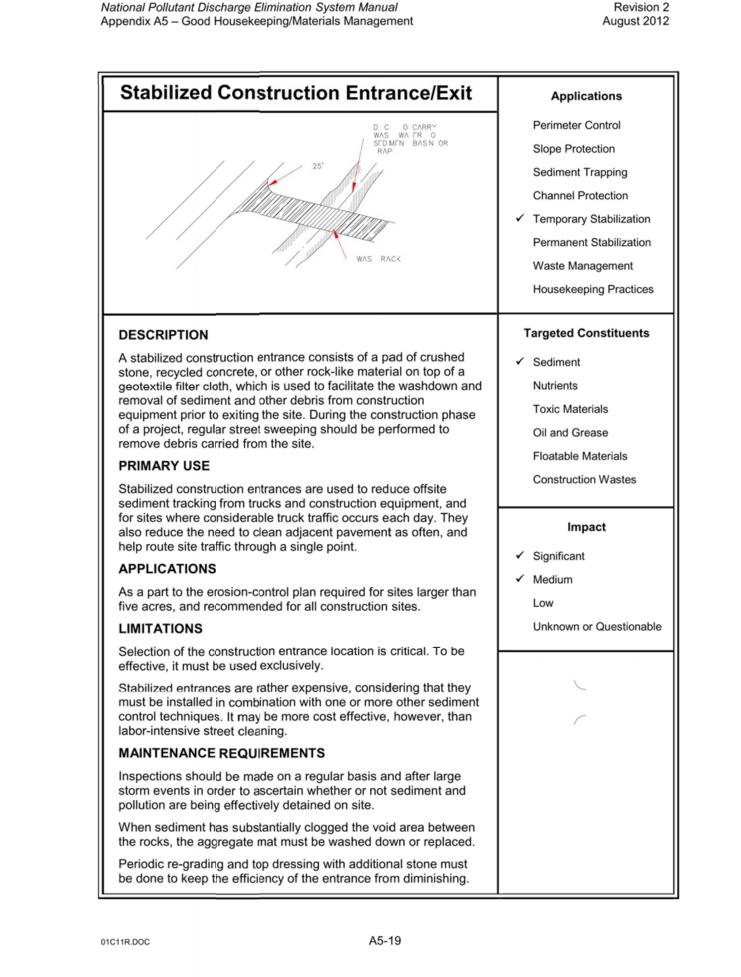
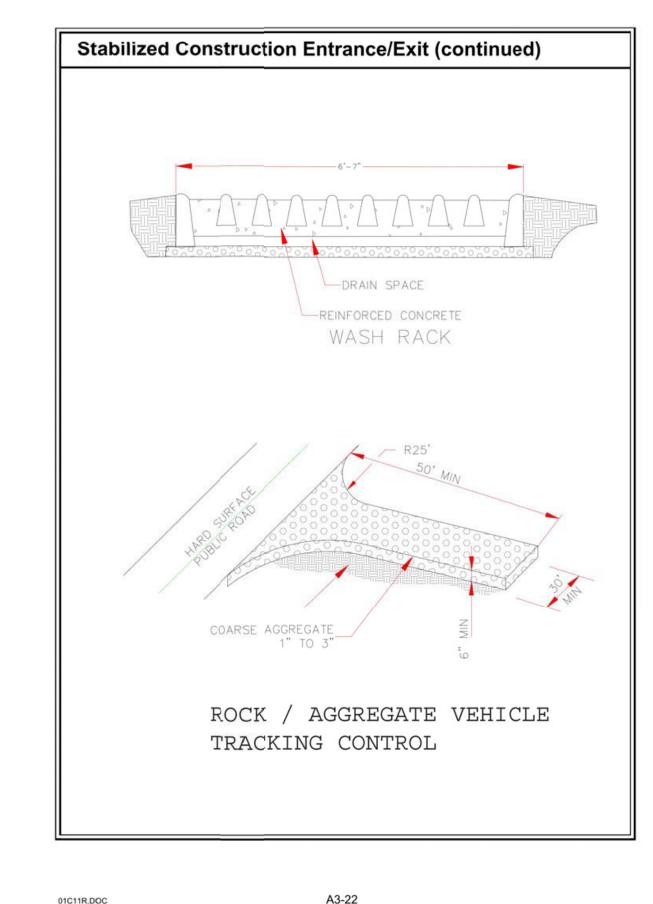


SWPPP Binder Insert - Curb Inlet Protection

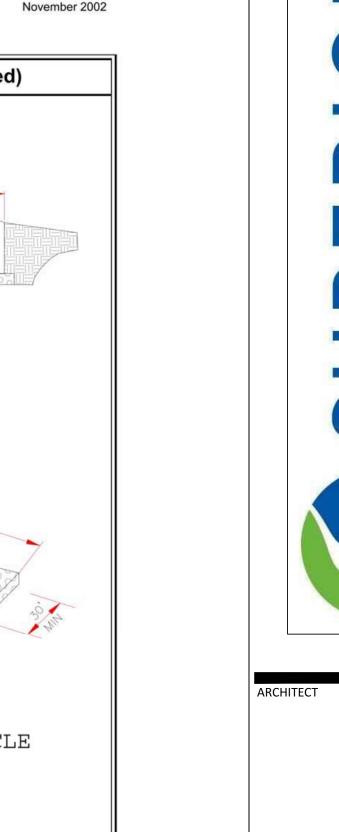
ERTEC Curb Inlet Guard<sup>™</sup>





National Pollutant Discharge Elimination System Manual

Appendix A3 – Housekeeping Practices



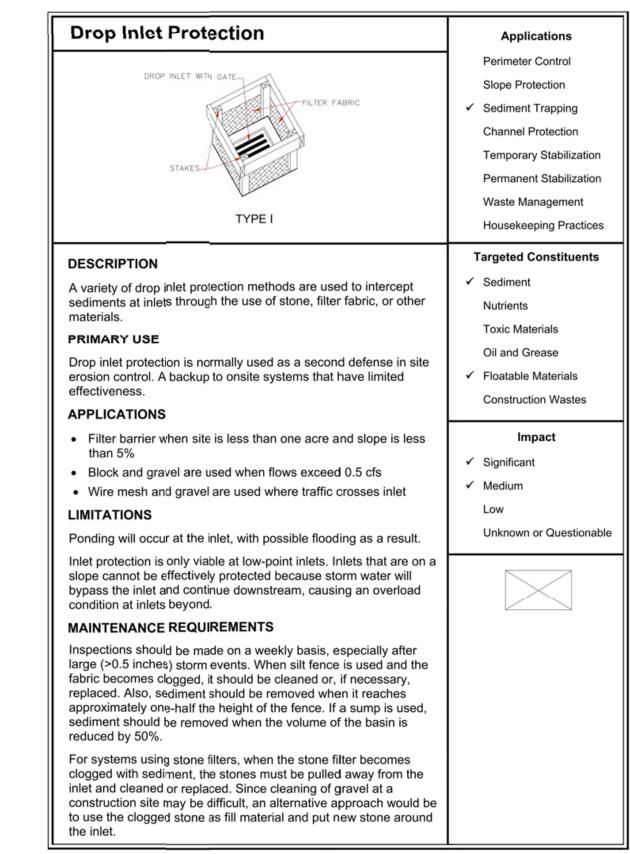
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DRAWN BY SLK REVIEWED BY MDT DATE : 6-1-16 PROJECT NO.

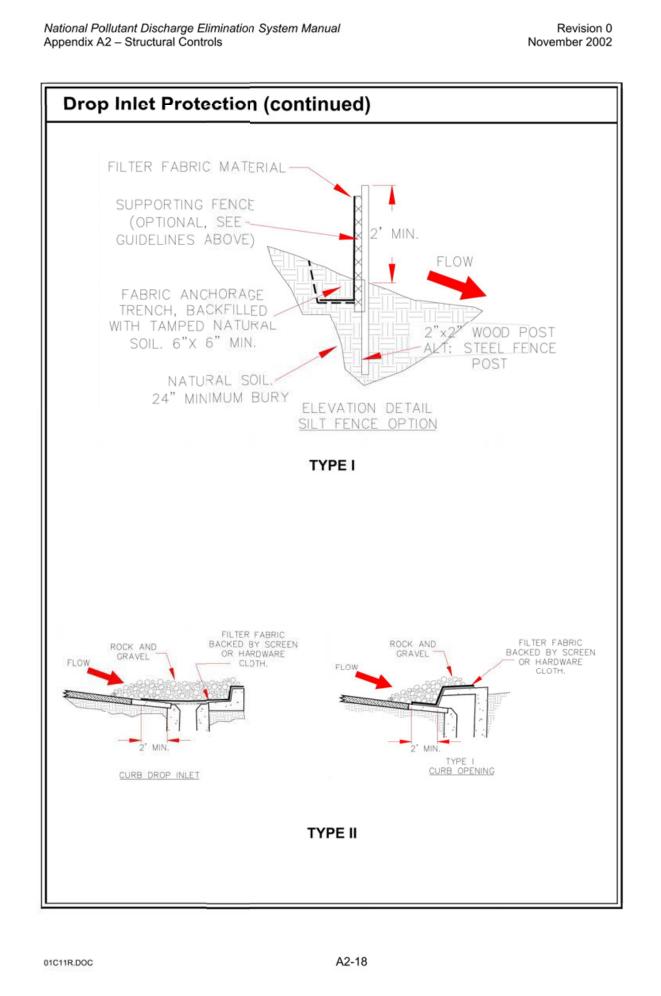
DRAWING NAME **EROSION AND** SEDIMENT CONTROL **DETAILS AND NOTES** 

**ESC 102** 



A2-17

01C11R.DOC



Gravel Bag Berm **Definition.** A gravel bag berm consists of a series of gravel-filled bags made of a woven polypropylene geotextile fabric abutted end to end to form a berm. Gravel bag berms can be used as a perimeter control and placed along the site perimeter to contain pollutants on site, they can be placed on the toe and face of slopes to intercept runoff and reduce flow velocity, and they can also be used around temporary stockpiles. **Purpose.** As a perimeter control, the gravel bag berm is used to intercept sediment-laden stormwater and prevent the sediment and associated pollutants from entering the street and the stormwater system. Conditions Where the Practice Applies. As a perimeter control, gravel bag berms can be used anywhere along the site perimeter, even on impermeable surfaces. All new and existing roadways, curbs, and gutters must be protected from sediment-laden runoff, are considered as perimeters of the site, and will need perimeter controls installed. Specifications: Design and Installation Gravel Bags • Bags shall be woven polypropylene, polyethylene, or polyamide fabric. Minimum unit weight of 8 ounces per square yard. • Burst strength exceeding 200 lbs in conformance with ASTM designation D4632. • Ultraviolet stability exceeding 70% in conformance with ASTM designation • Each gravel-filled bag shall have a length of 24-32 inches, width of 16-20 inches, and mass of approximately 30-50 lbs. • Fill material shall be between 3/8 and 1 inch in diameter. • Fill material shall be free from clay balls, organic matter, sand or silt, and other deleterious material. Installation Requirements. • Install along a level contour. • Clear bedding area of obstructions one inch in diameter or larger. Place in single layer with ends abutted tightly and not overlapped. • Use in conjunction with temporary soil stabilization. Maintenance & Inspection. • Inspect BMPs prior to forecast rain, daily during extended rain events, after rain events, and weekly throughout the life of the Project. • Gravel bags exposed to sunlight will need to be replaced every two to three months due to degradation of the bags. Reshape or replace gravel bags as needed. • Repair washouts or other damage as needed. Split or torn gravel bags must be repaired, if possible, or replaced. • Inspect gravel bag berms for sediment accumulation. Sediment that accumulates in the BMP must be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when the sediment accumulation reaches one-third of the barrier height. Sediment removed during maintenance must be disposed of in a proper place that will not allow contamination of the stormwater system.

• Properly dispose of gravel bags that have been damaged or are no longer needed

and cannot be reused.

**Temporary Sediment Control** 

## EROSION CONTROL/ENVIRONMENTAL PROTECTION/STORM WATER POLLUTION PREVENTION PLAN

WATER AND WASTEWATER GENERAL NOTES 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING ALL NECESSARY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, OBTAINING AN NPDES PERMIT PRIOR TO CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, AND FILLING OUT THE NOTICE OF TERMINATION (NOT) APPLICATION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION OF AND INSPECTION REPORTS FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL SUBMIT THE SWPPP WITH THE PROPOSED CONSTRUCTION STAGING AREA AND TEMPORARY SANITARY FACILITIES CLEARLY SHOWN. ANY CHECK DAMS, SILT FENCES, OR OTHER BEST MANAGEMENT PRACTICES (BMPS) THAT ARE REQUIRED IN THE APPROVED SWPPP SHALL BE INCLUDED IN AND ARE INCIDENTAL TO THE SWPPP BID AMOUNT.

2. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES, AND SHALL COMPLY WITH THE REQUIREMENTS INDICATED ON THAT PLAN. 3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY

DUST OR EROSION CONTROL PERMITS FROM THE REGULATORY AGENCIES.

6. THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR PERMANENT DIRT SWALES BY INSTALLING BMPS IDENTIFIED IN THE APPROVED SWPPP IN THE SWALES PERPENDICULAR TO THE

5. THE CONTRACTOR SHALL IMPLEMENT THE APPROVED SWPPP AND ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.

DIRECTION OF FLOW, AND AT INTERVALS AS SPECIFIED IN THE SWPPP. 7. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE

MADE THEREFOR.

8. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. WHE CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, STABILIZATION MEASURES MUST BE INITIATED. UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN, NATIVE GRASS SEEDING SHALL BE SEEDING PER SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHARTER,

9. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL. GAS. TIRES. ETC.) GARBAGE. GRUBBING. EXCESS CUT MATERIAL. VEGETATIVE DEBRIS. ETC. SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED TO HAUL OR DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE

ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINTS, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT

505-827-9329. 11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN **ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.** 

12. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION. 13. WHERE STORM INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM CONSTRUCTION ACTIVITIES, PROTECTION SHALL BE PROVIDED ON THEIR UPSTREAM SIDE UTILIZING BMPS IDENTIFIED IN THE APPROVED SWPPP.