

Post-Construction BMP Review Checklists

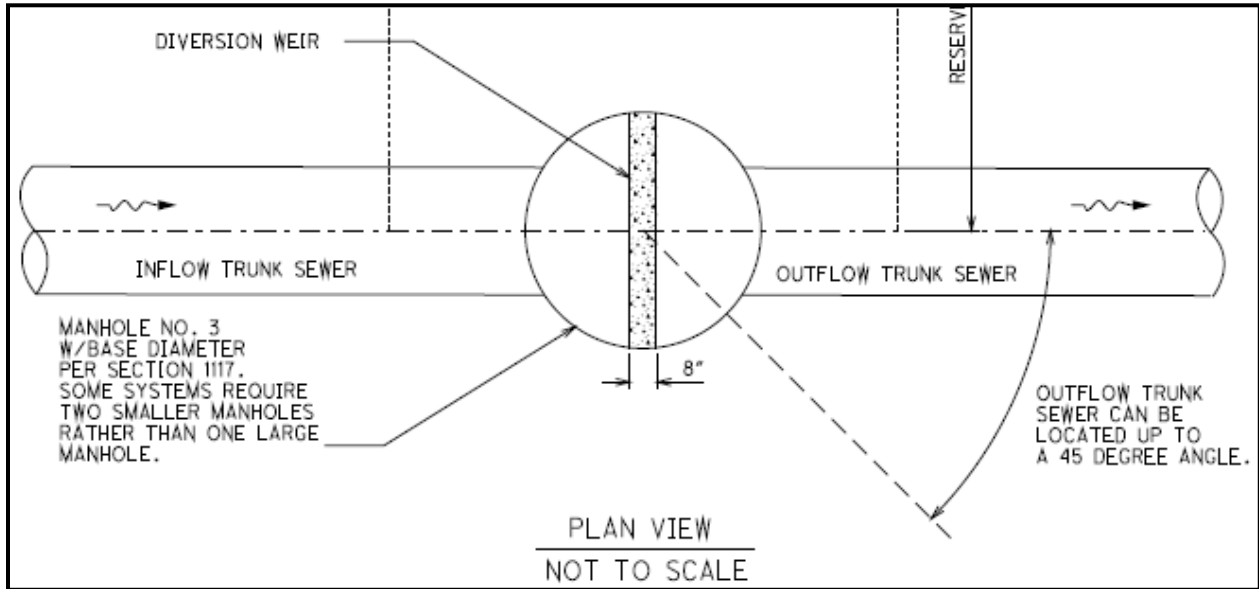
Project Wide Review Checklists for ODOT-Let Projects:

Figures	Figure Provided?	
Project Limits		Yes / No
Limits of Disturbed Area		Yes / No
BMP Locations on a Site Plan		Yes / No
Drainage Areas		Yes / No
BMP Tributary Area (within and outside R/W)		Yes / No
Waters of the State		Yes / No
Floodplains and Wetlands (if applicable)		Yes / No

Design Drawings	Figure Provided?	
Plan Sheets with BMP Locations		Yes / No
BMP Plan and Profiles		Yes / No
BMP Outlet Details		Yes / No
Storm Sewer Plan and Profiles		Yes / No

Values, Calculations, or Descriptions	Value	Units
Project Earth Disturbed Area (EDA)		ac
Existing Impervious Area (A _{ix})		ac
New Impervious Area in New Permanent R/W (A _{in})		ac
Treatment Percent		%
Treatment Requirements (Area)		ac
Quantity Treatment Required?		Yes / No
Treatment Provided by all BMPs (Area) (within R/W)		ac
Treatment Provided by BMP #1 (Area) (within R/W)		ac
Treatment Provided by BMP #2 (Area) (within R/W)		ac
Treatment Provided by BMP #3 (Area) (within R/W)		ac
Treatment Provided by BMP #4 (Area) (within R/W)		ac
Description of any Deviation from Treatment Requirements		

Manufactured System Review Checklist:



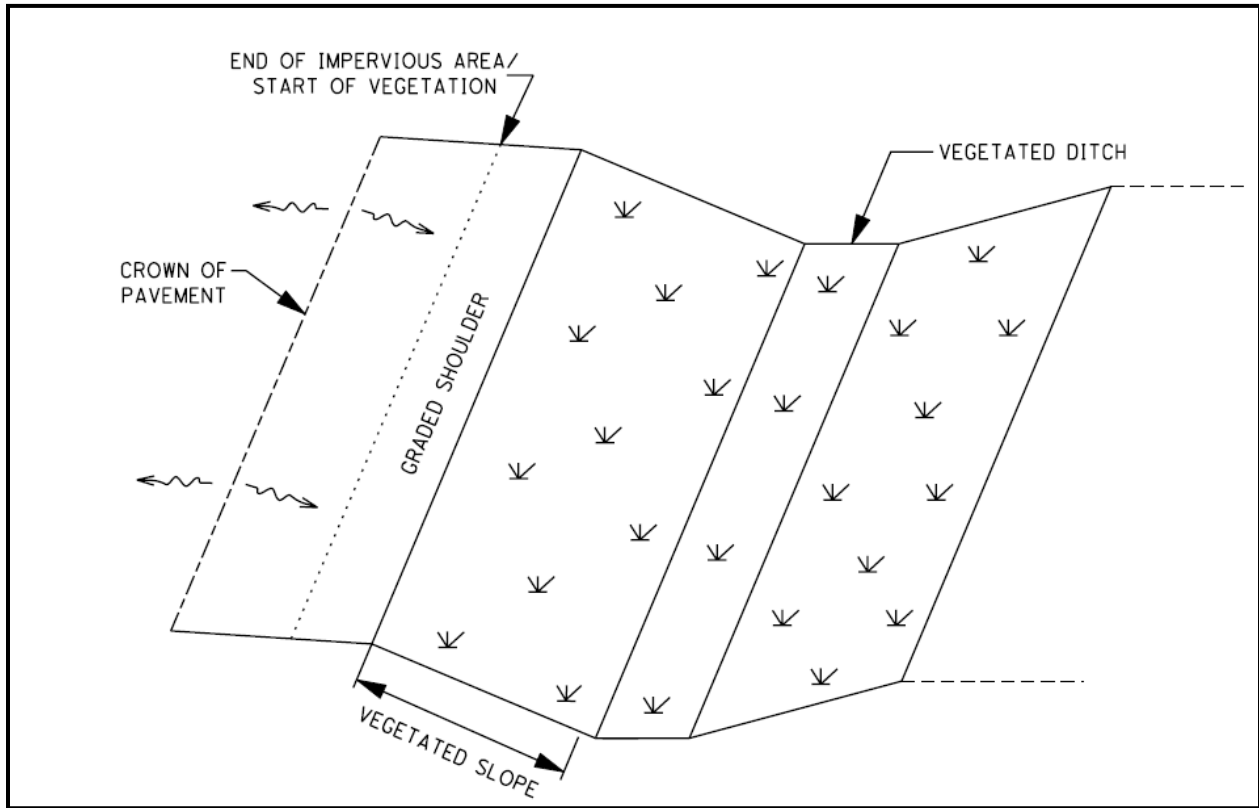
Manufactured System Review	Value	Units
BMP Tributary Area		ac
Area within R/W Draining to BMP		ac
Percent Impervious (for BMP Trib. Area)		%
Coefficient of Runoff (C)		NA
Time of Concentration (T_C)		minutes
Water Quality Flow (WQ_f)		cfs
Manufactured System Type		1,2,3, or 4
Unit Footprint (length, width, depth)		ft
Description of Maintenance Access		Yes / No

Vegetated Filter Strip Review Checklist:

Maximum Pavement Width (ft.)	Slope (H:V)	Filter Strip Width (ft. minimum)
22	3:1 and flatter	15
24	3:1 and flatter	17
26	3:1 and flatter	18.5
28	3:1 and flatter	20.5
30	3:1 and flatter	22
32	3:1 and flatter	24
34	3:1 and flatter	25
48	6:1 and flatter	25

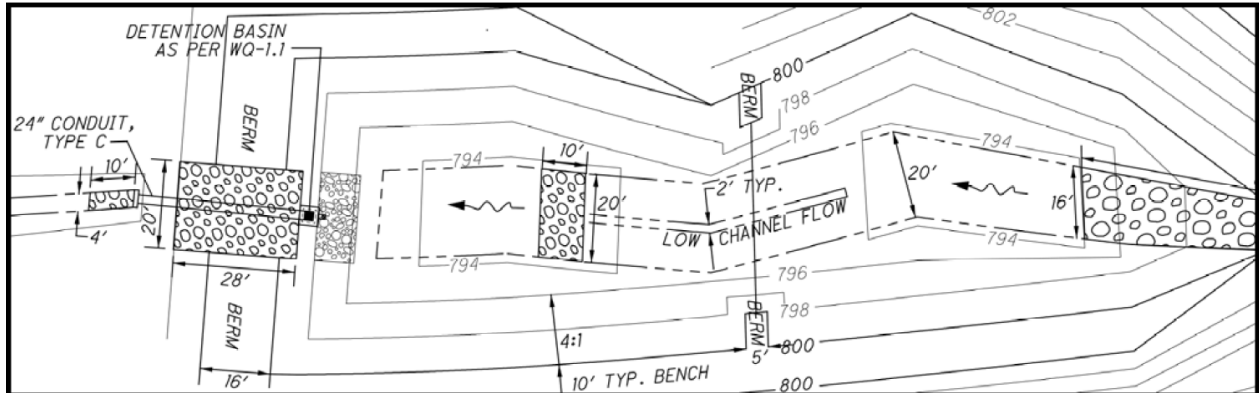
Vegetated Filter Strip Review	Value	Units
BMP Tributary Area		ac
Area within R/W Draining to BMP		ac
Width of Impervious Area Draining to Filter Strip		ft
Width of Vegetated Filter Strip		ft
Slope of Vegetated Filter Strip (Horizontal : Vertical)		ft:ft
Limits of Item 670, Slope Erosion Protection, Shown on the Plans?		Yes / No
Limits of Item 659, Topsoil, Shown on the Plans?		Yes / No

Vegetated Biofilter Review Checklist:



Vegetated Biofilter (Grass Swale) Review	Value	Units
BMP Tributary Area		ac
Area within R/W Draining to BMP		ac
Percent Impervious (for BMP Trib. Area)		%
Coefficient of Runoff (C)		NA
Water Quality Flow (WQ _F)		cfs
Channel Bottom Width		ft
Channel Fore Slope (Horizontal : Vertical) (Z:1)		ft:ft
Channel Back Slope (Horizontal : Vertical) (Z:1)		ft:ft
Longitudinal Channel Slope		ft:ft
Normal Depth of Flow during WQ _F		in
Velocity of Flow for during WQ _F		fps
Length of Vegetated Biofilter		ft
Design Storm Flow Rate		cfs
Scour Analysis and Scour Protection (if necessary)		Yes / No
Limits of Item 670, Slope Erosion Protection, Shown on the Plans?		Yes / No
Limits of Item 659, Topsoil, Shown on the Plans?		Yes / No

Extended Detention Basin Review Checklist:



Extended Detention Basin Review	Value	Units
BMP Tributary Area		ac
Area within R/W Draining to BMP		ac
Percent Impervious (for BMP Trib. Area)		%
Volumetric Runoff Coefficient (R_v)		NA
Water Quality Volume (WQ_v)		ac-ft
Detention Basin Stage/Storage Table or Graph		Yes / No
Description of All Detention Outlets		Yes / No
Calculations of WQ_v Drawdown time		Yes / No
Time to drain WQ_v		hrs
Time to drain 50% of WQ_v		hrs
WQ_v Drawdown Hydrograph		Yes / No
Summary Input and Output from any Software Used		Yes / No
Forebay Volume		ac-ft
Micropool Volume		ac-ft
Inflow and Discharge Design Velocities		fps
Description of any Inflow or Discharge Scour Protection		Yes / No
Overflow Structure Sizing Calculations		Yes / No
Description of Tailwater Assumptions		Yes / No
Detention Basin located outside the Floodplain?		Yes / No
Limits of Item 670, Slope Erosion Protection, Shown on the Plans?		Yes / No
Anti-Seep Collars shown on the Plans?		Yes / No
Maintenance (Vehicle) Access to Outlet Structure?		Yes / No
Have Safety Concerns been Considered / Addressed?		Yes / No

Bioretention Cell Review Checklist:

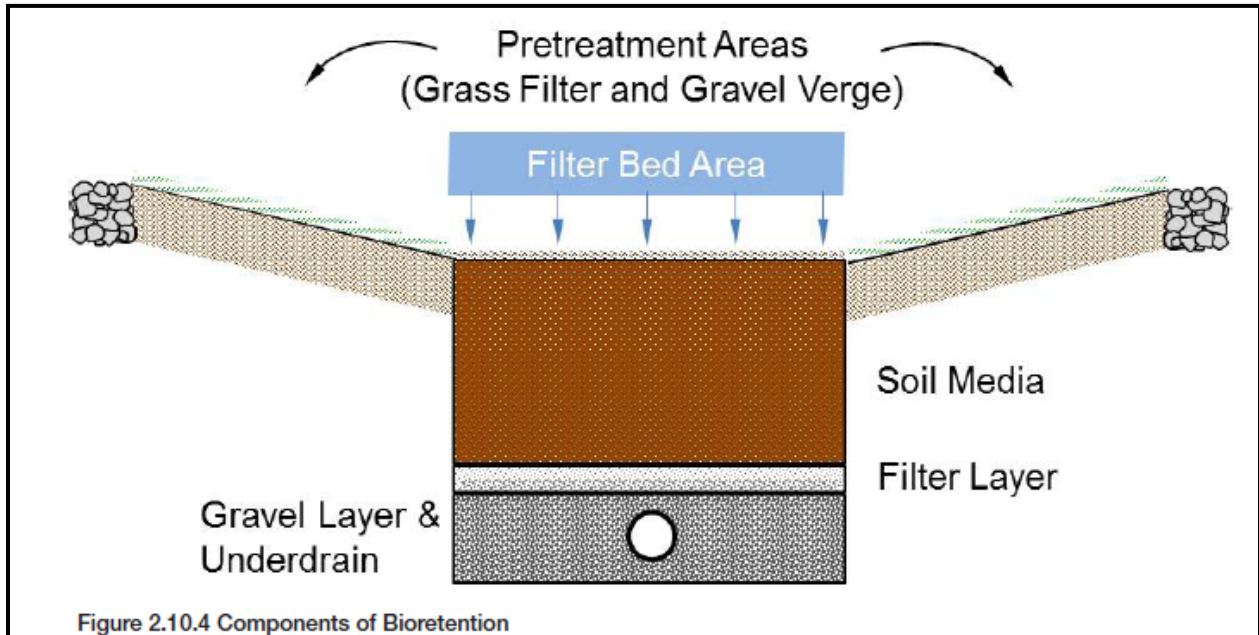


Figure 2.10.4 Components of Bioretention

Source: ODNR Rainwater and Land Development Manual

Bioretention Cell Review	Value	Units
BMP Tributary Area		ac
Area within R/W Draining to BMP		ac
Impervious area Tributary to BMP		ac
Bioretention Cell Area		ac
Surface Ponding Depth		ft
Side Slopes		ft:ft
Depth of Soil Media Layer		in
Depth of Filter Sand Layer		in
Depth of Filter Pea Gravel Layer		in
Depth of Gravel Drainage Layer		in
Underdrain shown in Drawing		Yes / No
Description of Pretreatment Provided		Yes / No
Inflow and Discharge Design Velocities		fps
Description of any Inflow or Discharge Scour Protection		Yes / No
Overflow Structure Sizing Calculations		Yes / No
Depth: Bottom of Cell to Seasonal High Water Table		ft
Depth: Bottom of Cell to Bedrock		ft
Maintenance (Vehicle) Access to BMP?		Yes / No

Post-Construction BMP Review Checklists

Project Wide Review Checklists for Local-Let Projects:

Review Questions	Input	
Is a Post-Construction BMP Required?		Yes / No
Is the Project EDA 1 or more acres		Yes / No
Is the project a routine maintenance project		Yes / No
Is Water Quantity Treatment Required?		Yes / No
Is more than 1 acre of new impervious area in new permanent right-of-way being added?		Yes / No
Is the project discharging directly to a 4 th order stream or a stream that has a drainage area greater than 100 square miles?		Yes / No
Is an Appropriate Post-Construction BMP Provided?		Yes / No