to the District Standards and the requirements listed below.

A. For existing D3034 PVC Sewer Main (less than 20 feet in depth), the side sewer connection shall be one of the following:

   1. Cut-in PVC side sewer tee
   2. Insert-a-Tee, installed per Inserta Fittings Co.'s requirements
   3. Romac "SST" Stainless Steel Tapping Sleeve with gasket sized for D3034 PVC side sewer; or Romac side sewer saddle, Model CB.

B. For existing C900 PVC Sewer Main (20 feet or greater in depth), the side sewer connection shall be a cut-in tee of one of the following materials:

   1. C900 PVC side sewer tee with a C900 side sewer up to the transition point to 4-inch D3034 PVC
   2. Epoxy-lined ductile iron tee with two (2) epoxy-lined ductile iron sleeves with a C900 side sewer up to the transition point to 4-inch D3034 PVC
   3. Romac "SST" Stainless Steel Tapping Sleeve with gasket sized for D3034 PVC side sewer; or Romac side sewer saddle, Model CB.

C. For existing ductile iron Sewer Main (20 feet or greater in depth), the side sewer connection shall be one of the following materials:

   1. Epoxy-lined ductile iron tee with two (2) epoxy-lined ductile iron sleeves with a C900 side sewer up to the transition point to 4-inch D3034 PVC
   2. Romac "SST" Stainless Steel Tapping Sleeve with gasket sized for D3034 PVC side sewer; or Romac side sewer saddle, Model CB.

D. The existing sewer pipe shall be cut with a saw or approved equal to give a smooth symmetrical edge of the proper size and the lip shall be filed smooth.

E. When installing a side sewer saddle, the pipe cut-in shall be in accordance with the manufacturer's instructions for a tapping tee or Insert-a-Tee. The connection to the main must be reviewed by District personnel during installation. If the existing pipe becomes cracked or damaged during the cut-in, the damaged section shall be replaced to the satisfaction of the District.

F. Connection to the house soil pipe shall be made by means of flexible clamp-type coupling or other method approved by the District.

G. All connections must be clean and visible during inspection.

8.07 CONNECTION TO EXISTING SEWER MANHOLE

Connections to existing manholes shall be made as follows:

A. Manholes must be core drilled.

B. A water tight joint (Kor-n-Seal boot or approved equal) shall be provided where the pipe passes through the manhole wall. The nut of the Kor-n-Seal boot shall be positioned away from the crown of the pipe so that it does not interfere with jetting equipment.

C. If the manhole is "live", the manhole channel shall be tightly covered to prevent debris from entering the sewer line prior to breaking into the manhole wall. Immediately after the connection is made, the new pipe shall be plugged and blocked in such a manner that no water shall enter into the existing manhole. The plug shall not be removed without permission of the District.

D. If the existing manhole is not "live", a plug shall be installed in the downstream or discharge pipe of the existing manhole in addition to the above. Where new connections to existing manholes require an outside drop, two plugs for each drop shall be installed and blocked.

E. The existing manhole shall be rechanneled per the Gravity Sewer Notes. See Appendix G of these Regulations.

F. The opening through which the side sewer passes shall be completely and thoroughly grouted.

8.08 GRAVITY FLOW BELOW MINIMUM ELEVATION

Wherever a situation exists involving an unusual danger of backup, the District may require the minimum elevation at which the structure drain may be discharged to the sewer. Sewers below such minimum elevation, if allowed by the District, shall be lifted by artificial means.

Chapter 7 of The Uniform Plumbing Code (UPC), as adopted by the WAC 51-56-003, requires backwater valves on building sewers where the finished floor is below the rim of the upstream manhole or below the main sewer level.

See Appendix D for Minimum Side Sewer Grade, Elevation, and Depth of Cover Release form.

8.09 BACKWATER VALVES

Backwater valves, if they are installed, must be located within the building footprint upstream of the cleanout. The District is not responsible for their installation, maintenance, or operation. The side sewer permit for a building with a backwater valve shall include a hold harmless clause which indemnifies the District against any liability, damage, or cost which may accrue from the installation and operation of a backwater

valve in the side sewer by providing and recording a Minimum Side Sewer Grade, Elevation, and Depth of Cover Release from per Appendix D of these Regulations.

Additional information about backwater valve requirements and considerations are included in Appendix I of these Regulations.

ARTICLE IX

MINIMUM REQUIREMENTS FOR INSTALLATION OF SIDE SEWERS - PRESSURE

9.01 PRESSURE SIDE SEWER APPROVAL

In any building structure in which the plumbing drain is too low to permit gravity side sewer flow to an existing or future gravity sewer along the property's frontage, an alternate means of side sewer conveyance must be considered. The use of grinder pump assemblies to "lift" sewage by artificial means and discharge into the sewer system may be allowed by formal approval of the District's Board of Commissioners. District approval will allow for permanent or temporary pressure side sewer connection depending on the location and depth of the available sewer main connection(s).

9.02 REDUCED PRESSURE BACKFLOW ASSEMBLY

The Property Owner shall install a reduced pressure backflow assembly on each water service at properties where pressure sanitary sewer facilities exist. The Owner shall take into account that the use of a reduced pressure backflow assembly may cause a reduction in pressure of the domestic water service.

9.03 GRINDER PUMP SIDE SEWER

Pressure side sewers, their associated grinder pump assemblies, and the potable water service reduced pressure backwater assembly shall be owned, operated, and maintained by the Property Owner. All pump installations must meet all building, plumbing, and electrical codes.

The design of any side sewer extension/connection shall conform to District Standards, the DOE's "Criteria of Sewage Works Design" (Orange Book), and any applicable standards as set forth herein.

Before any installation of a grinder pump system is made, the side sewer Owner will be required to provide and record a "Declaration of Restrictive Covenants & Notice For Grinder Pump Side Sewer" agreement per Appendix E of these Regulations.

9.04 PRESSURE SEWER MATERIALS

A. Grinder Pump Assemblies shall be Environment One model number DH071-___, (___ is dependant on depth) as manufactured by Environment One Corporation.

B. For individual grinder pump discharge pressure pipes, HDPE, SDR 11, rated at 200 psi minimum, shall be used. Pipe shall be provided with a continual green strip along its length.

HDPE pipe material and installation shall meet the requirements of publication MS-3/2009 by the Plastics Pipe Institute.

C. HDPE pipeline segments shall be connected by butt-fuse welding, or by use of stainless steel stiffening insert with compression couplings.

D. Grinder pump stations shall be equipped with both a check valve and a gate valve on the discharge line.

E. Pressure side sewer pipe shall be installed with tracer wire per Section 9-07 below.

F. Fitting configuration for connection to the existing District system shall be determined on a case-by-case basis, as proposed by the property Owner or Side Sewer Contractor. Fittings for pressure side sewer systems shall be brass or stainless steel. Joints shall be by compression style couplings. Joints, in pipes with diameter of 2-inch or less, shall be made only at pump basins, valves, fittings, and changes in pipe diameter. For pipe larger than 2-inch in diameter, joints between pipe sections shall be thermal fusion butt-welded. All flanges and fittings on pipes larger than 2-inch in diameter shall be thermal fusion butt welded to the pipe. Operators of fusion welding equipment shall be trained by pipe manufacturer, who shall certify that operator are qualified.

9.05 PRESSURE SIDE SEWER INSTALLATION

A. Side sewers shall be installed by a Side Sewer Contractor.

B. The method of connection of pressure side sewers to the District's sewer system shall be proposed by the pressure side sewer designer, and determined & reviewed by the District on a case by case basis. Pressure side sewers within King County road right-of-way shall be within ten (10) degrees of perpendicular to road centerline. Unless otherwise approved by King County Road Engineer, pressure side sewers shall be jacked or bored under road.

C. The Contractor shall provide and install trench shoring systems meeting the requirements of WAC Chapter 296. The Owner and their Contractor shall comply with all applicable OSHA and WISHA safety requirements.

D. The pipe trench shall be excavated to a depth as required for the installation of the pipe and the required pipe bedding.

E. The Contractor shall maintain sufficient pumping equipment on the job to keep side sewer trenches free from groundwater. Pump discharge from the project site shall be free from sediment and silt. Rock, boulder, roots, and other obstructions shall be entirely removed or cut out to the width of the trench and to a depth of 6 inches below pipeline grade. Where material is removed from below pipeline grade, the trench shall be backfilled to grade with material satisfactory to the Engineer and compacted meeting requirements of modified proctor test ASTM D1557.

F. Pipe Bedding

1. Bedding material for HDPE pressure side sewer pipe shall be crushed surfacing top coarse per WSDOT Standard Specification 9-03.9(3), or pea gravel (100% passing 3/8" Sq. opening, 0-5% passing a No. 8 Sieve).

2. Bedding material shall be placed from a minimum of four (4) inches below the pipe barrel to twelve (12) inches over the top of pipe as shown in the District's Standard Trench Section for Sewer Pipe Detail (SS01), see Appendix H of these Regulations. The bedding shall be placed before the pipe is installed and shall be spread smoothly so that the pipe is uniformly supported along the barrel. Subsequent lifts of not more than six (6) inch thickness shall be placed and individually compacted by hand, to avoid damaging the pipe.

3. Removal of shoring or moveable trench shields or boxes shall be accomplished so that the bedding material placement is not disturbed.

G. Trench Backfill

1. Imported trench backfill and native trench backfill material shall be compactable per Section G3 (below), and shall be free from wood, bark, roots or other extraneous material.

2. Where the side sewer extends through the public right-of-way, the backfill material shall be crushed surfacing base course, or as required by the agency having jurisdiction over the public right-of-way. Where governmental agencies have jurisdiction over roadways, the backfill and compaction shall be done to the satisfaction of both the District and the agency having the jurisdiction over roadways.

3. Trench compaction shall determined per the Modified Proctor Test, and shall be to 90% of maximum density in private unimproved areas, and 95% in roadways, driveways, sidewalk areas, and in the public right-of-way. Compaction testing shall be by a certified testing laboratory. All test results shall be provided by the Applicant to the District.

   Compaction shall be with the use of a mechanical compactor in a manner acceptable to the District unless otherwise required by the agency that has jurisdiction over a public right-of-way.

4. All bedding, laying and jointing shall be done in accordance with the pipe manufacturer's recommendations.

9.06 MINIMUM SURFACE COVER FOR PIPE

Pressure system side sewers shall have a minimum 36 inches of cover to top of pipe.

9.07 TRACER WIRE AND TRACER TAPE

All piping shall be installed with tracer wire for locating purposes. Tracer wire shall be installed for all non-metallic pressure service pipe. The wire shall be a continuous, 10-gauge, insulated copper wire, taped or fastened to the pipe a minimum of every 15 feet. Care shall be taken to preserve the integrity of the insulation of the tracer wire. The tracer wire must provide a continuous loop. The Contractor shall test the tracer wire for

continuity prior to paving or final restoration, in the presence of the District. Any damage shall be repaired at the Property Owner's expense.

Tracer wire shall be brought to final grade within all below-grade boxes, vaults, etc., in a manner acceptable to the District. Tracer Wire location boxes shall consist of the District's standard valve box. For sewer applications the lid shall be stamped "SEWER". Tracer wire location boxes shall be provided at each horizontal bend with a maximum distance between tracer wire access points being 300 feet. Each access point shall be provided with the following:

A. A 3/4" pipe saddle to the pipe (facing vertical). The saddle shall NOT be tapped, and shall have all rubber gaskets removed.

B. A vertical length of 3/4" copper or brass pipe shall be connected to the pipe saddle (with brass adapter if needed) and extended toward the ground surface within the location box (valve box per Standard Detail WA09 with lid reading "SEWER").

C. The 10-gauge wire shall be wrapped around the vertical copper or brass pipe or run within the copper or brass pipe, and extended to within two-inches (2") of the ground surface.

Tracer tape shall be installed for all non-metallic service gravity pipe. The tape shall be a continuously installed 12 to 18 inches under the final ground surface. The tape shall be non-biodegradable, bright-colored, continuously-printed plastic ribbon tape not less than 6-inches wide by 4-mil thick. Tape shall include a magnetically detectable non-separable metal core or backing.

9.08 CONNECTION TO GRAVITY SANITARY SEWER

Connections to an existing gravity sanitary sewer shall require a 6-inch PVC gravity side sewer. The Side Sewer Contractor shall install a gravity side sewer in conformance with the District's Standard Details. The transition between the HDPE pressure side sewer and the gravity side sewer shall require the installation of a pressure line to gravity sanitary sewer connection including installation of the six-inch (6") cleanout assembly at the property line. The six-inch side sewer shall connect to the sewer main per Section 8.06 of these Regulations.

The Property Owner shall submit a plan of their proposed force main termination facilities during the design review process. The District may also require shop drawings for further clarification to be submitted during the construction phase.

9.09 MANHOLES AT TERMINUS OF PRESSURE SIDE SEWER

The connection of new pipelines to existing manholes shall be accomplished by core-drilling the existing manhole. The discharge of sewage flow into the connecting channels shall be constructed so as not to interrupt existing flow patterns.

The pressure side sewer discharge manhole shall be coated with Tnemec Series 141 PotaPox 80, 16 mils Dry Film Thickness (DFT) (exterior); and Tnemec Series 435 Perma Shield, 40 mils DFT (interior), or a District-approved manhole coating system by Raven Lining Systems.

Preparation for both the exterior and interior of the manhole shall provide a surface that is clean, dry, and free from contaminants. Surface preparation shall meet the requirements of the product representative. Manhole voids shall be repaired with an approved surface filler prior to application of coatings. Surface preparation and coating applications shall be under the direction of the product representative.

9.10 GRINDER PUMP SYSTEM

The grinder sewer pump system shall be manufactured by Environment-One. The local supplier is Correct Equipment, Redmond, WA; phone number 1-877-371-4555.

The grinder pump system shall include the following items:

A. The tank shall be supplied with a pump guide rail system for removal of pump unit. All exposed surfaces on guide rail system shall be stainless steel including the lift chain.

B. The package system shall meet the requirements of the Washington State Department of Labor & Industries, Division for Residential grinder pump systems.

9.11 GRINDER PUMP INSTALLATION

A. Contact the District for a Preconstruction Conference before installation of any work or equipment associated with the grinder pump system. The Contractor shall determine the depth of the existing building's sewer discharge before the Preconstruction Conference.

B. The Contractor shall review the proposed grinder pump site layout with the District prior to installation of any work.

C. There shall be no additional junction boxes, splices or changes made once the system has been installed and inspected by District personnel. Anyone tampering with the approved system shall be liable to the District for any expense, loss, damage, cost of inspection or cost of correction incurred by the District, plus a penalty not to exceed $1,000.

D. The grinder pump tank shall be installed so that the finished grade shall be free draining around and away from the tank so that surface water cannot pond around the station.

E. Position the grinder pump tank to minimize the number of bends in the discharge pressure piping. Any necessary bends should be installed in the gravity portion of the side sewer.

See Appendix E of these Regulations for the District's "Declaration of Restrictive Covenants & Notice For Grinder Pump Side Sewer" agreement.

9.12 EXISTING GRINDER PUMP REMOVAL

A. Obtain Permit from Skyway Water & Sewer District for abandonment of the grinder pump assembly which includes connecting to gravity sewer system.

B. Shut off breaker in house panel.

C. Shut off breaker on outside panel.

D. Unplug and remove pump core.

E. Pump remaining sewage from chamber.

F. Flush side sewer discharge line.

G. Remove top of pump chamber 6 inches below grade and fill chamber with compacted granular material, or

H. Remove chamber and backfill with compacted granular material.

I. Remove electrical wire and conduit.

J. Install new side sewer connection and as-built sewer installation.

ARTICLE X

INSPECTION AND TESTING OF SIDE SEWER INSTALLATIONS

10.01 CALL FOR INSPECTION

Arrangements for inspection of a side sewer or grinder pump system installation shall be made with the District at least 24 hours in advance. The District reserves the right to set the time for facility review. Side sewer permits must be obtained from the District prior to scheduling an inspection. All inspections will be performed during normal working hours. Cancellations must be made a minimum of one (1) hour before the scheduled appointment. Additional inspection may result in additional fees in accordance with the District's fee schedule.

The Property Owner shall make arrangements separately for grinder pump system electrical inspection with the appropriate agency.

10.02 ACCESS FOR SIDE SEWER CONSTRICTION REVIEW

The Owner agrees to allow access by authorized representatives of the District on to the property described in the Permit at any reasonable time for the purpose of review and inspection for compliance with District regulations.

10.03 TESTING OF FINAL INSTALLATION - GRAVITY AND PRESSURE SIDE SEWERS

The Contractor shall not perform system testing for District review without the District's representative being present. The Side Sewer Contractor or job foreman must be present at the job during the system testing.

Testing apparatus and water shall be furnished by the Side Sewer Contractor. Visible leakage shall be corrected and the line shall be retested. All side sewer trenches must be maintained in a safe condition according to the regulations and requirements.

Gravity Side Sewers: Side sewers shall be tested their entire length from the cleanout at the lower end of the line by testing for visible leakage before backfilling by inserting a removable plumber's plug in the test tee at the lower end of the line and filling the line with water to a minimum of six-feet (6') above the side sewer's highest point.

Grinder Pump Side Sewers: Side sewers using pump systems shall be tested at 50 psig, or as directed by the District for actual conditions. Following is the procedure used for testing the discharge line:

A. Close the in-line ball valve in the grinder valve box.

B. Open the riser ball valve in the grinder valve box.

C. Close the ball valve at the collector valve box for the street connection.

D. Pressurize with water or air, introduced at the low end, to test for leakage.

E. Hold the required pressure for ten minutes. Allowable leakage = 0

Pressure testing of sanitary sewer force mains and pressure system side sewers shall meet the requirements for water main testing, per the Hydrostatic Pressure Test, Section 7-09.3(23) of the WSDOT Standard Specifications.

10.04 RATE OF LEAKAGE

No loss allowed for gravity side sewers. Pressure side sewer's allowable leakage is as allowed by the WSDOT Standard Specifications, Section 7-093(23) testing procedure.

10.05 AS-BUILT DRAWINGS

As-built drawings shall be prepared by the District in conjunction with the Side Sewer Permit. The Contractor shall not backfill the side sewer piping until review of the Work and the As-Built Drawing by the District are complete.

ARTICLE XI

RESTORATION

11.01 RESTORATION WITHIN A CITY, COUNTY, OR STATE RIGHT-OF-WAY

It shall be the responsibility of the Side Sewer Contractor to restore the roadway surfacing within the limits of any public thoroughfare or right-of-way. Such work shall be conducted in strict accordance with the rules and regulations of the agency having jurisdiction of said thoroughfare or right-of-way. All road cuts shall be made in accordance with agency's right-of-way regulations and must be cold patched the same day the cut is made and prior to the Contractor leaving the site on the day of the road cut.

11.02 RESTORATION WHERE NOT PRESCRIBED BY CITY, COUNTY, OR STATE

The Side Sewer Contractor shall follow the most current edition of the King County Road Standards.

11.03 CLEAN UP

The Side Sewer Contractor shall remove all debris and excess excavation and shall notify the District of any damage and shall repair such damage, in public or private property, in kind immediately after backfilling.

ARTICLE XII

SAFETY

12.01 SAFETY EQUIPMENT

The Side Sewer Contractor, before beginning excavation, shall have at the site sufficient barricades to properly protect the work. The barricades shall be illuminated during the night-time hours in accordance with right-of-way regulations and requirements. Traffic control shall be per the permitting agency's requirements, and shall at a minimum be per the most recent version of the Manual of Uniform Traffic Control Devices (MUTCD) and the WSDOT Standard Plans.

During the pipe laying operation, a ditch pump shall be readily available on-site for immediate use. Pump discharge shall be filtered of particulates and shall be clear when released from the site.

The Contractor shall install Trench Safety Systems as required by WAC Chapter 296, and other applicable State and Federal Regulations.

ARTICLE XIII

MAINTENANCE AND/OR REPAIR OF SIDE SEWER INSTALLATIONS

13.01 SIDE SEWER CLEANING

All side sewer cleaning contractors and/or plumbers, Side Sewer Contractors and/or Owners, prior to or while actually engaged in cleaning existing side sewers (as distinguished from plumbing and septic tank facilities), shall notify the District of such operations which are located within the service area of the District.

13.02 EXCAVATION AND/OR MODIFICATION OF SIDE SEWER INSTALLATIONS

No side sewer cleaning contractor, plumbers, Side Sewer Contractors, or Owners shall excavate for the purpose of exposing a side sewer and such persons shall make no repair or modification to an existing side sewer (including the cutting of holes in the pipe line and/or installation of additional fittings) until notification has been given to the District and a permit has been obtained from the District. The District Inspector must be present before the Contractor removes the side sewer stub cap.

13.03 DEMOLISHED OR REMOVED BUILDINGS

The Property Owner or their Contractor engaged in demolishing or removing any structure connected to the public sewer shall notify the District of such work, and obtain a Side Sewer Permit from the District. Existing building side sewer and sewer service stubs may be used in connection with new buildings or buildings with expanded facilities/footprints only when they are found to be, on review of video examination and tests (observed by the District), to meet the requirements for new construction (i.e. material type, diameter, slope, overall condition, etc.). The disconnected side sewer, if approved for reuse, shall be temporarily exposed and plugged at the property line by the Property Owner in accordance with the requirements of the District with this Regulation

The Property Owner shall replace those side sewer and sewer service stubs requested for reuse, but not meeting the requirements for new construction. Disconnection of the side sewer at the sewer main shall occur if the side sewer is being abandoned.

A District representative must observe temporary and permanent plugging.

ARTICLE XIV

PENALTIES

14.01 VIOLATORS

Any person who shall violate any provision of this Regulation shall be liable to the District for any expense, loss, damage, cost of inspection or cost of correction incurred by the District, plus a penalty not to exceed $1,000.

14.02 NOTICE OF VIOLATION

Any person violating any provision of this Regulation shall be notified by written notice of such violation and shall respond within ten (10) working days of the date of the written notice for the satisfactory correction.

ARTICLE XV

VALIDITY SAVINGS CLAUSE

15.01 VALIDITY OF THIS REGULATION

If any section or portion of these Side Sewer Regulations or any application thereof is adjudged invalid, such adjudication shall not affect the validity of the remaining portion of these Side Sewer Regulations or other application.

Appendix A

Resolution Adopting New Regulations

SKYWAY WATER AND SEWER DISTRICT

RESOLUTION NO. 11-06-477

A RESOLUTION of the Board of Commissioners of Skyway Water and Sewer District Adopting Comprehensive Side Sewer Regulations.

WHEREAS, the Board of Commissioners of Skyway Water and Sewer District ("District") has determined that the existing side sewer regulations that were adopted in 1990 need to be updated;

WHEREAS, changes in technology and governmental regulations necessitate the need for updating the regulations;

WHEREAS, the purpose of the regulations is to be consistent with State, District and Uniform Plumbing Code regulations;

WHEREAS, the District's staff and consultants have done a comprehensive review of the regulations.

NOW, THEREFORE BE IT RESOLVED as follows:

The District hereby adopts the 2011 Side Sewer Regulations that establish comprehensive regulations governing any extension, repair, replacement or connection to the District's sewer system and establishing permit requirements.

PASSED BY THE BOARD OF COMMISSIONERS OF SKYWAY WATER AND SEWER DISTRICT OF KING COUNTY, WASHINGTON, at its regular meeting held May 10, 2011.

Jon Ault, President and Commissioner

Joyce Clark, Vice President and Commissioner

ATTEST:

Don Henry, Secretary and Commissioner

Appendix B

Sewer Availability Forms

- **Availability Certificate Request**
- **King County Certificate of Sewer Availability**
- **(District) Attachment to King County Certificate of Sewer Availability**

Skyway Water and Sewer District

Availability Certificate Request

Type: ☐ Water Availability ☐ Sewer Availability

Purpose: ☐ Short Subdivision ☐ Building Permit ☐ Preliminary Plat ☐ Rezone or Other _____

You have requested District completion of a King County Water and/or Sewer Availability Certificate. To assist us in preparing the document, please provide information as requested below. Fees for this service must be paid in advance as follows:

Single Family Home/Lot	$30/each
Commercial Building/Lot	$60/each
Multiple Family Building/Lot	$60/each

The District will complete the Certificate no later than 10 working days from the date that all required information has been provided, unless there are services issues that require additional research or Board of Commissioner approval. The Certificate may be picked up or mailed out upon request.

Applicant Information

Applicant's Name: _____

Applicant's Address: _____

Phone number: _____

Property Information

1) Owner Name: _____

2) Property Address: _____

3) Property Legal Description: _____

4) Property Parcel Number: _____

5) Property Proposed Use: (include number of single-family residences, number of apartments, type of business, and flow requirement if known)

_____

_____

_____

_____

6) Provide a conceptual plan that indicates: a) the parcel(s); b) the location of proposed structure(s) and access; c) adjacent roadways; d) proposed utility layout; e) measurement scale; f) north arrow.

7) For commercial uses, provide 1 year of water use data for a similar or existing establishment to demonstrate water demand requirements.

Amount Paid: _____ Receipt#: _____

Date: _____ By: _____

King County
Department of Development and Environmental Services
900 Oakesdale Avenue Southwest
Renton, WA 98057-5212
206-296-6600 TTY 206-296-7217

SEWER AVAILABILITY:
KING COUNTY CERTIFICATE OF SEWER AVAILABILITY

For alternate formats, call 206-296-6600.

This certificate provides the Public Health - Seattle & King County Department and the Department of Development and Environmental Services with information necessary to evaluate development proposals.

Do not write in this box

Number _____ Name _____

☐ Building Permit ☐ Preliminary Plat or PUD
☐ Short Subdivision ☐ Rezone or other: _____

Applicant's name: _____
Proposed use: _____
Location (attach map and legal description if necessary):

Sewer agency information:

1. ☐ a. Sewer service will be provided by side sewer connection only to an _____ size sewer _____ feet from the site and the sewer system has the capacity to serve the proposed use.

OR

☐ b. Sewer service will require an improvement to the sewer system of:

☐ (1) _____ feet of sewer trunk or lateral to reach the site; and/or
☐ (2) The construction of a collection system on the site; and/or
☐ (3) Other (describe):

2. ☐ a. The sewer system improvement is in conformance with a County approved sewer comprehensive plan.

OR

☐ b. The sewer system improvement will require a sewer comprehensive plan amendment.

3. ☐ a. The proposed project is within the corporate limits of the district or has been granted Boundary Review Board approval for extension of service outside the district or city.

OR

☐ b. Annexation or Boundary Review Board (BRB) approval will be necessary to provide service.

4. Service is subject to the following:
   a. Connection charge: _____
   b. Easement(s): _____
   c. Other: _____

Comments: _____

I certify that the above sewer agency information is true. This certification shall be valid for one year from date of signature.

Agency name _____ Signatory name _____

Title _____ Signature _____ Date _____

Check out the DDES Web site at www.kingcounty.gov/permits

Skyway Water & Sewer District October 2011

ATTACHMENT TO
KING COUNTY
CERTIFICATE OF SEWER AVAILABILITY

The following terms and conditions apply to the attached "King County Certificate of Sewer Availability":

1. This Certificate is valid only for the real property described in the Certificate for the purpose of submission to the King County Department of Development and Environmental Services (DDES) and/or the Seattle/King County Department of Public Health.

2. Skyway Water & Sewer District makes no representations that the applicant will be able to obtain the necessary permits and authorizations from King County or any other governmental agency prior to utilization of utility service.

3. This Certificate creates no contractual relationship between Skyway Water & Sewer District and the applicant. While sewer service is available as of the Date of Issuance of the Certificate, the issuance does not guarantee that sewer will be available at the Date of Application for service. "Date of Issuance" means the date the Certificate is issued. "Date of Application" means the date the applicant applies to the District for utility service.

4. All applicable federal, state and District laws, ordinances, policies and regulations in effect at the Date of Application for utility service shall apply. All District charges, fees and assessments in effect at the Date of Connection to the District's utility system shall apply.

5. This Certificate expires one year from the date it was signed by the District's authorized representative. This Certificate may be renewed annually, provided written renewal request is received at the District's office prior to expiration of the Certificate and there are no changes in the service requested in the original Certificate.

6. This Certificate does not constitute approval of plans for the construction of the utility. Plans stamped by an engineer must be submitted to the District prior to construction. District approval of such plans shall be for a three-year period and may be renewed for an additional three-year period, provided that a written renewal request is received at the District's office prior to expiration of the plans' approval and there are no changes in the plans. Changes in governmental rules, regulations, ordinances and resolutions may require changes to approved plans. No later than 30 days after completion of construction of the utility, the District shall be provided with one set of as-built plans stamped by an engineer or land surveyor.