



**STORMSwitch &  
Remote Indicating Beacon**



**STORMController**



**FLOW PATTERN:**

PORT TYPE	1	2	3	4
L	1/3 2	1/3 2	1/3 2	1/3 2
T	1/3 2	1/3 2	1/3 2	1/3 2

**STORMDiverters**

The Attitude Systems Automatic Stormwater Diversion System (ASWDS) is an automated electronic system designed to change the path of water; commonly dirty use water to one path and clean stormwater to another. The ASWDS typically consists of three main components: A STORMSwitch to detect an event (rain gauge, flow meter, float level, or other), a STORMController to respond and coordinate the signals from the event, and a STORMDiverter to divert the water (typically pumps and/or valves). This system is pre-configured for site-specific needs and is easy to install. No special engineer or contractor is required. The ASWDS requires little maintenance and comes with clear installation and configuration guides. One of the strongest advantages of this system is its configurability. The configuration can be changed by using the intuitive controls on the STORMController box

**ASWDS APPLICATIONS:**

There are many different applications for an ASWDS especially where it is desired to change the path of water due to different types of events. One very common application is for wash racks where the normal wash water is directed by pumps or gravity fed through valves to a clarifier and then on to the sanitary sewer. When it rains, the path of the water is changed to send the rain water to the storm sewer. Wash Racks are found in Public Works Yards, Airports, Truck Centers, Fire Stations, and almost anywhere where trucks or equipment are washed. Another common area for ASWDS is at truck docks and food processing centers and Winery Crush Pads. Other applications include outdoor shower areas and retention or infiltration ponds. The most common alternative is to roof the area, but this is typically far more expensive and plagued with many other consequences.

**ASWDS COMPONENTS:**

The typical stormwater diversion system consists of three main components: the STORMSwitch, the STORMController, and the STORMDiverter.

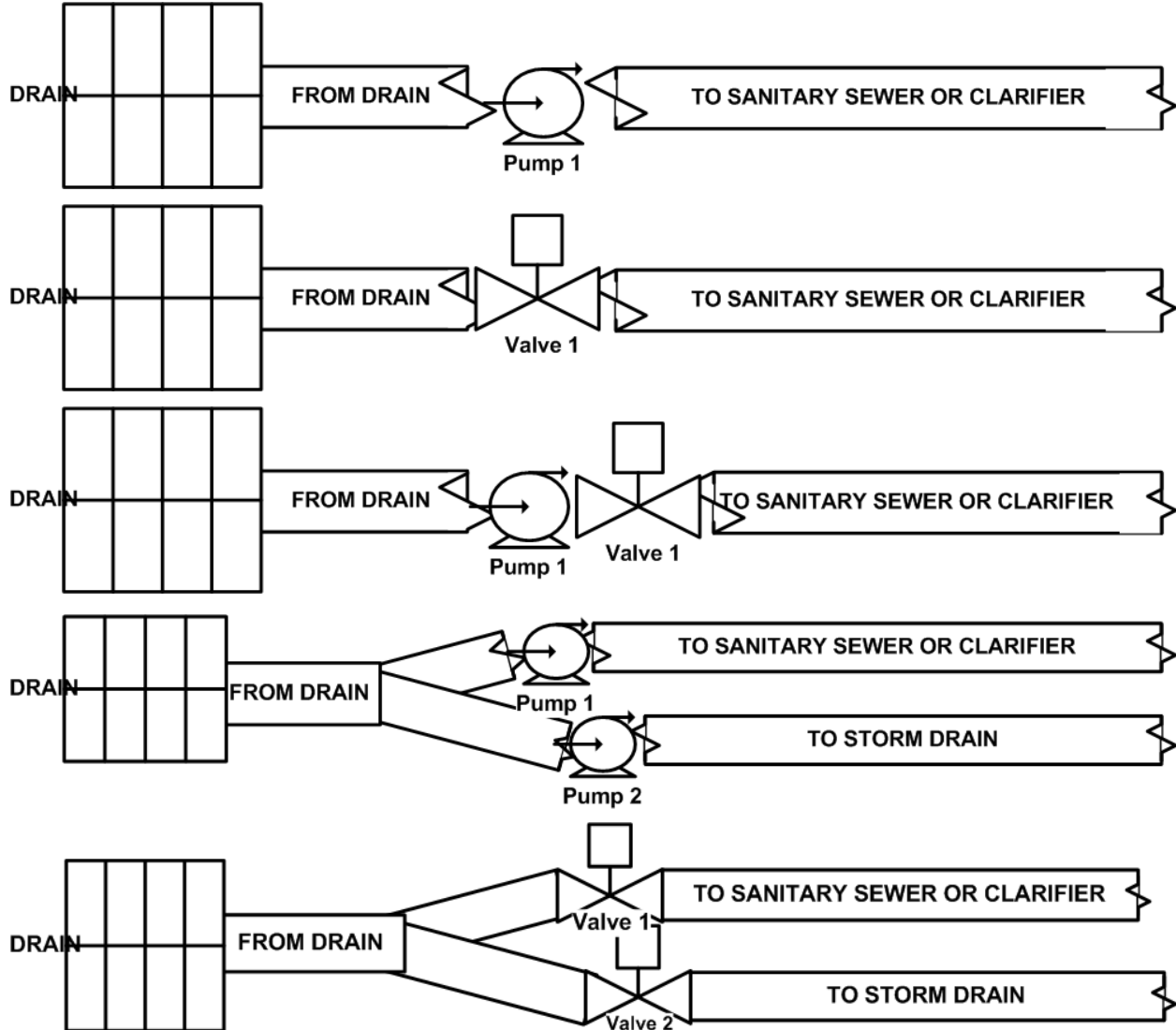
The **STORMSwitch** senses when a storm occurrence has taken place, typically with 1/10th of 1" of rain or stormwater has fallen (but can be varied in both amount of rainfall and duration), and signals the Controller. The ASWDS can use several input combinations, including photoelectric eyes or a flow switch.

The **STORMController** takes the signal from the STORMSwitch and changes to storm mode by controlling the diversion method, keeping track of events, and providing status information. Storm mode is indicated by the changing of light colors on the STORMController unit from GREEN to RED at the same time the STORMController changes the operating state of the STORMDiverter.

The **STORMDiverter** can be pumps, valves, or a combination of both. A diversion example is turning the sewer/clarifier pump *OFF*, turning storm drain pump *ON*, closing the valve to sanitary sewer, opening valve to storm drain or any combination there of.



# Automatic StormWater Diversion System Layouts



Attitude Systems can custom design your Automated StormWater Diversion System to meet your site-specific needs.

We can implement a multitude of different layout and configuration options to ensure your system will work under any circumstances.

#### BENEFITS:

- Much less expensive than roofing
- Ability to change configurability and flexibility in PLC
- Automatic Exercising of Valves
- RCS (Rain Collector Switch) does not hold standing water and has debris guard
- Power supply - 110 VAC at less than 20 amps or typical standard power requirements
- Water Proof Manual and Wiring Diagram included
- NEMA 4X enclosures
- Bright Status Lights – can be configured with alarms