The following are the 2020 Side Sewer Regulations, revising and rescinding the Code of May 3, 2010 (Resolution No. 3914), 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.

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APPENDIX A.......Side Sewer Details and Standard Grinder Pump Details and Notes

APPENDIX B.......Resolution Adopting New Regulations
ARTICLE I
DEFINITION OF TERMS

1.01 AS-BUILT DRAWING
The words "As-Built Drawing" shall mean a drawing prepared by the Contractor and checked by the District Inspector in conjunction with the Permit, and shall show the "As-Built" location of the side sewer installation.

1.02 BLACKWATER
The words "Blackwater" shall mean wastewater containing bodily or other biological wastes, as from toilets, dishwashers, or kitchen drains.

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

1.04 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.

1.02 GRAYWATER
The words "Graywater" shall mean wastewater from baths, bathroom sinks, and washing machines that does not contain body or food wastes.

1.02 GRINDER PUMP
The words "Grinder Pump" shall mean the grinder pump system which includes the tank, grinder pump, control panel, discharge line, and collection valve box.

1.05 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.
1.06 LICENSED SIDE SEWER CONTRACTOR

The words “Licensed 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 and the District.

1.07 OCCUPANT

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

1.08 PERMIT

The word “Permit” shall mean an application for and the printed serially numbered form issued in triplicate by the District prior to construction or repair of any side sewer.

1.09 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.

1.10 PRIVATE SEWER

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

1.11 PUBLIC SEWER

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

1.12 RESIDENTIAL STRUCTURE

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

1.13 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.

1.14 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.
1.15 **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.

1.16 **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.

1.17 **STORM DRAIN**

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

1.18 **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.

1.19 **WASTEWATER**

The words “Wastewater” shall mean water-carrying wastes containing either or both sewage and industrial waste.
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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 (See 1.09). 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.

2.02 WASTES OTHER THAN DOMESTIC OR INDUSTRIAL

The discharge into any sewer by direct or indirect means of any of the following is hereby 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.
2.03 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 as per King County Health Department Policy and Procedure No. P88-OI, or as revised.

C. A District-approved grit and oil/water separator shall be required for vehicle washing and vehicle service 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 non-residential facilities must meet the requirements of the District 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 a grease interceptor sized using the Uniform Plumbing Code (UPC). All commercial building pads with unidentified or potentially variable uses must be provided with a minimum 1000-gallon grease interceptor at the time of initial construction. Provide graywater plumbing to building pad(s).

2.04 THE OWNER DESIRING TO EXTEND, REPAIR, REPLACE OR MAKE CONNECTION TO EXISTING SEWERS OR PRESSURE SIDE SEWERS INSIDE PROPERTY LINES.

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 as herein authorized.

2.05 ADDITIONAL WORK - NEW PERMIT REQUIRED

A Disconnection Permit is required when an existing structure is demolished or disconnected from sewer service. A new Side Sewer Permit is required when a new structure is constructed, or an alteration affecting the side sewer is made. Any existing side sewer that does not meet the current existing Regulations shall be replaced. No work shall be done without approval and inspection of the District as herein required.
ARTICLE III

OBTAINING SIDE SEWER PERMITS

3.01 WHEN PERMIT MUST BE OBTAINED

A Side Sewer Permit shall be applied for and issued by the District prior to any work being constructed, any disconnection being made, or any addition to or repair of a side sewer being made 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, allow time for issuance of City of Issaquah, City of Sammamish, or King County right-of-way permit, whichever entity has jurisdiction. A right-of-way permit is valid for 12 months.

All information regarding the requirements for installation of a side sewer shall be obtained from the District. Any information on the installation relayed by the Owner to the Contractor shall be in writing or on a plan, and such information shall be presented at the time application for a permit is made.

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 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 given 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.

3.05 WORK IN A PUBLIC RIGHT-OF-WAY

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 obtains the right-of-way permit on behalf of the licensed side sewer contractor. The Owner shall pay for the right-of-way permit at the time that the side sewer permit is purchased, unless the land use agency having authority requires the party performing the work obtain the right-of-way permit directly. The right-of-way permit is typically issued in approximately 4 weeks. No work shall be performed on the side sewer until the right-of-way permit is obtained and the Preconstruction Conference is conducted.
Side sewer contractors shall contact One-Call (811) for utility locations. The phone number is available at the District office.

3.06 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.

3.07 PRECONSTRUCTION CONFERENCE

The Side Sewer Contractor shall contact the District to schedule a Preconstruction Conference for all side sewer installations at least 24 hours in advance of the meeting. 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.

3.08 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 inspector 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.

3.09 UNAUTHORIZED WORK

No work shall be started on any side sewer without a permit. No Licensed Side Sewer Contractor shall do any side sewer work under any other person's permit. No person shall do any side sewer work under a Licensed Side Sewer Contractor's Permit, except as may be otherwise authorized by the District. If work is started on any side sewer without a permit or authorization from the District, a fine of $1000 can be levied against the violators.

3.10 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.

3.11 POSTING OF PERMIT

The Contractor’s copy of the Side Sewer Permit and side sewer plan shall be readily available on the job site to the Inspector of the District. 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.
3.12 RESPONSIBILITY OF SIDE SEWER CONTRACTOR

The licensed side sewer contractor shall be responsible for abiding by all the requirements of Article IV of these Regulations.

3.13 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% or $15 maximum administrative charge.

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.

3.14 COMPLETION OF WORK IN A PUBLIC RIGHT-OF-WAY

All work within the limits of any public right-of-way 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 right-of-way requirements (City of Issaquah, City of Sammamish, or King County), any costs incurred to bring such work into compliance and to restore the right of way, shall be charged to the Licensed Side Sewer Contractor in charge of such work, and shall be payable immediately to the District upon written notification to the Contractor.

3.15 GRINDER PUMP SERVICE AGREEMENT

An Owner installing a grinder pump is required to furnish the District with a signed Bill of Sale for the grinder pump installation, Grinder Pump Service Agreement.
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ARTICLE IV
SIDE SEWER CONTRACTOR LICENSING

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 and the District, to conform to the nature of the work. A side sewer contractor must provide the District with proof of these licenses and bonds as per Article 4.06, Continuous Performance Bond.

4.03 LICENSING FEES

As required by District Resolution No. A-732, a licensing fee of fifty dollars ($50.00) shall be charged to the Contractor at the time of Licensing with the District. This licensing fee is good for the calendar year ending December 31. A yearly renewal fee of fifty dollars ($50.00) 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. The Sammamish Plateau Water and Sewer District shall be specifically named as an insured in a policy with the same company which insures the Contractor or by an endorsement to an existing policy.

A Certificate of Insurance shall be provided to the District and must include “Side Sewer Installations” in the Description of Operations, and naming as additional insured the Sammamish Plateau Water and Sewer District, Sammamish, Washington. 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:

- Property damage liability: $500,000 each occurrence
  $1,000,000 each aggregates
- Bodily injury liability: $500,000 each person
  $1,000,000 each occurrence

OR

- Combined Single Limit of $1,000,000 per occurrence/aggregate
4.05 HOLD HARMLESS

A Side Sewer Contractor shall execute a document whereby they shall hold harmless, indemnify and defend the District from any and all claims against the District as a result of their work done within the District pursuant to these regulations.

4.06 CONTINUOUS PERFORMANCE BOND

A Side Sewer Contractor shall supply the District with a continuous performance bond in the amount of $2,500.00 in order to work on side sewer installations within the District. A sample approved form is available at the District office. The bond is to protect the District in its obtaining road opening permits from the County and for other jurisdictional agencies, and to guarantee the completion of the side sewer installation. The bond shall include in its terms a certification that it will not be canceled without at least forty-five (45) days written advance notice to the District.

4.07 RESPONSIBILITY OF LICENSED SIDE SEWER CONTRACTOR FOR THEIR EMPLOYEES

The Licensed Side Sewer Contractor shall be responsible for any and all actions of their employees. The Contractor's absence or any misunderstanding of their orders by such employees shall not relieve the contractor of such responsibility.

4.08 REVOKING OF LICENSE

If the licensed Side Sewer Contractor has not complied with the provisions in following the rules and regulations established herein or any amendments hereto, the District shall have the right to revoke the license and privileges of said contractor.
ARTICLE V
SIDE SEWER CONTRACT WITH OWNER

5.01 SAMMAMISH PLATEAU WATER & SEWER DISTRICT REGULATIONS

Contracts between property owners and licensed Side Sewer Contractors shall provide that such licensed Side Sewer Contractor will comply with all District regulations.

5.02 RELEASE FROM MATERIAL AND LABOR LIENS

The Contractor shall furnish the property owner with a release of lien from both labor and material or an affidavit stating same has been paid, before payment is accepted by the contractor for such labor and material.

5.03 SPECIAL RELEASES AND AGREEMENTS

A. If the grade of the side sewer is to be less than 2% or 1/4 inch per foot, the property owner shall sign and acknowledge a grade release waiver in a form approved by the District. 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. If there is doubt about the grade, such grade release shall be executed before the pipe is laid. If upon inspection, the grade is determined to be inadequate; the District shall record the grade release in the office of the County Recorder before acceptance.

B. When two or more structures not in common ownership are to be connected on one 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. The owner or owners of properties affected shall pay for the recording fees due to grade releases and easements.

D. Where physical conditions render compliance with the provisions of these Regulations impracticable, the District may issue a special permit for installation of a side sewer. This special permit shall require compliance with said provisions insofar as is reasonably possible, but shall be issued only upon the condition that the property owner execute and deliver to the District an instrument, in a form furnished by the District, agreeing to save harmless and indemnify the District for any damage or injury resulting from such substandard installation.
5.04 GRINDER PUMP SERVICE AGREEMENT

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.
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 EXCAVATION

Excavation shall be made at the measurements furnished by the District on the as-builts, to the best of their records, for the location of the stub. 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 licensed side sewer contractor shall prospect four feet in all directions 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. The Contractor may be required to CCTV the sewer main to locate and verify the side sewer tee.
ARTICLE VII

MINIMUM REQUIREMENTS FOR INSTALLATION OF SIDE SEWERS - GRAVITY

7.01 PIPE

Unless otherwise called for, side sewer pipe shall be PVC or ductile iron and meet the following specifications:

A. Plastic Pipe shall be PVC ASTM D 3034, SDR 35 or C-900 PVC sewer pipe, with standard gasketed joints

B. Ductile Iron pipe shall be Protective 401 Ceramic Epoxy-Lined zinc coated Ductile Iron Pipe Class 52 and VBio poly-wrapped with a material conforming to AWWA C-600.

7.02 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 a minimum of six (6) inches in diameter from the sewer main to the property line and a minimum of four (4) inches in diameter 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.

D. Joint Side Sewers
Side sewers 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.

Where a joint side sewer is being installed to serve two residential structures on the same property and the wye is located within the property limits, the pipe extending from the wye can be reduced to a minimum of four (4) inches in diameter.

Joint side sewers for non-single family structures are not allowed.

E. Multiple Single-Family Residential Connection
Side sewers serving three to four single-family residential structures shall consist of a six (6) inch diameter (minimum) pipe extending from the sewer main to the
last (upper) wye, and shall require the written approval of the District. Where side sewers to multiple single-family properties are allowed, pipes with combined flows shall be located solely in right-of-way or jointly owned access tracts. A cleanout shall be located upstream of the last wye within the right-of-way or jointly owned access tract.

F. For single-family residential structures located in an eyebrow (see King County Road Standards), no more than four single-family residential structures may be connected to a single side sewer, and shall require the written approval of the District.

7.03 FITTINGS

A. Bends
   All changes in directions shall be made with 45-degrees (1/8) bends, 22-1/2-degree (1/16) bends, or wye branches with straight through opening plugged for a cleanout.

B. 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 one hundred thirty-five (135) degrees per the Uniform Plumbing Code.

   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 developments, cleanouts located in unimproved or landscaped areas shall be no more than 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 Side Sewer Cleanout Detail.

   5. For multiple single-family residential connections, a six (6) inch diameter wye and cleanout shall be installed where the last (upper) connection is made (refer to District standard detail).

   6. The District may require a forty-eight (48) inch manhole at the upper terminus of such lines on both residential and commercial tracts in-lieu of cleanouts.
C. 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.

All uncompleted risers, cleanouts, castings and concrete blocks shall be installed by the licensed Side Sewer Contractor, and castings shall be raised to grade after final paving.

E. Reducers
Where reducers are used to transition from the 6" PVC Side sewer stub to 4" PVC, eccentric reducers shall be used. The eccentric reducer shall be oriented so that there is a consistent slope at the invert of the pipe.

7.04 PIPE INSTALLATION
A. Side sewer shall be installed by a licensed Side Sewer Contractor.
B. The maximum length of a side sewer shall be 200-feet unless the requirement is waived by the District.
C. Side sewers shall be installed perpendicular to the main and true to grade with the bells up grade. All side sewers shall be laid on a grade no less than 2-percent (¼ inch per foot) and no greater then two (2) foot vertical to one (1) foot horizontal, except that the maximum grade from the main to the property line shall not exceed 25 degrees (approximately five [5] inches 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 pipe trench shall be excavated to a depth as required for the installation of the pipe and the required pipe bedding.
F. Pipe Bedding
1. Bedding material for PVC pipe shall be well graded, clean granular gravel material commonly known as pea gravel (100% passing 3/8" Sq. opening, 0-5% passing a No. 8 Sieve). Material slightly smaller than pea gravel may be used. Bedding material for ductile iron pipe shall be well graded, clean sand material.
2. Bedding material shall be placed from a minimum of six (6) inches below the pipe barrel to six (6) inches over the top of pipe as shown in the Sanitary Sewer Trench Section detail. 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, to 90% of maximum density (modified proctor).

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 backfill material shall be a durable crushed gravel or rock; or naturally occurring sands and gravel free from wood, bark, roots or other extraneous material, meeting the requirements of WSDOT/AWPA 9-03.10 for aggregate for gravel base, with percent passing the No. 200 sieve limited to 10-percent max.

2. Native material that meets the requirements of Imported Backfill material may be used for trench backfill.

3. 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.

4. All backfill within 4-feet of finished grade shall be compacted to 95 percent of maximum density (modified Proctor), unless otherwise directed by the District. Backfill deeper then 4-feet shall be compacted to 90 percent relative compaction (modified Proctor) under traveled surfaces and improved areas and 85 percent relative compaction (modified Proctor) in all other areas. Compaction shall be with the use of a mechanical compactor in a manner approved by the District unless otherwise required by the agency that has jurisdiction over a public right-of-way.

H. The pipe shall be cradled in the prepared trench bottom and shall be carefully centered prior to jointing.

I. All bedding, laying and jointing shall be done in accordance with the pipe manufacturer's recommendations and as approved by the District.

7.05 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 three (3) feet.

C. Minimum cover for side sewers crossing a ditch in the public right of way except as otherwise provided herein, shall be three (3) feet.

7.06 CONNECTION TO EXISTING SEWER 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:

- Cut-in PVC side sewer tee
- Romac “SST” Stainless Steel Tapping Sleeve (flanged), with FLxMJ adapter and gasket sized for D3034 PVC side sewer. Romac side sewer saddle, Model CB, is NOT allowed.

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:

- C900 PVC injection molded side sewer tee with a C900 side sewer up to the transition point to 4-inch D3034 PVC
- 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
- Romac “SST” Stainless Steel Tapping Sleeve (flanged), with FLxMJ adapter and gasket sized for D3034 PVC side sewer. Romac side sewer saddle, Model CB, is NOT allowed.

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

- 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
- Romac “SST” Stainless Steel Tapping Sleeve (flanged), with FLxMJ adapter and gasket sized for D3034 PVC side sewer. Romac side sewer saddle, Model CB, is NOT allowed.

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. Each connection shall be bedded with a minimum of six (6) inches of bedding material. Unsuitable foundation material shall be over-excavated and replaced with bedding material.

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

F. If the type of tee provided in the sewer does not match the proposed side sewer pipe joint detail, a short transition piece shall be joined to the tee by means of a transition gasket of the type used in the sewer. The balance of the side sewer shall then be constructed with compression type flexible gaskets up to the point of connection with the house plumbing.
G. Connection to the house domestic sanitary drainage line shall be made by means of flexible clamp-type coupling or other method approved by the District.

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

7.07 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.

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

7.08 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. A minimum of ten (10) foot separation shall be maintained between the side sewer and the water mains and/or water service lines.

C. Structures shall not be constructed over or within 5-feet of the side sewer lines in the right-of-way or District easement. Structures include, but are not limited to, fences, carports, buildings, landscape timbers, retaining walls, mailbox stands, trees, shrubs and rockeries.

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

E. Side sewers parallel to the foundation wall of any building shall be laid not less than thirty (30) inches from the foundation or building, whichever is closer.
7.09 **WATER LINE CROSSINGS**

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 sewer shall be located eighteen (18) inches or more below the water line if possible.

C. Where side sewers must cross over water mains or the required eighteen (18) inch separation cannot be maintained, the side sewer shall be:

1. Constructed of ductile iron with mechanical joints or C900, meeting the requirements of AWWA C151, C111, and C110. The length of sewer pipe shall be centered at the point of crossing so that the joints will be equidistant and as far as possible from the water line. The sewer pipe shall be the longest standard length available from the manufacturer.

AND

2. Standard gravity-sewer material encased in concrete or in a one-quarter-inch thick continuous steel, ductile iron, or pressure rated PVC pipe with a DR of 18 or less, with all voids pressure-grouted with sand-cement grout or bentonite. The length of the casing shall be centered at the point of crossing so that the ends will be equidistant and as far as possible from the water line. The casing pipe shall be the longest standard length available from the manufacturer.

7.10 **OTHER UNDERGROUND FACILITIES**

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

7.11 **IMPOSSIBILITY OF GRAVITY FLOW MINIMUM ELEVATION**

In any structure in which the plumbing drain is too low to permit gravity flow to the sewer, the sewage shall be lifted by artificial means and discharged into the sewer. See Article VIII of this document for pressure side sewer requirements. If a portion of the structure has plumbing drain that is too low to permit gravity flow to the sewer, a privately owned internal ejector pump may be installed to discharge into the gravity sewer.

Wherever a situation exists involving a potential risk of backup, the District may recommend a backwater sewage valve be installed. The effective operation and maintenance of the backwater sewage valve shall be the sole responsibility of the owner of the side sewer.
Before any installation of this nature is made, the owner will be required to comply with provisions of Section 5.03 (d), *Special Releases and Agreements*, concerning the agreement to save the District harmless from damage or injury.

### 7.12 BACKWATER VALVES

The Uniform Plumbing Code requires backwater valves on building sewers where the finished floor is below the rim of the upstream manhole. 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.
ARTICLE VIII

MINIMUM REQUIREMENTS FOR INSTALLATION OF SIDE SEWERS - PRESSURE

8.01 ADDITIONAL CODES AND REQUIREMENTS

All pump installations must meet all building, plumbing, and electrical codes, and shall have the District’s approval prior to installation. Please also refer to the District’s Standard Grinder Pump Details, which are located at the back of these Regulations, for additional installation requirements.

8.02 PIPE

Unless otherwise called for, side sewer pipe shall be high-density polyethylene plastic pipe (HDPE SDR 11) and meet the following specifications.

A. Base Resin: Conform to all requirements of ASTM D 48, Type III, Class C, Category 5, Grade P47, with a PPI rating of PE4710.

B. Melt Index: Less than 0.25 grams/10 min. as determined by ASTM D 1238, Condition E.

C. Environmental Stress Check Resistance: No cracks after 192 hours at 100 C as determined by ASTM D 1693, Condition C.

D. Rating: Long-term hydrostatic strength of 1450 psi and hydrostatic design stress of 730 psi as determined by ASTM D 2837.


F. Laboratory Test Requirements: Withstand without failure a minimum burst pressure of 560 psi when applied in 60 to 70 seconds with water at 730 F. Test in accordance with ASTM D 1599. Test one percent but not more than three lengths.

G. Unless otherwise required by the District, bedding material is not required for installation of HDPE low pressure sewer pipe.

8.03 FITTINGS AND JOINTS

A. PVC Pipe and Fittings

Threaded, schedule 80 PVC pipe and fitting shall only be installed where PVC parts are required by the District’s Standard Details. Compression couplings shall only be allowed as part of the Grinder Pump Cleanout and Collection Valve Box as shown in the District’s Standard Details.

B. HDPE Pipe and Fittings

1. All HDPE pipe and fittings shall be SDR 11 with either electro-fusion fittings or butt welding.
2. Connection of HDPE pipe to any threaded fitting as shown in the District’s Standard Details will be with a full bore HDPE x 316 stainless steel Transition fitting, 6-inches in length. Compression couplings are only allowed where shown in the Grinder Pump Cleanout and Collection Valve Box details.

C. Grinder Pump Discharge Piping
   A 1-1/4-inch diameter threaded brass nipple, 12-inches in length, shall be installed on the grinder tank discharge hub.

D. The Contractor that performs all HDPE joints shall be certified in electro-fusion and/or butt welding techniques.

8.04 TRACER WIRE

All piping shall be installed with tracer wire for locating purposes. Tracer wire shall be insulated 12-gauge, solid core wire wrapped around the pipe. With new low pressure sewer main construction the wire shall be installed as part of the sewer main and shall be looped through all collection valve boxes as shown in the Collection Valve Box detail. Where a cut-in connection is made to an existing low pressure sewer, the wire shall be spliced together using butt connectors and shrink tubing protection. Tracer wire shall extend from the Collection Valve Box to the Grinder pump Cleanout as shown in the District’s Standard Details.

8.05 CONNECTION TO A LOW PRESSURE SANITARY SEWER

All side sewer connections to a low pressure sewer main shall require a Collection Valve Box installed at the property line in accordance with the District’s Standard Details.

Where there is not an existing connection a tee shall be cut into and electro-fusion welded to the existing pressure sewer main, and the 1-1/4” HDPE pressure side sewer extended to the property line at an angle perpendicular to the sewer main.

8.06 CONNECTION TO GRAVITY SANITARY SEWER

Connections to an existing gravity sanitary sewer shall require a 6-inch PVC gravity side sewer. If necessary, the Contractor shall install a gravity side sewer as discussed above in Article VII, and 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 Connection to Gravity Sanitary Sewer connection as shown in the District’s Standard Details, including installation of the 6-inch cleanout assembly at the property line. The typical Collection Valve Box will not be required as part of the connection to a gravity sanitary sewer.
8.07 CONNECTION INTO GRAVITY MANHOLE

Where a HDPE pressure side sewer is connecting into a gravity manhole, the Side Sewer Contractor shall install an inside drop connection on those manholes deeper than 6 feet. In manholes less than 6 feet deep, the connection must match the crown elevation of the outfall pipe. All manhole penetrations shall meet the requirements of the District.

8.08 WATER LINE CROSSINGS

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 sewer shall be located eighteen (18) inches or more below the water line if possible.

C. Where a side sewer crosses an existing AC water main, the existing water main shall be replaced with 10-LF of the same diameter DI CL 52 pipe, centered at the side sewer crossing, including adaptor couplings.

D. Pressure sewers under water lines shall be constructed with ductile iron pipe or standard sewer pipe in a casing equivalent to that specified in the DOE Criteria for Sewage Works Design for a distance of at least 10 feet on each side of the crossing.

8.09 BACKFILLING AROUND VAULTS AND VALVE BOXES

Vaults and Valve Boxes shall be placed on backfill that has been compacted to a minimum of 90% of maximum theoretical density. Backfilling shall be performed carefully so that no damage is done to pipe entering or exiting the vault or valve or to the vault or valve box. The District may direct the contractor to use special backfill techniques when it deems necessary.

8.10 GRINDER PUMP CLEANOUT AND DISCHARGE PIPING

A Grinder Pump Cleanout shall be installed within 16-inches of the grinder pump tank, in accordance with the Grinder Pump Cleanout Detail and Grinder Pump Installation Notes. In accordance with the District’s Standard Details, the cleanout shall be connected to the grinder pump tank using a brass nipple threaded into the pump discharge hub, and connected to the Collection Valve Box, or the Pressure Line Connection, using 1-1/4-inch HDPE pressure pipe installed with the minimum cover shown in the specific details.

8.11 GRINDER PUMP SYSTEM

The grinder sewer pump system shall be a SAM-8 Simplex Grinder System built for the Sammamish Plateau Water and Sewer District by PumpTech Inc., 12012 SE 32nd Street, Suite 2, Bellevue, WA. 98005; phone number is (425) 644-8501.

The SAM-8 Simplex Grinder package shall be as shown in the Grinder Pump Installation Detail and include the following items:
A. Hydromatic HPG 200 M2-2 Series Hydro-Grind Sewage Pump with 20-feet of power cord.

B. Stainless steel guide rail system.

C. “Hydromatic Simplex Q” packaged control system for a simplex station consisting of the control panel, alarm light and alarm horn. The panel shall have a 2-pole, 25-amp, 230-volt breaker for the pump, and a separate 1-pole, 10-amp, 120-volt breaker for the alarm. The panel shall be supplied with two exterior alarm buttons; 1) “Push to Test” and 2) “Push to Silence”.

D. Three SJE Rhombus Sensor Float Control Switches, Part Number 1002170, with 30-feet of cable (30SWENO- Weighted Externally, Normally Open).

E. A 23”x60" fiberglass grinder tank supplied with galvanized steel cover (#11 gauge), stainless steel hold-down bolts, and an anti-flotation flange. The tank will also be provided with a 1-1/4-inch FPT hub connection for the pump discharge piping.

F. The package shall be provided with the following loose items that are to be field located and installed: Two (2) 1-1/4-inch hub connections (one of the pump controls, one for the float controls), a 1-1/2-inch PVC vent, a 1-1/2-inch hub connection for the vent, and a neoprene grommet for the building side sewer (size as required).

G. The tank shall be supplied with a pump guide rail system for removal of pump unit, as manufactured by PumpTech, Inc. All exposed surfaces on guide rail system shall be stainless steel including the lift chain.

H. All valves and piping shall consist of hydraulically sealed discharge flanges.

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

8.12 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. 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 $1,000.00.

C. The Contractor shall review the proposed grinder pump site layout with the District prior to installation of any work.
D. The grinder pump tank and control panel shall be installed for easy access in performing all maintenance and repair activities.

E. The grinder pump tank shall be installed so that the tank cover is approximately 3-inches above finish grade. Finish grade shall be free draining around and away from the tank so that surface water cannot pond around the station. No plants, fences, or other obstructions are to be located within 5 feet of the tank and the valve boxes, and the property owner shall maintain a 5 foot clear zone around the tank.

F. 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.

G. All tank penetrations shall be reviewed with the District prior to installation. All penetrations will be made with a hole saw or approved equal to give a smooth symmetrical edge of the proper size and the lip shall be filed smooth.

H. The Contractor shall field locate and install the two 1-1/4-inch hub connections for the electrical conduits after reviewing the proposed installation with the District. The hubs shall be installed no lower than 9-inches from the top of the tank.

I. The Contractor shall review the installation of the Vent pipe with the District prior to installation. With the District’s approval the vent can be installed away from the tank.

J. The Pump Control Panel shall be attached to the Owner’s house, or with the District’s approval, attached to a 4x4 pressure treated post set 3-feet into concrete. The panel shall be installed so that:
   1. The bottom of the panel is 4.5 feet above finished grade,
   2. Is visible from the tank,
   3. Is within 12-feet of the grinder pump tank, unless otherwise approved by the District.
   4. The alarm light is visible from 50-feet and has a 180-degree visual radius.
   5. Fences, brush, or any other object shall not hide the light or hinder in the maintenance and/or repair of the system.

K. The grinder pump system requires an electrical supply of 230-volt/120-volt single-phase power with a single-phase 30-amp breaker dedicated for the pump and the pump controls, and a separate dedicated 120-volt, 15-amp breaker for the alarm system. See Typical Circuit Diagram for wiring between the Owner’s Distribution Panel and the Grinder Pump Control Panel. An electrical junction box shall be installed under the Pump Control Panel for landing of the float control and pump wires.

L. Where the distance between the grinder pump tank and the Pump Control Panel must be greater than 12-feet, the electrical junction box shall be installed on a 4x4
pressure treated post next to the grinder pump. Such installation shall not interfere with the proper maintenance or repair of the system.

M. A single PVC electrical conduit shall be installed between the electrical junction box and the Pump Control Panel.

N. An explosive gas seal-off fitting shall be installed in the electrical conduit just prior to the Pump Control Panel.

O. The power and control wires between the grinder pump and the electrical junction box shall be installed in two separate PVC conduits in accordance with the Standard Details.

P. No bends will be allowed in the electrical conduit. Install sweeps where necessary.

Q. Structures shall not be constructed over or within 5-feet of the grinder pump system, including the 1-1/4” HDPE pressure side sewer. Structures include, but are not limited to, fences, carports, buildings, landscape timbers, retaining walls, mailbox stands, trees, shrubs and rockeries.
9.01 CALL FOR INSPECTION

Arrangements for inspection of a side sewer installation shall be made with the District 24 hours in advance. The District reserves the right to set the time for inspections. Side sewer permits must be obtained from the District prior to scheduling an inspection. All inspections will be performed during normal working hours. Inspections are limited to Mondays, Wednesdays and Fridays. Cancellations must be made a minimum of one hour before the scheduled appointment. Additional inspection may result in additional fees.

9.02 TESTING OF FINAL INSTALLATION - GRAVITY SIDE SEWER

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 (6) feet above the side sewer’s highest point. The contractor shall not perform this test without the District’s inspector being present. The licensed side sewer contractor or job foreman must be present at the job during the inspections.

Testing apparatus and water shall be furnished by the licensed 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.

9.03 RATE OF LEAKAGE

No loss.

9.04 AS-BUILT DRAWINGS

As-built drawing shall be prepared by the Contractor and checked by the District Inspector in conjunction with the Permit, and shall show the as-built location of the side sewer installation. Minimum information required shall be at least three measurements from permanent surface features (foundation corner, catch basins, manholes, utility poles, etc.) to all side sewer cleanouts and the test tee connection. List the lengths of all pipe installed.
ARTICLE X

INSPECTION AND TESTING OF SIDE SEWER INSTALLATIONS - PRESSURE

10.01 CALL FOR INSPECTION

Arrangements for inspection of a Grinder Pump installation shall be made with the District 24 hours in advance. The District reserves the right to set the time for inspections. Side sewer permits must be obtained from the District prior to scheduling an inspection. All inspections will be performed during normal working hours. Inspections are limited to Mondays thru Thursdays. Cancellations must be made a minimum of one hour before the scheduled appointment. Additional inspection may result in additional fees.

10.02 TESTING OF FINAL INSTALLATION - GRINDER PUMP

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. Install District provided testing slip gasket on the discharge connection within the tank.

B. Pressurize with water introduced at the cleanout, to test for leakage.

C. Hold the required pressure for ten minutes. Allowable leakage = 0 at threaded fittings outside of the grinder tank.

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

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

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

G. Pressurize with water, introduced at the low end, to test for leakage.

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

10.03 AS-BUILT DRAWINGS

As-built drawings shall be prepared by the Contractor and checked by the District Inspector in conjunction with the Permit, and shall show the as-built location of the side sewer installation. Minimum information required shall be at least three measurements from permanent surface features (foundation corner, catch basins, manholes, utility poles, etc.) to the grinder pump tank.
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ARTICLE XI

RESTORATION

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

It shall be the responsibility of the Licensed 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.

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

The Licensed Side Sewer Contractor shall follow King County Specifications.

11.03 CLEAN UP

The Licensed 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.
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ARTICLE XII

SAFETY

12.01 SAFETY EQUIPMENT

The licensed side sewer contractor, before beginning excavation in a public area, 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. During the pipe laying operation, a ditch pump shall be readily available on-site for immediate use. The Contractor shall install trench safety systems as required by State and Federal Regulations.
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ARTICLE XIII

MAINTENANCE AND/OR REPAIR OF SIDE SEWER INSTALLATIONS

13.01 SIDE SEWER CLEANING

All side sewer cleaning contractors and/or plumbers, licensed 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, licensed 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, obtain a Disconnection Permit, and shall expose and plug the side sewer connection of such structure at the property line in accordance with the requirements of the District with this Regulation. A District Inspector must observe such plugging.
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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 $1000.00.

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 thereof.
ARTICLE XV

VALIDITY SAVINGS CLAUSE

15.01 VALIDITY OF THIS REGULATION

If any section or portion of this Regulation or any application thereof is adjudged invalid, such adjudication shall not affect the validity of the remaining portion of this Regulation or other application thereof.
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## SIDE SEWER DETAILS AND STANDARD GRINDER PUMP DETAILS AND NOTES

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SIDE SEWER DETAILS

**NOTES**

1. **MAXIMUM DEPTH OF SIDE SEWER AT END IS 10’ UNLESS ADDITIONAL DEPTH IS NEEDED TO PROVIDE GRAVITY SEWER SERVICE.**

2. **FOR MULTI-FAMILY AND/OR COMMERCIAL PROJECTS, SIDE SEWERS MAY BE EXTENDED, AT THE DISTRICT’S DISCRETION, FROM THE EDGE OF THE ROAD OR PROPERTY LINE TO WITHIN 3 FEET OF THE BUILDING FOUNDATION.**

**SINGLE SIDE SEWER**

**NOTES**

1. **MAXIMUM DEPTH OF SIDE SEWER AT END IS 10’ UNLESS ADDITIONAL DEPTH IS NEEDED TO PROVIDE GRAVITY SEWER SERVICE.**

2. **POSITION WYE IN DIRECTION OF FLOW.**

**DOUBLE SIDE SEWER**

**NOTES**

1. **CONNECTION OF NEW SIDE SEWER TO EXISTING MAIN MAY USE EITHER:**
   - CUT IN TEE W/ PVC SLIP COUPLINGS.
   - ROMAC SST STAINLESS STEEL TAPPING SLEEVE W/ FL X MJ ADAPTER AND GASKET Sized FOR D3034 PVC SIDE SEWER. ROMAC SIDE SEWER SADDLE, MODEL CB, IS NOT ALLOWED.

2. **UNLESS OTHERWISE SHOWN ON PLAN, MINIMUM COVER FOR SIDE SEWERS (WHICHEVER IS LOWER):**
   - 18” – PRIVATE PROPERTY
   - 3’ – AT PROPERTY LINE
   - 2”-6” IF CROSSING A DITCH IN PUBLIC RIGHT OF WAY LOWER THAN THE LOWEST HOUSE ELEVATION

**SIDE SEWER DETAILS**

**REV. 10/19/17**
NOTES
1. * FOR PIPE DEEPER THAN 18", PIPE BEDDING SHALL EXTEND 18" ABOVE CROWN OF PIPE
2. NOT TO SCALE

SANITARY SEWER TRENCH SECTION

NOTES
1. LOCATE TEST BOX OVER CENTERLINE OF FORCemain.
2. PROVIDE TEST BOX AT 500' INTERVALS AND AT BENDS.
3. PROVIDE 12" WIRE LOOP INSIDE VALVE BOX (TYP).
4. INLINE CONNECTORS ON WIRE ARE NOT ALLOWED.

FORCemain TRACER WIRE LOCATE STATION

REV. 10/30/17
GRINDER PUMP INSTALLATION

GRINDER PUMP INSTALLATION

NOTES
1. GRINDER PUMP SYSTEM SHALL BE: SIMPLEX GRINDER SYSTEM MODEL SAMS—8 AS MANUFACTURED BY PUMPTECH INC (NO EQUAL).
2. INSTALL IN ACCORDANCE WITH ARTICLE VIII MINIMUM REQUIREMENTS AND INSTALLATION OF SIDE SEWER — PRESSURE, OF THE SIDE SEWER REGULATIONS.
3. VERIFY EXISTING SEWER OUTLET BEFORE INSTALLING GRINDER PUMP TANK.

REV. 10/19/17

GPD-1
NOTES
2. THE TANK LOCATION SHALL BE ACCESSIBLE FOR MAINTENANCE AND REPAIR BY DISTRICT PERSONNEL.
3. TANK COVER SHALL BE APPROX 3" ABOVE FINISHED GRADE. FINISH GRADE SHALL BE FREE DRAINING AND AWAY FROM THE TANK SO THAT SURFACE WATER CANNOT POND AROUND THE STATION.
4. AIR VENT MAY BE INSTALLED IN ALTERNATIVE LOCATION WITH DISTRICT APPROVAL.
5. POSITION GRINDER PUMP TANK TO MINIMIZE NUMBER OF BENDS IN DISCHARGE PRESSURE PIPING. BENDS SHALL BE INSTALLED IN THE GRAVITY SIDE SEWER IF NEEDED.
6. NO PLANTS ARE TO BE LOCATED WITHIN 5- FT OF THE TANK. THE PROPERTY OWNER SHALL MAINTAIN A 5- FT CLEAR ZONE AROUND THE TANK.
7. THE LOCATION OF THE CONTROL PANEL SHALL BE:
   1. ACCESSIBLE FOR EASY MAINTENANCE AND REPAIR
   2. THE ALARM LIGHT MUST BE VISIBLE 180° RADIUS FROM 50- FT
   3. VISIBLE FROM THE TANK
   4. THE BOTTOM WITHIN 4.5- FT OF FINISH GRADE.
   5. FENCES, BRUSH, OR ANY OTHER OBJECT SHALL NOT HIDE THE LIGHT OR HINDER IN THE MAINTENANCE AND OR REPAIR OF THE SYSTEM

GRINDER PUMP SITE LAYOUT INSTRUCTIONS
REV. 10/19/17

NOTES
1. PUMP AND FLOAT CABLES TO BE EXTENDED INTO AND END AT THE J-BOX USING TWO SEPARATE CONDUITS; ONE FOR THE PUMP AND ONE FOR THE FLOATS. A SINGLE CONDUIT WITH INDIVIDUAL WIRES SHALL THEN EXTENDED FROM THE J-BOX TO PUMP CONTROL PANEL.
2. RUN FROM THE J-BOX TO THE PUMP CONTROL PANEL FOUR #10 AWG THHN WIRE FOR THE PUMP (WHITE, BLACK, RED, ORANGE), TWO #14 AWG THHN WIRE WITH INDIVIDUAL COLORS FOR THE PUMP SENSOR AND PROBE, AND THREE SETS OF INDIVIDUAL COLORED #14 WIRE FOR THE FLOATS.
3. AN EXPLOSIVE GAS SEAL-OFF SHALL BE INSTALLED IN THE ELECTRICAL CONDUIT JUST PRIOR TO THE PUMP CONTROL PANEL.
4. INSTALLATION MUST CONFORM TO ALL REQUIREMENTS AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE. AN ELECTRICAL PERMIT AND INSPECTION IS REQUIRED WHETHER THE WORK IS PERFORMED BY THE OWNER OR A CONTRACTOR.
5. THE OWNER'S DISTRIBUTION PANEL SHALL SUPPLY ONE SEPARATE 230-V SINGLE PHASE, 30-AMP CIRCUIT FOR THE PUMP, AND ANOTHER SEPARATE 120-VOLT, 15-AMP CIRCUIT FOR THE ALARM SYSTEM.
6. THE CONTRACTOR SHALL REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE GRINDER PUMP CONTROL PANEL. THE TYPICAL CIRCUIT DIAGRAM SHOWN ABOVE IS ONLY AN EXAMPLE.
NOTES
1. ALL HDPE WELDING SHALL BE MADE USING ELECTRO-FUSION.
2. WHEN BOXES LOCATED IN TRAFFIC AREAS: WHERE BOXES ARE SUBJECT TO ANY POSSIBLE VEHICLE LOADING, REPLACE THE CARSON BOXES WITH FOGITE #2 CONCRETE BOXES WITH FOGITE STEEL TRAFFIC LIDS MARKED "SEWER".

TRACER WIRE NOTES
1. ALL HDPE PIPE SHALL BE INSTALLED WITH 12-GAUGE SOLID CORE WIRE, TRACER WIRE. THE WIRE SHALL BE WRAPPED AROUND THE PIPE AS PART OF THE INITIAL INSTALLATION.
2. TRACER WIRE SHALL BE LOOSED THROUGH THE COLLECTION VALVE BOX AS SHOWN IN THE DETAIL.
3. WHERE A CUT-IN CONNECTION IS MADE TO AN EXISTING LOW PRESSURE SEWER, THE TRACER WIRES SHALL BE SPLICED TOGETHER USING BUTT CONNECTORS AND SHRINK TUBING PROTECTION.
4. TRACER WIRE SHALL EXTEND FROM THE GRINDER PUMP CLEANOUT TO THE COLLECTION VALVE BOX AS SHOWN IN THE DETAILS.

GRINDER PUMP CLEANOUT

COLLECTION VALVE BOX

COLLECTION VALVE BOX
NOT REQUIRED FOR CONNECTION TO GRAVITY SIDE SEWER

FROM GRINDER PUMP CLEANOUT

MIN 4" OF COVER IN ROAD

COLLECTION MAINLINE LOW PRESSURE SEWER MAIN

1-1/4" x 12" BRASS NIPPLE (GRINDER PUMP DISCHARGE DEPTH AS NEEDED)
PRESSURE LINE CONNECTION

NOTES
1. ALL PVC FITTINGS SHALL BE GASKETED.
2. NO COLLECTION VALVE BOX REQUIRED WHEN CONNECTING TO A GRAVITY SIDE SEWER

PRESSURE LINE CONNECTION TO GRAVITY SANITARY SEWER
PRESSURE SEWER DROP CONNECTION

NOTES:
1. 12 GAUGE TRACER WIRE SHALL BE COILED AROUND THE FIRST MANHOLE RUNG.

DISTRICT APPROVAL REQUIRED FOR WORK INSIDE MANHOLES. BREAK OUT EX CHANNEL AND MATCH CROWN WITH EX MAIN. CHANNEL TO BE DIRECTED WITH FLOW OF MANHOLE. IF MANHOLE IS LIVE, INSTALL DROP CONNECTION OUTLET ON SHELF.
TYPE II LOW PRESSURE CLEANOUT WITH MANHOLE (TRAFFIC AREAS)

SANITARY MANHOLE FRAME AND COVER
OLYMPIC FOUNDRY # MH 30 MARKED "SEWER"

LOCKING CLEANOUT COVER
OLYMPIC FOUNDRY NO. M-1025 MARKED "SEWER"

60" FLAT-TOP MANHOLE WITH 5' DEEP SECTION

PROVIDE MIN OF 3' OF TRACER WIRE COILED AROUND TOP STEP

2" MIN CLEARANCE (TYP) ALL PIPE PENETRATIONS

MAINLINE

COMPACTED PEA GRAVEL BASE

NOTE:
1. MATERIAL LIST PROVIDED ON THE DETAIL TITLED LOW PRESSURE CLEANOUT NOTES AND MATERIAL LISTS.

REV. 10/19/17

TYPE I LOW PRESSURE CLEANOUT WITH MANHOLE (NON-TRAFFIC AREAS ONLY)
SECTION A-A FOR LOW PRESSURE CLEANOUTS

LOW PRESSURE CLEANOUT NOTES

1. THE PIPING SYSTEM INSTALLED IN A TYPE I AND TYPE II CLEAN OUT IS THE SAME. THE ONLY DIFFERENCE BETWEEN THE TWO TYPES IS A TYPE I REQUIRES A PRE-MANUFACTURED VAULT, WHILE A TYPE II REQUIRES A FLAT-TOP MANHOLE SECTION.

2. LOW PRESSURE CLEANOUTS SHALL BE INSTALLED AT A MINIMUM OF EVERY 500-FT AND AT THE END, OR TERMINUS, OF THE LOW PRESSURE SEWER MAIN.

3. THE MANHOLE SECTION AND/OR VAULT SHALL BE INSTALLED LEVEL AND SHALL DRAIN TO DAYLIGHT OR STORM SYSTEM. THE COVER AND/OR LID SHALL BE ADJUSTED TO GRADE.

4. WHERE THE CLEAN OUT IS INSTALLED AT THE TERMINUS OF A MAIN, THE PVC PLUG(ITEM 7) SHALL BE INSTALLED INTO THE END OF THE PVC TEE (ITEM 5), ALLOWING FOR FUTURE MAIN EXTENSIONS.

MATERIAL LIST

1. ALL PARTS SHALL BE THREADED PVC, SCHEDULE 80, WITH THE SAME DIAMETER AS THE SEWER MAIN (EXCEPT AS NOTED).

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ITEM NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HOPE PRESSURE PIPE SDR 11</td>
</tr>
<tr>
<td>2</td>
<td>HOPE x 316SS MPT TRANSITION FITTING, 6-INCH LENGTH (FULL BORE) DIAMETER SHALL BE SAME SIZE AS THE SEWER MAINLINE</td>
</tr>
<tr>
<td>3</td>
<td>UNION BALL VALVE, PVC</td>
</tr>
<tr>
<td>4</td>
<td>NIPPLE, PVC</td>
</tr>
<tr>
<td>5</td>
<td>TEE, PVC</td>
</tr>
<tr>
<td>6</td>
<td>90° ELBOW, PVC</td>
</tr>
<tr>
<td>7</td>
<td>PLUG, PVC (MIP)</td>
</tr>
<tr>
<td>8</td>
<td>CONCRETE BLOCK – (SIZE TO SUIT)</td>
</tr>
<tr>
<td>9</td>
<td>MIP X 2 1/2” MNST SWIVEL BRASS HOSE ADAPTOR (PROVIDE REDUCER AS REQUIRED)</td>
</tr>
<tr>
<td>10</td>
<td>2 1/2” PNST CAP W/CHAIN</td>
</tr>
<tr>
<td>11</td>
<td>ALUMINUM U-BOLTS BOLTED TO SUPPORTS WITH STAINLESS STEEL NUTS</td>
</tr>
<tr>
<td>12</td>
<td>1-1/2” X 3/16” ALUMINUM BAR, BENT AS SHOWN IN TYPE I CLEANOUT DETAIL AND ATTACHED TO CONCRETE WALL WITH STAINLESS STEEL ANCHOR BOLTS</td>
</tr>
<tr>
<td>13</td>
<td>TRACER WIRE, INSULATED 12-GAUGE SOLID CORE WIRE (WRAP TRACER WIRE AROUND ALL PIPES DURING INSTALLATION)</td>
</tr>
<tr>
<td>14</td>
<td>HOPE ELECTRO-FUSION SOCKET WELDED COUPLING</td>
</tr>
</tbody>
</table>

LOW PRESSURE CLEANOUT NOTES AND MATERIAL LIST

REV. 10/19/17
Sewer Service Application

Service Order # _______ Side Sewer Permit # _______

SERVICE ADDRESS _____ TAX LOT # _____

10. Contractor shall comply with all requirements of the Washington Industrial Safety and Health Act RCW 49.17, for trench excavation exceeding a depth of four feet, including required safety systems.
11. The Owner and contractor agree that all street cleanup and road restoration will be made to the satisfaction of the governing authority, i.e., City, County, State Highway, etc.
12. The Owner and contractor agree to obtain, at no cost or liability to the District, all other necessary permits for construction work to be accomplished under this permit.
13. ALL PLUMBING OUTLETS SHALL BE CONNECTED TO THE SEWER.

VARIANCES TO DISTRICT STANDARDS

Owner agrees to hold the District harmless for any damage which may occur as a result of the variance(s) noted below.

A. Inadequate Cover
   Owner Initials
B. 2% Grade Release
   Owner Initials
C. Other Backwater Valve
   Owner Initials

SIDE SEWER CONNECTION DESCRIPTION

☐ SINGLE FAMILY / ☐ MULTI-FAMILY / ☐ NON-RESIDENTIAL
☐ CONNECTION / ☐ DISCONNECTION / ☐ RECONNECTION / ☐ REPAIR OR ALTERATION
☐ GRINDER PUMP / ☐ GREASE INTERCEPTOR / ☐ OILWATER SEPARATOR
☐ HOUSE HAS A BACKWATER VALVE (NOTE: HOMEOWNER IS RESPONSIBLE FOR MAINTAINING THIS DEVICE

AS-BUILT DRAWING

I HEREBY CERTIFY THAT THE TESTING HAS BEEN APPROVED AND THE ABOVE CONNECTION HAS BEEN MADE AS SHOWN

INSPECTOR_______________________ INSPECTION DATE______________________

EXAMPLE SIDE SEWER AS-BUILT DRAWING  [REV. 12/03/19]
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APPENDIX "B"

RESOLUTION ADOPTING NEW REGULATIONS
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RESOLUTION NO. 4938

RESOLUTION OF THE BOARD OF COMMISSIONERS OF SAMMAMISH PLATEAU WATER AND SEWER DISTRICT, KING COUNTY, WASHINGTON, REPEALING RESOLUTION NO. 3914 AND ADOPTING NEW REGULATIONS FOR SIDE SEWER CONNECTIONS

WHEREAS, the Sammamish Plateau Water and Sewer District ("District") is a special purpose municipal corporation authorized and existing under the laws of the State of Washington, Title 57 RCW, and is authorized by law to provide water and sewer utility service to the geographic area in King County known as the Sammamish Plateau; and

WHEREAS, District Staff have recommended increased coordination with side sewer contractors to reduce the risk of damage to the District’s sewer system, reduce land use and right-of-way permit violations by side sewer contractors, and assist side sewer contractors to efficiently install side sewers that conform to District standards; and

WHEREAS, in the past ten years improvements have been made to the District’s sewer system, and changes have occurred in the types of products used to provide sewer service; and

WHEREAS, District Staff have recommended that the District’s sewer connection and side sewer regulations be updated to reflect these and other changed conditions; now therefore,

BE IT RESOLVED, by the Board of Commissioners of Sammamish Plateau Water & Sewer District, King County, Washington, as follows:

1. The Side Sewer Regulations for constructing side sewer extensions to the District’s sewer system, in the form attached hereto as Exhibit "A" is hereby approved and adopted for use in the District effective the date of the adoption of this resolution.

2. All District resolutions, policies, and procedures, including Resolution No. 3914, are hereby superseded, rescinded and modified to be in accordance with such Side Sewer Regulations adopted herein.

3. This resolution and the policies and procedures set forth herein shall be effective the date set forth below.
ADOPTED by the Board of Commissioners of Sammamish Plateau Water and Sewer District, King County, Washington, at a regular open public meeting held on the 27th day of January 2020.

Individual Commissioner's Vote on this Resolution:

Approved: __________________________
Opposed: __________________________
Abstained: _________________________
Absent: ____________________________

Approved: __________
Opposed: __________
Abstained: __________
Absent: __________

Approved: __________
Opposed: __________
Abstained: __________
Absent: __________

Approved: __________
Opposed: __________
Abstained: __________
Absent: __________

Ryika Hooshangi, President and Commissioner
Lloyd Warren, Vice President and Commissioner
Mary Shustov, Secretary and Commissioner
Tom Harman, Commissioner
Mahbubul Islam, Commissioner

Resolution No. 4938