

DRY HYDRANT DESIGN AND CHECK DATA REQUIREMENTS

The following items must be documented for dry hydrants.

Survey Record

1. Elevation difference between bottom of stream or pond and ground surface at fire truck access.
2. Cross section along hydrant centerline.
3. Plan view of hydrant, truck access and water source (pond or stream).

Design Record

1. PA Utility Act compliance.
2. Erosion and sediment control plan.
3. Soils investigation for excavation.
4. Verify water availability (1.1 acre-inches or 250 gpm for 2 hours)
5. Verify total lift (head loss) is less than 20 feet.
6. Pipe size and fittings to meet fire truck needs.
7. 12 feet wide all weather access.
8. Lime, fertilizer, seeding requirements.

Check Data Record

1. Elevations at inlet and outlet of hydrant.
2. Pipe installation, bedding, and backfill.
3. Length of pipe
4. Fittings, strainer or screen, and end cap.
5. Seeding performed.

Operation and Maintenance Plan

Annual pump test.

Semi-annual back flushing.

Five year inspection of intake screen.

Mowing, debris removal, and other routine maintenance.

All weather access for fire trucks, including snow removal if needed.

Quality Assurance Plan

What specific items need inspection and when?

Who will do the actual inspection?

Is any testing equipment required for the inspection?