Environmental Public Health

Water Recreation Main Drain Plan Review Checklist

General Project Information	
☐ Main Drain Cover Replacement Only ☐ Main Drain Cover Replacement Plus Additional Modifications	
Project Name:	
Site Address:	
Specify Pool Involved (e.g. outdoor swimming pool):	
Owner	Name:
	Address:
	Telephone Number:
	Email Address:
Architect	Name:
	Address:
	Telephone Number:
	Email Address:
General Contractor	Name:
	Address:
	Telephone Number:
	Email Address:
Pool Contractor	Name:
	Address:
	Telephone Number:
	Email Address:
Billing Information	Billing to be sent to:
	Address:
	Telephone Number:
	Email Address:
Name of Public Water Supply Serving This Facility:	
Facility Connected to Septic or Sewer?	

Submittal Instructions

This submittal will not be reviewed for compliance with all the elements of the federal Virginia Graeme Baker Pool and Spa Safety Act (VGB). However, it will be reviewed for compliance with Chapter 246-260 WAC, which includes the technical design standards of VGB. The federal agency responsible for implementation and enforcement of the Virginia Graeme Baker Pool and Spa Safety Act is the Consumer Product Safety Commission (CPSC). Because state and federal laws have different regulatory requirements, compliance with Washington State regulations does not automatically constitute compliance with the federal Act. Facilities must comply with the minimum requirements of both state and federal law. For additional information, visit https://srhd.org/programs-and-services/pools-water-recreation .

Cover Replacement Only for Main Drain and/or Skimmer Equalizer Line (Architect/Engineer stamp not required)

Submit two sets of the following to Spokane Regional Health District (SRHD):

- Equipment specification sheets for all pumps, main drain covers, and equalizer line covers. Indicate the manufacturer and model number. Pump specification sheets must include the pump performance curve.
- Main drain checklist (two for each pool being modified). Complete the checklist in its entirety before submitting.

Cover Replacement for Main Drain and/or Skimmer Equalizer Line Plus Additional Modifications

(Architect/Engineer stamp may be required, for example, installation of a field-built sump - contact SRHD for a determination)

Submit two sets of the following to SRHD:

- Equipment specification sheets for all pumps, main drain covers, pump shutoff devices, alarms, equalizer line covers, etc. proposed for the pool. Indicate the manufacturer and model number. Pump specification sheets must include the pump performance curve.
- Main drain checklist (two for each pool being modified). Complete the checklist in its entirety before submitting.
- Scale cross-sectional views of the pool showing the main drain detail.
- Plan view of the pool, drawn to scale, showing the main drains.
- Detailed schematic of the pool's current and proposed piping configuration, including pipe sizes, materials, and main drains.

Contact SRHD (509/324-1560, ext. 4) to determine if additional information is required.

Incomplete submittals will not be processed. Since main drain modifications are not always standard, contact SRHD at (509) 324-1560, ext. 4 to determine if additional information is required. All construction and equipment must comply with the *Washington State Board of Health Rules and Regulations for Water Recreation Facilities, Chapter 246-260 WAC*, *October 31, 2004.* Written approval must be obtained from SRHD before beginning the modifications.

Main Drain Plan Review Checklist

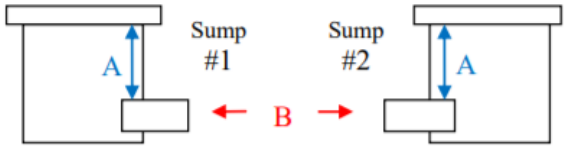
Provide the following information for new equipment, unless otherwise indicated:

Pump Information (for all pumps attached to the system)	
Recirculation pump information	☐ New ☐ Existing
	Manufacturer:
	Model #:
	Horsepower:
	Maximum Capacity with Clean Filter = GPM@ FOH
Jet Pump information	Jet pump information: ☐ New ☐ Existing
	Manufacturer:
	Model #
	Horsepower:
	Maximum Capacity = GPM@ FOH
Skimmer Equalizer Line Fitting Information	
Equalizer line cover	Manufacturer:
	Model #:
	Number of covers:
	Equalizer line fittings conform to ANSI/APSP-16 2011 standard WAC 246-260-031(8)(d)(iii): ☐ Yes ☐ No
Pump Shutoff Device Information (Alarm is required with an SVRS)	
Safety Vacuum Release System (SVRS)	Manufacturer:
	Model #:
	List pump on which SVRS is installed:
	Has designer or installer confirmed with SVRS manufacturer that the device is compatible with the pool's hydraulic system: ☐ Yes ☐ No Specify:
	WAC 246-260-041(11)(h), WAC 246-260-071(7), WAC 246-260-081(4), WAC 246-260-171(4)
Alarm Information	Manufacturer:
	Model #:
	Installation location:
Main Drain Information	
Main drain covers	Manufacturer:
	Model #:
	Square inches of opening per drain cover:
	Main drain cover compliant with ANSI/APSP-16 2011 standard: ☐ Yes ☐ No
	Specification sheets provided: ☐ Yes ☐ No

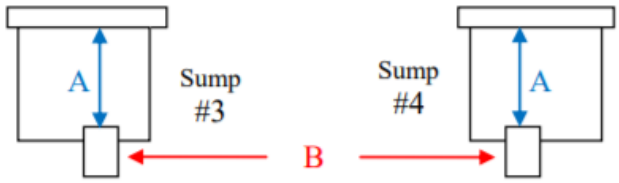
	Installation instructions included: ☐ Yes ☐ No
Existing main drain sumps	Main drain sump construction: ☐ Field built (Engineer's stamped drawings required) ☐ Manufactured
	Existing main drain sump dimensions complaint with ANSI/APSP-16 2011standard: ☐ Yes ☐ No (explain):
Proposed main drain sumps	☐ Use existing sumps ☐ Modify existing sumps – explain: ☐ Install commercially manufactured sumps: Specification sheets provided: ☐ Yes ☐ No Installation instructions included: ☐ Yes ☐ No

Main drain sump configuration (as proposed):

Indicate if piping enters sump through the **side**:



And/or Indicate if piping enters sump from the **bottom**:



Provide distance shown in "A" above – from the top of the pipe with the largest diameter connected to the sump to the bottom of the main drain cover:

Sump #1: inches

Sump #2: inches

Sump #3: inches

Sump #4: inches

Provide diameter of largest pipe connected to the sump(s) as shown in "B" above: inches

Provide diameters of all other pipes connected to the sumps: inches

Maximum water velocity through each main drains at 100% flow WAC 246-260-031(8)(a) and (e)(iii):

feet per second

(Maximum velocity cannot exceed 1.5 feet per second at 100% flow. Show calculations in Main Drain Calculations section on page 4.)

Main drains located at least 3 feet apart WAC 246-260-031(8)(e)(iv)(B) as measured from the center of each drain cover:
☐ Yes ☐ No - distance: feet apart

Number of main drains:

Main drains designed so that if one drain is blocked, the remaining main drains are rated to at least 100% of maximum pump flow(WAC 246-260-031(8)(e)(iv)(D): ☐ Yes ☐ No-Specify:

Main Drain Calculations

Main Drain Velocity (Assume 100% of maximum pump capacity through drains)

$$\frac{\text{Total Pump Capacity (GPM)}}{\text{448.8 (GPM per cubic foot per second)}} \div \frac{\text{Total Open Area in All* Drains (square inches)}}{\text{144 (inches per square foot)}} = \text{Main Drain Velocity (FPS)}$$

NOTE: Maximum main drain velocity cannot exceed 1.5 feet per second *Compliance with this WAC does not guarantee compliance with federal law or other codes or standards.
Additional Modifications
Describe any proposed <u>additional</u> modifications that affect the pool structure or hydraulics, including the sump, piping, skimmers, returns, etc.: Note: Any modifications to the existing piping require submittal of scale drawings and specifications prepared and stamped by an architect or engineer licensed in Washington State. These materials must be submitted to SRHD for review and approval prior to construction.

Architect/Engineer Signature and Stamp if Required:

Prepared and submitted by:

_____

(Signature) (Date)