

# LANDSCAPE DRAIN INLET PROTECTION



## DESCRIPTION AND PURPOSE

- FOR LANDSCAPE DRAINS AT GRADE, LANDSCAPE DRAIN INLET PROTECTION (L-IP) CONSISTS OF BARRIERS INSTALLED AROUND OR OVER AN INLET TO CREATE PONDING AND SEDIMENT DEPOSITION OR FILTERING OF SEDIMENT PRIOR TO WATERS ENTERING A STORM DRAIN. BARRIERS CAN INCLUDE A COMBINATION OF ROCK SOCKS, GRAVEL BAGS, SEDIMENT CONTROL LOGS, SILT FENCE, GEOTEXTILE FABRIC, WATERTIGHT CAPS, AND OTHER MATERIALS APPROVED BY LOCAL JURISDICTIONS. **REFER TO SPECIFIC CONTROL MEASURE DETAILS FOR ADDITIONAL INSTALLATION AND MAINTENANCE NOTES.**
- PRIOR TO AREA INLETS BECOMING ACTIVE, PIPES WILL TYPICALLY BE LEFT ABOVE GRADE. FOR LANDSCAPE DRAINS ABOVE GRADE, STORMWATER SHOULD NOT BE ABLE TO ENTER THE INLETS DUE TO HEIGHT ABOVE GRADE. AS A RESULT, ADDITIONAL PROTECTIONS ARE NOT REQUIRED.

## SUITABLE APPLICATIONS

- ANY OPERATIONAL LANDSCAPE DRAIN OR DRAIN PIPE DOWN SLOPE OF A DISTURBANCE AREA TO ACCEPT FLOWS.

## LIMITATIONS

- INLET PROTECTIONS ARE OFTEN THE LAST BARRIER PRIOR TO RUNOFF ENTERING THE STORM SEWER, AND ARE NOT DESIGNED TO BE THE ONLY LINE OF DEFENSE. TO FUNCTION EFFECTIVELY, UPSTREAM TREATMENT IS RECOMMENDED.

## IMPLEMENTATION

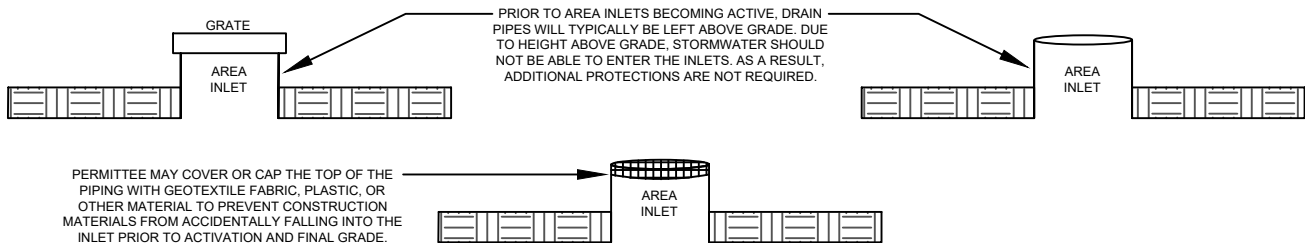
- WHEN POSSIBLE, IT IS RECOMMENDED TO LEAVE THE AREA DRAIN PIPE ABOVE GRADE. THE PERMITTEE MAY COVER OR CAP THE TOP OF THE PIPING WITH GEOTEXTILE FABRIC, PLASTIC, OR OTHER MATERIAL TO PREVENT CONSTRUCTION MATERIALS FROM ACCIDENTALLY FALLING INTO THE INLET PRIOR TO ACTIVATION AND FINAL GRADE.
- GEOTEXTILE FABRIC SHOULD BE INSTALLED ON TOP OF DRAIN GRATES TO PREVENT THE FABRIC FROM ACCIDENTALLY FALLING INTO THE DRAIN PIPE DURING MAINTENANCE.
- LANDSCAPE DRAIN INLET PROTECTION SHALL BE INSTALLED AS SOON AS POSSIBLE ONCE AT GRADE. IF A RAINFALL EVENT IS FORECAST, INSTALL LANDSCAPE DRAIN INLET PROTECTION PRIOR TO EVENT.

## INSPECTION AND MAINTENANCE

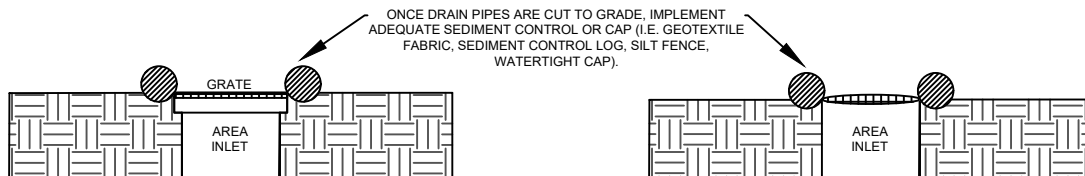
- INSPECT IN ACCORDANCE WITH LOCAL REGULATIONS AND SITE SWMP, TYPICALLY EVERY 7 OR 14 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT CAUSING SURFACE EROSION (72 HOURS IF THE SITE IS INACTIVE.)
- IT IS THE PERMITTEE'S RESPONSIBILITY TO ADJUST OR REMOVE INLET PROTECTIONS AS NECESSARY PRIOR TO LARGE RAIN EVENTS THAT MAY EXCEED THE NORMAL CAPACITY OF THE INLET PROTECTION TO PREVENT FLOODING AND POTENTIAL PROPERTY DAMAGE.
- ACCUMULATED SEDIMENT SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE CONTROL MEASURE.
- REPAIR OR REPLACE INLET PROTECTION IF GAPS OR TEARS ARE OBSERVED IN ROCK SOCK, GRAVEL BAG, GEOTEXTILE FABRIC, OR EQUIVALENT CONTROL MEASURE.
- IMPROPER INSTALLATION, OR DISPLACEMENT FROM LARGE STORM EVENTS ARE TO BE CORRECTED AS SOON AS POSSIBLE AFTER BEING OBSERVED.
- INLET PROTECTIONS ARE TO REMAIN IN PLACE UNTIL UPSTREAM AREAS ARE STABILIZED AND APPROVED BY LOCAL JURISDICTION.
- ANY DISTURBED AREAS OBSERVED AFTER OR DURING REMOVAL WILL REQUIRE IMPLEMENTATION OF STABILIZATION EFFORTS.

## INLET PROTECTION - ABOVE GRADE

(INLETS TIED INTO SYSTEM - NOT YET IN SERVICE)



## INLET PROTECTION - AT GRADE



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