

**STORMWATER MANAGEMENT PLAN
(SWMP)**

For

**ROCK CREEK CANYON BATCH PLANT SITE
710 Rock Creek Canyon Rd
Colorado Springs, El Paso County, Colorado 80926-9800**

Prepared For:

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TBD

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Engineering · Planning · Surveying

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STORMWATER MANAGEMENT PLAN (SWMP) GENERAL REQUIREMENTS

In compliance with the provisions of the Colorado Water Quality Control Act, (25-8-101 et seq., CRS, 1973 as amended), owners or operators of stormwater discharges associated with non-extractive industrial activity, as defined in this permit, are authorized to discharge from authorized locations throughout the State of Colorado to specified surface waters of the state, in accordance with the eligibility and permit application requirements, effluent limitations, monitoring requirements, inspection requirements, and other conditions set forth in this general permit.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) GENERAL REQUIREMENTS

Per CDPHE General Permit Stormwater Discharges Associated with Non-Extractive Industrial Activity, and Authorization to Discharge Under the Colorado Discharge Permit System (CDPS), Permit No. COR900000, effective on October 1, 2012.

- . The SWMP shall be prepared in accordance with good engineering, hydrologic and pollution control practices. The plan need not be prepared by a registered engineer.
- . The applicant may demand an adjudicatory hearing within thirty (30) days of the date of issuance of the final permit determination, per the Colorado Discharge Permit System Regulations, 61.7(1). Should the applicant choose to contest any of the effluent limitations, monitoring requirements or other conditions contained herein, the applicant must comply with Section 24-4-104 CRS and the Colorado Discharge Permit System Regulations. Failure to contest any such effluent limitation, monitoring requirement, or other condition, constitutes consent to the condition by the Applicant.
- . The permittee must implement the provisions of the SWMP as written and updated, from commencement of construction activity until final stabilization is complete.
- . A copy of the SWMP must be retained onsite or be onsite when construction activities are occurring at the site unless the permittee specifies another location and obtains approval from the CDPHE.

A. SIGNATORY REQUIREMENTS FOR DOCUMENTS SUBMITTED TO THE CDPHE

Documents required for submittal to the CDPHE in accordance with the Non-Extractive Industrial Activity Permit, Permit No. COR900000, including applications for permit coverage and other documents as requested by the CDPHE, must include signatures by both the owner and the operator, except for instances where the duties of the owner and operator are managed by the owner.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Richard Timian, General Superintendent
Castle Rock Construction Co. of Colorado LLC
(Applicant / Owner)

Richard Timian, General Superintendent
Castle Rock Construction Co. of Colorado LLC
(Operator)

B. CONSISTENCY WITH OTHER PLANS

The permittee may incorporate, by reference, applicable portions of plans prepared for other purposes at their facility. Plans or portions of plans incorporated by reference must be available along with the SWMP. The Erosion Control Plans are located in **Appendix D**.

C. REQUIRED SWMP MODIFICATIONS

At nearly every site, the implemented control measures will have to be modified to adapt to changing site conditions, or to ensure that potential pollutants are consistently and properly managed. The pollutant sources and management practices at a site must be reviewed on an ongoing basis. When control measures or other site conditions change, the SWMP must be modified to accurately reflect the actual field conditions. Examples include, but are not limited to, removal of control measures, identification of new potential pollutant sources, addition of control measures, modification of control measure installation and implementation criteria or maintenance procedures, and changes in items included in the site map and/or description. The plan should be viewed as a living document that is continuously being reviewed and modified as part of the overall process of assessing and managing stormwater quality issues at the site.

The SWMP must be amended when the following occurs:

- A change in design, construction, operation, or maintenance of the site requiring implementation of new or revised control measures;

- The plan proves ineffective in controlling pollutants in stormwater runoff in compliance with the permit conditions;
- Control measures identified in the SWMP are no longer necessary and are removed; and
- Corrective actions are taken onsite that result in a change to the SWMP.

For SWMP revisions made prior to or following a change(s) onsite, including revisions to sections addressing site conditions and control measures, a notation must be included in the plan that identifies:

- The date of the site change, the control measure removed, or modified,
- The locations(s) of those control measures, and
- Any changes to the control measures(s).

The permittee must ensure the site changes are reflected in the SWMP. The permittee is noncompliant with the Construction Stormwater Permit until the plan revisions have been made.

PROJECT DESCRIPTION

LOCATION

The Rock Creek Canyon Batch Plant Site is located on the property addressed 710 Rock Creek Canyon Rd Colorado Springs, El Paso County, Colorado 80926 and is northwest of the intersection of Rock Creek Canyon Road and Colorado SH115. The site is located within the SE ¼ of Section 36, Township 15 S, Range 67 West of the 6th Principal Meridian. The property is bound to the North by conservation of forest properties (F-5), the East by CO115 Right-of-Way, the South by Rock Creek Canyon Rd Right-of-Way, and the West by conservation of forest properties (F-5).

The legal description for the site is as follows:

N2SE4 EX NLY 600 FT SEC 35-15-67, S2NW4, SW4, N2N2 EX 100 X 150 FT TR TO STARRITT, EX TRACTS 5 & 6 DESC BY BK 2045-759 THAT PART OF SE4NE4 LY NLY OF OLD CANON CITY RD SEC 36-15-67, THAT PART OF W2 SEC 31-15-66 LY WLY OF HWY 115 & LY NLY OF OLD CANON CITY RD EX N2N2N2 OF SD SEC, EX TR TO ALLRED, TOG WITH S 800.0 FT OF W 950.0 FT OF SEC 30-15-66, TOG WITH TRACT IN SW4SE4 & IN SE4SE4 SEC 36-15-67 LY WLY OF OLD HWY BET COLO SPGS & CANON CITY AS FOLS, BEG AT POI OF S LN OF SE4SE4 WITH WLY R/W LN OF HWY 115, TH SWLY ON SD S LN 1515.10 FT TO SW COR OF SD SW4SE4, N 01<44' W ON W LN 330.0 FT, N 88<53'45" E 1532.38 FT TO INTSEC W LN OF AFMD OLD HWY, S 13<49'32" E 168.75 FT, TH S 15<37' W 176.30 FT TO POB, EX TR OF LAND IN W2 SEC 36-15-67 DES AS FOLS: COM AT N4 COR OF SD SEC 36, TH S 01<29'26" W 150.00 FT FOR POB, TH CONT S 01<29'26" W 1460.00 FT, S 90<00'00" W 1320.00 FT, S 00<00'00" W 1030.00 FT, S 90<00'00" W 1320.00 FT M/L TO WLY SEC LN OF SD SEC 36, N 00<07'45" W 1320.00 FT, N 90<00'00" E 2040.00 FT, N 01<29'26" E 1170.00 FT, S 89<59'28" E 610.52 FT TO POB

SITE DESCRIPTION

The property this project is located on encompasses 387.07 acres, however this project will only disturb approximately 10 acres at its Eastern boundary for batch plant operations. This portion of the site consists of undeveloped land covered by native grasses and weeds.

CONSTRUCTION ACTIVITIES

Construction activities for this project will include grading and batch plant operations within the disturbed area of the plant site, installation of temporary BMPs as shown in the GEC plan, and final stabilization as described in the “Final Stabilization” section of this report. Temporary BMPs will be removed when final stabilization of the site is achieved.

PROJECT PHASING AND PROPOSED CONSTRUCTION SEQUENCE

PHASING

Three phases of construction activity are associated with this project, initial, interim, and final. The initial phase will include the installation of initial erosion control BMPs prior to disturbance of the site, which includes perimeter control, vehicle tracking, and staging areas. The interim phase will include installation of the temporary erosion control BMPs that will remain in place until final stabilization of the site. The final phase will be completed after batch plant operations are terminated, and as described in the “Final Stabilization” section of this report.

CONSTRUCTION SEQUENCE

Construction for this project is anticipated to begin in the summer of 2022 upon approval of applicable documents and permits. It is estimated that construction activities on the batch plantsite will be in operation for less than 24 months. Final stabilization is expected to be achieved in the summer of 2024. The anticipated construction sequence is as follows:

Initial:

1. Install vehicle tracking control, stabilized staging area
2. Install perimeter silt fence as shown on the GEC Plans

Interim:

1. Site Clearing/Grubbing
2. Install perimeter berm with topsoil, excess topsoil to be stockpiled where shown on the GEC Plan
3. Install temporary sediment control pond at the downstream end of the site
4. Install temporary level spreader at location designated on the GEC plans.
5. During batch plant operations, continue maintenance on temporary sediment control pond & temporary level spreader.

Final:

1. After completion of batch plant operations, final stabilize all disturbed areas on site
2. Remove temporary construction BMPs

Refer to the “Disturbed Areas” section of this report for disturbed area quantities anticipated with this project.

FINAL STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT

The final stabilization and long-term stormwater management of the site occurs when the revegetation of all disturbed areas is completed. Final stabilization of the site will begin after the operation of the batch plantsite is completed. Final stabilization of the site will occur once all areas inside of the disturbed limits are revegetated. Final stabilization is achieved when all ground disturbing activities are complete and all disturbed areas either have a uniform vegetative cover with individual plan density of 70 percent of pre-disturbance levels established or equivalent permanent alternative stabilization method is implemented. all temporary sediment and erosion control measures shall be removed upon final stabilization and before permit closure.

The long-term stormwater quality of this site will be the final stabilization after construction operations have been completed. There will be no increase in stormwater flows or decrease in stormwater quality from historic conditions.

DISTURBED AREAS

The site will have approximately 10 acres of disturbance within the project limits. The construction operations consist of grading and batch plantsite operations for the site, installation of temporary erosion control facilities and revegetation of disturbed areas.

EXISTING SITE CONDITIONS & SOILS

EXISTING SOIL TYPE

Soil data for the Rock Creek Canyon Batch Plant Site was taken from the United States Department of Agriculture Natural Resources Conservation Service (NRCS) Web Soil Survey.

The soil type at the site was identified as Bresser Sandy Loam, with slopes ranging from 3-5%, and a hydrologic soil grouping of “B”. Soils associated with hydrologic soil group B have a moderate infiltration rate when thoroughly wet. These are moderately deep, well-draining soils with a moderate rate of water transmission.

The erosion factor “K” was determined for the predominant soil on site to be 0.15. This factor indicating a moderately low susceptibility of erosion by water.

Soil maps used have been provided in the appendix of this report.

EXISTING DRAINAGE CONDITIONS

The existing site drains from the Northwest to the Southeast via overland flow, primarily at slopes between 3-5% into an existing roadside ditch on the Northwest side of CO-115. During batch plant operations, the site will continue to drain to the historic low point, while providing erosion and sediment control for proposed disturbed areas on site.

EXISTING VEGETATION

The percentage of existing vegetative ground cover on the Rock Creek Canyon Batch Plant site will be estimated prior to the start of construction. This estimation will be determined on-site. The site is undeveloped, with the downstream end bring a roadside ditch on the Northwest side of CO-115. Upon completion of batch plant operations, the disturbed area will be fully stabilized in compliance with the approved plans.

FLOODPLAIN

According to the FEMA Flood Insurance Rate Map (FIRM) Panel No. 08041C0950G, effective 12/07/2018, this site is located within an area of minimal flood hazard (Zone X). Refer to the appendix for FIRM Map.

POTENTIAL POLLUTION SOURCES & DESCRIPTIONS

Potential pollutant sources for this site include the following:

1. Disturbed and stored soils – to be mitigated by the use of silt fence, seeding and mulching, check dams, and erosion control blankets;
2. Vehicle tracking of sediments – to be mitigated by vehicle tracking control measures at the entrance to the project site as indicated on the Construction Plans;
3. Management of contaminated soils – not anticipated for this site;
4. Loading and unloading operations – to be mitigated by use of a designated Stabilized Staging Area;
5. Outdoor storage activities (building materials, fertilizers, chemicals, etc.) – all hazardous materials used will be mitigated by containment in a designed area within the Stabilized Staging Area, Material Safety Data Sheets (MSDA) will be available for inspection at any point during construction;
6. Vehicle and equipment maintenance and fueling – to be mitigated by utilizing a designated area within the Stabilized Staging Area, however there will be a limited storage of vehicles on site and a secondary berm area shall be constructed surrounding this designated area to contain any spills that may occur;
7. Significant dust or particulate generating processes (e.g., saw cutting material, including dust) – to be mitigated by road watering as needed;

8. Routine maintenance activities involving fertilizers, pesticides, herbicides, detergents, fuels, solvents, oils, etc. – to be mitigated by limiting routine maintenance activities to a Chemical Storage Area within the Stabilized Staging Area. If use is conducted outside of this designated area, tarps shall be used as containment to prevent runoff;
9. On-site waste management practices (waste piles, liquid wastes, dumpsters, etc.) – to be mitigated by having a designated location for waste within the Stabilized Staging Area;
10. Concrete truck/equipment washing, including the concrete truck chute and associated fixtures and equipment – to be mitigated by having a designated concrete washout area for all concrete wash water and concrete waste collection for proper disposal;
11. Dedicated asphalt, concrete batch plants, and masonry mixing stations –to be mitigated by having designated areas with secondary containment berm;
12. Non-industrial waste sources such as worker trash and portable toilets - to be mitigated by having a designated location for waste within the Stabilized Staging Area. Worker trash shall be placed in appropriate trash receptacles and daily site inspection should be conducted to ensure site is free from trash, there are no leaks from trash receptacles, and receptacle storage levels. Trash receptacles will be emptied prior to becoming 90% full or when debris control becomes an issue. All portable toilets will be located a minimum of 10 feet from stormwater inlets and 50 feet from state waters. They will be secured at all four corners to prevent overturning and cleaned on a weekly basis. They will be inspected daily for spills.
13. Other areas or procedures where potential spills can occur:
 - During berm cut and fill, avoid letting waste material enter waterway or placing it on unstable areas. All excavated material must be moved to stockpile area outside of waterway.

MATERIAL HANDLING & SPILL PREVENTION/ RESPONSE PROCEDURES

SPILL PREVENTION AND RESPONSE PLAN

Procedures for preventing spills and leaks.

1. Keep work areas clean and well organized.
2. Keep Material Safety Data Sheets (MSDS) available for hazardous chemicals and stock appropriate personal protective equipment.

3. Store containers, drums and bags within at a designated area of the Stabilized Staging Area away from traffic to prevent accidental spills.
4. Inspect storage containers regularly for leakage and keep tight fitting lids.
5. Label storage containers with substance name and type, stock number, expiration date, health hazards, handling instructions and first aid guidance.
6. Avoid spills when transferring materials from one container to another. Use needed equipment or assistance when moving materials to and from a storage area.
7. Do not wash down any outdoor work area unless wastewater is collected and discharged appropriately.
8. Inspect regularly that materials and equipment are being handled, disposed of and stored appropriately.
9. Provide necessary spill kits with equipment and supplies at each work area for potential spills or leaks.
10. Following a spill response, replace any used supplies and repair any equipment that is no longer usable.

Procedures for responding to and reporting spills and leaks. Should any spills occur, the SWMP administrator must take appropriate measures to assure complete, proper and legal cleanup.

1. For non-hazardous materials such as gasoline, paint, or oil that may be spilled in small quantities, the following measures shall be implemented:
 - Personal safety is the primary importance.
 - Use absorbent materials to contain spills and clean the area of residuals.
 - Dispose of the absorbent material, soil, and/or rotomill properly.
 - Do not hose down spill area with water.
2. For non-hazardous materials that qualify as a significant spill, the following measures shall be implemented:
 - Contact the Colorado Department of Public Health and Environment (CDPHE) 24-hour Environmental Emergency Spill Reporting Line (1-877-518-5608) within 24 hours of the spill event. A written notification to CDPHE is necessary within 5 days.
 - Contact the Qualified Stormwater Manager.

- Clean up spills immediately. Use absorbent materials if the spill is on an impermeable surface. Construct a slightly compacted earth dike to contain a spill on dirt areas. If rainfall is present at the time of the spill, cover the spill with a tarp to prevent contaminating runoff.
3. For spills involving hazardous materials, the following measures shall be implemented:
- Personal safety is the primary importance. Stay upwind and at a safe distance/secure the area from anyone being harmed.
 - Contact the local emergency response team by dialing 911.
 - Contact the Colorado Department of Public Health and Environment (CDPHE) 24-hour Environmental Emergency Spill Reporting Line (1-877-518-5608) within 24 hours of the spill event. A written notification to CDPHE is necessary within 5 days.
 - Contact the Qualified Stormwater Manager.

A licensed contractor or a Hazmat team shall be used to properly clean up spills

There are no anticipated non-stormwater discharges that will be permitted at this site.

MATERIALS HANDLING

Control measures implemented at the site to minimize impacts from handling significant materials that could contribute pollutants to runoff:

1. Good Housekeeping Practices – including Spill Prevention and Control, Material Use, Material Delivery and Storage, Solid Waste Management, Hazardous Waste Management, Sanitary/Septic Waste Management, Maintenance and Cleaning.
2. Stabilized Staging Area (SSA) – a designated area on site for construction equipment, vehicles, stockpiles, waste collection and material storage.
3. Stockpile Management (SM) – practices to limit erosion and to control sediment from stockpiles including appropriate placement of the stockpile and control measures surrounding the stockpile such as silt fencing.
4. Concrete Washout Area (CWA) – area for collection of concrete wash water and waste associated with concrete paving and appropriate disposal. Not to be located near drainageways or areas with high water table.

Implementation of Control Measures

1. Structural Practices for Erosion and Sediment Control:

- a. Silt Fence (SF) – a sediment barrier designed to intercept sheet flow runoff from disturbed areas.
- b. Earth Dike (ED) – a temporary berm constructed to divert stormwater runoff around disturbed area and convey runoff from the disturbed area to the sediment control BMP.

2. Non-Structural Practices for Erosion and Sediment Control:

- a. Seeding and Mulching (SM) – an erosion control method used to stabilize disturbed areas that will be inactive for an extended period or are at final grade and will not be otherwise stabilized.
- b. Erosion Control Blanket (ECB) – manufactured products, made of biodegradable natural materials, designed to control erosion and enhance vegetation establishment and survivability on slopes.
- c. Sediment Basin (SB) – a temporary pond built on site to capture eroded or disturbed soil transported in storm runoff prior to discharge from the site.

3. Phased Implementation

- a. Pre-disturbance and Site Access Phase (Initial Phase) includes silt fence installation and vehicle tracking control at site entrances.
 - b. Site Clearing and Grubbing Phase (Initial Phase) includes the installation of stabilized staging area, sediment basin, and earth dike.
 - c. Operation Phase (Interim Phase) includes routine maintenance on initial phase BMPs.
 - d. Final Stabilization Phase (Final Phase) includes seeding and mulching and removing all temporary control measures (VTC, SSA, SF, SB, ED) when site has reached final stabilization.
4. Vehicle Tracking Control will be implemented during the initial phase at the site entrance to help remove sediment from vehicles, reducing tracking onto paved surfaces.
 5. Wind Erosion / Dust Control – site watering will be utilized throughout construction to keep soil particles from entering the air.
 6. Groundwater and Stormwater Dewatering – not anticipated for this site.

RECEIVING WATERS & ADJACENT STREAM CROSSINGS

This project is within the Fort Carson Drainage Basin. Stormwater from this site drains to the Northeast corner of the site into an unnamed tributary north of the site. The unnamed tributary continues east through Fort Carson, with the ultimate receiving water being Fountain Creek (COARF004d_A).

Stream Crossings: There are no stream crossings within the boundary of this construction project.

INSPECTIONS & RECORD KEEPING

Inspection and maintenance should be performed on all control measures periodically and after every significant storm event. The minimum inspection schedule of the stormwater management system must be performed and documented at least every 7 days, and within 24 hours of any precipitation or snowmelt event. If more frequent inspections are required to ensure that control measures are properly maintained and operated, the inspection schedule must be modified to meet this need. A Site Inspection Report must be completed for each inspection, this report is included in Appendix C of this report.

APPENDIX

APPENDIX A: VICINITY MAP

APPENDIX B: SOIL DATA, FLOODPLAIN MAP

APPENDIX C: INSPECTION REPORT

APPENDIX D: SITE MAP

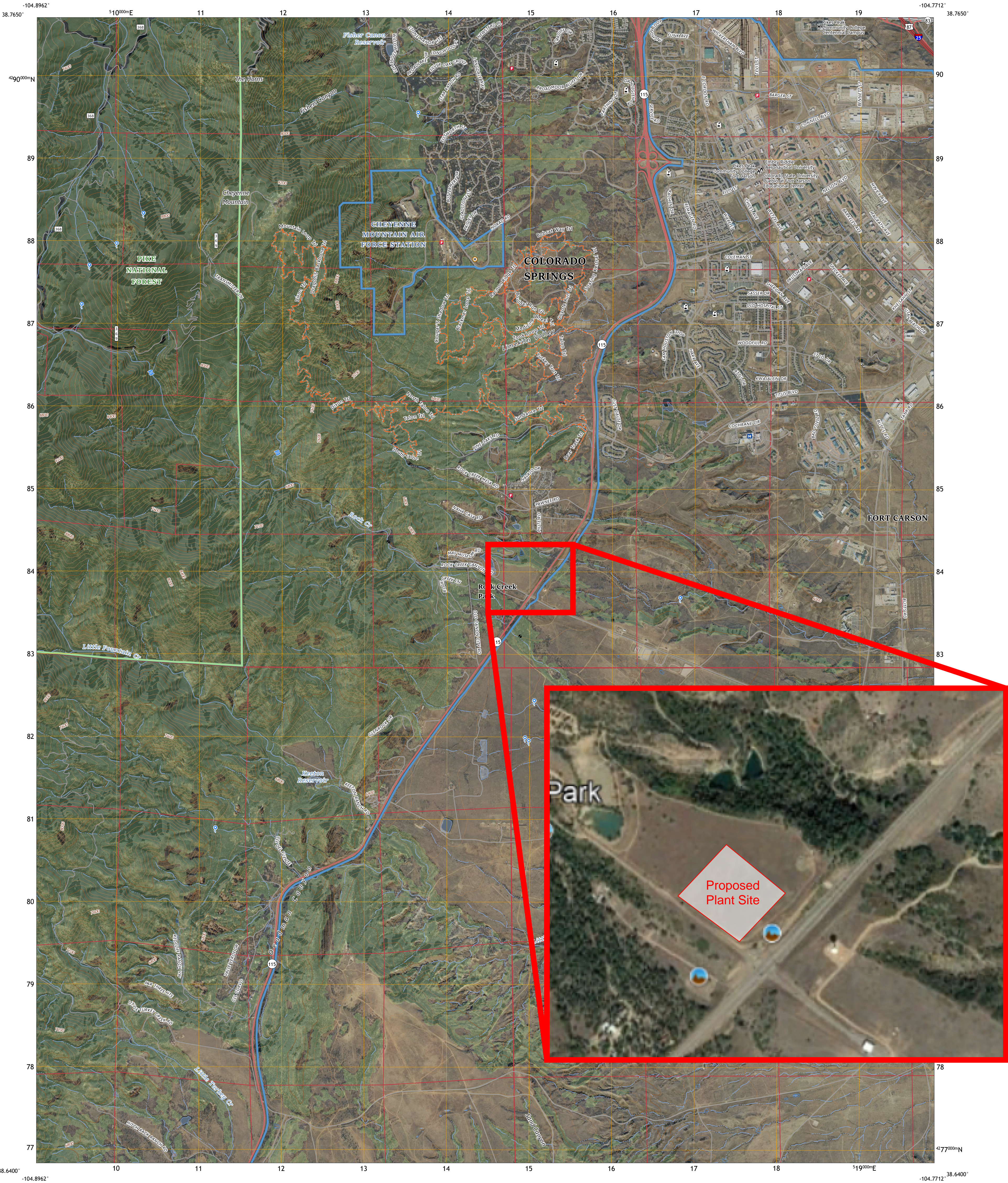


APPENDIX A

Plant Site Vicinity Map



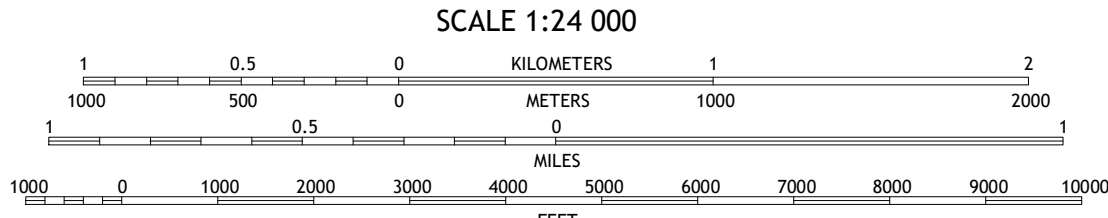
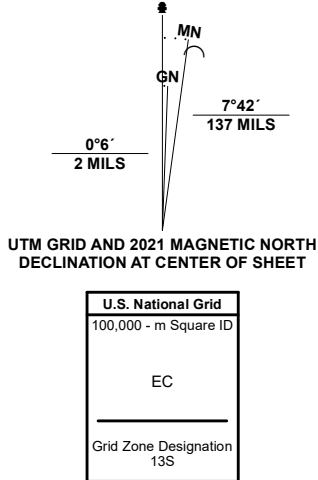
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Custom Extent
7.5-MINUTE TOPO



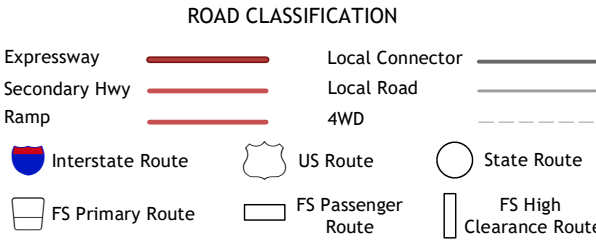
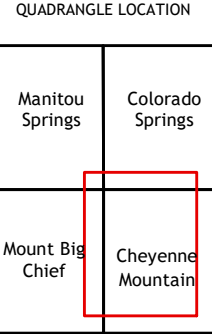
Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84)
Projection and 1 000-meter grid/Universal Transverse Mercator, Zone 13S
Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

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CONTOUR INTERVAL 80 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium



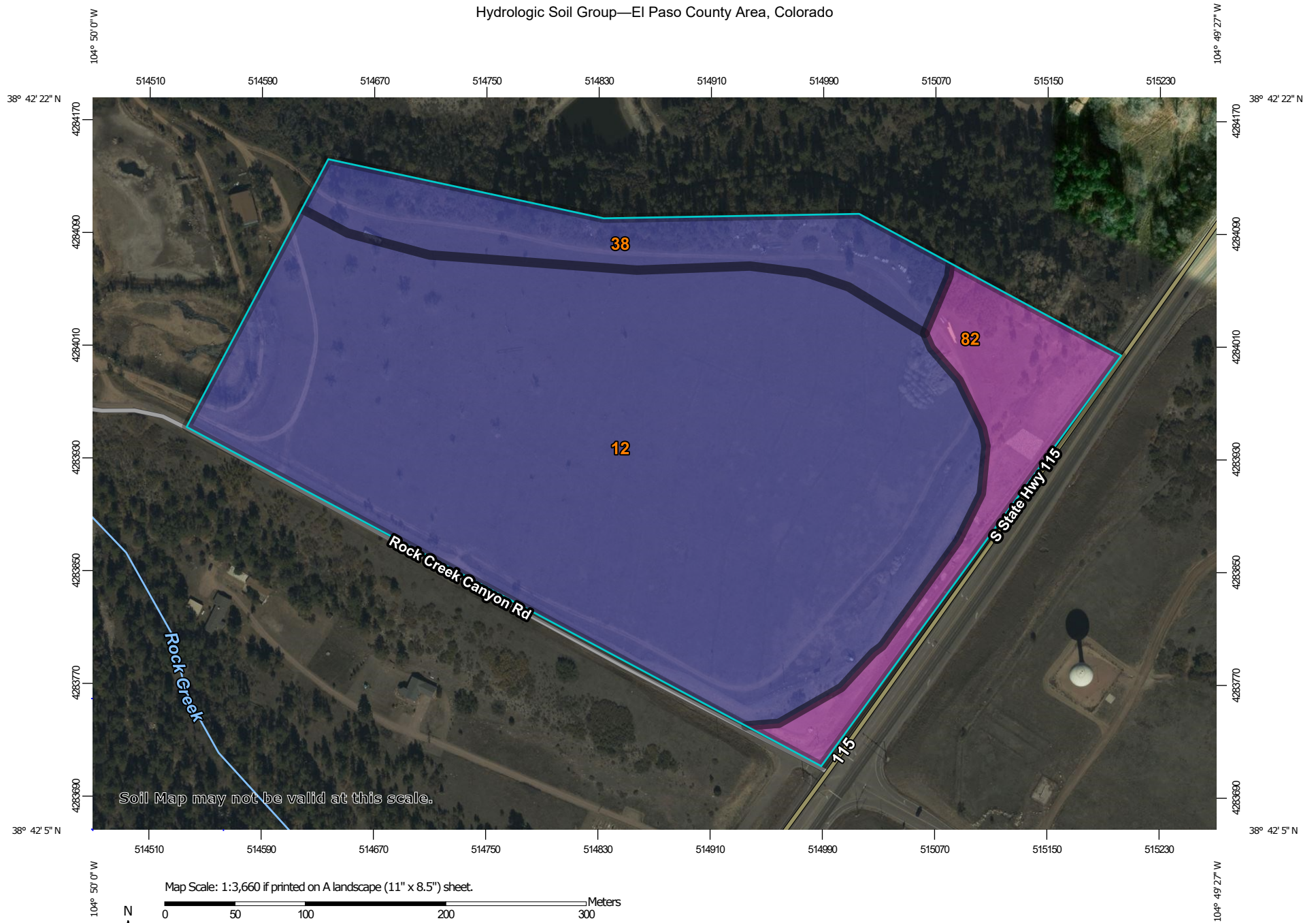
Check with local Forest Service unit for current travel conditions and restrictions.

7.5-MINUTE TOPO 1, CO
2022




APPENDIX B

Hydrologic Soil Group—El Paso County Area, Colorado



MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils

Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points


 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available


Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 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 as of the version date(s) listed below.

Soil Survey Area: El Paso County Area, Colorado
 Survey Area Data: Version 19, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 19, 2013—Oct 20, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
12	Bresser sandy loam, cool, 3 to 5 percent slopes	B	31.5	77.7%
38	Jarre-Tecolote complex, 8 to 65 percent slopes	B	4.9	12.2%
82	Schamber-Razor complex, 8 to 50 percent slopes	A	4.1	10.1%
Totals for Area of Interest			40.6	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

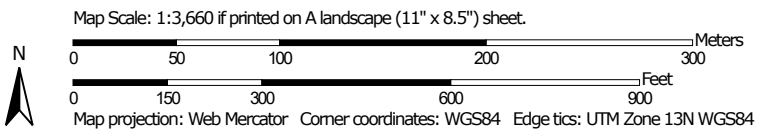
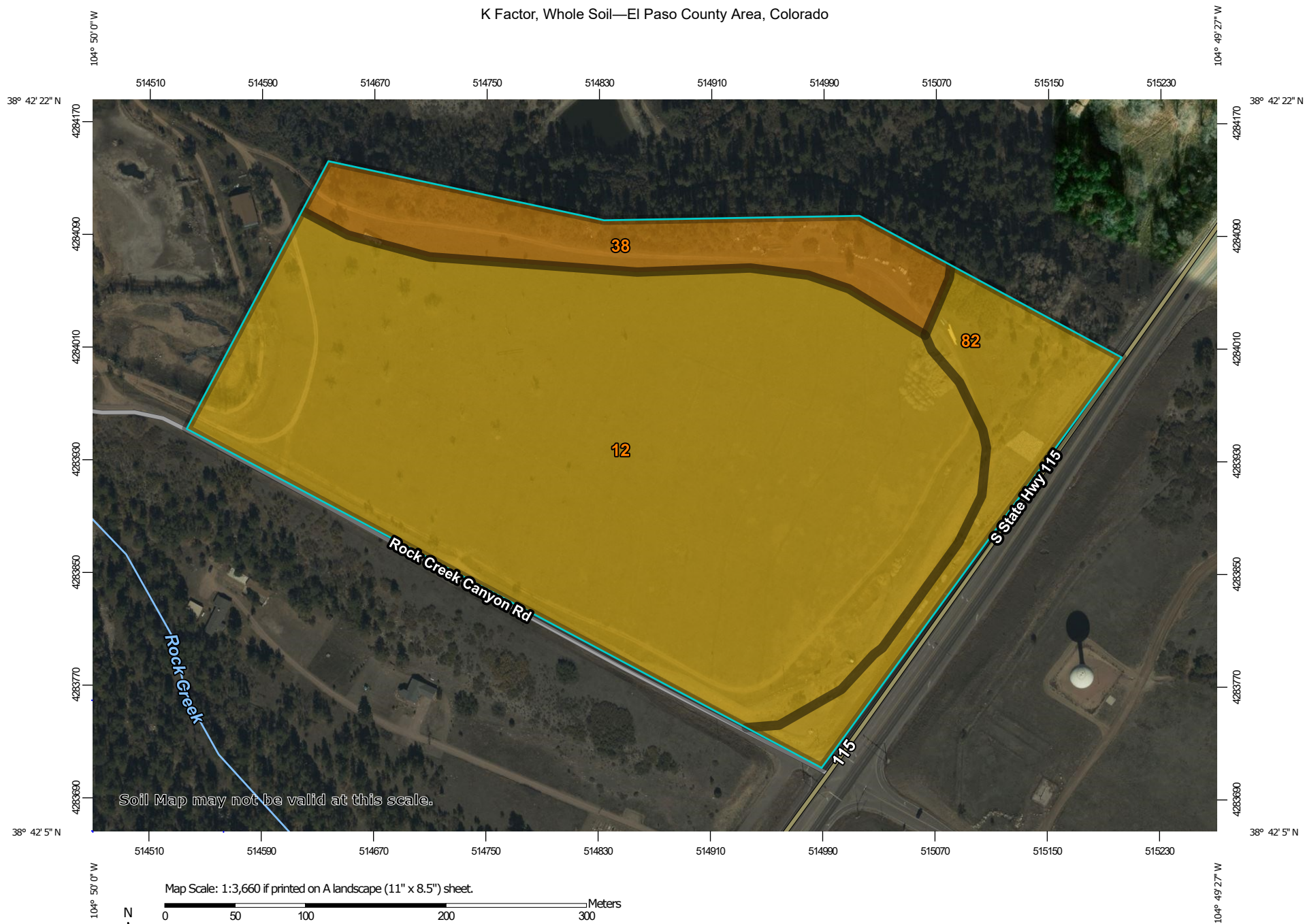
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified


Tie-break Rule: Higher

K Factor, Whole Soil—El Paso County Area, Colorado


















MAP LEGEND

Area of Interest (AOI)





 Area of Interest (AOI)










Soils

Soil Rating Polygons
















	.02
	.05
	.10
	.15
	.17
	.20
	.24
	.28
	.32
	.37
	.43
	.49
	.55
	.64
	Not rated or not available

Soil Rating Lines









	.02
	.05
	.10
	.15
	.17
	.20

	.24
	.28
	.32
	.37
	.43
	.49
	.55
	.64
	Not rated or not available

Soil Rating Points

	.02
	.05
	.10
	.15
	.17
	.20
	.24
	.28
	.32
	.37
	.43
	.49
	.55
	.64
	Not rated or not available

Water Features

	Streams and Canals
	Rails
	Interstate Highways
	US Routes
	Major Roads
	Local Roads
	Background
	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 as of the version date(s) listed below.

Soil Survey Area: El Paso County Area, Colorado
Survey Area Data: Version 19, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 19, 2013—Oct 20, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

K Factor, Whole Soil

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
12	Bresser sandy loam, cool, 3 to 5 percent slopes	.15	31.5	77.7%
38	Jarre-Tecolote complex, 8 to 65 percent slopes	.10	4.9	12.2%
82	Schamber-Razor complex, 8 to 50 percent slopes	.15	4.1	10.1%
Totals for Area of Interest			40.6	100.0%

Description

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Factor K does not apply to organic horizons and is not reported for those layers.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

National Flood Hazard Layer FIRMette



104°50'5"W 38°42'28"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/22/2022 at 3:06 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

104°49'28"W 38°42'N



APPENDIX C

CONSTRUCTION STORMWATER SITE INSPECTION REPORT

Facility Name		Permittee					
Date of Inspection		Weather Conditions					
Permit Certification #		Disturbed Acreage					
Phase of Construction		Inspector Title					
Inspector Name							
Is the above inspector a qualified stormwater manager? (permittee is responsible for ensuring that the inspector is a qualified stormwater manager)			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;">YES</td> <td style="width: 50%; text-align: center;">NO</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	YES	NO	<input type="checkbox"/>	<input type="checkbox"/>
YES	NO						
<input type="checkbox"/>	<input type="checkbox"/>						

INSPECTION FREQUENCY					
Check the box that describes the minimum inspection frequency utilized when conducting each inspection					
At least one inspection every 7 calendar days	<input type="checkbox"/>				
At least one inspection every 14 calendar days, with post-storm event inspections conducted within 24 hours after the end of any precipitation or snowmelt event that causes surface erosions	<input type="checkbox"/>				
<ul style="list-style-type: none"> • This is this a post-storm event inspection. Event Date: _____ 	<input type="checkbox"/>				
Reduced inspection frequency - Include site conditions that warrant reduced inspection frequency	<input type="checkbox"/>				
<ul style="list-style-type: none"> • Post-storm inspections at temporarily idle sites 	<input type="checkbox"/>				
<ul style="list-style-type: none"> • Inspections at completed sites/area 	<input type="checkbox"/>				
<ul style="list-style-type: none"> • Winter conditions exclusion 	<input type="checkbox"/>				
Have there been any deviations from the minimum inspection schedule? If yes, describe below.	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;">YES</td> <td style="width: 50%; text-align: center;">NO</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	YES	NO	<input type="checkbox"/>	<input type="checkbox"/>
YES	NO				
<input type="checkbox"/>	<input type="checkbox"/>				

INSPECTION REQUIREMENTS*
i. Visually verify all implemented control measures are in effective operational condition and are working as designed in the specifications
ii. Determine if there are new potential sources of pollutants
iii. Assess the adequacy of control measures at the site to identify areas requiring new or modified control measures to minimize pollutant discharges
iv. Identify all areas of non-compliance with the permit requirements, and if necessary, implement corrective action
*Use the attached Control Measures Requiring Routine Maintenance and Inadequate Control Measures Requiring Corrective Action forms to document results of this assessment that trigger either maintenance or corrective actions

AREAS TO BE INSPECTED			
Is there evidence of, or the potential for, pollutants leaving the construction site boundaries, entering the stormwater drainage system or discharging to state waters at the following locations?			
	NO	YES	If "YES" describe discharge or potential for discharge below. Document related maintenance, inadequate control measures and corrective actions Inadequate Control Measures Requiring Corrective Action form
Construction site perimeter	<input type="checkbox"/>	<input type="checkbox"/>	
All disturbed areas	<input type="checkbox"/>	<input type="checkbox"/>	
Designated haul routes	<input type="checkbox"/>	<input type="checkbox"/>	
Material and waste storage areas exposed to precipitation	<input type="checkbox"/>	<input type="checkbox"/>	
Locations where stormwater has the potential to discharge offsite	<input type="checkbox"/>	<input type="checkbox"/>	
Locations where vehicles exit the site	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

CONTROL MEASURES REQUIRING ROUTINE MAINTENANCE

Definition: Any control measure that is still operating in accordance with its design and the requirements of the permit, but requires maintenance to prevent a breach of the control measure. These items are not subject to the corrective action requirements as specified in Part I.B.1.c of the permit.

Are there control measures requiring maintenance?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	If "YES" document below

[illegible]

INADEQUATE CONTROL MEASURES REQUIRING CORRECTIVE ACTION

Definition: Any control measure that is not designed or implemented in accordance with the requirements of the permit and/or any control measure that is not implemented to operate in accordance with its design. This includes control measures that have not been implemented for pollutant sources. If it is infeasible to install or repair the control measure immediately after discovering the deficiency the reason must be documented and a schedule included to return the control measure to effective operating condition as possible.

Are there inadequate control measures requiring corrective action?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	If "YES" document below

Are there additional control measures needed that were not in place at the time of inspection?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	If "YES" document below

[illegible]

REPORTING REQUIREMENTS

The permittee shall report the following circumstances orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances, and shall mail to the division a written report containing the information requested within five (5) working days after becoming aware of the following circumstances. The division may waive the written report required if the oral report has been received within 24 hours.

All Noncompliance Requiring 24-Hour Notification per Part II.L.6 of the Permit			
a. Endangerment to Health or the Environment Circumstances leading to any noncompliance which may endanger health or the environment regardless of the cause of the incident (See Part II.L.6.a of the Permit) <i>This category would primarily result from the discharge of pollutants in violation of the permit</i>			
b. Numeric Effluent Limit Violations <ul style="list-style-type: none">○ Circumstances leading to any unanticipated bypass which exceeds any effluent limitations (See Part II.L.6.b of the Permit)○ Circumstances leading to any upset which causes an exceedance of any effluent limitation (See Part II.L.6.c of the Permit)○ Daily maximum violations (See Part II.L.6.d of the Permit) <i>Numeric effluent limits are very uncommon in certifications under the COR400000 general permit. This category of noncompliance only applies if numeric effluent limits are included in a permit certification.</i>			

Has there been an incident of noncompliance requiring 24-hour notification?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	If "YES" document below

Date and Time of Incident	Location	Description of Noncompliance	Description of Corrective Action	Date and Time of 24 Hour Oral Notification	Date of 5 Day Written Notification *

*Attach copy of 5 day written notification to report. Indicate if written notification was waived, including the name of the division personnel who granted waiver.

After adequate corrective action(s) and maintenance have been taken, or where a report does not identify any incidents requiring corrective action or maintenance, the individual(s) designated as the Qualified Stormwater Manager, shall sign and certify the below statement:

“I verify that, to the best of my knowledge and belief, all corrective action and maintenance items identified during the inspection are complete, and the site is currently in compliance with the permit.”

Name of Qualified Stormwater Manager

Title of Qualified Stormwater Manager

Signature of Qualified Stormwater Manager

Date

Notes/Comments

Description

Describe the control measure and what pollutant sources it will provide effective treatment for (part I.C.2.a.iv of the permit). Include the mechanism used for treatment of the pollutant source.

Implementation

Describe how the control measure will be implemented in accordance with good engineering, hydrologic and pollution control practices. Include the phase(s) of construction the control measure will be implemented for.

Installation Procedures

Describe the process required to install the control measure and have it adequately treat the intended pollutant source. Include specific depths, lengths, materials, and any other applicable information necessary to properly install the control measure.

Inspection Expectations

Describe how often the control measure will be inspected and what key features should be checked during each inspection (is the silt fence tail entrenched, are the straw wattles staked ever 4 feet, etc.)

Maintenance Requirements

Describe maintenance requirements, such as how to repair damaged sections, what qualifies as a failed control measure and when it needs to be replaced. Also include criteria that would trigger maintenance (i.e. 50% capacity of the control measure has been reached).

Control Measure Diagram



APPENDIX D

R:\35059 Orion Pit Drainage Report\Drawings\Construction Documents\35059 GEC1-Batch.dwg, 9/12/2022 6:41:12 AM, Sean Callahan

GRADING AND EROSION CONTROL PLAN ROCK CREEK CANYON PLANT SITE

LOCATED IN THE SOUTHEAST 1/4 OF SECTION 36,
TOWNSHIP 15 SOUTH, RANGE 67 WEST OF THE 6th PRINCIPAL MERIDIAN
EL PASO COUNTY, COLORADO

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

REVISED JULY 2019

1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFFSITE WATERS, INCLUDING WETLANDS.
2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR AND SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO STORMWATER. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES IS NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN PRIOR TO IMPLEMENTATION.
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE STABILIZED.
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE HYDROLOGY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE, UNLESS INFEASIBLE.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUT SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY.
14. DEWATERING OPERATIONS: UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT MAY NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF.
15. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTE FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
21. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. BULK STORAGE OF PETROLEUM PRODUCTS OR OTHER LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCH FLOW LINE.
24. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY TRAVIS BELL (CRC OF COLO LLC) IN COOPERATION WITH GROUND ENGINEERING DATED 5/24/22 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

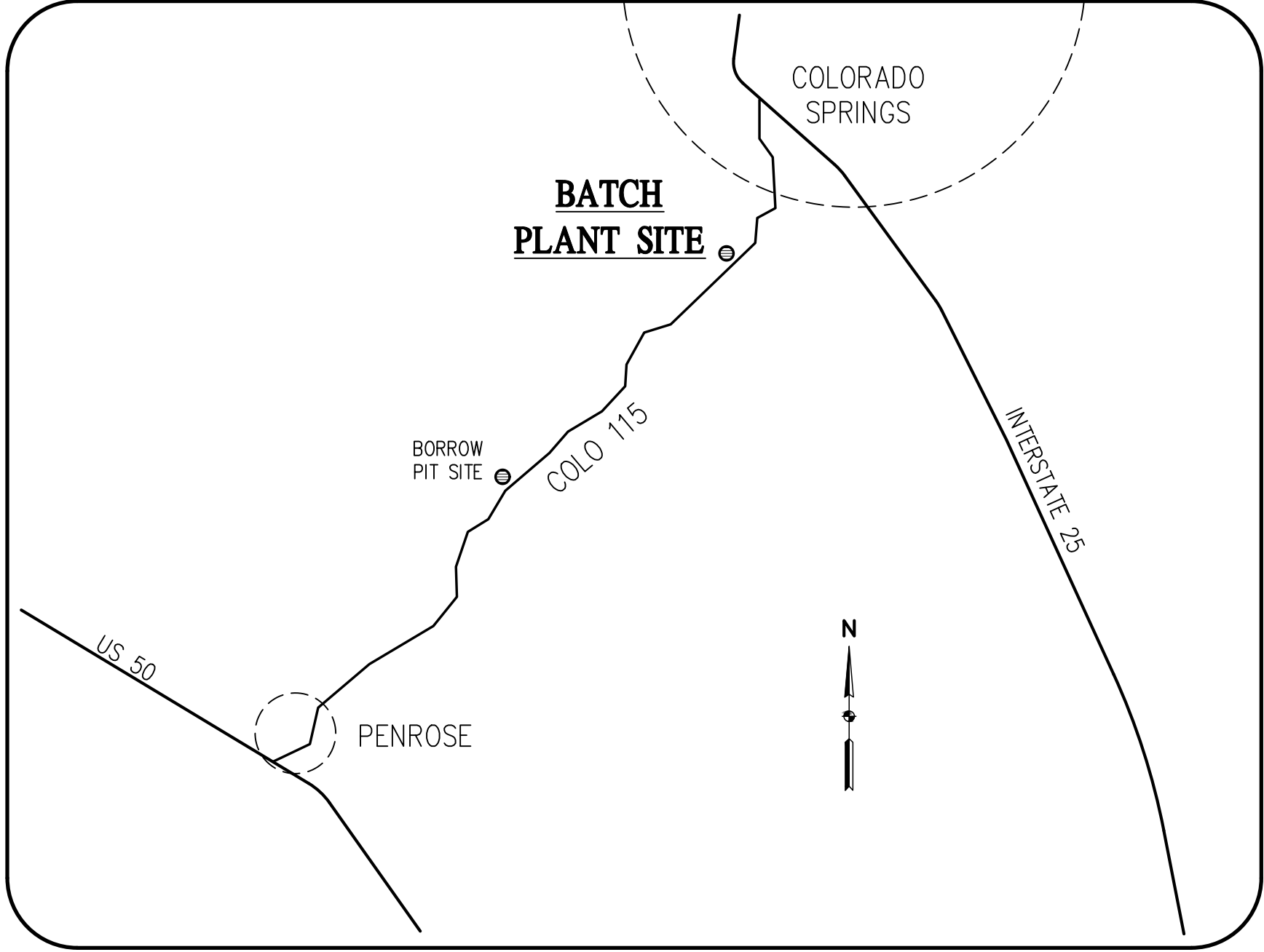
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD -PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT



Know what's below.
Call before you dig.

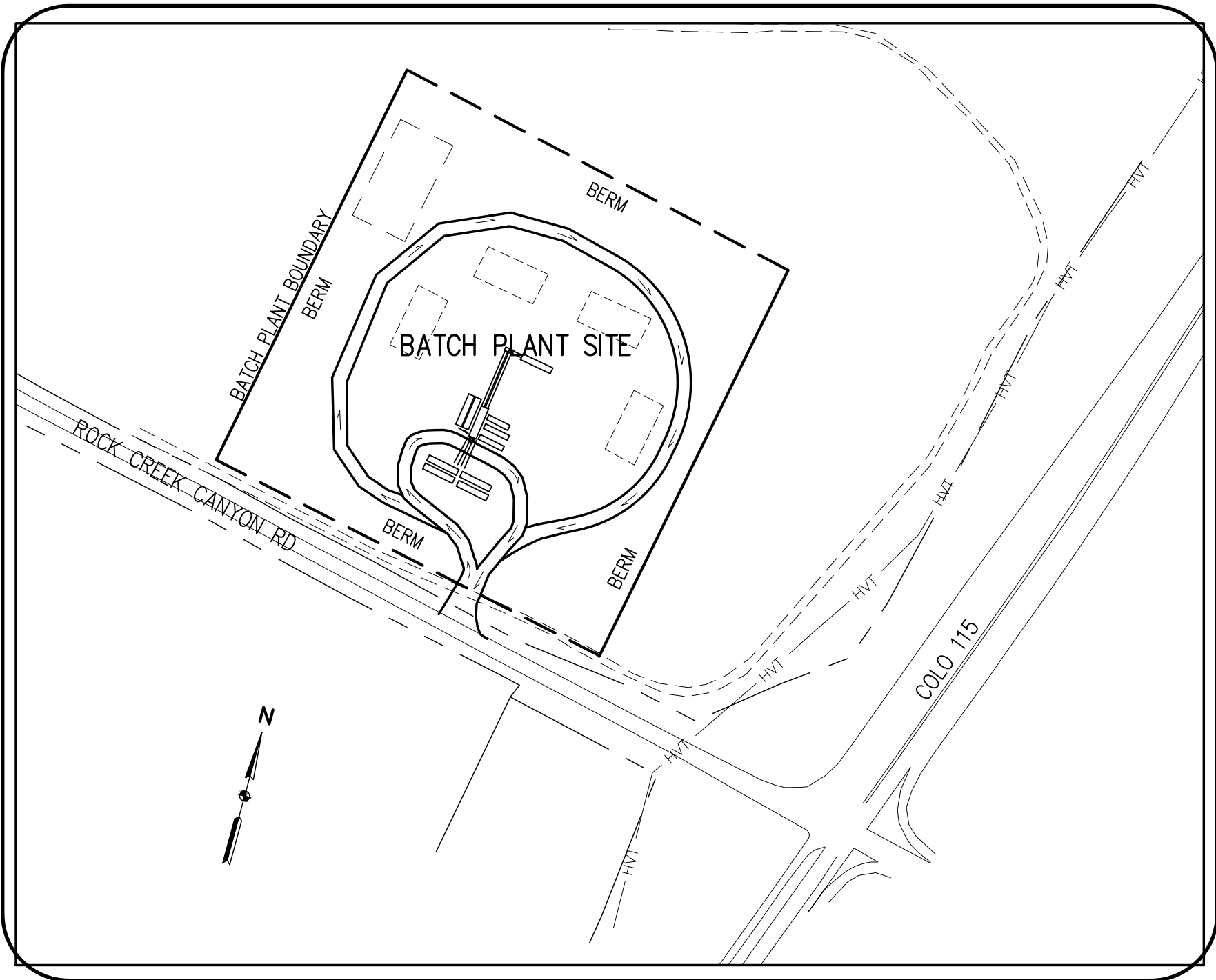
SHEET INDEX

- | | |
|-------|--------------------|
| GEC-1 | COVER SHEET |
| GEC-2 | INITIAL PHASE PLAN |
| GEC-3 | INTERIM PHASE PLAN |
| GEC-4 | FINAL PHASE PLAN |
| GEC-5 | DETAILS |



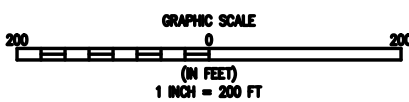
VICINITY MAP

NOT TO SCALE



SITE MAP

SCALE: 1" = 200'



PROJECT CONTACTS

OWNER:
GOLDEN EAGLE RANCH, LLC
710 ROCK CREEK CANYON RD
COLORADO SPRINGS, CO 80926-9800

APPLICANT:
CASTLE ROCK CONSTRUCTION OF COLORADO, LLC
6374 S. RACINE CIRCLE
CENTENNIAL, CO 80111
ATTN: TRAVIS BELL
303-688-6611
TBELL@CRCCLLC.COM

ENGINEER:
BASELINE ENGINEERING CORPORATION
1046 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
ATTN: STEVEN BAGGS, P.E.
719-531-6200
STEVEN.BAGGS@BASELINECORP.COM

ENGINEER'S STATEMENT

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

STEVEN G. BAGGS, P.E. _____ DATE _____
COLO PE NO. 26020

OWNER/DEVELOPER STATEMENT

I, THE OWNER/DEVELOPER, HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

OWNER SIGNATURE _____ DATE _____

EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH THE COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JOSHUA PALMER, P.E. _____ DATE _____
COUNTY ENGINEER/ECM ADMINISTRATOR



Engineering • Planning • Surveying

1046 ELKTON DRIVE • COLORADO SPRINGS, COLORADO 80907
P: 719.531.6200 • F: 719.531.6206 • www.baselinecorp.com

DESIGNED BY	SPC
DRAWN BY	SPC
CHECKED BY	SGB

DATE	09/09/2022
PREPARED BY	SPC

REVISION	DESCRIPTION
REVISED PER	COUNTY COMMENTS

REVISION	DESCRIPTION
REVISED PER	COUNTY COMMENTS

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REVISION	DESCRIPTION
REVISED PER	COUNTY COMMENTS

REVISION	DESCRIPTION	PREPARED BY	DATE
	REVISED PER COUNTY COMMENTS	SPC	09/09/2022

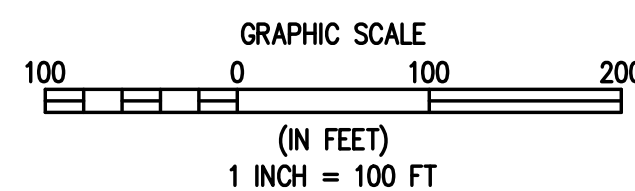
PREPARED UNDER THE DIRECT SUPERVISION OF	
---	--

GEC2

EXISTING LINETYPES

EXISTING SYMBOLS	PROPOSED SYMBOLS	
		NOMINAL SLOPE ON CUT OR FILL
		FLOW DIRECTION, TYPICALLY ON PAVED SURFACES

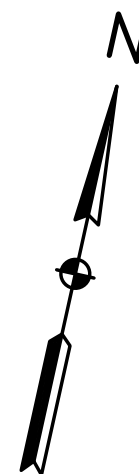
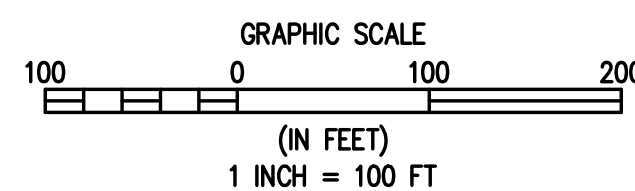
PHASE

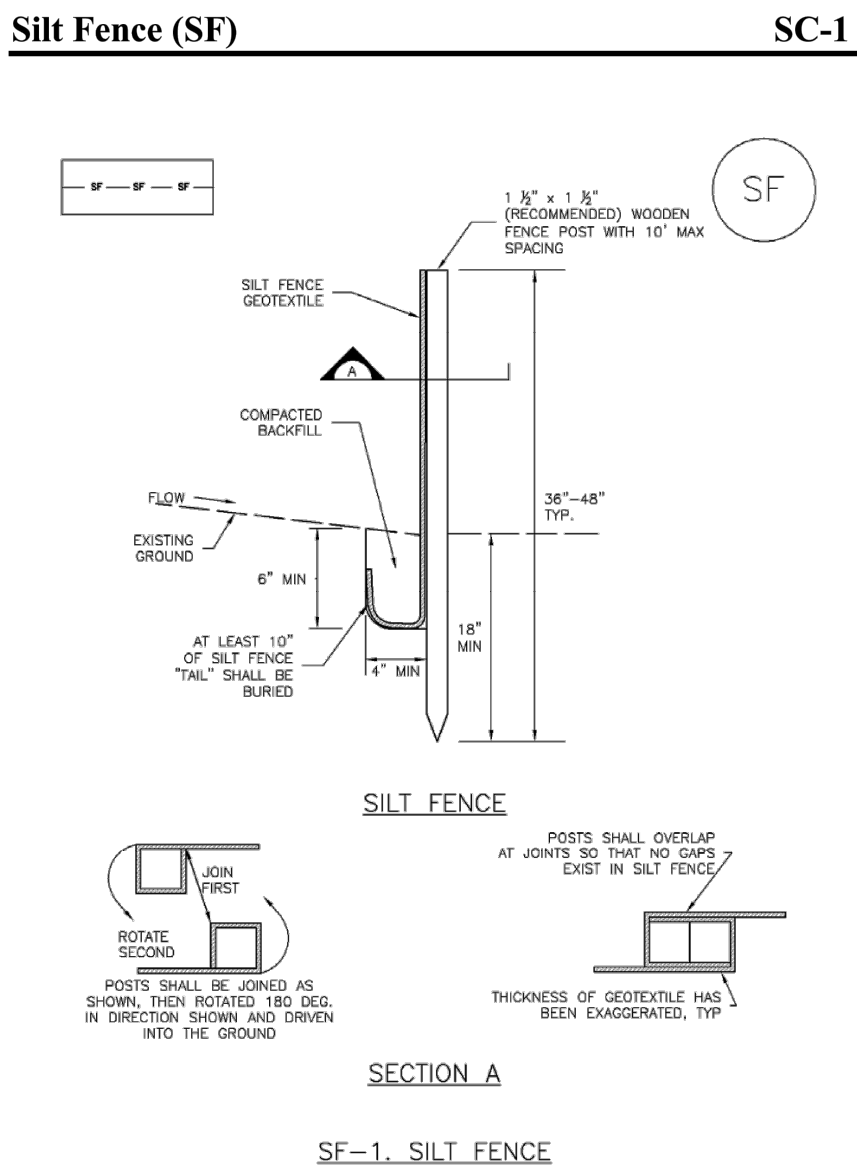
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INITIAL PHASE

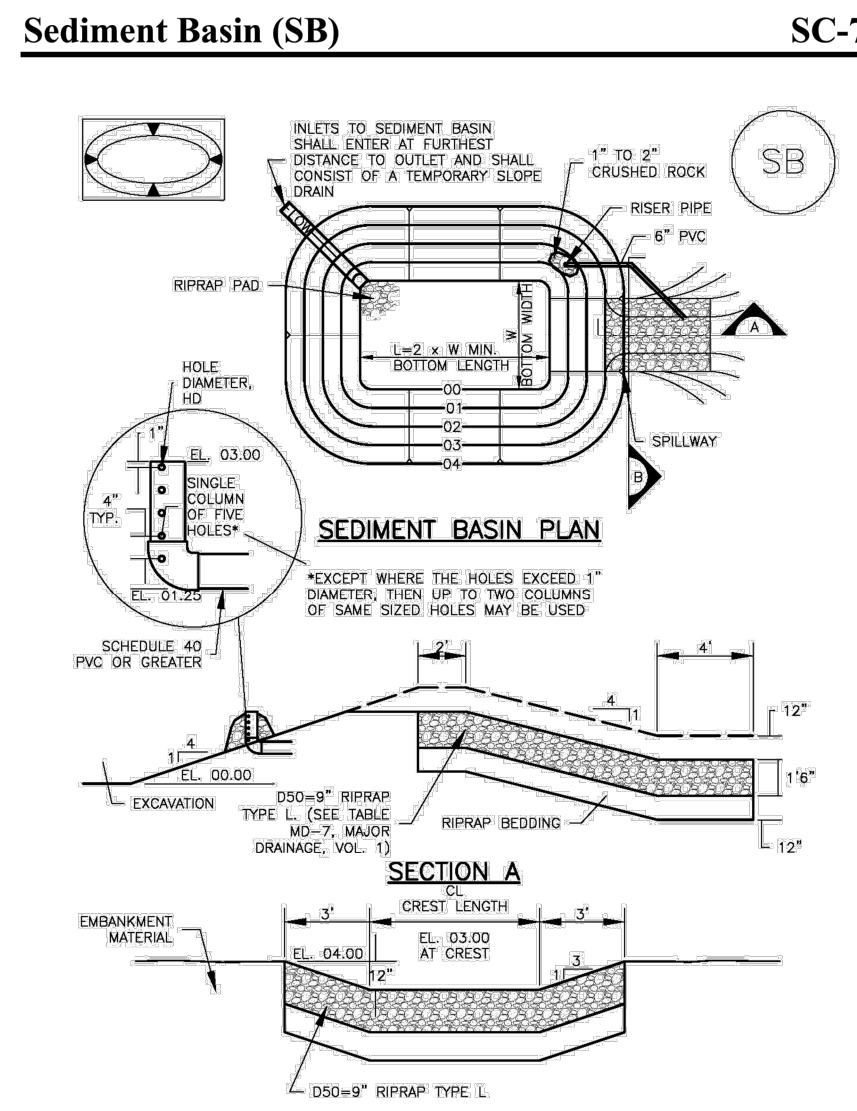
EXISTING LINTYPES	PROPOSED LINTYPES	
		PROPERTY BOUNDARY
		RIGHT-OF-WAY
		MINOR CONTOUR (2' INTERVAL)
		MAJOR CONTOUR (10' INTERVAL)
		EDGE OF ASPHALT
		EDGE OF GRAVEL
		WIRE FENCE
		LIMITS OF CONSTRUCTION
		HIGH VOLTAGE TRANSMISSION
EXISTING SYMBOLS	PROPOSED SYMBOLS	
		NOMINAL SLOPE ON CUT OR FILL
		FLOW DIRECTION, TYPICALLY ON PAVED SURFACES

PHASE	PROPOSED SYMBOLS	
INITIAL/INTERIM		(LOC) LIMITS OF CONSTRUCTION/DISTURBANCE
INITIAL/INTERIM		(VTC) VEHICLE TRACKING CONTROL
INITIAL/INTERIM		(CWA) CONCRETE WASHOUT
INITIAL/INTERIM		(SF) SILT FENCE
INITIAL/INTERIM		(ED) EARTH DIKE
INITIAL/INTERIM		(SP) STOCKPILE PROTECTION
INITIAL/INTERIM		(TSB) TEMP. SEDIMENT BASIN
INITIAL/INTERIM		(SSA) STABILIZED STAGING AREA
INITIAL/INTERIM		(RS) ROCK SOCK
FINAL		(SM) NATIVE SEEDING & MULCHING

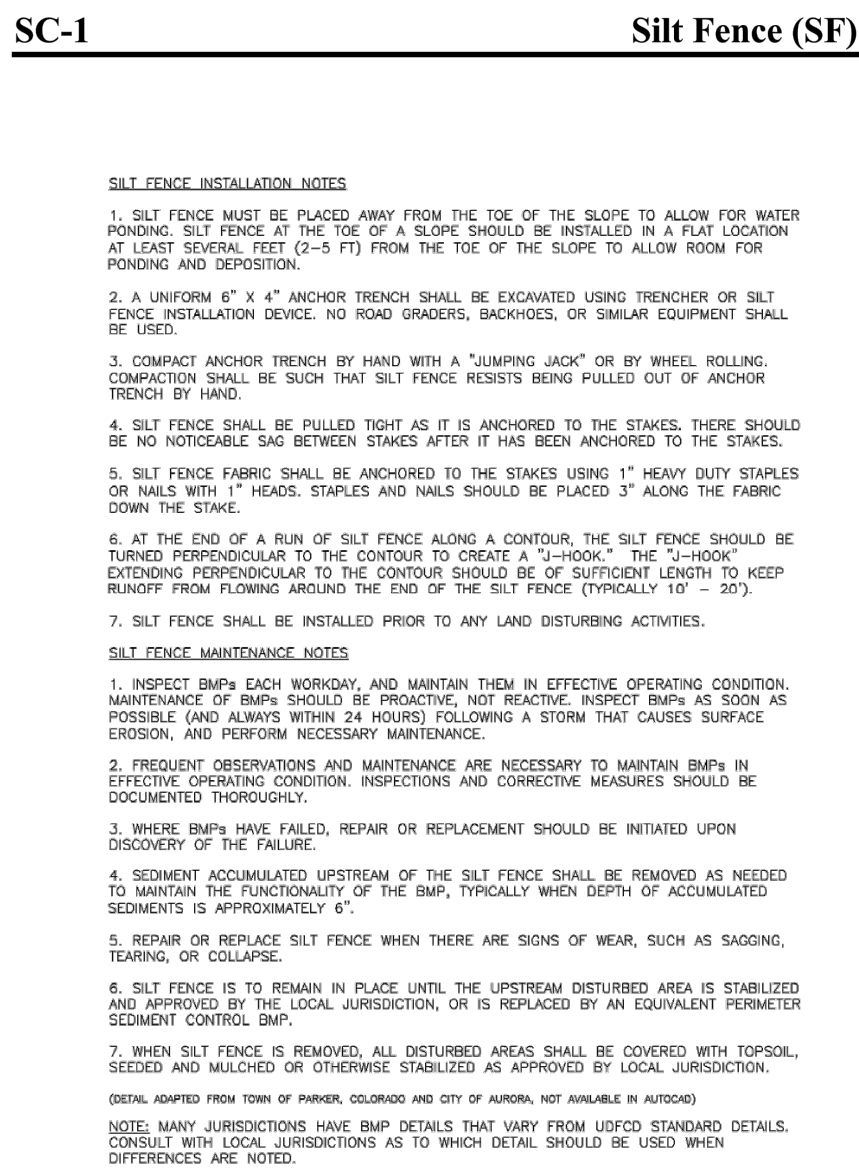
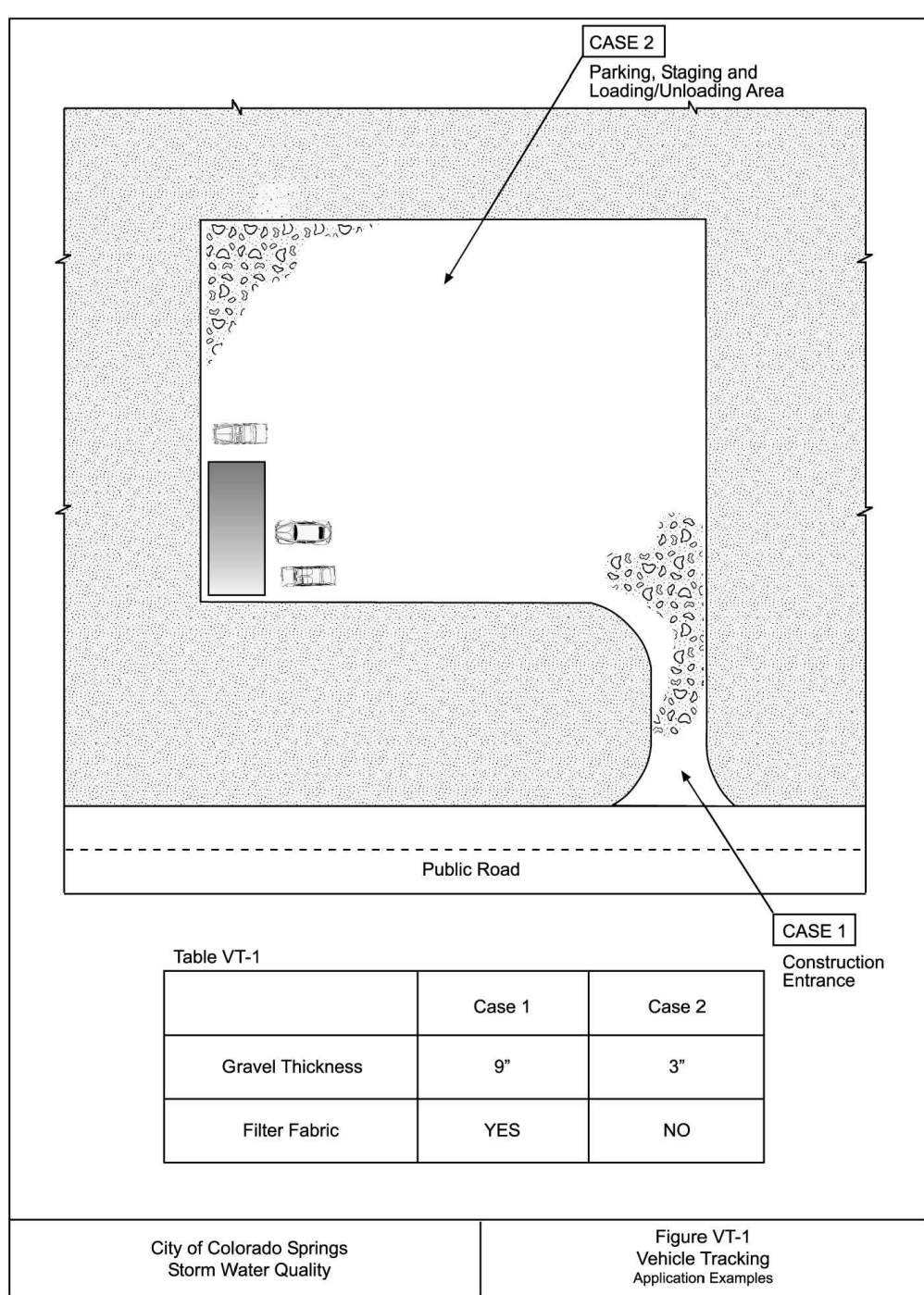




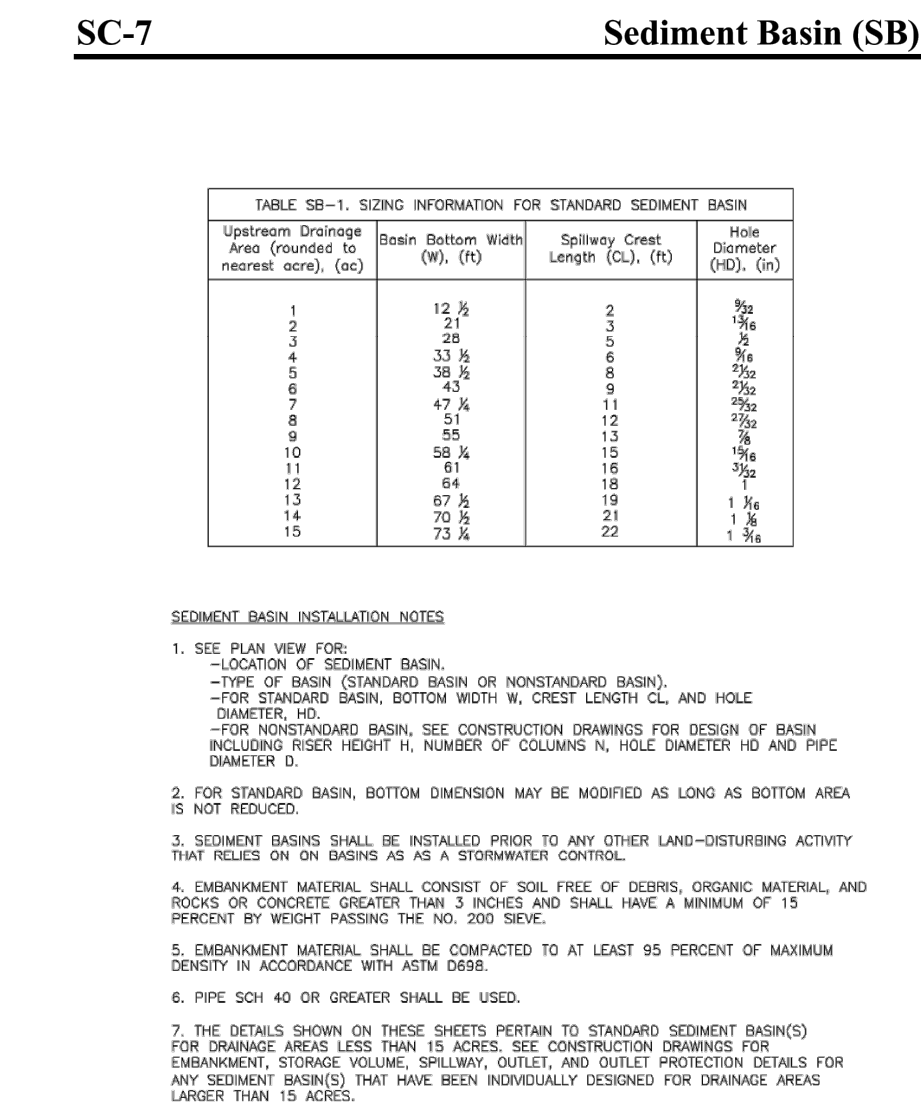
November 2010 Urban Drainage and Flood Control District SF-3
Urban Storm Drainage Criteria Manual Volume 3



August 2013
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
SB-5

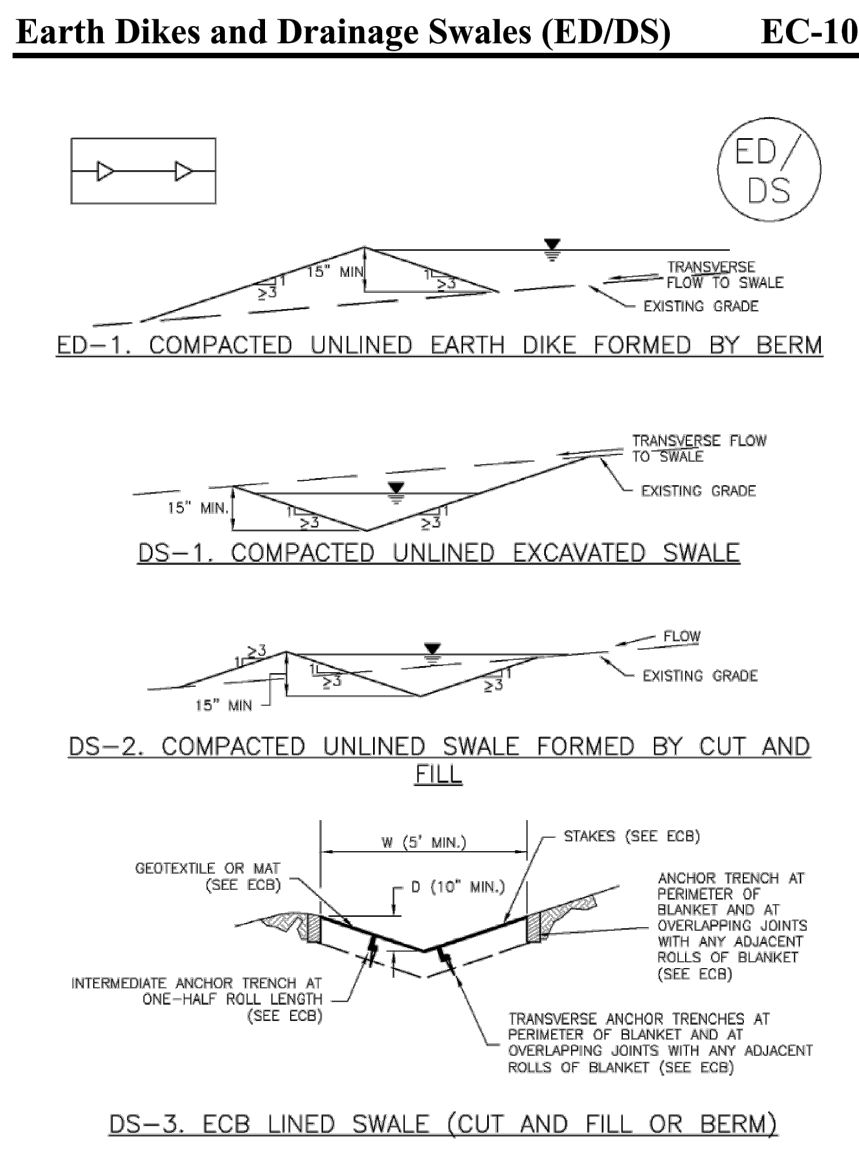
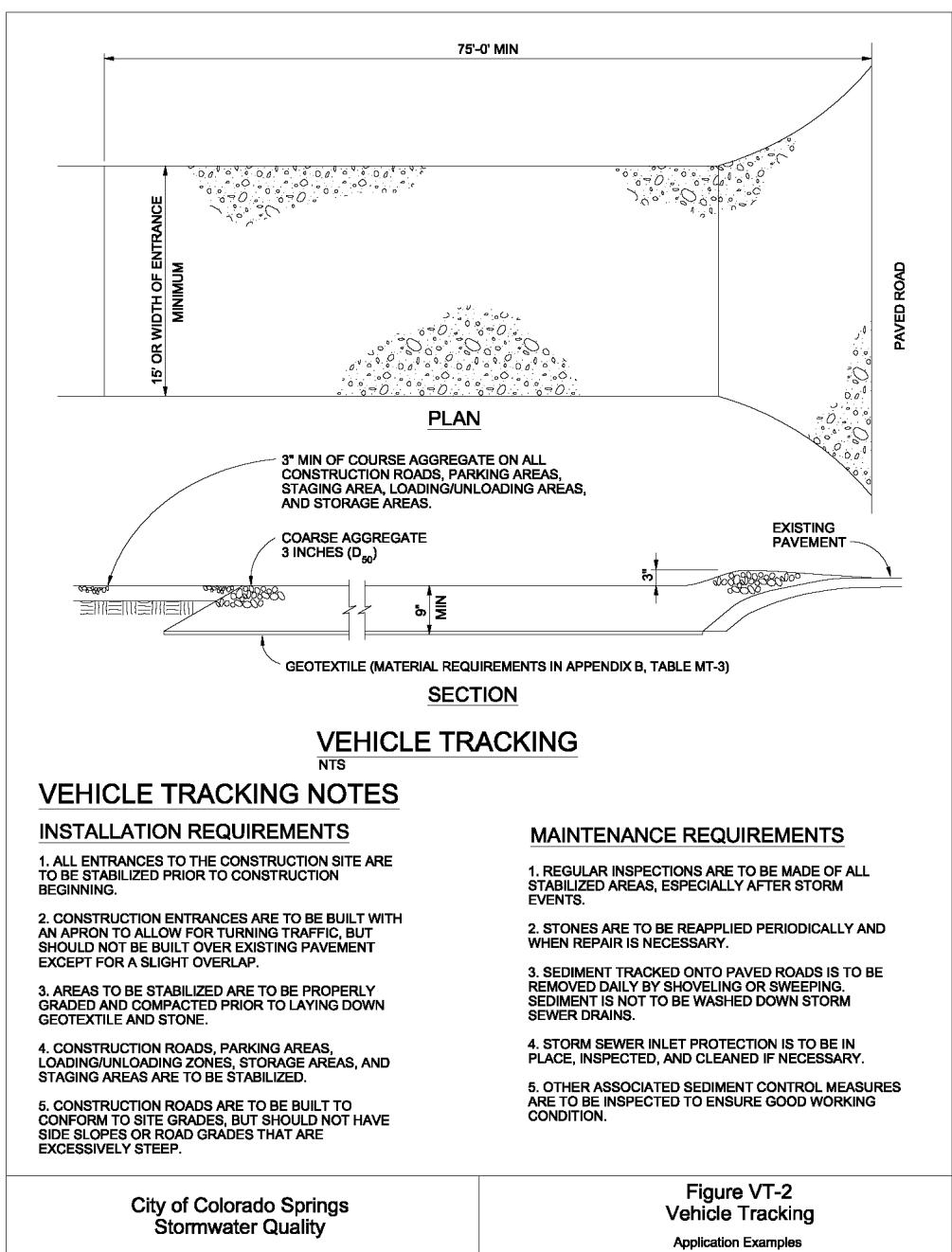


SF-4 Urban Drainage and Flood Control District November 2010
 Urban Storm Drainage Criteria Manual Volume 3

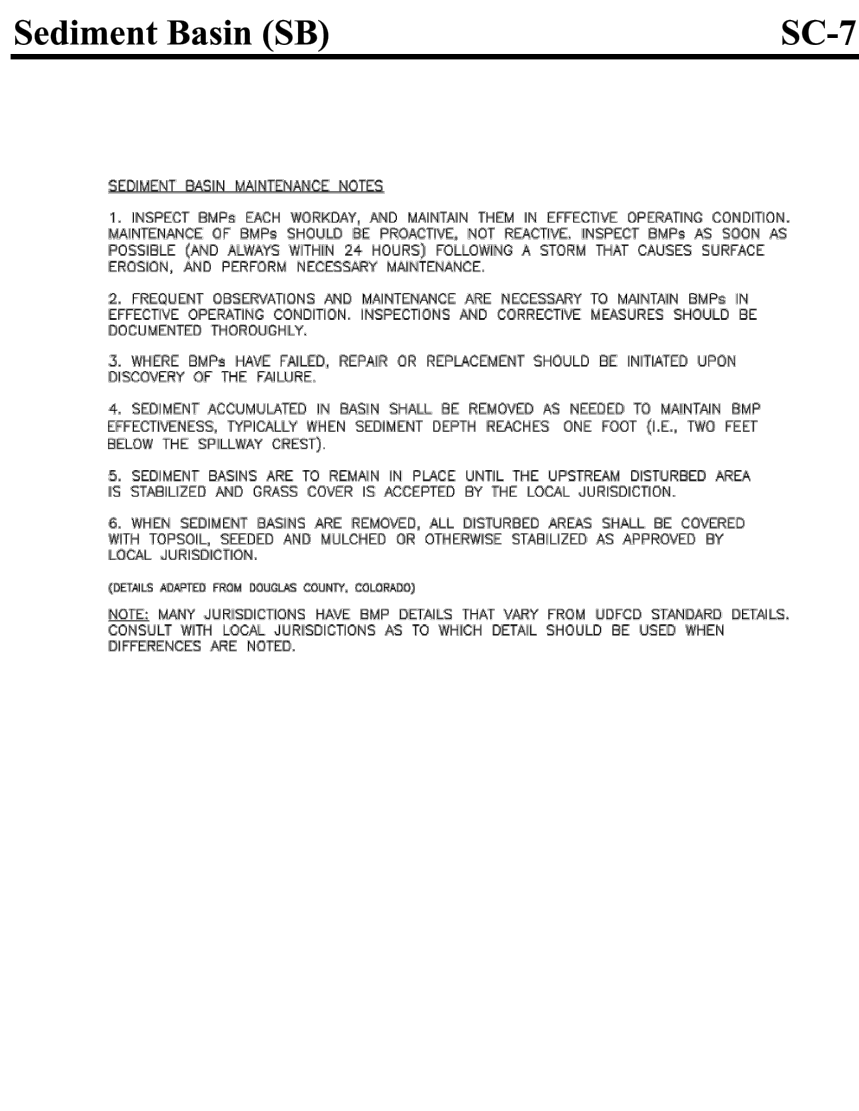


SB-6
Urban Drainage and Flood Control District
August 2013

Urban Storm Drainage Criteria Manual Volume 3

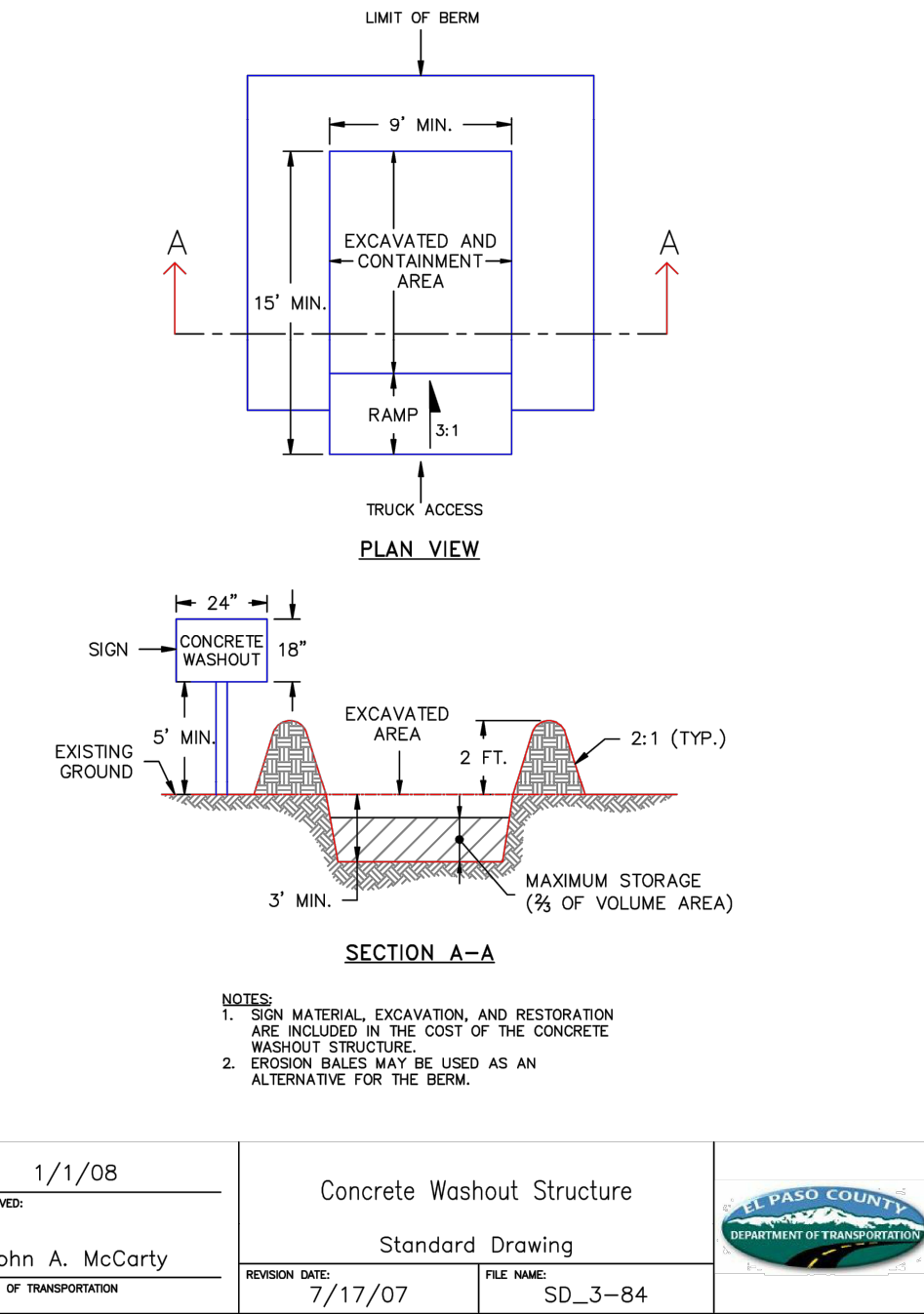


November 2010 Urban Drainage and Flood Control District ED/DS-3
Urban Storm Drainage Criteria Manual Volume 3



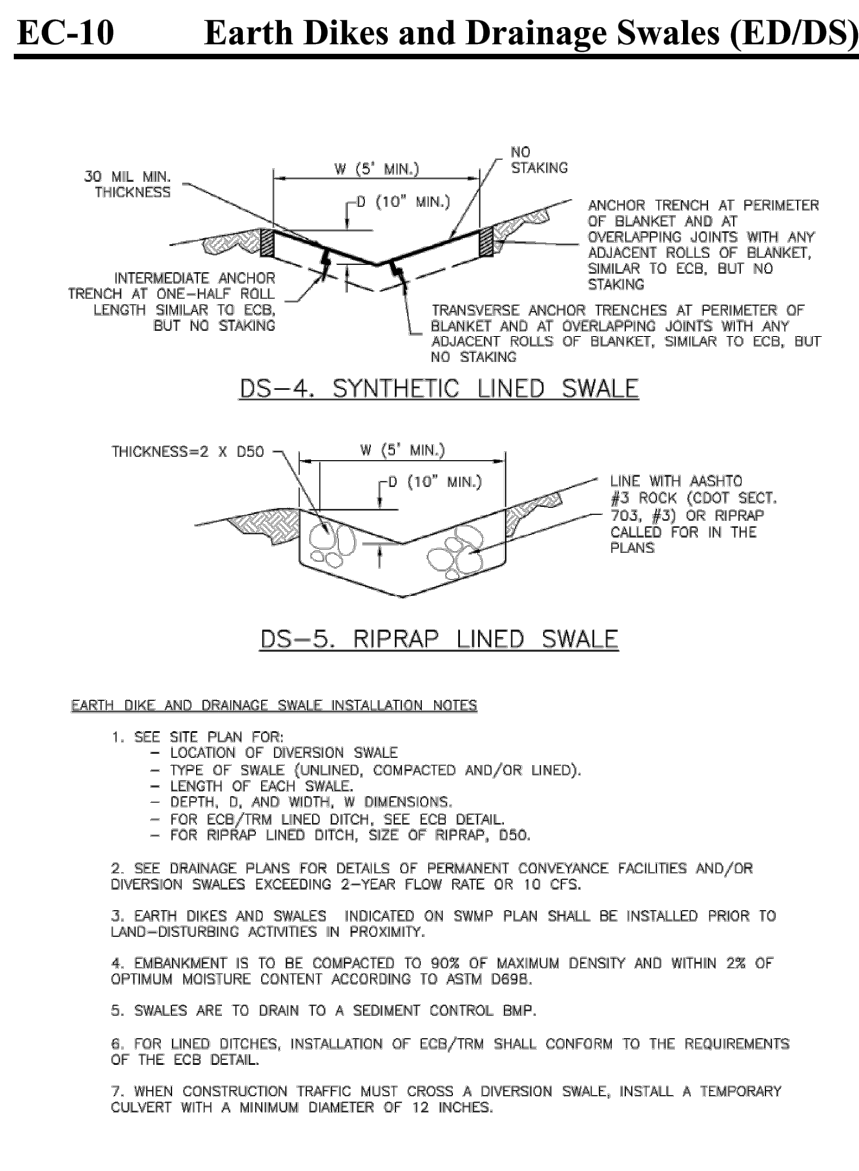
August 2013
Urban Drainage and Flood Control District
SB-7

Urban Storm Drainage Criteria Manual Volume 3

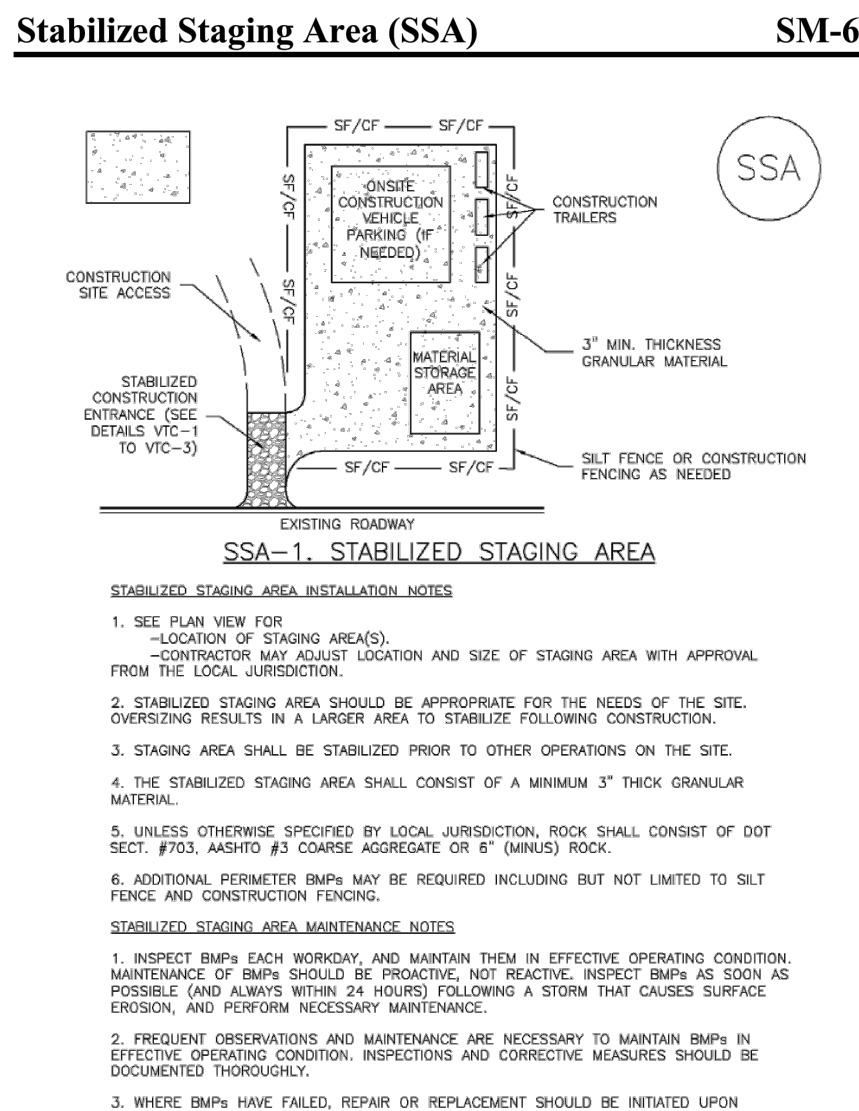


1/1/08
DATE APPROVED:
John A. McC
DEPARTMENT OF TRANSPORTATION

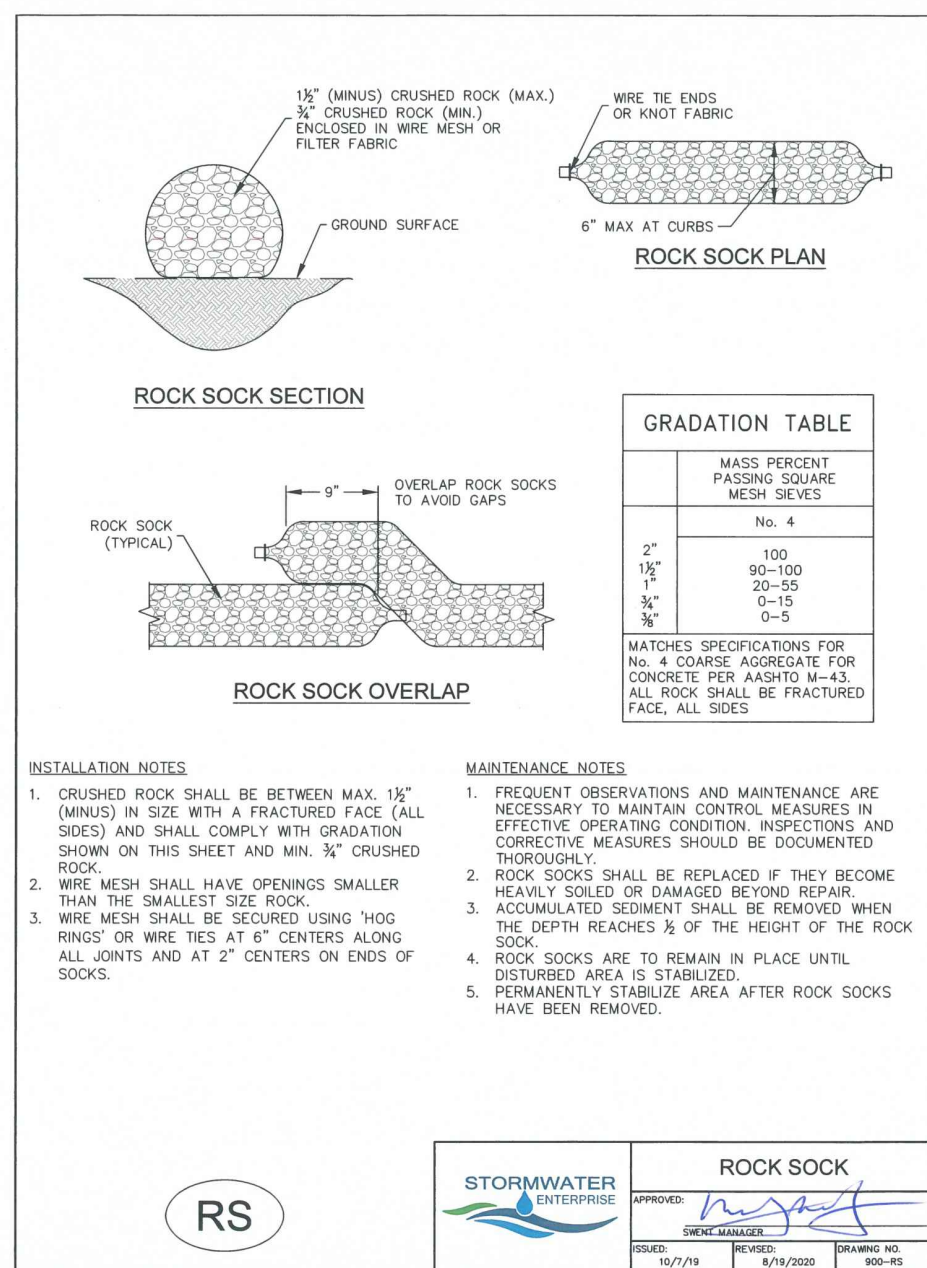
Concrete Washout Structure	
Standard Drawing	
DATE: 7/17/07	FILE NAME: SD 3-8



ED/DS-4	Urban Drainage and Flood Control District	November 2010
	Urban Storm Drainage Criteria Manual Volume 3	



November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
SSA-3





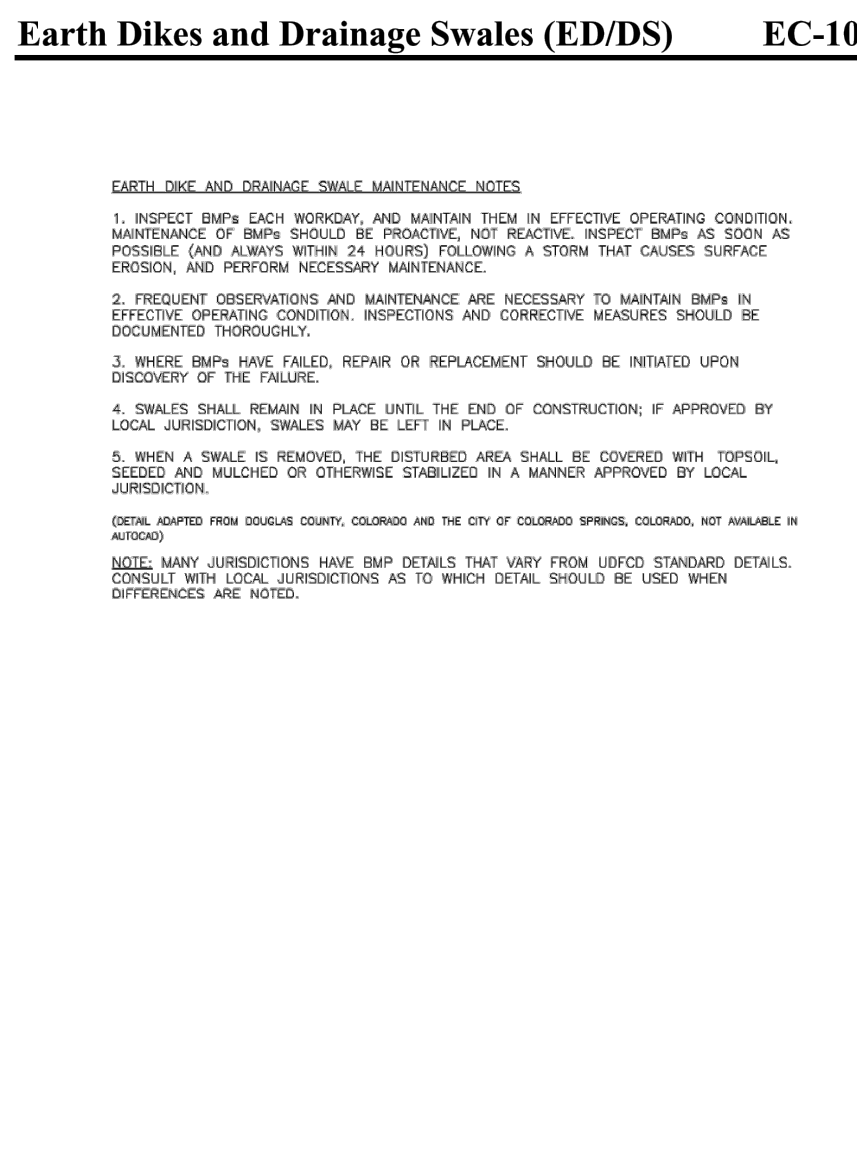
INSTALLATION NOTES

1. CRUSHED ROCK (MINUS) IN SIZE (SIDES) AND SHAPE SHOWN ON THIS ROCK.
2. WIRE MESH SHALL BE SMALLER THAN THE SMALL
3. WIRE MESH SHALL BE RINGS' OR WIRE ALL JOINTS AND SOCKS.

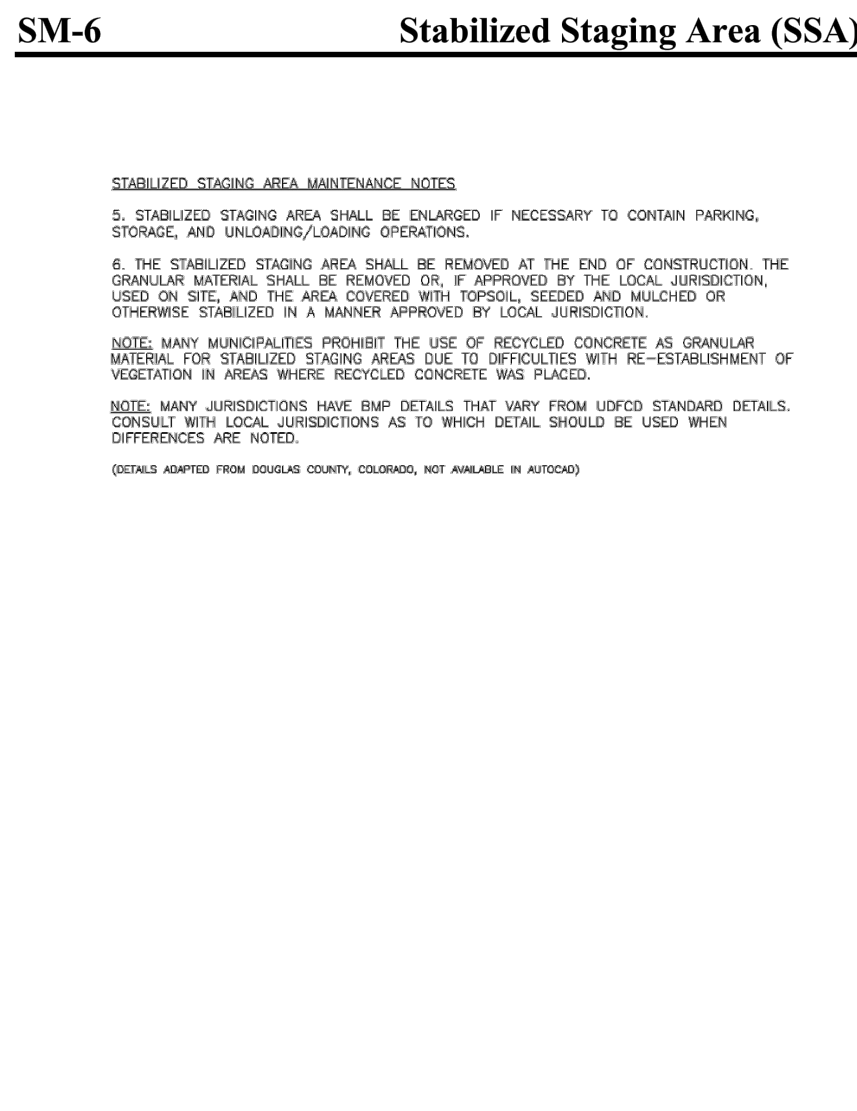
MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN THE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED BEYOND REPAIR.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE DEPTH REACHES $\frac{1}{2}$ OF THE HEIGHT OF THE SOCK.
4. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL DISTURBED AREA IS STABILIZED.

	<h1 style="text-align: center;">ROCK SOCK</h1>		
	APPROVED: 		
	DREW MANAGER		
ISSUED:	REVISED:	DRAWING NO.	



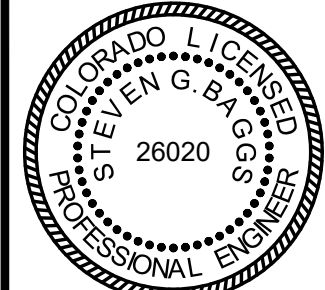
November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
ED/DS-5



SSA-4	Urban Drainage and Flood Control District	November 2010
	Urban Storm Drainage Criteria Manual Volume 3	

REVISION	DESCRIPTION	PREPARED BY	DATE	DESIGNED BY
	REVISED PER COUNTY COMMENTS	SPC	09/09/2022	SPC
				SPC
				DESIGNED BY
				SGB

CASTLE ROCK CONSTRUCTION COMPANY
INCORPORATED
EL PASO, TEXAS
GRADING AND EROSION CONTROL PLAN
ROCK CREEK CANYON BATCH SITE - 710 ROCK CREEK CANYON RD
DETAILS



FOR AND ON BEHALF OF BASELINE CORPORATION		
INITIAL SUBMITTAL	07/12/22	
DRAWING SIZE	24" X 36"	
SURVEY FIRM UNKNOWN	SURVEY DATA	
JOB NO.	35059	
DRAWING NAME GEC2-5 Batch.dwg		
SHEET	5	OF 5
GEC5		