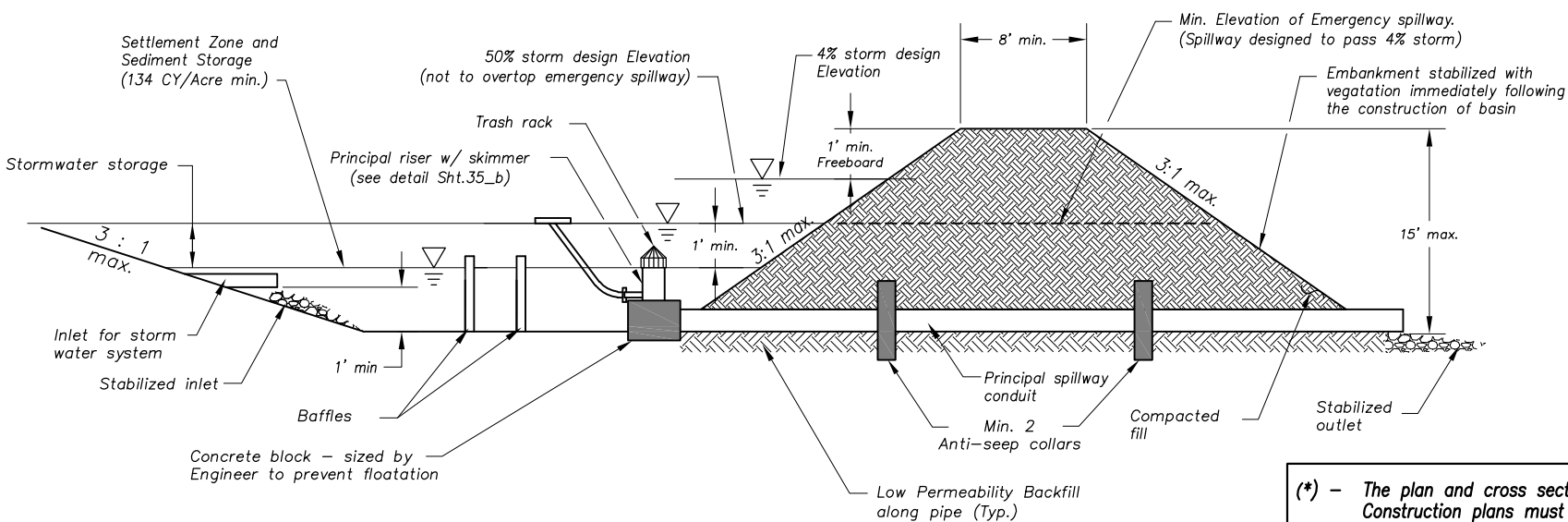


**Plan View (\*)**

Not to Scale



**Cross Section (\*)**

Not to Scale

(\*) - The plan and cross section are schematic in nature. Construction plans must provide specific site construction arrangements.

**Sediment Basin Design Summary (\*\*)**

| Design Item                       | Basin #1 | Basin #2 | Units  | Notes  |
|-----------------------------------|----------|----------|--------|--|
| <b>Site Data:</b>                 |          |          |        |  |
| Tributary Drainage Area to Pond   |          |          | Acres  |  |
| 50% (2 yr) Design Flow            |          |          | cfs    |  |
| 4% (25 yr) Design Flow            |          |          | cfs    |  |
| <b>Pond Data:</b>                 |          |          |        |  |
| Minimum Sediment Storage Volume   |          |          | cu yd  | 134 cy/acre required minimum   |
| Provided Sediment Storage Volume  |          |          | cu yd  |  |
| Bottom Elevation                  |          |          | Ft     |  |
| Sediment Cleanout Elevation       |          |          | Ft     | Elevation equal to 20% of original design volume   |
| Top of Riser Elevation            |          |          | Ft     | Top of dry storage volume  |
| Emergency Spillway Elevation      |          |          | Ft     | at or above Q-2 elevation. 1.0 ft min above principal spillway                                     |
| Top of Dam Elevation              |          |          | Ft     | 1.0 ft min above Q-25 elevation  |
| <b>Baffles:</b>                   |          |          |        |  |
| Type                              |          |          |        |  |
| Number                            |          |          |        |  |
| <b>Principal Spillway Data:</b>   |          |          |        |  |
| Riser Pipe dia                    |          |          | in     | 15" min. Size for 2 year flow minimum  |
| Barrel Pipe dia                   |          |          | in     | 15" min. Size for 2 year flow minimum  |
| Concrete Base size for Riser Pipe |          |          | CY     | Size to prevent flotation. 1.25 safety factor required   |
| Skimmer Size                      |          |          |        | Designer to provide specific details and calculations per application to dewater in 48 to 72 hours |
| <b>Emergency Spillway Data:</b>   |          |          |        |  |
| Design Depth in Spillway          |          |          | ft     |  |
| Design Velocity in Spillway       |          |          | ft/sec |  |
| Lining Material                   |          |          |        | Designer to provide specific details and calculations per application                              |

(\*\*) - Required on all Sediment Basin Plan Sheets

**Sediment Basin Notes:**

- Overland Park Municipal Code (OPMC) and Overland Park Design and Construction Standards Manual (OPDCSM) are incorporated, except as otherwise noted.
- A minimum of two interior baffles shall be provided to reduce short-circuiting of the basin. See Sht. 36\_b for approved baffle options.
- Emergency spillways to be located in a non-fill location when feasible and shall be lined with a non-erodible material such as Riprap or Turf Reinforcement Mat.
- When directed, sediment basins shall be fenced using construction fence or other material for safety reasons and include warning signs, reading: "Danger - KEEP OUT".

**Maintenance:**

Check temporary sediment basins after periods of significant runoff. Remove sediment and restore the basin to its original dimensions when sediment accumulates to 20% of the storage capacity. Immediately repair any erosion damage to the embankment and outlets. Repair and/or replace baffles as necessary to maintain function and integrity of installation. Keep outlet, skimmer and pool area free of all trash and other debris.

Year 2022 Edition

| REVISIONS:          |                                  |
|---------------------|----------------------------------|
| Feb. 2007           | Miscellaneous;                   |
| Jan. 2009           | Miscellaneous;                   |
| Feb. 2011           | Perforated Riser option removed; |
| Dec. 2011           | Maintenance Statement;           |
| RELATED ORDINANCES: |                                  |
| OPMC Title 15       |                                  |



DEPARTMENT OF PUBLIC WORKS  
STANDARD DETAILS

**TEMPORARY SEDIMENT BASIN**