

## ROOF RUNOFF STRUCTURE DESIGN AND CONSTRUCTION DATA REQUIREMENTS

The following items must be documented in the design folder for Roof Runoff Structures:

### Design Record

1. Flow capacities of gutters, downspouts, and rock fills.
2. Structural integrity of supports, such as fascia boards, as needed.
3. Design of subsurface drains and outlets in accordance with PA606 and PA620, respectively.
4. Design of concrete structures in accordance with the NEM and NEH, as needed.
5. Design of any water storage and supply structures.
6. PA One-Call compliance.

### Drawings

1. Freehand sketch of layout, including roof areas and slopes, outlets, and downspouts.
2. Profile along the proposed centerline(s) of drip-line drains.
3. Profile of ground surface and proposed grade of channels and drains.
4. Profile along centerline(s) of drain

- and outlet pipes, in accordance with PA606 and PA620, respectively.
5. Protective devices, such as guards and cleanouts.
6. Any water storage and supply structures, including appurtenances such as first flush devices.
7. PA One-Call serial number.

### Construction Check Data

1. Measurements to show gutter, drip-lines, and appurtenances were installed as designed or otherwise modified by authorized personnel.
2. Length, kind, spacing, and size of gutters and downspouts.
3. Length, kind, and size of outlet pipe(s), or as indicated in the associated specification.
4. Method of gutter supports.
5. Conformance with design of water storage and supply structures.
6. Location sketch of lines and outlets as installed.
7. Gradation and quantity of stone in drip-line drains.