

EROSION CONTROL AND STORMWATER MANAGEMENT PLAN FOR FALCON AREA WATER AND WASTEWATER AUTHORITY (FAWWA) WATER TREATMENT PLANT

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Job No. 1307.00

Qualified Stormwater Manager:

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EROSION & STORMWATER QUALITY CONTROL PLAN FOR FALCON WATER AND WASTEWATER AUTHORITY WATER TREATMENT PLANT

COLORADO DISCHARGE PERMIT SYSTEM STATEMENT (CDPS)/ EROSION AND STORMWATER QUALITY CONTROL PLAN (ESQCP)

Site Inspector

The following Erosion and Stormwater Quality Control Plan (ESQCP) is a detailed account of the requirements of the El Paso County Drainage Criteria Manual, Volume 2 – Stormwater Quality Policies, Procedures and Best Management Practices. The main objective of this plan is to help mitigate the increased soil erosion and subsequent deposition of sediment off-site and other potential stormwater quality impacts during the period of construction from start of earth disturbance until final landscaping and other potential permanent stormwater quality measures are effectively in place.

This document must be kept at the construction site at all times and be made available to the public and any representative of the Colorado Department of Health - Water Quality Control Division, if requested.

This report is also proposed to meet all requirements of the Colorado Discharge Permit System for Construction Activity. If any discrepancies between this report and Volume 2 exist, the El Paso County Manual will prevail.



EROSION & STORMWATER QUALITY CONTROL PLAN FOR FALCON WATER AND WASTEWATER AUTHORITY WATER TREATMENT PLANT TABLE OF CONTENTS

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APPENDIX

VICINITY MAP SOILS REPORT COPY OF GENERAL PERMIT APPLICATION SYSTEM (CDPS) CHECKLIST OPERATION & MAINTENANCE INSPECTION RECORD STANDARD BMP DETAILS w/ INSTALLATION & MAINTENANCE REQUIREMENTS SITE MAP / EROSION AND STORMWATER QUALITY CONTROL PLAN



SITE DESCRIPTION

The proposed Falcon Area Water and Wastewater Authority Water Treatment Plant development is located in portion of Section 27, Township 12 South, Range 65 west of the 6th p.m. in El Paso County, Colorado. The site is located on the south side of Arroya Lane east of Vollmer Road. The site is bounded on the north by Arroya Lane, to the south and east by future Sterling Ranch East residential development, and to the west by the existing Sterling Ranch Metro District Water Facility (existing tank) per easement reception No. 216043585.

No wetlands, springs, landscape irrigation return flows or construction dewatering is anticipated within the disturbance limits of this site. Should any of the above items occur unexpectedly, BMPs shall be implemented immediately. The local regulatory agency shall be notified for approval of the BMPs and methods.

• **RECEIVING WATERS**

Name of Receiving Water(s)	Sand Creek
Size/Type/Location of Outfall(s)	Surface runoff to south along historical path
Discuss discharge connection to Municipal system (include system name, location, and ultimate receiving water(s):	Site runoff to be conveyed overland and via Proposed storm sewer facilities then ultimately discharged into Fountain Creek (via Sand Creek)

• PROPOSED CONSTRUCTION ACTIVITY

Proposed construction activities within this project include minor detailed grading, a proposed access drive and utility facility installation. No storage of building materials, soils or wastes is anticipated with the proposed site grading.

• PROPOSED SEQUENCE OF ACTIVITY/CONSTRUCTION TIMING

Proposed construction activities within this project include detailed grading and utility/drive aisle construction for the proposed water treatment facility. Sequence of activities will be based upon site contractor timing and scheduling. The contractor is to include sequence of activities schedule in the section provided in the Appendix of this report.

A standard sequence of events typically includes the following, as applicable:

Install perimeter, interior and exterior BMPs.



(Immediately upon plan approval/permitting – Spring 2023) – INITIAL PHASE

1) Clear and grub site for proposed installation.

(After installation of perimeter BMPs – Spring 2023) – INITIAL PHASE

- Excavation & installation of utility facility infrastructure.
 (Spring/Summer 2023) INTERIM PHASE
- Gravel drive aisle and parking area installation. Installation and maintenance of BMP's.
 (Summer 2023) INTERIM PHASE
- 4) Water Treatment Facility construction. (Fall 2023 Spring 2024) FINAL PHASE

The anticipated start and completion time period for site grading operations is to start in Spring 2023 with final site stabilization by Spring 2024. This time schedule could vary depending on weather and construction schedules.

EROSION AND SEDIMENT CONTROL

Erosion control measures shall be implemented in a manner that will protect properties and public facilities from the adverse effects of erosion and sedimentation as a result of construction and earthwork activities. In order to prevent a net increase of sediment load, Best Management Practices will be implemented during the construction life of this project. A silt fence will be installed per the approved grading and erosion control plan in order to protect undisturbed areas. All roads will be inspected to ensure that sediment from on-site construction activity is not being discharged with the stormwater. Existing roadways shall be swept as needed for controlling tracking of mud onto public roadways. Vehicle tracking control pads will aid in minimizing soil tracking onto existing roadways. All disturbed areas, not sodded, will be reseeded with a native seed mix and watered until a mature stand is established. All areas disturbed will be protected with silt fence, diversion swales and temporary sediment traps (as needed basis only) until such time as the site has been re-vegetated. Vegetated buffers shall be maintained free from vehicle/equipment parking, storage, stockpiles, or other impacts.



DEVELOPMENT AREA/ AREAS AND VOLUME STATEMENT

Total Platted Site Area	<u>3.15 Acres</u>
Site area to be disturbed	0.94 Acres
Percent disturbance	%

The total volume of earthwork cut/fill operations is less than 500 CY.

SOILS INFORMATION

This percentage does not seem to match the disturbance/total area. Update accordingly.

The average soil condition reflects Hydrologic Group "B" (Pring Coarse Sandy Loam), as determined by the "Soil Survey of El Paso County Area," prepared by the Soil Conservation Service. Based upon the current proposed development of this site, the following runoff coefficients would be realized:

SWMP Checklist Item 8. Include soil erosion potential and impacts on discharge.

Existing site runoff coefficient =	=0.35	
Developed site runoff coefficient	= 0.47 (landscape /gravel/ seeded	
	<u>areas)</u>	
	= 0.90 (Building area)	

EXISTING SITE CONDITIONS

The site is located within the Sand Creek Drainage Basin. Stormwater drains to the southwest across this site and is conveyed within Sand Creek to the southwest. The site was previously graded and all disturbance areas were previously stripped of vegetation. This Grading Plan and SWMP report is being completed for the detailed grading, drive aisle, and utility construction.

SWMP Checklist Item 16. Please add a note about any stream crossings or add a statement that no streams cross the project area.

This site is currently 0% vegetated and has existing slopes ranging from approximately <u>1% to 10%</u> percent. The site was previously disturbed as mentioned, and based upon visual observation in the field, all recently previously disturbed areas are not re-vegetated at this time. Prior to the recent grading operations the site was 100% vegetated with native grasses.

There are no areas designated as wetlands within the grading development limits for this report. No known non-stormwater discharge (i.e., ground water, springs, irrigation, etc.) are known to exist on this site.



SITE MAP

Included in the appendix of this report is the overlot grading plan for the subject property which will serve as the SWMP site map. This document contains site specific grading and erosion control BMP measures as required and approved by the El Paso County Engineering division. Limits of disturbance, areas of cuts/fills, proposed stockpile areas, areas used for storage of materials, equipment, soil, or waste, minimum and maximum cut/fill slopes, existing limits of significant vegetation, locations of springs, streams, and/or wetlands, and existing facilities (including but not limited to: detention/drainage facilities, structures, retaining walls, gas main, water main, wastewater main, electric and telecom vaults, fences, sidewalks, trails, curbs and streets) will be represented on this plan as applicable. The site map will depict locations of specific interim stormwater management BMPs throughout the lifetime of the project. Erosion control cost assurances must be posted to El Paso County in the amount listed in the Financial Assurance Estimate of the overlot grading plan prior to grading activity. The site map/overlot grading plan shall be amended to include any additional interim or phased BMPs over and above measures included on the site map, as required by contractor's construction schedule. All construction BMP details will be included in the appendix of this report. Detail sheets include installation and maintenance requirements. Also, reference "Drainage Criteria Manual, Volume 2 Stormwater Quality Policies, Procedure, and Best Management Practices" for additional information and guidance regarding construction BMPs.

STORMWATER MANAGEMENT

• SWMP ADMINISTRATOR

The SWMP Administrator can be an individual(s), position, or title – this entity is responsible for developing, implementing, maintaining, and revising the SWMP. The Administrator is the contact for all SWMP related issues and is the entity responsible for its accuracy, completeness, and implementation. Therefore, the SWMP Administrator should be a person with authority to adequately manage and direct day to day stormwater quality management activities on the subject site. Reference the Appendix of this report for the SWMP permit application which names the individual/entity applying for the permit and naming the Administrator of the SWMP. The Qualified Stormwater Manager will be sufficiently qualified for the required duties per the ECM appendix 1.5.



• POTENTIAL POLLUTANT SOURCES

Potential pollutant sources which shall be evaluated for potential to contribute pollutants to stormwater discharge from the subject site may include the following:

- Disturbed and stored soils
- Vehicle tracking of sediments
- Management of contaminated soils
- Loading and unloading operations
- Outdoor storage activities (building materials, fertilizers, chemicals, etc.)
- o Vehicle and equipment maintenance and fueling
- Significant dust or particulate generating processes
- Routine maintenance activities involving fertilizers, pesticides, detergents, fuels, solvents, oils, etc.
- On-site waste management practices (waste piles, liquid wastes, dumpsters)
- Concrete truck/equipment washing, including the concrete truck chute associated fixtures and equipment
- Dedicated asphalt and concrete batch plans (not applicable and will not be used on this site)
- Non-industrial waste sources such as worker trash and portable toilets
- o Other areas or procedures where potential spills can occur

The location and description of these areas are shown on the attached SWMP Site Map, as applicable.

BMP'S FOR POLLUTANT PREVENTION

The following are common practices to mitigate potential pollutants:

- Wind erosion shall be controlled by sprinkling site roadways and/or temporary stabilizing stockpiles. Each dump truck hauling material from the site will be required to be covered with a tarpaulin.
- Sanitary facilities shall be placed at a minimum of 10' from any curb line and 50' from any inlet. If not feasible for the project, use of a secondary containment shall be implemented. They will be secured at all four corners to prevent overturning and cleaned on a weekly basis. They will be inspected daily for spills.



- Equipment fueling and Maintenance Services a designated fueling area will be established to contain any spill resulting from fueling, maintenance, or repair of equipment. Contractors will be responsible for containment, cleanup, and disposal of any leak or spill and any costs associated with the cleanup and disposal.
- Chemical products shall be protected from precipitation, free from ground contact, and stored properly to prevent damage from equipment or vehicles.
- Material stockpiles (soils, soil amendments, debris/trash piles) All construction trash and debris will be deposited in the dumpster.
- Sediment and Migration of Sediment Sweeping operations will take place as needed to keep roadways maintained (both on-site and adjacent streets). Street sweeping (non-structural control measure will take place throughout the site and community). The perimeter of the site will be evaluated for any potential impact resulting from trucking operations or sediment migration from the site. BMP devices will be placed to protect storm system inlets should any roadway tracking or sediment migration occur.
- Snow removal and/or stockpiling will be considered prior to placement at the site. Snow stockpiles must be kept away from any stormwater conveyance system (i.e., inlets, ponds, outfall locations, roadway surfaces, etc.).
- The Project does not rely on any BMP's owned or operated by another entity.

BMP SELECTION

Selection of the appropriate BMP will limit the source of the pollutant. Guidance for the selection process can be found by referencing the El Paso County "Drainage Criteria Manual Volume 2".

During grading and construction activity for the subject site, silt fence will be installed along the perimeter of the site as well as at the limits of grading within the project. Check dams will be installed along all permanent and temporary diversion swales to minimize erosion in areas of concentrated stormwater. Temporary diversion swales will be installed to a minimum of 1% slope to divert stormwater to several proposed sediment basins intended to collect stormwater and filter the sediment before conveyance into the proposed storm systems. Inlet protection will be installed at all proposed and adjacent inlets to ensure no downstream pollutants will enter storm sewer facilities. Vehicle tracking control pads will be installed at all access points to the property. Regular



maintenance and inspection of these facilities will be necessary throughout grading operations and until vegetation is reestablished to ensure proper function of the sediment basin temporary outlet structures.

MATERIAL HANDLING & SPILL PREVENTION

Where materials can impact stormwater runoff, existing and planned practices that reduce the potential for pollution must be included in a spill prevention plan, to be provided by the contractor. Spill prevention plans shall include

- o Notification procedures to be used in the event of an accident
- o Instruction for clean-up procedures, and identification of a spill kit location
- Provisions for absorbents to be made available for use in fuel areas, and for containers to be available for used absorbents
- Procedures for properly washing out concrete truck chutes and other equipment in a manner and location so that the materials and wash water cannot discharge from the site and never into a storm sewer system or stream.

• CONCRETE/ASPHALT BATCH PLANTS

Where applicable, the SWMP must be amended by the contractor to describe and locate on the Site Map all practices used to control stormwater pollution from dedicated asphalt or concrete batch plants. No concrete or asphalt placement is anticipated with this grading effort.

WASTE MANAGEMENT AND DISPOSAL INCLUDING CONCRETE WASHOUT

Where applicable, the SWMP must be amended by the contractor to describe and locate on the Site Map all practices implemented at the site to control stormwater pollution from all construction site wastes (liquid and solid) including concrete washout activities. Waste disposal bins will be checked for leaks and overflowing capacity during each overall site inspection, and they will be emptied when refuse is within six inches from the top of the bin or more frequently.

• DOCUMENTING SELECTED BMPS

As discussed in the SITE MAP section of this report, documentation of the selected BMPs will be included on the site map / overlot grading plan included in this report. The site map/overlot grading



Page 10

plan shall be amended to include any additional interim or phased BMPs over and above measures included on the site map, as required by contractor's construction schedule.

NON-STORMWATER DISCHARGES

Except for emergency firefighting activities, landscape irrigation return flow, uncontaminated springs, construction dewatering and concrete washout water, the SWMP permit covers only discharges composed entirely of stormwater.

• STORMWATER DEWATERING

The discharge of pumped water, ONLY from excavations, ponds, depressions, etc., to surface waters or to a municipal separate storm-sewer system is allowed by the Stormwater Construction Permit as long as the dewatering activity and associated BMPs are identified in the SWMP (including location of activity), and the BMPs are implemented in accordance with the SWMP. Where applicable, all stormwater and groundwater dewatering practices implemented to control stormwater pollution for dewatering must be amended in the SWMP and Site Map by the contractor.

• REVISING BMPs AND THE SWMP

The implemented BMPs will need to be modified and maintained regularly to adapt to changing site conditions and to ensure that all potential stormwater pollutants are properly managed. The BMPs and pollutant sources much be reviewed on an ongoing basis by the Administrator as assigned by the Permit. With any construction project, special attention must be paid to construction phasing and therefore revisions to the SWMP to include any additional or modification to the BMPs and SWMP report. The SWMP must be modified or amended to accurately reflect the field conditions. Examples include - but are not limited to – removal of BMPs, identification of new potential pollutant procedures, and changes to information provided in the site map/overlot grading plan. SWMP revisions must be made prior to changes in site conditions. The SWMP should be viewed as a "living document" throughout the lifetime of the project.



FINAL STABILIZATION AND

LONG-TERM STORMWATER MANAGEMENT

Permanent stabilization of the site includes seeding and mulching the site along with a gravel drive aisle and parking area installation. Seeding and mulching consists of loosening soil, applying topsoil (if permanent seeding) and drill seeding disturbed areas with grasses and crimping in straw mulch to provide immediate protection from raindrop and wind erosion. As the grass cover becomes established, provide long term stabilization of exposed soils.

Once the construction activity ceases permanently, the area will be stabilized with permanent seed and mulch. All areas that will not be impacted by construction of the water treatment building will be seeded and landscaped as feasible. After seeding, each area will be mulched with straw. The straw mulch is to be tacked into place by a disc with blades set nearly straight. Topsoil stockpiles will be stabilized with temporary seed and mulch. Areas of the site that are to be paved will be temporarily stabilized until asphalt is applied.

The temporary perimeter controls (silt fence or equivalent) will not be removed until all construction activities at the site are complete and soils have been stabilized. Upon completion of construction activities, the site shall be inspected to ensure all equipment, waste materials, and debris have been removed. All other BMPs or other control practices and measure that are to remain after completion of construction will be inspected to ensure they are properly functioning. Final stabilization is reached when all soil disturbing activities at the site have been completed and uniform vegetative cover has been established with a density of at least 70% of pre-disturbance levels.

The contractor will be responsible for any re-excavation of sediment and debris that collects in the stormwater quality detention facility required to ensure that the stormwater quality detention facility meets the design grades following construction. The facility inlet and outlet storm lines shall also be cleaned and free of sediment once the site becomes stabilized.

INSPECTION AND MAINTENANCE PROCEDURES

All drainage facilities will be monitored using the enclosed "Monitoring and Maintenance Inspection Record" checklist (Appendix II).



• SWMP OWNER/ADMINISTRATOR INSPECTION PROCEDURES & SCHEDULES

The Owner/Administrator shall adhere to the following inspection procedures during the development of the site:

- 1. Make thorough inspection of the stormwater management system at least every 14 days.
- 2. Make thorough inspection of the stormwater management system within 24 hours of each precipitation event that creates runoff.
- 3. If any system deficiencies are noted, corrective actions must begin immediately. Documentation of inspection must be available if requested.
- 4. Records of the site inspections or facility replacement modifications must be kept at the site within this report.
- 5. 30-day inspections must take place on this site where construction activity is complete, but vegetative cover is still being established.

In this report's appendix, a site inspection form has been included for use by the Inspector. Upon completion of this form, the document is to be kept in the provided folder also in the rear of this report.

• BMP MAINTENANCE / REPLACEMENT & FAILED BMPs

The Stormwater Construction Permit requires that all erosion and sediment control practices and other protective measures identified in the SWMP be maintained in effective and operation condition. A preventative maintenance program should be in place to prevent BMP breakdowns and failures by proactively maintaining or replacing BMPs and equipment. The inspections process should also include procedures to ensure that BMPs are replaced or new BMPs added to adequately manage the pollutant sources at the site. This procedure is part of the ongoing process of revising the BMPs and SWMP as previously discussed, and any changes shall be recorded in the SWMP.

RECORD KEEPING AND DOCUMENTING INSPECTIONS

The following items must be documented as part of the site inspections:

- Inspection date
- Name(s) and title(s) of personnel making inspection
- o Location(s) of discharges of sediment or other pollutants from site



- Location(s) of BMPs that need to be maintained
- Location(s) of BMPs that fail to operate as designed or proved inadequate in a particular location
- Location(s) where additional BMPs are needed that were not in place at time of inspection
- o Deviations from the minimum inspection schedule
- Descriptions of corrective action for items above including dates and measures taken to prevent future violations
- Signed statement of compliance added to the report after correction action has been taken

• INFORMATION REGARDING ITEMS NOT ON CHECKLIST

SECTION 1

- 5. There is no phasing for this project to install subdivision improvements.
- 12. As no batch plant is proposed within this subdivision, no spill prevention or pollution control measures are needed.
- 14. There is no known non-stormwater discharge within this subdivision.
- 17e. There are no known storage areas for building materials, soils or wastes within this subdivision associated with the infrastructure construction.
- 17f. No Dedicated asphalt/ concrete batch plant is proposed with this subdivision.
- 26. There are no stormwater control measures proposed for use by the project that are not under the direct contact of the owner, developer or contractor.

SECTION 2

a.& b. Signed documents of each will be included in this report once approved by El Paso County.

PREPARED BY:

Classic Consulting Engineers & Surveyors, LLC

Kyle R. Campbell, P.E. Project Manager



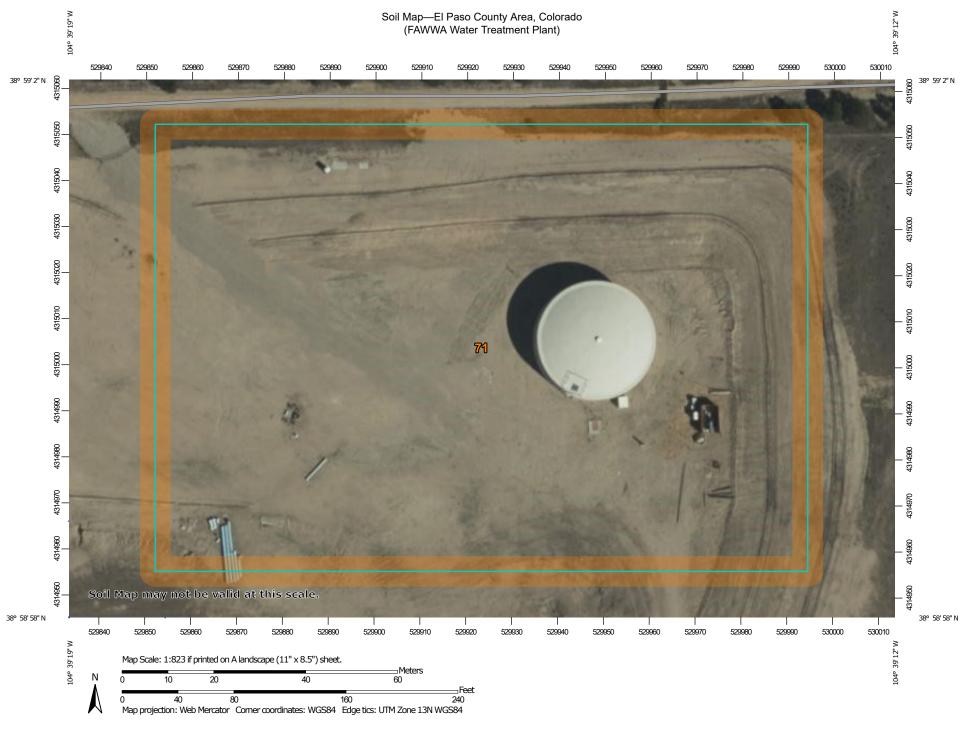
VICINITY MAP





SOILS REPORT





USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey

MAP LEGEND		MAP INFORMATION		
Area of Interest (AOI) △ Area of Interest (AOI) Soils Soil Map Unit Polygons △ Soil Map Unit Polygons △ Soil Map Unit Polygons △ Soil Map Unit Polygons ○ Borrow Pit ○ Borrow Pit ○ Clay Spot ○ Clayel Pit ○ Clayel Pit ○ Clayel Pit ○ Landfill ○ Landfill ○ Marsh or swamp ○ Mine or Quarry ○ Perennial Water ○ Perennial Water	EGEND Spoil Area Stony Spot Stony Spot Wet Spot Wet Spot Other Special Line Features Streams and Canals Externes and Canals Interstate Highways Streats Highways US Routes US Routes Joral Roads Local Roads Externes Aerial Photography	MAP INFORMATION The soil surveys that comprise your AOI were mapped at 1:24,000. Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data at of the version date(s) listed below. Soil Survey Area: El Paso County Area, Colorado Survey Area Data: Version 20, Sep 2, 2022 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.		
 Miscellaneous Water Perennial Water 		Soil Survey Area: El Paso County Area, Colorado Survey Area Data: Version 20, Sep 2, 2022 Soil map units are labeled (as space allows) for map scales		
 Slide or Slip Sodic Spot 				



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
71	Pring coarse sandy loam, 3 to 8 percent slopes	3.4	100.0%
Totals for Area of Interest		3.4	100.0%

El Paso County Area, Colorado

71—Pring coarse sandy loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 369k Elevation: 6,800 to 7,600 feet Farmland classification: Not prime farmland

Map Unit Composition

Pring and similar soils: 85 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pring

Setting

Landform: Hills Landform position (three-dimensional): Side slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Arkosic alluvium derived from sedimentary rock

Typical profile

A - 0 to 14 inches: coarse sandy loam C - 14 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3e Hydrologic Soil Group: B Ecological site: R048AY222CO - Loamy Park Hydric soil rating: No

Minor Components

Pleasant

Percent of map unit: Landform: Depressions Hydric soil rating: Yes

USDA

Other soils

Percent of map unit: Hydric soil rating: No

Data Source Information

Soil Survey Area: El Paso County Area, Colorado Survey Area Data: Version 20, Sep 2, 2022



COPY OF PERMIT APPLICATION

General permit application for stormwater discharges associated with construction activity. (Prior permit for existing overall grading still applies)



SYSTEM (CDPS) CHECKLIST Operation & Maintenance Inspection Record

The following inspection records are to be used at each bi-monthly stormwater management system inspection and after any precipitation or snowmelt event that causes surface runoff. As a result of these inspections, the SWMP may need to be revised. The inspection records and revised SWMP shall be made available to the division upon request. If the construction activity lasts more than 12 months, a copy of the inspection records and revised SWMP shall be sent to the division by May 1 of each year covering April 1 to March 31.



Action:	Project Type:	Zip Code:
Project Name:	Subdivision:	
Address/Location:		Assigned Inspector:
Action Date:	Date Next Routine:	Date Next Follow-up:
Owner:	Owner Phone:	Stage of Construction:
Rep. Name:	Rep. Phone:	Inspected By:

	Items	ls Used	Maint. Required	Remarks / Actions Necessary
1	Check Dam Has accumulated sediment and debris been removed per maintenance requirements?	No	No	
2	Erosion Control Blanket Is the erosion control blanket fabric damaged, loose, or in need of repair?	No	No	
3	Inlet Protection Is the inlet protection damaged, ineffective or in need of repairs? Does sediment remain in inlets? 	No	No No	
4	Mulching > Uneven mulch distribution on disturbed areas? > Is the mulch application rate inadequate?	No	No No	
5	 Any evidence of mulch being blown or washed away? Do areas require additional mulching? 		No No	
	Sediment / Basin Trap > Is the sediment basin improperly constructed or inoperable? > Is there sediment and/or debris in the basin?	No	No No	
6	 Silt Fence Is the silt fence damaged, collapsed, un-trenched or ineffective? Is the excess sediment against the barrier? Is the silt fence improperly located? 	No	No No No	
7	Slope Drain Is water bypassing or undercutting the inlet or pipe? Is there any evidence of erosion? 	No	No No	
8	Straw Bale Barrier > Are the straw bales damaged, ineffective or un-trenched? > Is there excess sediment against the barrier? > Are the bales installed and positioned incorrectly?	No	No No No	
9	Surface Roughening Surface roughening inconsistent on slopes? Is there any evidence of surface roughening erosion?	No	No No	
10	Seeding > Are the seedbeds unprotected? > Has any erosion occurred in the seeded area? > Any evidence of vehicle tracking on seeded area?	No	No No No	
11	 Temporary Swales Has any sediment or debris been deposited within the swales? Have the slopes of the swale eroded or has damage occurred to the lining? Any the swale improves help extended 	No	No No	
12	 Are the swales improperly located? Vehicle Tracking Is gravel surface clogged with mud or sediment? Is the gravel surface sinking into the ground? Has sediment been tracked onto any roads? Is inlet protection missing around curb inlets near construction 	No	No No No No No	
13	entrance? Diversion Structure Has the structure been damaged or show signs of erosion? Is the structure properly located? (forms /Routing Inspection Form	No	No No	

Admin/forms/Routine Inspection Form

14	Outlet Protection	No		
	Is erosion taking place?		No	
15	Rough-Cut Street Control	No		
	Have structures been properly located and installed?		No	
	Is there excess sediment against the structures?		No	
16	Concrete Washout	No		
	Has material been removed per maintenance requirements?		No	
	Does structure have adequate signage?		No	
	Is there adequate tracking-pad material for access, if necessary?		No	
	Is there adequate protection around the structure?		No	
17	Erosion Logs	No		
	Are the erosion logs damaged, collapsed, or ineffective?		No	
	Is there excess sediment against the barrier?		No	
	Are the erosion logs improperly located?		No	
18	GEC Management	No		
	Is the GEC notebook located on site?		No	
	Are changes to the GEC documents noted and approved?		No	
	Are the inspection reports retained on-site?		No	
	Are corrective actions from the last inspection completed?		No	
19	Materials and Pollution	No		
	Are stockpiles being managed properly?		No	
	Are materials being managed properly?		No	
	Is solid waste and trash being managed properly?		No	
	Is street sweeping being managed properly?		No	
	Are the sanitary facilities being managed properly?		No	
	Are the vehicles and equipment being managed properly?		No	
	Are there other materials or pollution issues being properly		No	
	maintained?			

Project Status: Click here to enter text. Const. Start Date: Click here to enter text. here to enter text.

Size of Disturbance (acres):Click

Additional Comments:

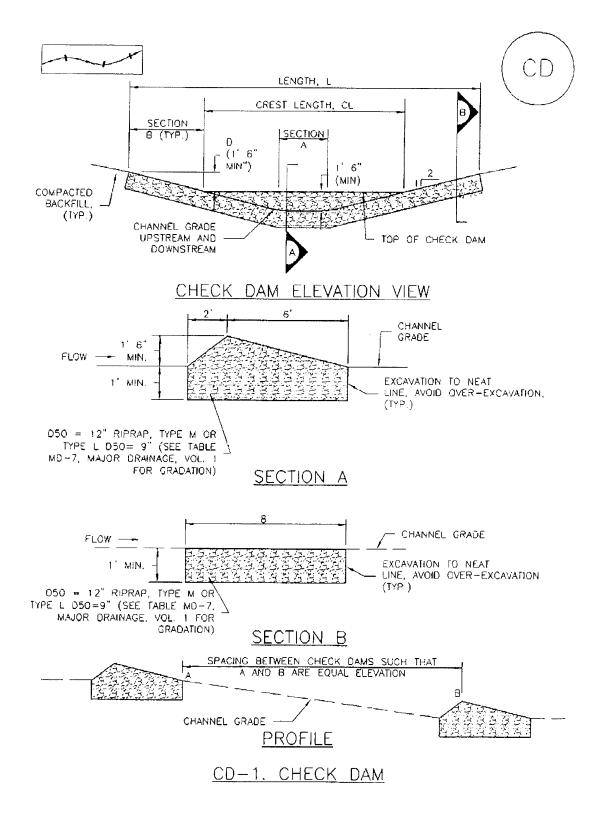
COMPLETED OPERATION AND MAINTENANCE INSPECTION RECORDS



STANDARD BMP DETAILS

W/ INSTALLATION AND MAINTENANCE REQUIREMENTS





CHECK DAM INSTALLATION NOTES

SEE PLAN VIEW FOR:

 LOCATION OF CHECK DAMS.
 CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM)
 LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).

2. CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.

3. RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE N (D50 12") OR TYPE L (D50 9").

4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF I'.

5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.

CHECK DAM MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMP'S HAVE FAILED. REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

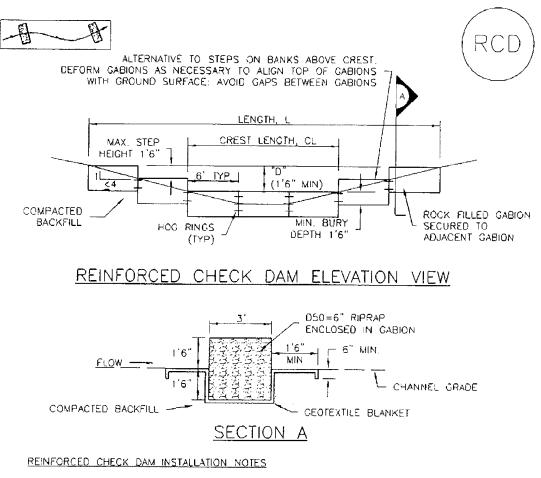
4. SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN ½ OF THE HEIGHT OF THE CREST.

5. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

6. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LIDECD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



1. SEE PLAN VIEW FOR:

-LOCATIONS OF CHECK DAMS.

-CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).

-LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).

2. CHECK DAMS INDICATED ON THE SWMP SHALL BE INSTALLED PRIOR TO AN UPSTREAM LAND-DISTURBING ACTIVITIES.

3. REINFORCED CHECK DAMS, GABIONS SHALL HAVE GALVANIZED TWISTED WIRE NETTING WITH A MAXIMUM OPENING DIMENSION OF 4½" AND A MINIMUM WIRE THICKNESS OF 0.10". WIRE "HOG RINGS" AT 4" SPACING OR OTHER APPROVED MEANS SHALL BE USED AT ALL GABION SEAMS AND TO SECURE THE GABION TO THE ADJACENT SECTION.

4. THE CHECK DAM SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1' 6".

5. GEOTEXTILE BLANKET SHALL BE PLACED IN THE REINFORCED CHECK DAM TRENCH EXTENDING A MINIMUM OF 1' 6" ON BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF THE REINFORCED CHECK DAM.

CD-2. REINFORCED CHECK DAM

REINFORCED CHECK DAM MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED CHECK DAMS SHALL BE REMOVED AS NEEDED TO MAINTAIN THE EFFECTIVENESS OF BMP, TYPICALLY WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN ½ THE HEIGHT OF THE CREST.

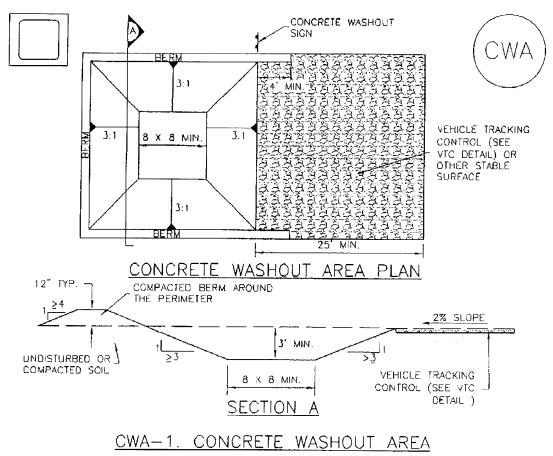
5. REPAIR OR REPLACE REINFORCED CHECK DAMS WHEN THERE ARE SIGNS OF DAMAGE SUCH AS HOLES IN THE GABION OR UNDERCUTTING.

6. REINFORCED CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

7. WHEN REINFORCED CHECK DAMS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, AND COVERED WITH A GEOTEXTILE BLANKET. OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMF DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:

-CWA INSTALLATION LOCATION.

2. DG NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SIFE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.

3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.

- 5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 11.
- 6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

7 SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

CWA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs have failed, repair or replacement should be initiated upon discovery of the failure.

4. THE CWA SHALL BE REPARED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

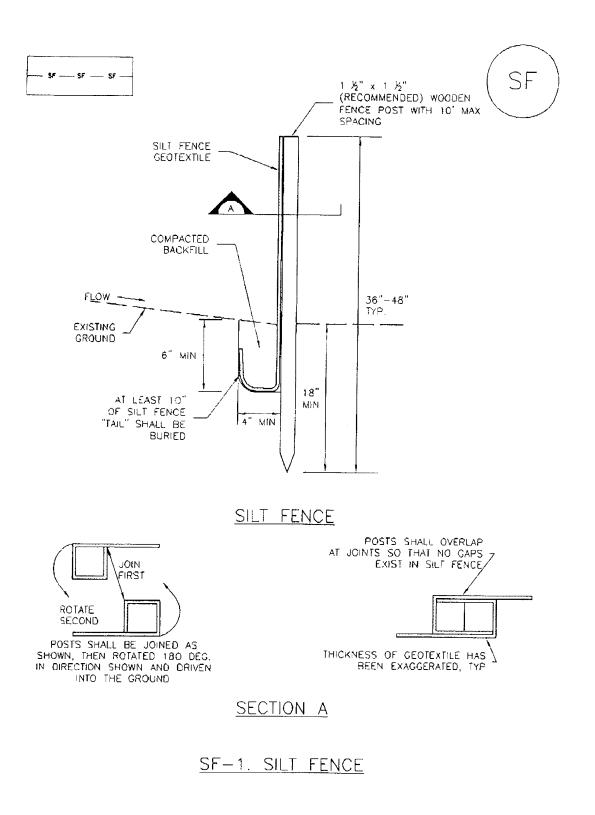
5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.

6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.

7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD).

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDECD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



SILT FENCE INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.

2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.

3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING, COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.

4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.

5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.

6 AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK." EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').

7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".

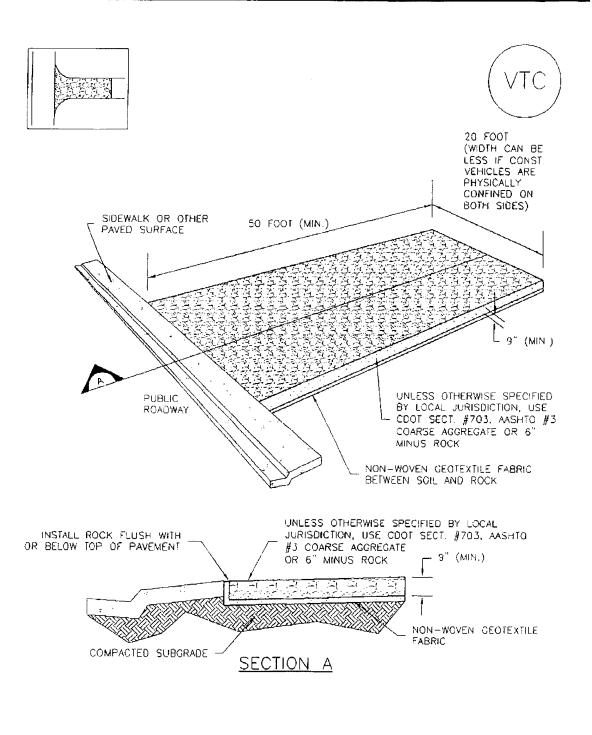
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.

6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.

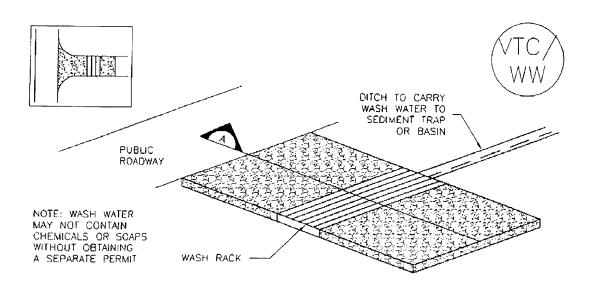
7 WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

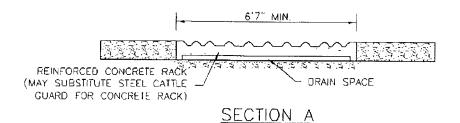
(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)

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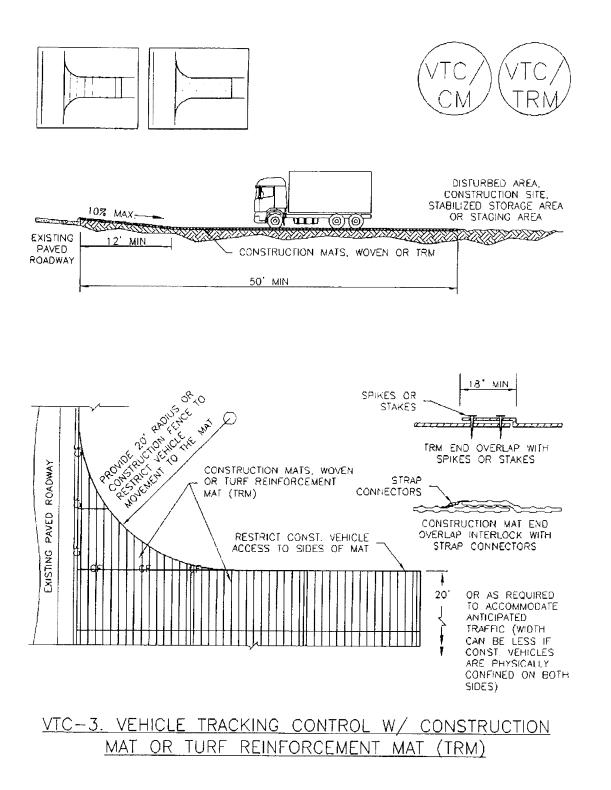
VTC-1. AGGREGATE VEHICLE TRACKING CONTROL





VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

Vehicle Tracking Control (VTC)



STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

1. SEE PLAN VIEW FOR

-LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).

-TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703. AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

1. INSPECT BMP'S EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMP'S SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMP'S AS SOON AS POSSIBLE (AND ALWAY'S WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.

5 SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

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(DETAILS ABAPTED FROM CITY OF BROOMFIELD, COLURADO, NOT AVAILABLE IN AUTOCAD)

SITE MAP/ EROSION AND STORMWATER QUALITY CONTROL PLAN



