

Plan View (*)
Not to Scale

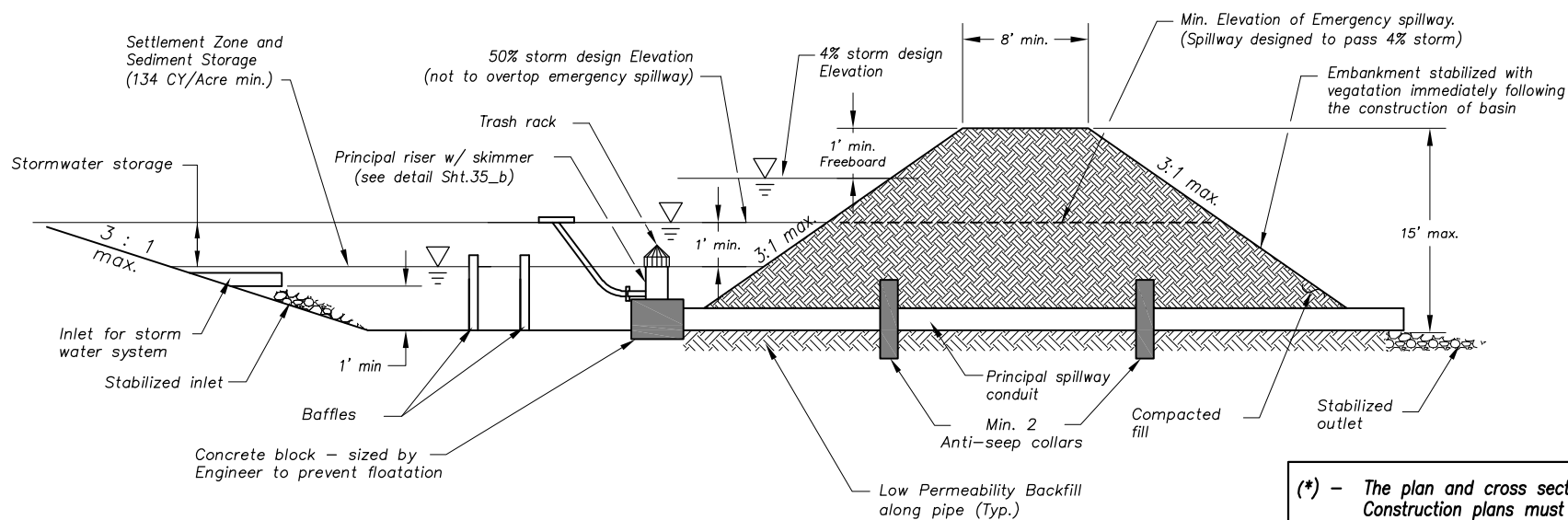
Sediment Basin Design Summary (**)				
Design Item	Basin #1	Basin #2	Units	Notes
Site Data:				
Tributary Drainage Area to Pond			Acres	
50% (2 yr) Design Flow			cfs	
4% (25 yr) Design Flow			cfs	
Pond Data:				
Minimum Sediment Storage Volume			cu yd	134 cy/acre required minimum
Provided Sediment Storage 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
Baffles:				
Type				
Number				
Principal Spillway Data:				
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
Emergency Spillway Data:				
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.



Cross Section (*)
Not to Scale

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

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

Year 2021 Edition

OVERLAND PARK
KANSAS
ABOVE AND BEYOND. BY DESIGN.

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS

TEMPORARY SEDIMENT BASIN