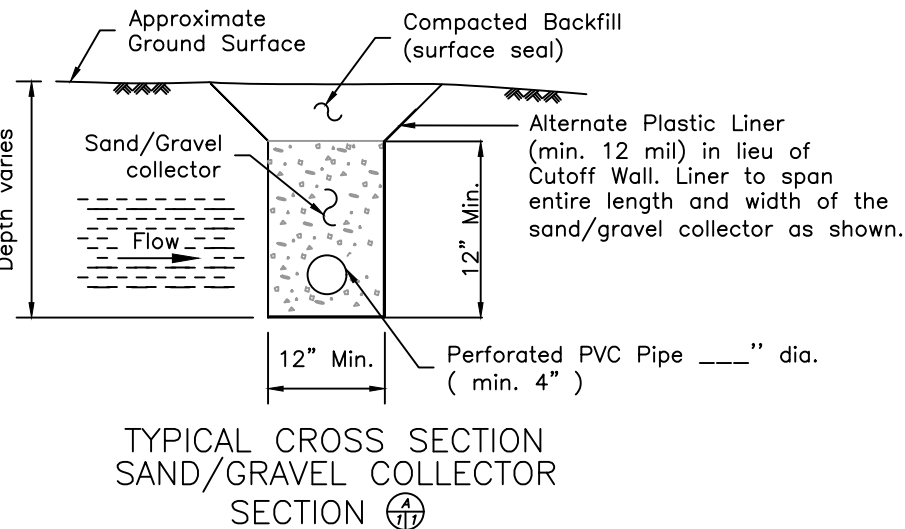
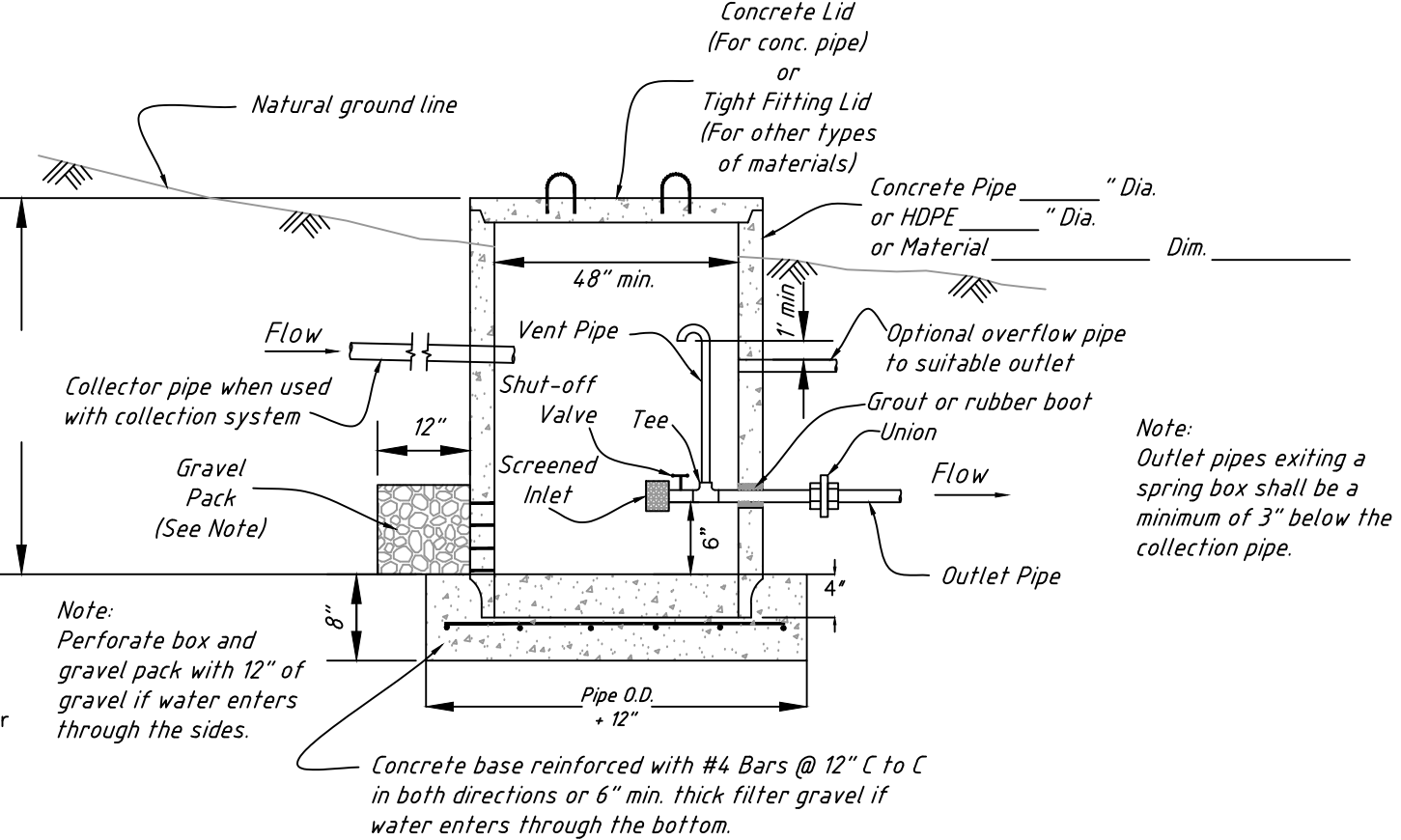
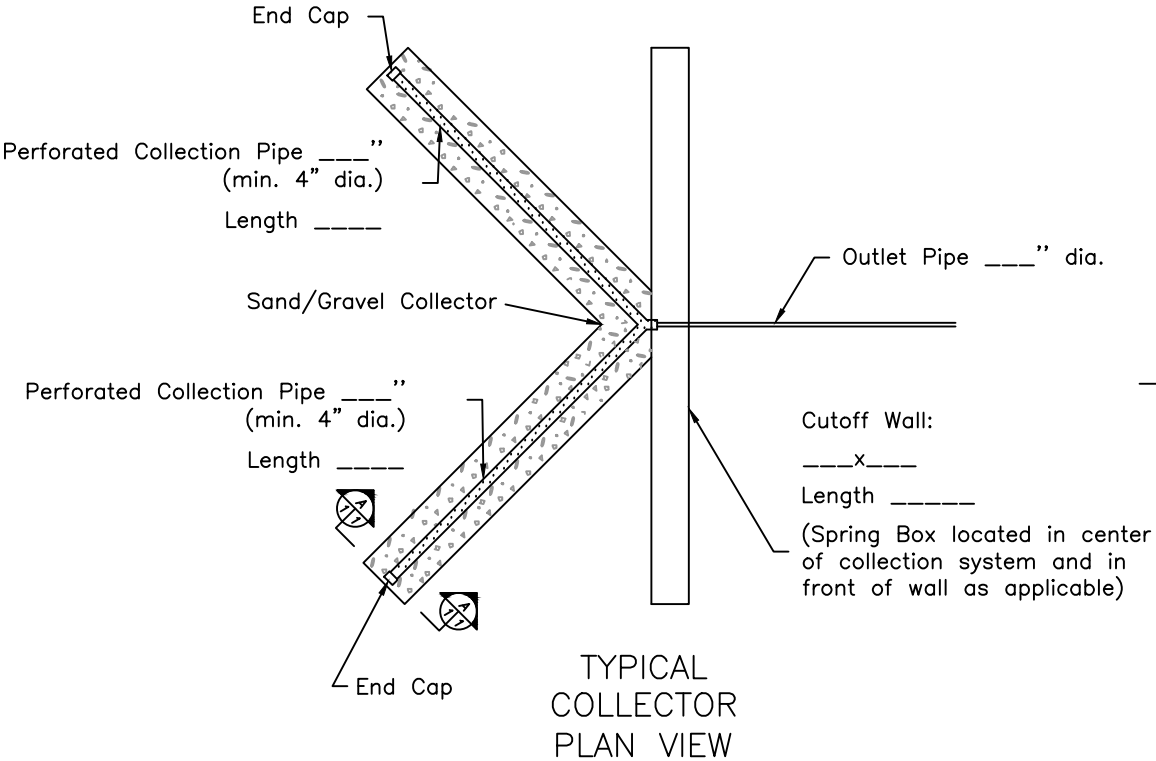




All Drawings Not To Scale

Alternate Collector Layout ____ to be used in lieu of Typical Collector shown. (See Page 2)

Notes:
Cutoff wall may be constructed of concrete, clay, masonry, plastic sheeting, or sheet pile. Material must be able to provide adequate anti-seep control to supply the collection system but shallow enough to allow passage of subsurface flows to any downstream wetlands.

A shut-off valve should be installed along the outlet. For collection pipe installed without a spring box, the shut-off valve should be installed at the intersection of the collection and solid outlet pipe.

Fill for the sand/gravel collector to meet requirements of ASTM C33 for Fine Aggregate unless otherwise specified.

Specific requirements for sand/gravel collector fill:

TABLE OF QUANTITIES				
Item	Material / Pipe Type	Dia. (in.)	Unit	Quantity
Spring Box			Ft.	
Concrete		-----	C.Y.	
Collection Pipe			Ft.	
Supply Pipe			Ft.	
Overflow Pipe			Ft.	
Outlet Pipe			Ft.	
Sand/Gravel Collector Fill		-----	C.Y.	
Cutoff Wall		-----	S.F. / C.Y.	

Date _____
Designed _____
Checked _____
Approved _____

SPRING DEVELOPMENT DETAILS AND LAYOUT

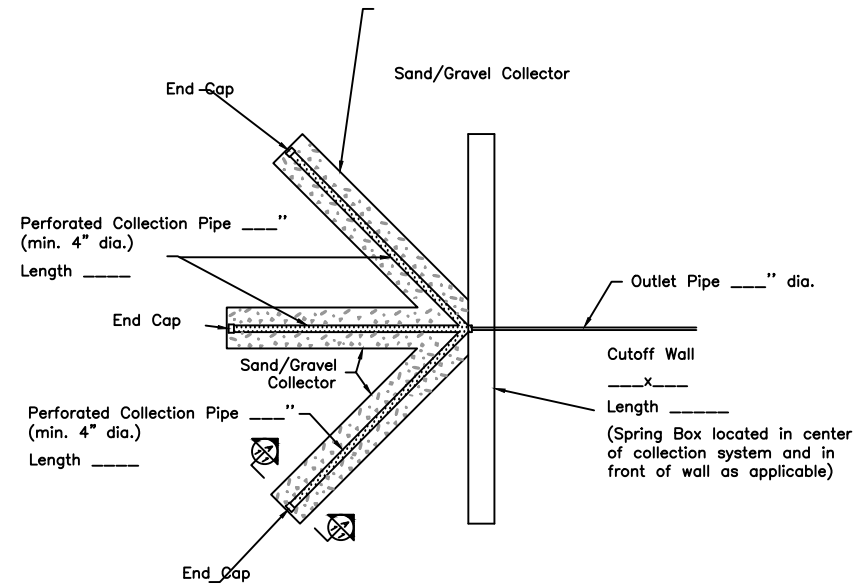
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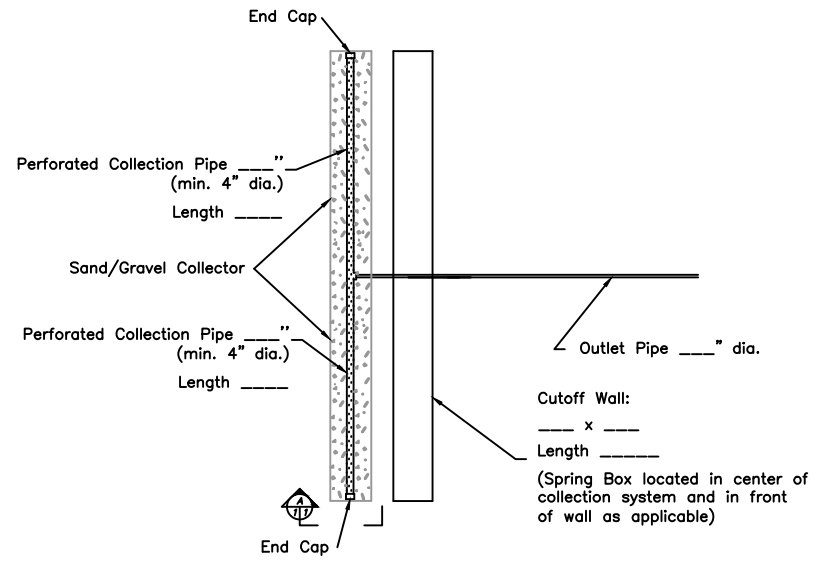
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ND-DWG-151a

Date _____

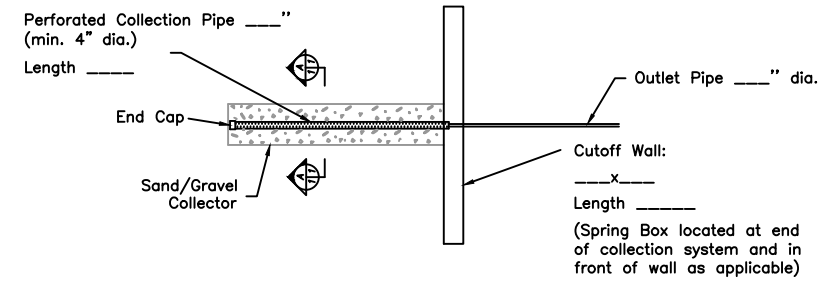
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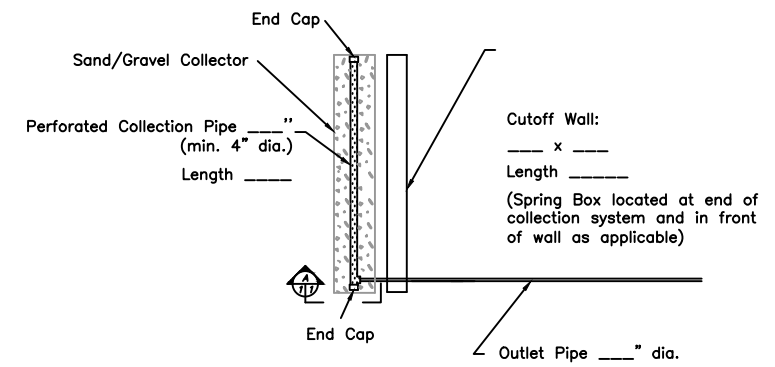
Alternate Collector Layout 1



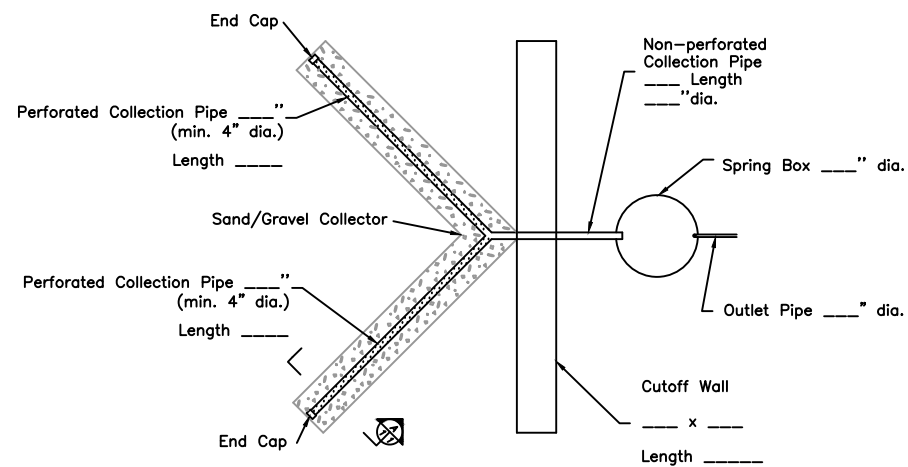
Alternate Collector Layout 3



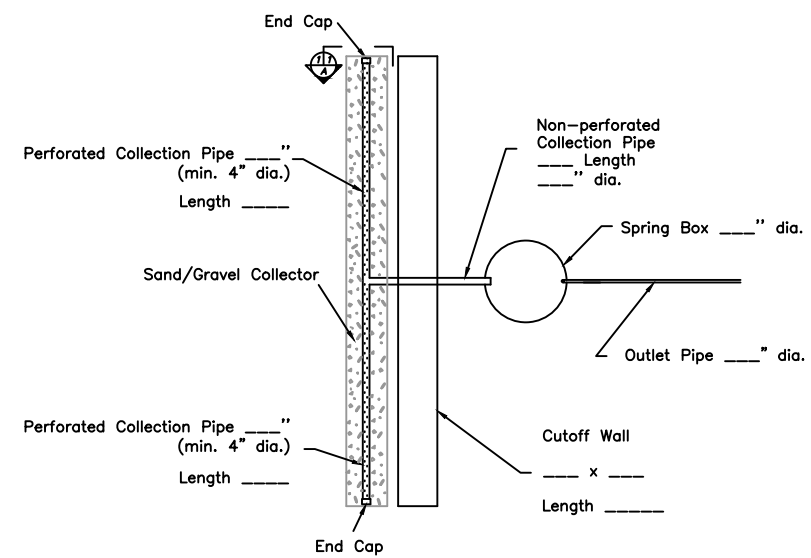
Alternate Collector Layout 5



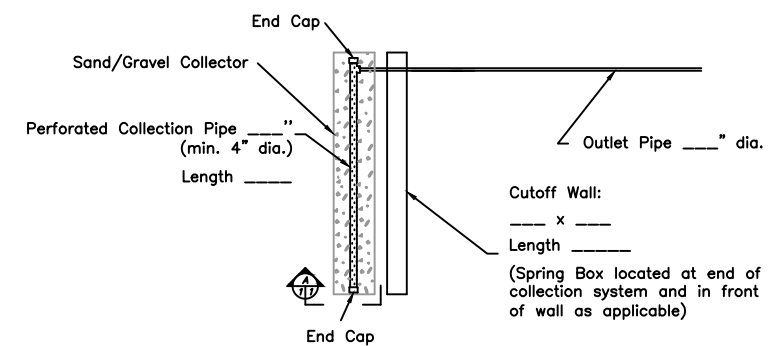
Alternate Collector Layout 6



Alternate Collector Layout 2



Alternate Collector Layout 4



Alternate Collector Layout 7

All Drawings Not to Scale

Alternate to be used: _____

Date _____

Designed _____

Checked _____

Approved _____

SPRING DEVELOPMENT ALTERNATE COLLECTOR LAYOUTS

OWNER: _____

COUNTY: _____



Drawing Number
ND-DWG-151b

Date _____

Sheet _____ of _____