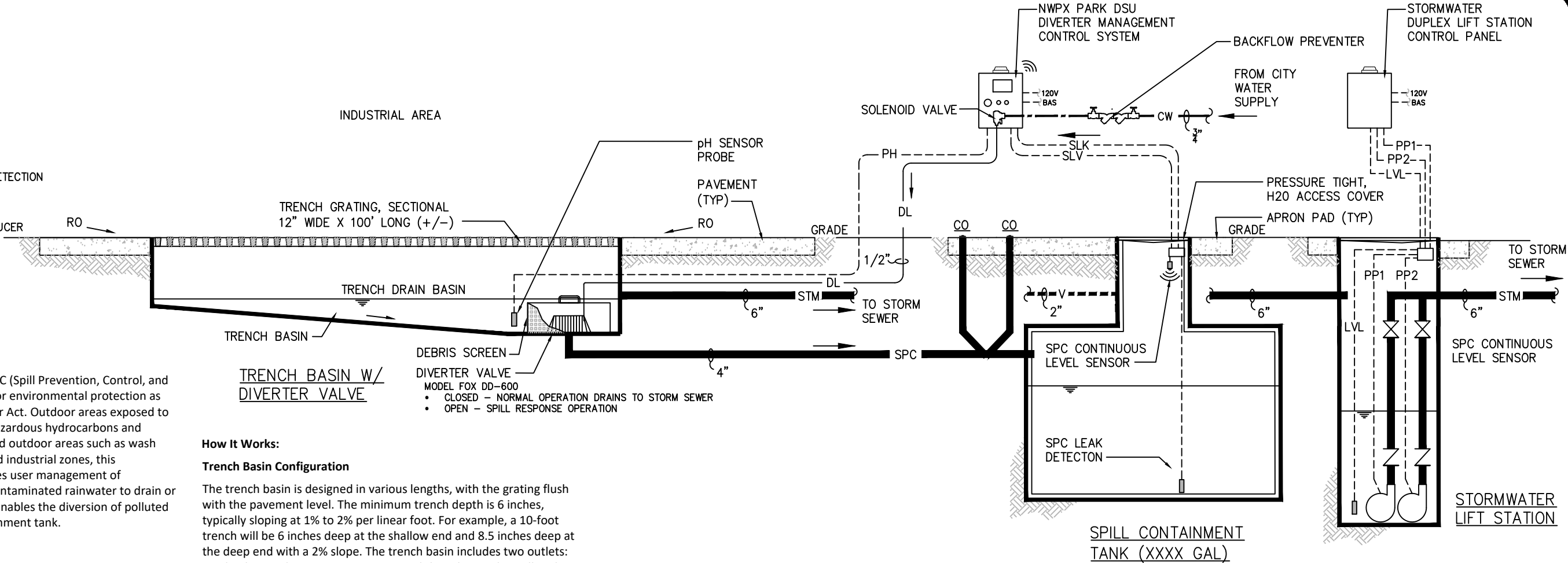


- LEGEND
- CW - CITY WATER (POTABLE)
 - SAN - SANITARY LINE
 - STM - STORM LINE
 - SPC - SPILL CONTAINMENT LINE
 - RO - RUNOFF
 - DL - DRIVE LINE, 1/2" COPPER
 - CO - CLEAN OUT
 - HLA - HIGH OIL LEVEL ALARM
 - FSV - FLOAT SENSOR (DIV)
 - FLW - FLOW SWITCH (OPT)
 - BAS - BUILDING AUTOMATION
 - SLV - CONTAINMENT TANK LEVEL
 - SLK - CONTAINMENT TANK LEAK DETECTION
 - PH - pH SENSOR PROBE
 - PP1 - PUMP #1 POWER
 - PP2 - PUMP #2 POWER
 - LVL - LIFT STATION LEVEL TRANSDUCER



General Information:

The NWPX Park Model DSU is an SPCC (Spill Prevention, Control, and Countermeasure) system designed for environmental protection as mandated by the federal Clean Water Act. Outdoor areas exposed to rainwater require protection from hazardous hydrocarbons and chemical spills. Designed for unroofed outdoor areas such as wash racks, parking lots, loading docks, and industrial zones, this environmental control system enables user management of stormwater runoff. It allows for uncontaminated rainwater to drain or be pumped to the storm sewer and enables the diversion of polluted runoff or accidental spills to a containment tank.

System Components:

Trench Drain:

The trench drain system captures all area drainage runoff. Constructed from heavy-duty steel with an integral frame, the trench basin is designed with a slope to ensure proper drainage. It is equipped with traffic-duty, ductile iron sectional grating that is removable for easy inspection and cleaning.

Diversion Valve:

A hydraulically activated diverter valve provides reliable and intrinsically safe runoff diversion. This valve, listed with the Uniform Plumbing Code (UPC), is a FOX Environmental Model DD and is located within the trench basin.

Spill Control System:

The DSU control system acts as the central intelligence for continuous management. It features monitoring, data logging, and alerts for the spill containment tank's full level and leak detection, ensuring efficient control and responsive action.

Spill Containment Tank:

The double-wall containment tank provides safe storage for hazardous spills. Made from lined concrete, fiberglass, or stainless steel, the tank is designed to be both chemical-proof and leak-proof.

Pump Lift Station:

The pump lift station moves stormwater to the storm sewer system. This duplex lift station houses two submersible pumps configured in a lead-lag setup to provide 270 GPM at 25' TDH (each pump). The pumps are installed in a wet well to ensure adequate volume, access, and automatic operation. The lift station is interlocked with the DSU control system to ensure synchronized operation.

How It Works:

Trench Basin Configuration

The trench basin is designed in various lengths, with the grating flush with the pavement level. The minimum trench depth is 6 inches, typically sloping at 1% to 2% per linear foot. For example, a 10-foot trench will be 6 inches deep at the shallow end and 8.5 inches deep at the deep end with a 2% slope. The trench basin includes two outlets: one leading to the stormwater sewer and the other to the spill tank. The Spill Containment Tank Outlet, equipped with a diverter valve, is located near the trench bottom and is protected by a debris screen to capture coarse solids. The Stormwater Outlet is slightly higher than the Spill Tank Outlet. A pH sensor probe is located near the trench bottom in a protected and accessible area.

Normal Operation:

During normal use, the trench drain collects all liquids that fall on the pavement, including incidental moisture or precipitation. The Diverter Valve remains CLOSED, allowing the basin to fill to the level of the Stormwater Outlet before draining. The runoff water then drains to the Stormwater Lift Station, where it is pumped to the stormwater sewer.

Spill Response Operation:

In the event of a spill or routine wash-down, the control panel's pH analyzer automatically activates the diversion valve when pH values are outside the acceptable range of 5 to 9, causing it to OPEN and drain all liquids into the containment tank. A manual emergency activation button can also be used to open the valve. The valve remains open until manually reset to CLOSE. The pump station is interlocked with the DSU control system to deactivate if the Spill Containment Tank reaches maximum capacity, preventing polluted stormwater from being pumped into the environment.

Maintenance:

For optimal safety, it is recommended to remove captured spill materials from the containment tank in compliance with environmental regulations.

NWPX Park Model DSU Spill Control and Countermeasures System:

Efficient Water Runoff Management - Elevate your environmental protection with the NWPX Park Model DSU, the ultimate SPCC system for outdoor areas. Perfect for parking lots, loading docks, and industrial zones, it smartly manages water runoff, ensuring only clean water makes its way into sewers.

Features:

- Duplex Stormwater Lift Station
- Trench Drain
- 3-Way Flow Diversion Operation (Storm Sewer or Spill Containment Tank)
- Spill Containment Tank
- Control SystemS

INDUSTRIAL SPCC SYSTEM

Applications:

- Fuel loading racks
- Gas stations & fueling pads
- Aircraft fueling aprons
- Vehicle & equipment wash bays
- Truck & bus maintenance yards
- Rail yards
- Marinas & boat washdowns
- Chemical loading/unloading areas
- Tank farms & bulk storage terminals
- Dumpster & trash compactor areas
- Recycling & scrap metal facilities
- Fire station wash racks
- Military washdown/decon areas
- Mining equipment wash areas
- Power plant transformer containment areas
- Industrial process washdown pads
- Airport deicing pads
- Emergency hazmat response areas
- Oil & gas drilling sites

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PROJECT: .				
CUSTOMER: .				
ENGINEER: .				
ORDER #: .				
PROJECT #:		LOCATION: .		
DATE: .				
INDUSTRIAL SPCC SYSTEM SPILL CONTROL & COUNTERMEASURES				
PM	ENV	ENG	DWG. NO.	REV.
DATE	03/27/26	DSU-S-1200-SPC-DD3-06-CPRT	A	