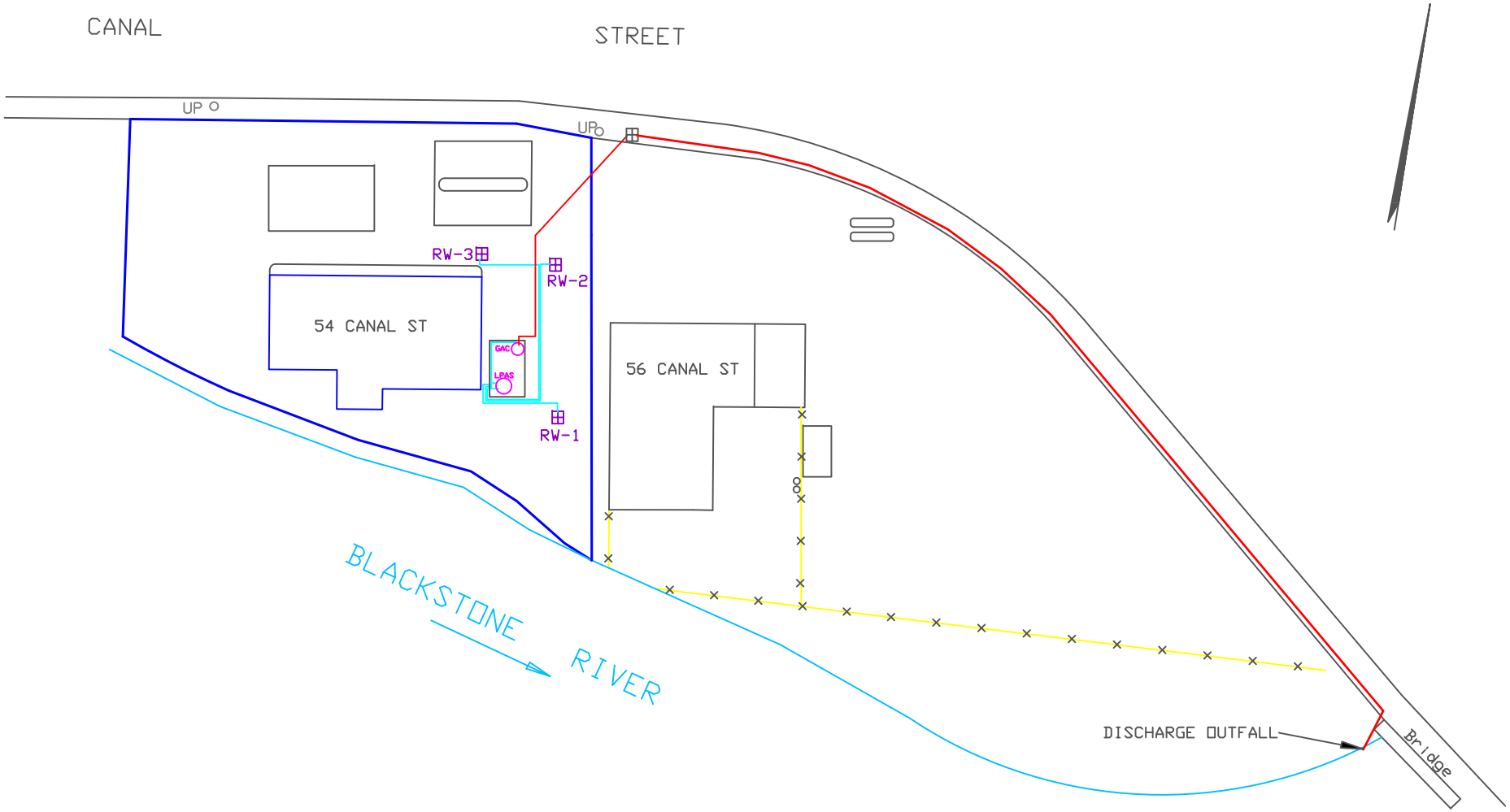


LEGEND

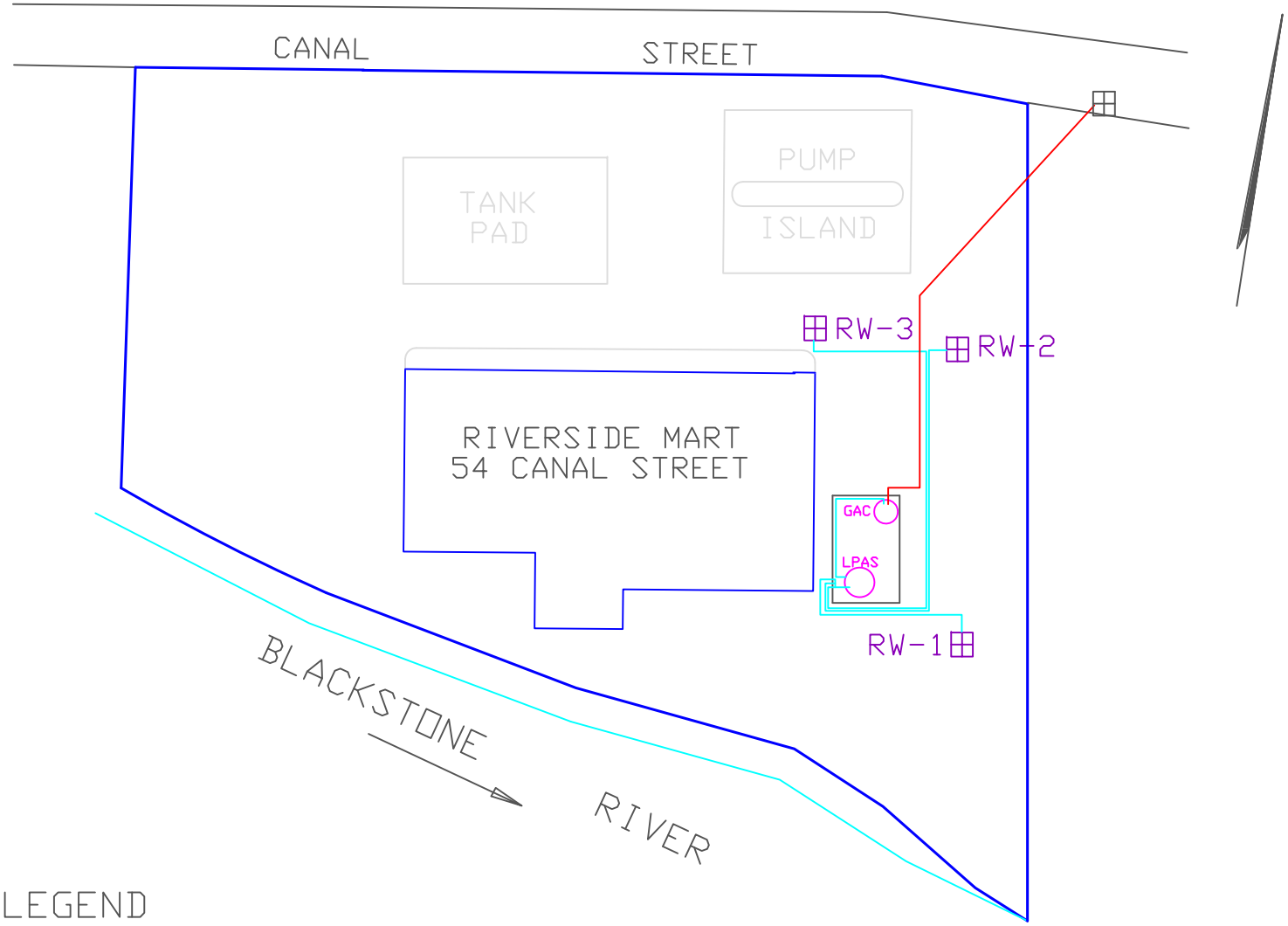
MW-1 85.56	MONITORING WELL W/WATER ELEVATION IN FEET
RW-1	RECOVERY WELL
MW-5S	NESTED MONITORING WELL
MW-2	SOIL VAPOR EXTRACTION WELL
TW-1	DESTROYED MONITORING WELL
UP	UTILITY POLE
WG	WATER GATE VALVE
84.0	GROUNDWATER CONTOUR W/WATER ELEVATION IN FEET
	SITE PROPERTY BOUNDARY APPROX

0 25 50 100

ENVIRONMENTAL CONSULTING and MANAGEMENT SERVICES

FIGURE 1
TREATED GW DISCHARGE MAP

LOCATION	54 CANAL STREET MILLBURY, MA
SCALE	1" = 50' APPROX. J06-GWDIS



LEGEND

RW-1 ⊞ GW RECOVERY WELL

GW RECOVERY LINE

TREATED GW DISCHARGE LINE

SITE PROPERTY BOUNDARY APPROX

0 25 50 100

ETS

ENVIRONMENTAL CONSULTING and MANAGEMENT SERVICES

FIGURE 2
GWPT SYSTEM LAYOUT

LOCATION	54 CANAL STREET
	MILLBURY, MA
SCALE	1" = 50' APPROX. J06-GWPT

4.2 Groundwater Pump and Treatment System

In accordance with the Phase IV RIP, a groundwater pump and treatment (GPT) system and subsequent modifications were installed between June and October 1999 to reduce the groundwater level and maintain hydraulic control, thereby supplementing the on-Site SVE system to reduce dissolved- and vapor-phase hydrocarbons in soil and groundwater at the Site.

The GPT system includes three recovery wells (RW-1, RW-2 and RW-3) constructed of 18-inch polyvinyl chloride (PVC) culvert pipe installed to a depth of approximately 18 feet below grade with 10 feet of perforations at the bottom portion of the culvert pipes. Each recovery well includes a ¾ horsepower Gould Model 3885 WE07H electrical submersible pump designed to pump 10 gallons per minute at 50 feet of head.

A 10-foot by 16-foot gable roof remediation shed was installed on a concrete pad along the north side of the Site building to house surface components for the SVE and GPT system. Recovered groundwater is filtered through a series of Rosedale Model 8 bag filter assembly and treated through five-tray Shallow Tray Model 2331P air stripper with a 500-pound liquid GAC polish unit prior to final discharge into the municipal storm drain network in accordance with the National Pollution Discharge Elimination System (NPDES) Permit Exclusion (#99-050) for the Site.