

SP-24XX

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Job No. 1183.33

Qualified Stormwater Manager:

Contractor:



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STORMWATER MANAGEMENT PLAN FOR STERLING RANCH EAST FILING NO. 3

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 City of Colorado Springs El Paso County Drainage Criteria Manual, Volume 2 – Stormwater Quality Policies, Procedures and Best Management Practices as amended by the ECM. 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 City/County Manual will prevail.



TABLE OF CONTENTS

	SIT	TE DESCRIPTION	4
	•	RECEIVING WATER(S)	5
	•	PROPOSED CONSTRUCTION ACTIVITY	5
	•	PROPOSED SEQUENCE OF ACTIVITIES/ CONSTRUCTION TIMING	5
	•	EROSION & SEDIMENT CONTROL	6
	•	DEVELOPMENT AREA	8
	•	SOILS INFORMATION	7
	•	EXISTING SITE CONDITIONS.	7
	SIT	E MAP (See Appendix)	8
	ST	ORMWATER MANAGEMENT CONTROLS	8
	•	QUALIFIED STORMWATER MANAGER	8
	•	POTENTIAL POLLUTANT SOURCES	9
	•	BMPS FOR POLLUTION PREVENTION	9
	•	BMP SELECTION	10
	•	MATERIAL HANDLING & SPILL PREVENTION	11
	•	CONCRETE/ASPHALT BATCH PLANTS	11
	•	WASTE MANAGEMENT & DISPOSAL INCLUDING CONCRETE WASHOUT	11
	•	DOCUMENTING SELECTED BMPS	12
	•	NON-STORMWATER DISCHARGES	12
	•	STORMWATER DEWATERING	12
	•	REVISING BMPS AND THE SWMP	12
	FIN	AL STABILIZATION AND LONG-TERM STORMWATER MGMT	13
\triangleright	INS	SPECTION AND MAINTENANCE PROCEDURES	14
	•	SWMP MANAGER INSPECTION PROCEDURES & SCHEDULES	14
	•	BMP MAINTENANCE/REPLACEMENT & FAILED BMPS	15
	•	RECORD KEEPING AND DOCUMENTING INSPECTIONS	15
۶	ER	OSION CONTROL COST OPINION	16

APPENDIX

VICINITY MAP COPY OF GENERAL PERMIT APPLICATION CONTRACTOR SEQUENCE OF ACTIVITIES OPERATION & MAINTENANCE INSPECTION RECORD STANDARD BMP DETAILS w/ INSTALLATION & MAINTENANCE REQUIREMENTS



SITE DESCRIPTION

Sterling Ranch East Filing No. 3 has a total acreage of 74.745 acres located in Sections 33 and 34, Township 12 South, Range 65 West of the Sixth Principal Meridian in the County of El Paso, and State of Colorado. This site is bounded on the north by Sterling Ranch Road, east by unplatted future residential development within the Sterling Ranch Sketch Plan, west by existing Sand Creek and south by large lot residential properties (RR-5 zoning). The majority of the property is zoned RS-5000 with just the south edge zoned RR-0.5. 187 urban single family residential lots and associated public roadway are planned within this plat. Overlot grading will take place for the proposed urban lots, roadways and pond.

This property is located in the upper portion of the Sand Creek Drainage Basin. Based on a field investigation, the property contains approximately 80% ground cover made up of primarily field grasses, weeds, cacti and yuccas, with no trees on-site. However, a good portion of the site has been disturbed by underground utility installations, utility easements, gravel access roads, material borrow areas and associated haul roads. The Natural Resource Conservation Service has mapped the general soil type as coarse sandy loam. More specifically described as Type 71 - Pring Coarse Sandy Loam, Type 8 - Blakeland loamy sand and Type – 19 Columbine gravelly sandy loam with 3 to 5% slopes. The soils have generally been described to have moderate to moderately rapid permeabilities. Possible hazards with soil erosion are present on-site but can be controlled with vegetation. The majority of the soils have been described to have slight to moderate erosion hazards. (Reference: taken from Soils Report prepared by Entech Engineering, October 2024)

The entire site currently drains as sheet flow in a southerly direction. The total disturbance area encompasses nearly the entire site as shown on the Grading and Erosion Control Plan other than the future school site and totals approximately 56.7 ac. No springs, landscape irrigation return flows or construction dewatering is anticipated within the limits of construction 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)	24" RCP outfall from the on-site EDB into existing Sand Creek Channel (Reach SC-8)
Discuss discharge connection to Municipal system (include system name, location, and ultimate receiving water(s):	This site is tributary to the proposed FSD-11B that outfalls through a proposed 24" RCP private storm outfall from this facility directly into Sand Creek and ultimately to (Fountain Creek)

PROPOSED CONSTRUCTION ACTIVITY

Proposed construction activities within this project include grading of the proposed lots, roadways, stormwater quality facility and utility/road installation for the construction of single-family homes. See "Final Stabilization and Long-term Storm-water Management" section below for final stabilization activities.

PROPOSED SEQUENCE OF ACTIVITY/CONSTRUCTION TIMING

Proposed construction activities within this project include overlot grading and utility/road construction for the proposed residential subdivision. Sequence of activities will be based upon site contractor timing and scheduling. Upon site contractor selection, contractor 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:

1) Install perimeter, interior & exterior BMPs (Immediately upon plan approval/permitting – Spring

2025) <u>– Initial Phase</u>

2) Clear and grub site for grading of the proposed lots, roadways and BMP areas (After installation

- of perimeter BMPs Spring 2025) Initial Phase
- 3) Excavation & installation of utilities (Fall 2025) Interim Phase
- 4) Curb & gutter and Paving within the urban roadways (Fall 2025) Interim Phase
- 5) Homebuilding construction. (Fall 2025 thru 2026) Final Phase



The anticipated start and completion time period for site grading operations is to start in Spring 2025 with site final site stabilization by Spring 2026. This time schedule could vary depending on individual home sales 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. 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 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 revegetated. Vegetation and 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>74.75</u> Acres
Initial Site area to be disturbed	<u>56.7</u> Acres for lots/roads/BMP const
Percent disturbance	<u>75.9</u> %

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

• SOILS INFORMATION

The average soil condition reflects Hydrologic Group "B" (Type 71 - Pring coarse sandy loam and Group "A" (Type 19 – Columbine gravelly sandy loam and Type 8 – Blakeland loamy sand), as determined by the "Soil Survey of El Paso County Area," prepared by the Soil Conservation Service.



The soils have been described to have rapid permeabilities and well suited for homesites. There are possible moderate hazards with soils erosion but able to be controlled by vegetation. Permissible velocities of 4 to 7 ft/sec. allowed with re-established vegetation. Synthetic channel lining materials or small check dams may be utilized if velocities are anticipated to exceed these values. Based upon the current proposed development of this site, the following 100-year runoff coefficients would be realized:

Existing site runoff coefficient =	=35
Developed site runoff coefficient	= <u>.55</u> lots and yard areas
Percent disturbance	= <u>.90</u> driveway / paved areas

EXISTING SITE CONDITIONS

This property is located in the upper portion of the Sand Creek Drainage Basin. Based on a field investigation, the property contains approximately 80% ground cover made up of primarily field grasses, weeds, cacti and yuccas, with no trees on-site. However, a good portion of the site has been disturbed by underground utility installations, utility easements, gravel access roads, material borrow areas and associated haul roads. Existing slopes range from approximately <u>3</u> to <u>4</u> percent. Reference the Site Description portion of this report for further site conditions.

SITE MAP

With approval of this report is the approved grading, erosion and stormwater quality control 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. Limits of disturbance, areas of cuts/fills, proposed stockpile areas, areas used for storage of materials, equipment, soil, or waste, batch plants, 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: house, shed and misc. structures, retaining walls, gas main, electric and telecom vaults and fences) will be represented on this plan. The site map will depict locations of specific interim and ultimate stormwater management BMPs throughout the lifetime of the project. Erosion control cost assurances must be posted to the county in the amount listed on Financial Assurance Estimate Form. The site map/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" and the El Paso County ECM for additional information and guidance regarding construction BMPs.

STORMWATER MANAGEMENT

• QUALIFIED STORMWATER MANAGER

The Qualified Stormwater Manager can be an individual(s), position, or title – this entity is responsible for developing, implementing, maintaining, and revising the SWMP. The Qualified Stormwater Manager is the contact for all SWMP related issues and is the entity responsible for its accuracy, completeness, and implementation. Therefore, the Qualified Stormwater Manager 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 Qualified Stormwater Manager of the SWMP. This individual will be sufficiently qualified for these duties per the ECM Appendix I.5.2.A.

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
- o Outdoor storage activities (building materials, utility piping and appurtenances, etc.)
- Vehicle and equipment maintenance and fueling
- Significant dust or particulate generating processes
- o On-site waste management practices (waste piles, liquid wastes, dumpsters)



- Concrete truck/equipment washing, including the concrete truck chute associated fixtures and equipment
- Non-industrial waste sources such as worker trash and portable toilets
- Other areas or procedures where potential spills can occur.

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

BMPS FOR POLLUTANT PREVENTION

The following are common practices to mitigate potential pollutants:

Structural Measures

- Sanitary facilities shall be placed at a minimum of 10' from any curbline and 50' from any inlet or state waters. They will be secured on all four corners to prevent overturning, cleaned on a weekly basis and inspected daily for spills. If not feasible for the project, use of a secondary containment shall be implemented.
- Equipment loading/unloading, fueling and Maintenance Services a designated loading/unloading and fueling area will be established to contain any spill resulting from loading/unloading, fueling, maintenance, or repair of equipment. Contractors will be responsible for containment, cleanup, and disposal of any leak or spill in this designated area and any costs associated with the cleanup and disposal.
- Concrete washout area will be established on site for all concrete truck/equipment washing.
 Contractor responsible for cleanup and maintenance of this area.
- Outdoor storage activities a designated storage area for all building materials, utility piping and appurtenances will be established and maintained by the contractors. Contractors responsible for all cleanup and containment of trash/debris in this area.
- Material stockpiles (soils, soil amendments, debris/trash piles) All construction trash and debris will be deposited in the dumpster. Dumpster inspected daily for leaks and capacity. Dumpster emptied on a weekly basis or when capacity exceeds the top of the dumpster.

Non-Structural Measures

 Chemical products shall be protected from precipitation, free from ground contact, and stored properly to prevent damage from equipment or vehicles.



- Wind erosion shall be controlled by sprinkling the site roadways with water and/or temporary stabilizing stockpiles by spraying with water from water truck. Each dump truck hauling material from the site will be required to be covered with a tarpaulin.
- Sediment and Migration of Sediment Sweeping operations will take place as needed to keep roadways maintained. The perimeter of the site will be evaluated for any potential impact resulting from trucking operations or sediment migration from the site. Vehicle tracking controls will be placed and daily maintained at each entry/exit of site. BMP devices such as straw bale inlet protection and rock socks 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.)

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 City of Colorado Springs/El Paso County "Drainage Criteria Manual Volume 2".

The following structural BMPs will be used on this site:

During grading construction activity, silt fence will be installed per the approved plan in order to protect undisturbed areas. Sediment control logs will be installed along all roadways to minimize erosion in areas of concentrated stormwater. Prior to the installation of the storm piping, temporary sediment basins intended to collect stormwater and filter the sediment before conveyance further downstream. 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 driveway construction and until vegetation is reestablished to ensure proper function of the temporary sediment basin outlet structures.

The following non-structural BMPs are incorporated into the site design:

Subdivision design to capture and treat impervious areas in multiple existing and proposed stormwater quality facilities prior to release downstream.



Page 10

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 material handling/spill prevention plan, to be provided by the contractor. Material handling/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 can not discharge from the site and never into a storm sewer system or stream.
- Procedures for properly handling materials and cleanup, identification of material storage areas and associated BMPs such as silt fencing and straw waddles for containment with no discharge from the site will be provided to the Contractor.

• 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. However, no batch plants are planned for this site.

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. The concrete washout area will be located by the contractor and marked-up on the SWMP map kept on-site. Construction site waste disposal area will also be designated by the Contractor and documented on the SWMP map. Waste disposal bins shall be checked for leaks by Contractor on a daily basis and emptied immediately upon 75% capacity reached. Procedures for material handling/spill prevention provided as described above.



• 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 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

The SWMP permit covers only discharges composed entirely of stormwater and does not include the following: fire fighting activities, landscape irrigation return-flow and uncontaminated springs. However, none of the above non-stormwater discharges are anticipated for this site.

• 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 Dewatering 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 must be reviewed on an ongoing basis by the Qualified Stormwater Manager 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. 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 within 14 days. All areas that will not be impacted by construction of buildings 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. Rough cut street controls will be utilized in these areas to control erosion by minimizing concentration of flow and reducing runoff velocity.

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 and final stabilization has been achieved. 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. For purposes of the SWMP, establishment of a vegetative cover capable of providing erosion control equivalent to the pre-existing conditions at the site can be considered final stabilized.

Long term stormwater quality management and providing water quality capture volume (WQCV) is not required for a portion of this site per ECM I.7.1.B.5 (exclusion for large lot single family sites). However, as mentioned earlier, existing and proposed temporary sediment basins, a proposed rain garden and existing and proposed permanent EDB's are being provided to handle the required WQCV for the eastern portion of the site and the proposed impervious areas for the western portion of the site. For the minor areas that



are not able to be captured in these facilities, runoff reduction within the front and rear yard setbacks is planned and shown to provide 100% stormwater quality treatment.

This project does not rely on any control measures owned and operated by another entity outside of the overall Sterling Ranch Development.

INSPECTION AND MAINTENANCE PROCEDURES

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

SWMP QUALIFIED STORMWATER MANAGER INSPECTION PROCEDURES & SCHEDULES

The Qualified Stormwater Manager 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 hrs of each precipitation or snow melt 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 by the Qualified Stormwater Manager as part of the site inspections and kept in a notebook located on-site with the approved grading and erosion control plans:

- Inspection date
- Name(s) and title(s) and signature(s) of personnel making inspection
- 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
- o 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



EROSION CONTROL COST OPINION

ITEM	DESCRIPTION	QUANTITY	UNIT COST	СС	DST
1. 2. 3. 4. 5.	Permanent Seeding/Mulching Vehicle Tracking Control Silt Fence Straw Bale Concrete Washout	3 EACH 6,250 LF 134 EACH 1 EACH	\$2018/AC. \$3,085/EA \$3.00/LF \$33.00/EA \$1,172.00/EA	\$ \$ \$ \$ \$ \$	21,189.00 9,255.00 18,750.00 4,422.00 1,172.00
6. TOTAL	Inlet Protection Maintenance (35% of construe	19 EACH ction BMPs)	\$217.00/EA	\$ \$ \$	4,123.00 12,792.50 71,703.50

Classic Consulting Engineers & Surveyors cannot and does not guarantee that the construction cost will not vary from these opinions of probable construction costs. These opinions represent our best judgment as design professionals familiar with the construction industry and this development in particular.

PREPARED BY:

Classic Consulting Engineers & Surveyors, LLC

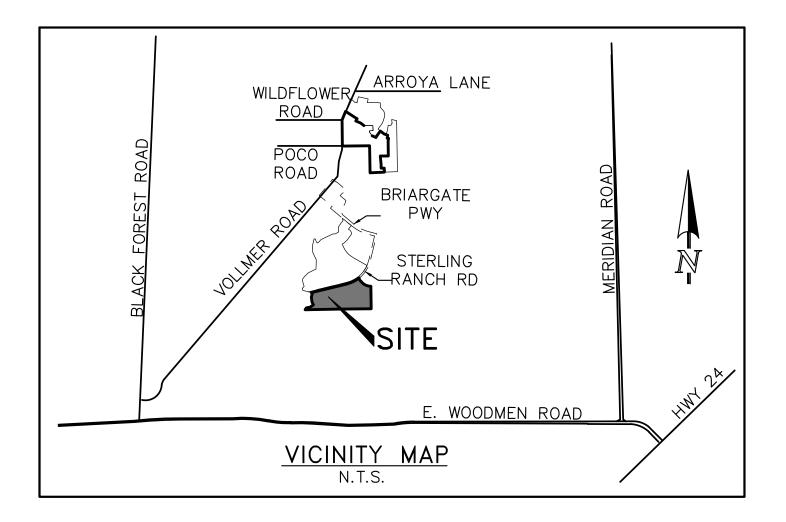
Marc A. Whorton, P.E.

Project Manager maw/118333/SWMP Report Vol2.doc



VICINITY MAP





COPY OF PERMIT APPLICATION

General permit application for stormwater discharges associated with construction activity.





COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT Water Quality Control Division



CDPS GENERAL PERMIT

STORMWATER DISCHARGES ASSOCIATED WITH

CONSTRUCTION ACTIVITY

AUTHORIZATION TO DISCHARGE UNDER THE

COLORADO DISCHARGE PERMIT SYSTEM (CDPS)

In compliance with the provisions of the Colorado Water Quality Control Act, (25-8-101 et seq., CRS, 1973 as amended) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq.; the "Act"), this permit authorizes the discharge of stormwater associated with construction activities (and specific allowable non-stormwater discharges in accordance with Part I.A.1. of the permit) certified under this permit, from those locations specified throughout the State of Colorado to specified waters of the State.

Such discharges shall be in accordance with the conditions of this permit. This permit specifically authorizes the facility listed on the certification to discharge in accordance with permit requirements and conditions set forth in Parts I and II hereof. All discharges authorized herein shall be consistent with the terms and conditions of this permit.

This permit becomes effective on April 1, 2019, and shall expire at midnight March 31, 2024.

Issued and signed this 1st day of November 2018.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Glebalkty

Ellen Howard Kutzer, Permits Section Manager Water Quality Control Division

<u>Permit History</u> Originally signed and issued October 31, 2018; effective April 1, 2019.

CONTRACTOR SEQUENCE OF ACTIVITIES



Project Phase	BMPs
	 Install sediment controls downgradient of access point (on paved streets this may consist of inlet protection).
Pre-	• Establish vehicle tracking control at entrances to paved streets. Fence as needed.
disturbance, Site Access	 Use construction fencing to define the boundaries of the project and limit access to areas of the site that are not to be disturbed.
	Note: it may be necessary to protect inlets in the general vicinity of the site, even if not downgradient, if there is a possibility that sediment tracked from the site could contribute to the inlets.
	 Install perimeter controls as needed on downgradient perimeter of site (silt fence, wattles, etc).
	 Limit disturbance to those areas planned for disturbance and protect undisturbed areas within the site (construction fence, flagging, etc).
	 Preserve vegetative buffer at site perimeter.
	 Create stabilized staging area.
	 Locate portable toilets on flat surfaces away from drainage paths. Stake in areas susceptible to high winds.
	 Construct concrete washout area and provide signage.
Site Clearing	 Establish waste disposal areas.
and Grubbing	 Install sediment basins.
	• Create dirt perimeter berms and/or brush barriers during grubbing and clearing.
	 Separate and stockpile topsoil, leave roughened and/or cover.
	 Protect stockpiles with perimeter control BMPs. Stockpiles should be located away from drainage paths and should be accessed from the upgradient side so that perimeter controls can remain in place on the downgradient side. Use erosion control blankets, temporary seeding, and/or mulch for stockpiles that will be inactive for an extended period.
	• Leave disturbed area of site in a roughened condition to limit erosion. Consider temporary revegetation for areas of the site that have been disturbed but that will be inactive for an extended period.
	• Water to minimize dust but not to the point that watering creates runoff.

Table CP-1. Typical Phased BMP Installation for Construction Projects

Project Phase	BMPs
	In Addition to the Above BMPs:
	• Close trench as soon as possible (generally at the end of the day).
Utility And	• Use rough-cut street control or apply road base for streets that will not be promptly paved.
Infrastructure Installation	 Provide inlet protection as streets are paved and inlets are constructed.
	 Protect and repair BMPs, as necessary.
	 Perform street sweeping as needed.
	In Addition to the Above BMPs:
Building	 Implement materials management and good housekeeping practices for home building activities.
Construction	• Use perimeter controls for temporary stockpiles from foundation excavations.
	 For lots adjacent to streets, lot-line perimeter controls may be necessary at the back of curb.
	In Addition to the Above BMPs:
Final Grading	Remove excess or waste materials.
	Remove stored materials.
	In Addition to the Above BMPs:
Final	 Seed and mulch/tackify.
Stabilization	 Seed and install blankets on steep slopes.
	• Remove all temporary BMPs when site has reached final stabilization.

COLORADO DISCHARGE PERMIT

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.



CONSTRUCTION STORMWATER SITE INSPECTION REPORT

Facility Name		Permittee			
Date of Inspection		Weather Conditions			
Permit Certification #		Disturbed Acreage			
Phase of Construction		Inspector Title			
Inspector Name					
	ualified stormwater manager?			YES	NO
(permittee is responsible for ensuring that the inspector is a qualified stormwater manager)					

INSPECTION FREQUENCY

Check the box that describes the minimum inspection frequency utilized when conducting each inspection				
At least one inspection every 7 calendar days				
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				
 This is this a post-storm event inspection. Event Date: 				
Reduced inspection frequency - Include site conditions that warrant reduced inspection frequency				
 Post-storm inspections at temporarily idle sites 				
 Inspections at completed sites/area 				
Winter conditions exclusion				
Have there been any deviations from the minimum inspection schedule?	YES NO			
If yes, describe below.				

INSPECTION REQUIREMENTS*

 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			
All disturbed areas			
Designated haul routes			
Material and waste storage areas exposed to precipitation			
Locations where stormwater has the potential to discharge offsite			
Locations where vehicles exit the site			
Other:			

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	
Are there control measures requiring maintenance?			If "YES" document below

Date Observed	Location	Control Measure	Maintenance Required	Date Completed

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	
Are there inadequate control measures requiring corrective action?			If "YES" document below

Are there additional control measures needed that were not in place at the time of inspection?	NO	YES	
			If "YES" document below

Date Discovered	Location	Description of Inadequate Control Measure	Description of Corrective Action	Was deficiency corrected when discovered? YES/NO if "NO" provide reason and schedule to correct	Date Corrected

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)
This category would primarily result from the discharge of pollutants in violation of the permit
b. Numeric Effluent Limit Violations
 Circumstances leading to any unanticipated bypass which exceeds any effluent limitations (See Part II.L.6.b of the Permit)
o 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)
Numeric effluent limits are very uncommon in certifications under the COR400000 general permit. This category of noncompliance only applies if
Wanter to ender thinks are very ancommon in certifications and in the convocood general permit. This category of honcomphance only appres h

numeric effluent limits are included in a permit certification.

Has there been an incident of noncompliance requiring 24-hour notification?	

NO	YES	
		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	

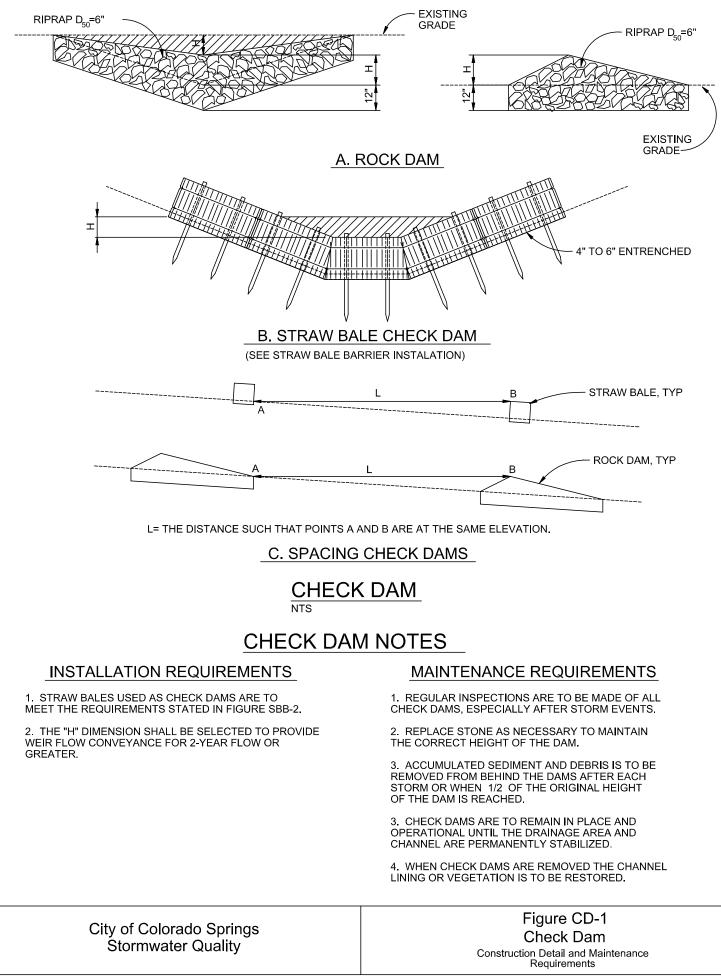
COMPLETED OPERATION AND MAINTENANCE INSPECTION RECORDS

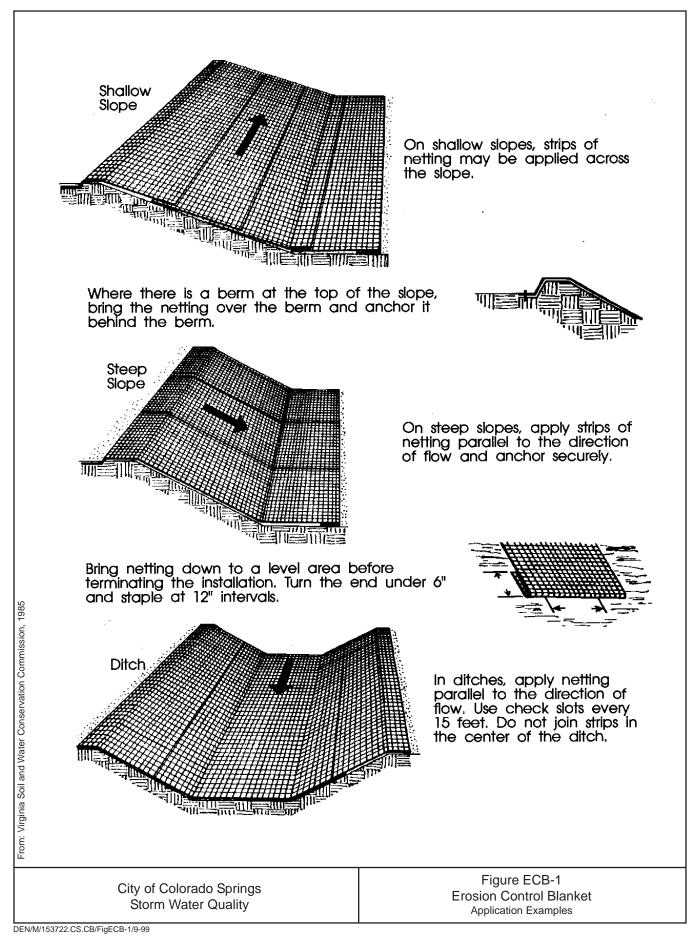


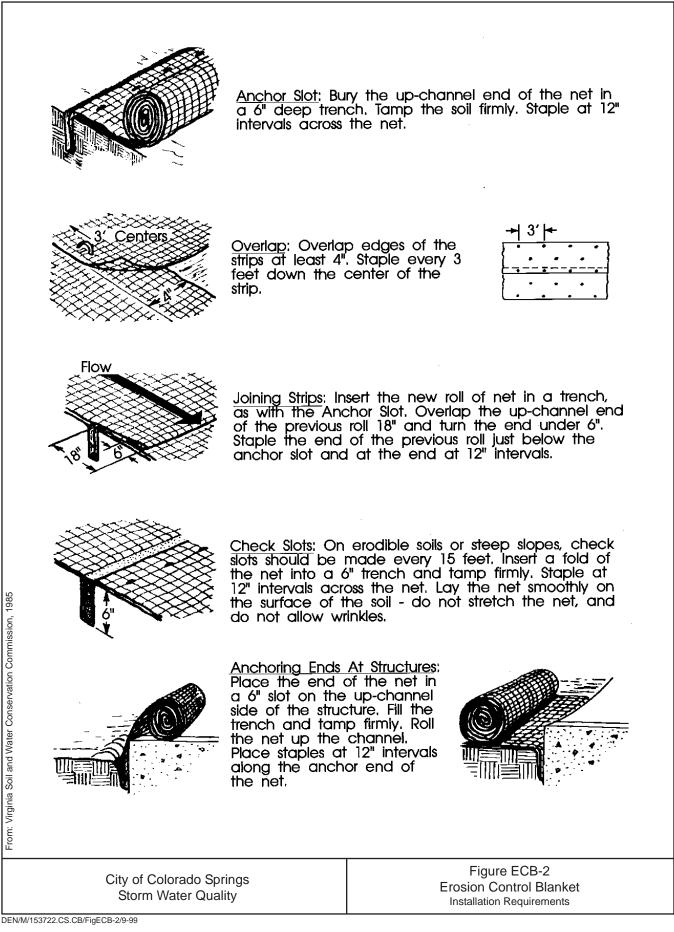
STANDARD BMP DETAILS

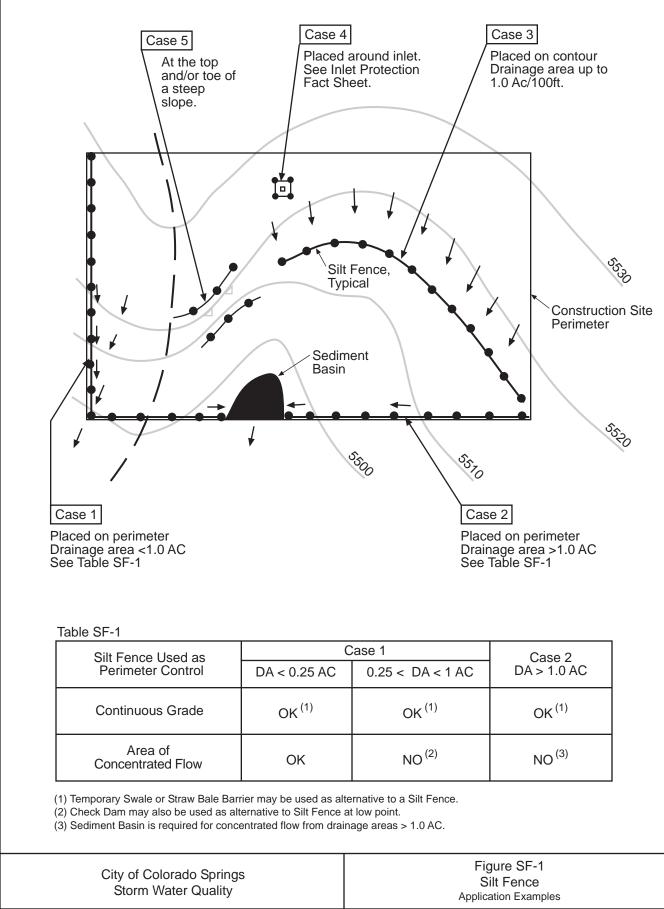
W/ INSTALLATION AND MAINTENANCE REQUIREMENTS



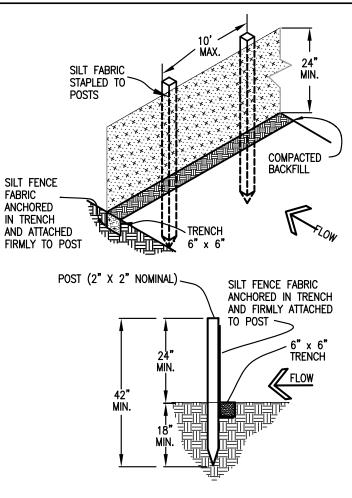








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SILT FENCE

SILT FENCE NOTES

INSTALLATION REQUIREMENTS

1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.

3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.

4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.

5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.

City of Colorado Springs Stormwater Quality

6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE, A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.

7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

MAINTENANCE REQUIREMENTS

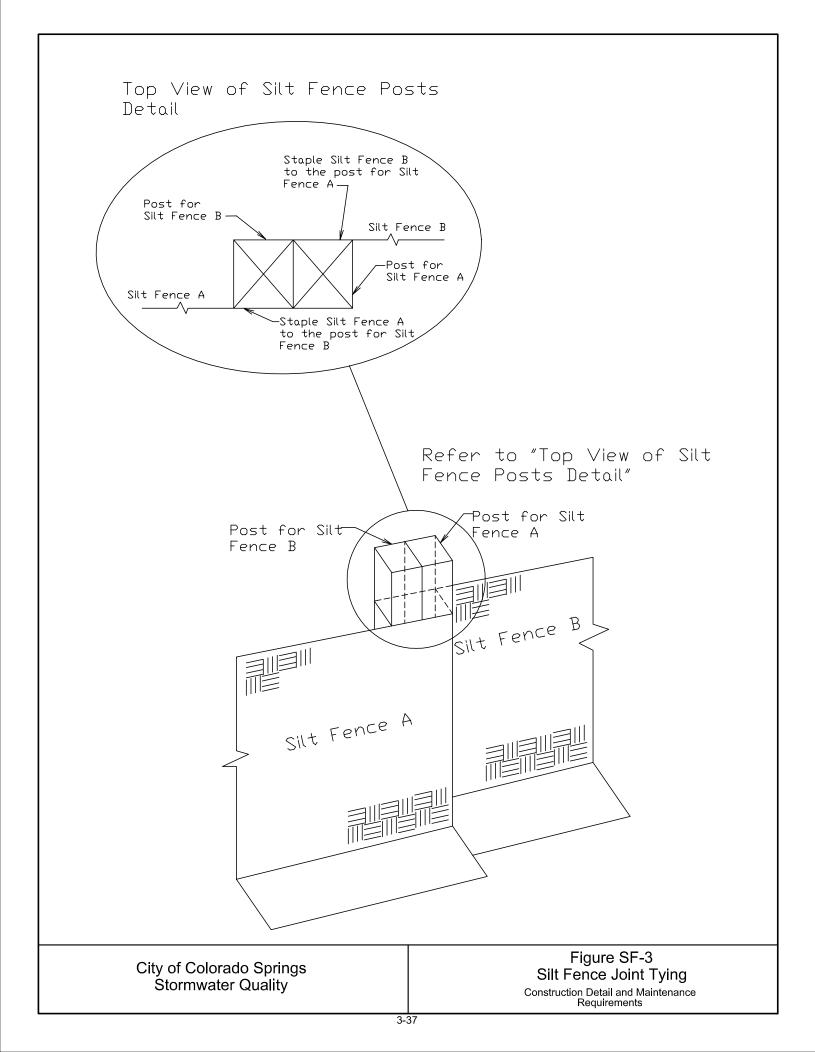
1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.

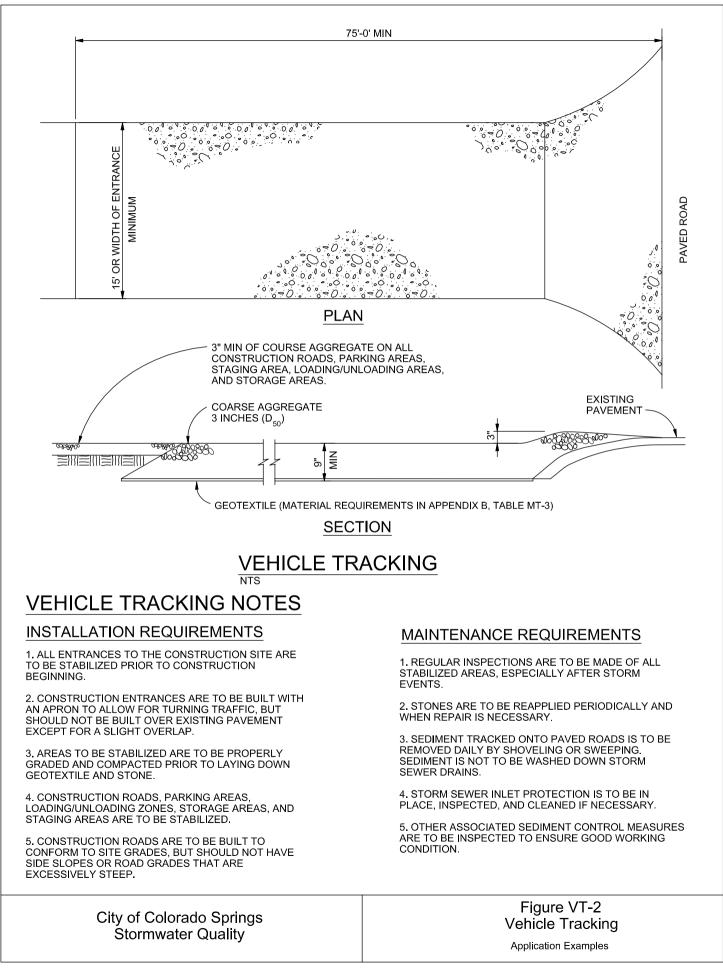
2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.

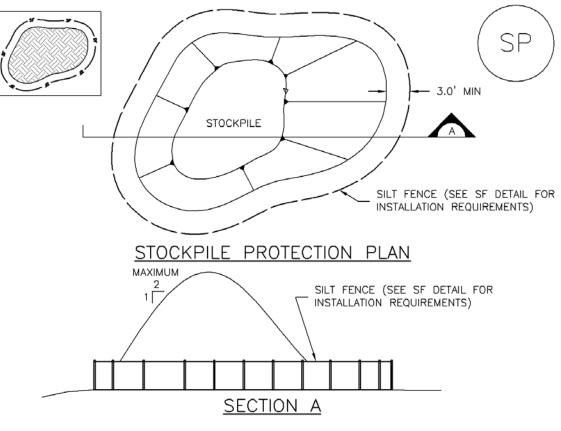
3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

> Silt Fence Construction Detail and Maintenance Requirements

Figure SF-2







<u>SP-1. STOCKPILE PROTECTION</u>

STOCKPILE PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION OF STOCKPILES. -TYPE OF STOCKPILE PROTECTION.

2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.

3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).

4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

STOCKPILE PROTECTION 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.

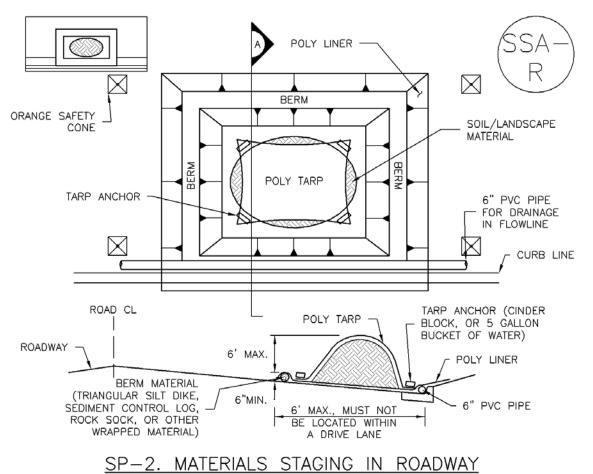
STOCKPILE PROTECTION MAINTENANCE NOTES

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.

5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

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



MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR
 - -LOCATION OF MATERIAL STAGING AREA(S).

-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.

3. MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.

4. POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.

5. SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BASE LINER.

6. FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DEMOLITION MATERIALS.

7. THIS FEATURE CAN BE USED FOR:

-UTILITY REPAIRS.

-WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED.

-OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

MATERIALS STAGING IN ROADWAY 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. INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.

5. CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

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

(DETAILS ADAPTED FROM AURORA, COLORADO)

Description

Inlet protection consists of permeable barriers installed around an inlet to filter runoff and remove sediment prior to entering a storm drain inlet. Inlet protection can be constructed from rock socks, sediment control logs, silt fence, block and rock socks, or other materials approved by the local jurisdiction. Area inlets can also be protected by over-excavating around the inlet to form a sediment trap.

Appropriate Uses

Install protection at storm sewer inlets that are operable during construction. Consider the potential for tracked-out



Photograph IP-1. Inlet protection for a curb opening inlet.

sediment or temporary stockpile areas to contribute sediment to inlets when determining which inlets must be protected. This may include inlets in the general proximity of the construction area, not limited to downgradient inlets. Inlet protection is <u>not</u> a stand-alone BMP and should be used in conjunction with other upgradient BMPs.

Design and Installation

To function effectively, inlet protection measures must be installed to ensure that flows do not bypass the inlet protection and enter the storm drain without treatment. However, designs must also enable the inlet to function without completely blocking flows into the inlet in a manner that causes localized flooding. When selecting the type of inlet protection, consider factors such as type of inlet (e.g., curb or area, sump or on-grade conditions), traffic, anticipated flows, ability to secure the BMP properly, safety and other site-specific conditions. For example, block and rock socks will be better suited to a curb and gutter along a roadway, as opposed to silt fence or sediment control logs, which cannot be properly secured in a curb and gutter setting, but are effective area inlet protection measures.

Several inlet protection designs are provided in the Design Details. Additionally, a variety of proprietary products are available for inlet protection that may be approved for use by local governments. If proprietary products are used, design details and installation procedures from the manufacturer must be followed. Regardless of the type of inlet protection selected, inlet protection is most effective when combined with other BMPs such as curb socks and check dams. Inlet protection is often the last barrier before runoff enters the storm sewer or receiving water.

Design details with notes are provided for these forms of inlet protection:

- IP-1. Block and Rock Sock Inlet Protection for Sump or On-grade Inlets
- IP-2. Curb (Rock) Socks Upstream of Inlet Protection, On-grade Inlets

Inlet Protection (various forms)				
Functions				
Erosion Control	No			
Sediment Control	Yes			
Site/Material Management	No			

IP-3. Rock Sock Inlet Protection for Sump/Area Inlet

IP-4. Silt Fence Inlet Protection for Sump/Area Inlet

- IP-5. Over-excavation Inlet Protection
- IP-6. Straw Bale Inlet Protection for Sump/Area Inlet
- CIP-1. Culvert Inlet Protection

Propriety inlet protection devices should be installed in accordance with manufacturer specifications.

More information is provided below on selecting inlet protection for sump and on-grade locations.

Inlets Located in a Sump

When applying inlet protection in sump conditions, it is important that the inlet continue to function during larger runoff events. For curb inlets, the maximum height of the protective barrier should be lower than the top of the curb opening to allow overflow into the inlet during larger storms without excessive localized flooding. If the inlet protection height is greater than the curb elevation, particularly if the filter becomes clogged with sediment, runoff will not enter the inlet and may bypass it, possibly causing localized flooding, public safety issues, and downstream erosion and damage from bypassed flows.

Area inlets located in a sump setting can be protected through the use of silt fence, concrete block and rock socks (on paved surfaces), sediment control logs/straw wattles embedded in the adjacent soil and stacked around the area inlet (on pervious surfaces), over-excavation around the inlet, and proprietary products providing equivalent functions.

Inlets Located on a Slope

For curb and gutter inlets on paved sloping streets, block and rock sock inlet protection is recommended in conjunction with curb socks in the gutter leading to the inlet. For inlets located along unpaved roads, also see the Check Dam Fact Sheet.

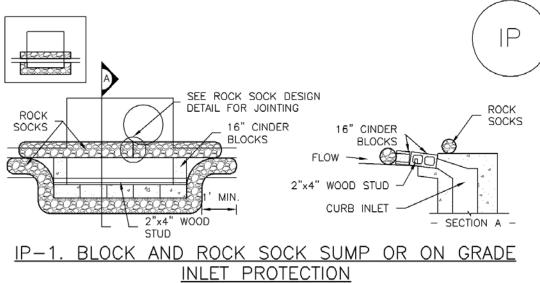
Maintenance and Removal

Inspect inlet protection frequently. Inspection and maintenance guidance includes:

- Inspect for tears that can result in sediment directly entering the inlet, as well as result in the contents of the BMP (e.g., gravel) washing into the inlet.
- Check for improper installation resulting in untreated flows bypassing the BMP and directly entering the inlet or bypassing to an unprotected downstream inlet. For example, silt fence that has not been properly trenched around the inlet can result in flows under the silt fence and directly into the inlet.
- Look for displaced BMPs that are no longer protecting the inlet. Displacement may occur following larger storm events that wash away or reposition the inlet protection. Traffic or equipment may also crush or displace the BMP.
- Monitor sediment accumulation upgradient of the inlet protection.

- Remove sediment accumulation from the area upstream of the inlet protection, as needed to maintain BMP effectiveness, typically when it reaches no more than half the storage capacity of the inlet protection. For silt fence, remove sediment when it accumulates to a depth of no more than 6 inches. Remove sediment accumulation from the area upstream of the inlet protection as needed to maintain the functionality of the BMP.
- Propriety inlet protection devices should be inspected and maintained in accordance with manufacturer specifications. If proprietary inlet insert devices are used, sediment should be removed in a timely manner to prevent devices from breaking and spilling sediment into the storm drain.

Inlet protection must be removed and properly disposed of when the drainage area for the inlet has reached final stabilization.

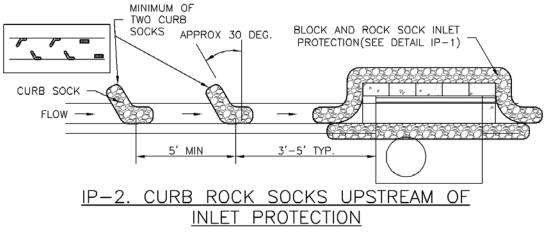


BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.

3. GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.

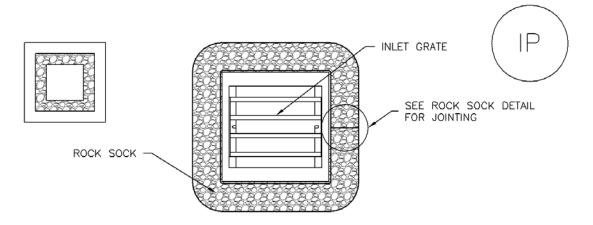


CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.

2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.

- 3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
- 4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.



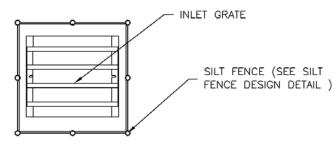
IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SUCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.





IP-4. SILT FENCE FOR SUMP INLET PROTECTION

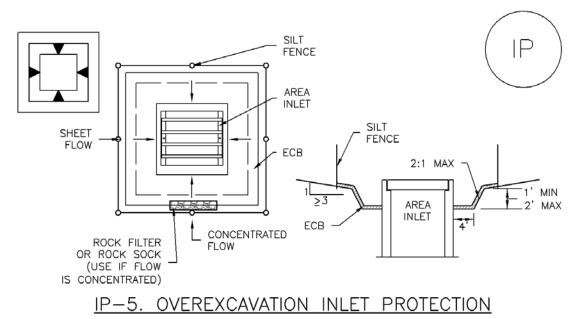
SILT FENCE INLET PROTECTION INSTALLATION NOTES

1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.

3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



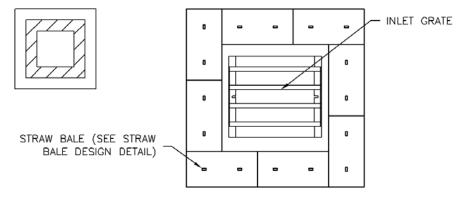


OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.

2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.

3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVEREXCAVATED AREA.

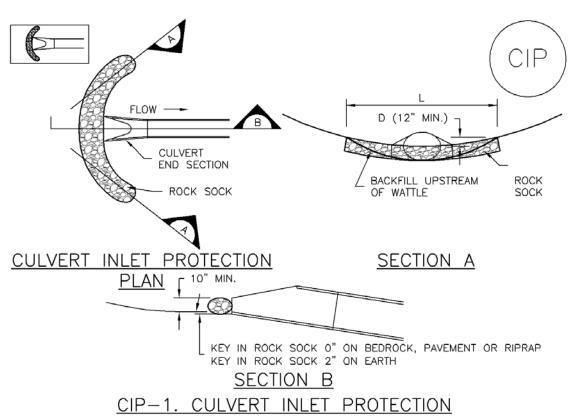


IP-6. STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES

1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ABUTTING ONE ANOTHER.



CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR

-LOCATION OF CULVERT INLET PROTECTION.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

CULVERT INLET PROTECTION 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 THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS $\frac{1}{2}$ THE HEIGHT OF THE ROCK SOCK.

5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

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

GENERAL INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION OF INLET PROTECTION. -TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)

2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.

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

INLET PROTECTION 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 INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR ¼ OF THE HEIGHT FOR STRAW BALES.

5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.

6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

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

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

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

SITE MAP/ GRADING, EROSION CONTROL PLAN



GENERAL CONSTRUCTION NOTES:

- THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATED AND PRESERVE ANY AND ALL UTILITIES.
- 2. BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
- THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR
- ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD).
- 5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
- 6. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION
- IS COMPLETE. 7. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
- 8. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- 9. BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- 10. ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY PLANNING AND COMMUNITY DEVELOPMENT PRIOR TO CONSTRUCTION.
- 1. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- 12. TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED
- 13. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS.
- 14. LOCATION OF THE CONCRETE WASHOUT, STORAGE FOR MAINTENANCE EQUIPMENT AND TEMPORARY DISPOSAL AREAS WILL BE ADDED TO THIS PLAN BY SWMP ADMINISTRATOR UPON COORDINATION WITH SELECTED CONTRACTOR.

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES. INCLUDING THE FOLLOWING: a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION d. CDOT M & S STANDARDS
- 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 FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT -INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA. 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE
- RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS. 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

SIGNING AND STRIPING NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
- 5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- 6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS."
- 8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- 9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- 10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED PAWNEE RANCHEROS THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
- 12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
- 13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- . THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

BENCHMARKS:

- A. EAST 1/16TH CORNER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPLE MERIDIAN LOCATED AT SOUTHEAST CORNER OF VOLLMER ROAD AND POCO ROAD APPROXIMATELY 50 FEET SOUTH OF THE CENTERLINE OF POCO ROAD. ELEVATION = 7211.95
- B. THE SOUTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE WEST END WHICH IS THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI PLS 10376, 2006" AND AT THE EAST END, WHICH IS A 30' WITNESS CORNER TO THE EAST OF THE EAST QUARTER CORNER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI 10376, 2006", IS ASSUMED TO BEAR N89'08'28"E, A DISTANCE OF 1356.68 FEET.

FILING NO. 2 LOT 11

STERLING RANCH EAST FILING NO. 3

WILDFLOWER

ROAD

COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

JULY 2024

CONSTRUCTION PLAN: SHEET INDEX

CONSTRUCTION	PLAN: SHEET INDEX	ROAD		
SHEET 1 OF 35	TITLE SHEET			
SHEET 2 OF 35	GRADING AND EROSION CONTROL NOTES / TYPICAL STREET SECTION	ORE		
SHEET 3 OF 35 SHEET 4 OF 35	GRADING AND EROSION CONTROL PLAN GRADING AND EROSION CONTROL PLAN	Х Г	STERLING RANCH RD	
SHEET 5 OF 35	GRADING AND EROSION CONTROL PLAN			
SHEET 6 OF 35	GRADING AND EROSION CONTROL PLAN		SITE	
SHEET 7 OF 35	GRADING AND EROSION CONTROL PLAN			
SHEET 8-9 OF 35	GRADING AND EROSION CONTROL PLAN DETAIL SHEETS	P	E. WOODMEN ROAD	
SHEET 10 OF 35	STREET IMPROVEMENT PLAN (LUBBOCK TRAIL)			
SHEET 11 OF 35	STREET IMPROVEMENT PLAN (BIXBY COURT)		N.T.S.	
SHEET 12 OF 35	STREET IMPROVEMENT PLAN (BIXBY COURT & BENTONVILLE WAY)			
SHEET 13 OF 35	STREET IMPROVEMENT PLAN (LAKE TAHOE DRIVE & FAYETTEVILLE STREET)			
SHEET 14 OF 35	STREET IMPROVEMENT PLAN (LAGUNA NIGUEL DRIVE & PLANO STREET)			
SHEET 15 OF 35 SHEET 16 OF 35	STREET IMPROVEMENT PLAN (PLANO STREET) STREET IMPROVEMENT PLAN (PLANO STREET & AMARILLO PLACE)			
SHEET 17 OF 35	STREET IMPROVEMENT PLAN (I LANG STREET & AMARILLO PLACE) STREET IMPROVEMENT PLAN (AMARILLO PLACE & CORPUS CHRISTI LANE)	UTILITY PLAN:	<u>SHEET INDEX</u> (SEPARATE PLAN SET)	
SHEET 18 OF 35	PEDESTRIAN RAMP KEY MAP & DETAILS	SHEET 1 OF 16	TITLE SHEET	
SHEET 19 OF 35	PEDESTRIAN RAMP DETAILED GRADING	SHEET 2 OF 16	SANITARY SEWER PLAN (LUBBOCK TRAIL & PLANO STREET)	
SHEET 20 OF 35	PEDESTRIAN RAMP DETAILED GRADING	SHEET 3 OF 16	SANITARY SEWER PLAN (PLANO STREET)	
SHEET 21 OF 35	PEDESTRIAN RAMP DETAILED GRADING	SHEET 4 OF 16	SANITARY SEWER PLAN (AMARILLO PLACE)	
SHEET 22 OF 35 SHEET 23 OF 35	STREET SIGNAGE PLAN STREET SIGNAGE PLAN	SHEET 5 OF 16	SANITARY SEWER PLAN (BIXBY COURT & BENTONVILLE WAY)	
SHEET 23 OF 35 SHEET 24 OF 35	STREET SIGNAGE PLAN STREET LIGHT POLE LOCATION PLAN	SHEET 6 OF 16	SANITARY SEWER PLAN (BENTONVILLE LANE & LAKE TAHOE DR.)	
		SHEET 7 OF 16	SANITARY SEWER PLAN (CORPUS CHRISTI LANE & FAYETTEVILLE ST.)	
SHEET 25 OF 35	STORM SEWER PLAN & PROFILE (BIXBY COURT)			
SHEET 26 OF 35	STORM SEWER PLAN & PROFILE (BIXBY COURT & BENTONVILLE WAY)	SHEET 8 OF 16 SHEET 9 OF 16	WATER SYSTEM PLAN WATER SYSTEM PLAN	
SHEET 27 OF 35	STORM SEWER PLAN & PROFILE (BIXBY COURT LATERALS & PLANO ST.)	SHEET 10 OF 16	WATER SYSTEM PLAN	
SHEET 28 OF 35	STORM SEWER PLAN & PROFILE (LUBBOCK TRAIL, AMARILLO PLACE)	SHEET 11 OF 16	WATER SYSTEM PLAN	
SHEET 29 QF 35	STORM SEWER PLAN & PROFILE (LAGUNA NIGUEL DRIVE & CORPUS CHRISTI LANE)	SHEET 12 OF 16	WATER SYSTEM PLAN (LOWERING DETAILS)	
SHEET 30 OF 35	PRIVATE EDB 11B PLAN SHEET			
SHEET 31 OF 35 SHEET 32 OF 35	PRIVATE EDB 11B OUTLET BOX DETAILS PRIVATE EDB 11B WESTERLY FOREBAY DETAILS	SHEET 13 OF 16	UTILITY SERVICE PLAN	
SHEET 33 OF 35	PRIVATE EDB 11B 54" FOREBAY IMPACT STRUCTURE & POND OUTFALL	SHEET 14 OF 16 SHEET 15 OF 16	UTILITY SERVICE PLAN	
		SHEET 16 OF 16	UTILITY SERVICE PLAN	
SHEET 34 OF 35	DETAIL SHEET			
SHEET 35 OF 35	DETAIL SHEET		109 69.77	
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AGENCIES:	
DEVELOPER:	CLASSIC SRJ LAND, LLC 2138 FLYING HORSE CLUB DR. COLORADO SPRINGS, CO 80921 MR. LOREN J. MORELAND (719) 592–9333
CIVIL ENGINEER:	CLASSIC CONSULTING 619 N. CASCADE AVENUE, SUITE 200 COLORADO SPRINGS, CO 80903 MR. MARC A. WHORTON, P.E. (719) 785–2802
COUNTY ENGINEERING:	EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 MS. CHARLENE DURHAM, (719) 520–7951
WATER & SANITATION:	FALCON AREA WATER & WASTEWATER AUTHORITY (FAWWA)
FIRE DISTRICT:	BLACK FOREST FIRE PROTECTION DISTRICT 11445 TEACHOUT ROAD COLORADO SPRINGS, CO 80908 CHIEF BRYAN JACK, (719) 495–4300
GAS COMPANY:	BLACK HILLS ENERGY 37 WIDEFIELD BOULEVARD WIDEFIELD, COLORADO 80911 MR. GEORGE M. PETERSON, (719) 392–3491
ELECTRIC COMPANY:	MOUNTAIN VIEW ELECTRIC P.O. BOX 1600 LIMON, COLORADO 80828 MR. LES ULFERS, (719) 495–2283



DATE

APPROVALS:

TELEPHONE COMPANY:

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY DIRECTLY CAUSED BY THE NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

CENTURY LINK COMMUNICATIONS

(LOCATORS) (800)-922-1987

A.T.&T. (LOCATORS) (719) 635-3674

MARC A. WHORTON, COLORADO P.E. #37155 FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE EROSION CONTROL PLAN AND AS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

LOREN J. MORELAND CLASSIC SRJ LAND, LLC 2138 FLYING HORSE CLUB DR. COLORADO SPRINGS, CO 80921

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, 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 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 COUNTY ENGINEER / ECM ADMINISTRATOR DATE

(V) 1"= N/A JOB NO.

DATE

DATE



PCD No. SF-



1183.33

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 OFF-SITE WATERS. INCLUDING WETLANDS	EROSION CONTROL PROTECT PROPERTI EROSION AND SEDI
2.	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 OFF-SITE WATERS, INCLUDING WETLANDS. 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 FROM REGULATIONS AND STANDARDS MUST BE REQUESTED.	ACTIVITIES WITHIN 1.) THE OMISSION I IS NOT TO BE
	AND APPROVED, IN WRITING.	LOCATION OF E 2.) DURING GRADIN DAMS AND SIL
	A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP 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.	TIME RESEED A
4.	SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP 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. 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	4.) MULCHING REQ MECHANICALLY
5.	COUNTY STAFF. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.	
5.	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 ARE 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. 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. 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	FENCE. 6.) SOIL EROSION ANY DISTURBE CALENDAR DA BEEN COMPLE FINAL GRADE
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.	ALSO BE MULC IS GOING TO R ALSO BE SEED ALLOW ANOTHE
3.	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	SEDIMENT FROM MEASURES AND CONTROL MEAS 7.) ALL FACILITIES,
Э.	CLOSURE. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.	FINAL GRADING PROPERLY MAI MAINTENANCE CONTROL FACIL EROSION DAMA
0.	EARTH DISTURBANCES 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.	GROWING COND PRACTICABLE. 8.) ALL SILT FENC
1.	PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.	NEEDED. 9.) THE CONTRACT EACH ENTRANG WHICH WILL AS
	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 MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).	10.) EROSION CON AND REPAIRE
2.	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.	11.) CONTRACTOR IN GOOD WOR
3.	CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.	
4.	DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.	13.) THE EROSION RESPONSIBILIT AND REBUILD
	EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING	14.) MAXIMUM ACF
7.	MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE. 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	<u>SEEDING</u>
18.	PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.	THE SEEDBED THAT THE SE STANDS OF V BY SHALLOW
9.	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.	BEEN OVER-C SHOULD BE T HARROWED, R
20.		<u>2. FERTILIZER</u> FERTILIZER SI NITROGEN PE
21.	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. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR	THE TIME OF THE TIME OF ON THE KIND
22.	BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.	<u>3. SEEDING</u> SEED SHOULD (3:1) OR FLA SPREADER, OI
23.	NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.	TOO STEEP, C PLANTED WITH 1/4 TO 3/4
24.	OWNER/DEVELOPER AND THEIR AGENTS 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 OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.	INCORPORATE INCH, BY RAK SEEDING IS FI LATE FALL WI <u>4. MULCHING</u>
25.	ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.	SEEDED AREA SURFACE COM CONTROL INS
	PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED	NATIVE HAY POUNDS PER GREATER THA
28.	TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. DATED APRIL 19, 2022 AND SHALL BE CONSIDERED A PART OF THESE PLANS.	5. SUPPLEMENT
29.	AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (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:	IN LOW RAINI RAPID ESTAB SHOULD BE F SHOULD BE / RATE OF 3/4 DEFI-CIENT F
W	OLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT ATER QUALITY CONTROL DIVISION OCD - DERMITS	
4. D	QCD – PERMITS 300 CHERRY CREEK DRIVE SOUTH ENVER, CO 80246–1530 TTN: PERMITS UNIT	
~		
	BMP NOTES:	

- 2. THE PROPOSED GRADING/EROSION CONTROL PLAN SHOW AND CALL-OUT THE 'INITIAL' AND 'INTERIM' STAGE OF CONSTRUCTION CONTROL MEASURES.
- 3. 'FINAL' CONSTRUCTION CONTROL MEASURES ARE STABILIZED/DEVELOPED LOTS, CONSTRUCTED ROADS, RE-SEEDED OPEN SPACE, AND CONSTRUCTED DETENTION PONDS. A PLAN IS NOT NEEDED FOR THE FINAL STAGE.

THE LOC SHOWN SHALL UTILITIE BE FULL MIGHT E PRESERV

SION CONTROL CRITERIA:

N CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL CT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF ON AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK TIES WITHIN THE PROJECT SITE.

OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE CATION OF EXISTING UNDERGROUND UTILITIES.

RING GRADING OPERATIONS, LOCATE AND SET THE STRAW BALE CHECK MS AND SILT FENCES AS SHOWN ON THE EROSION CONTROL PLAN. AT THIS RESEED ALL DISTURBED AREAS WITH AN EL PASO COUNTY APPROVED ED MIX.

EDING APPLICATION: DRILLED TO A DEPTH OF .25" TO .50" INTO SOIL WHERE SSIBLE. BROADCAST AND RAKED TO COVER ON STEEPER THAN 3:1 SLOPES ERE ACCESS IS LIMITED OR UNSAFE FOR EQUIPMENT.

ILCHING REQUIREMENT AND APPLICATION: 1.5 TONS PER ACRE NATIVE HAY CHANICALLY CRIMPED INTO SOIL.

STRAW BALE CHECK DAMS AND SILT FENCES SHALL BE KEPT IN PLACE D MAINTAINED UNTIL EROSION AND SEDIMENTATION POTENTIAL IS MITIGATED. MOVAL OF SILT AND SEDIMENT COLLECTED BY THE STRAW BALES IS QUIRED ONCE IT REACHES HALF THE HEIGHT OF THE STRAW BALES OR SILT

EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR / DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) LENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAŚ EN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT AL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAT 30 DAYS SHALL SO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAT 60 DAYS SHALL SO BE SEEDED. ON A CASE-BY-CASE BASIS, THE MS4 PERMITTEE MAY LOW ANOTHER APPROPRIATE BMP TO BE IN PLACE THAT PREVENTS DIMENT FROM LEAVING THE SITE. ALL TEMPORARY SORIL EROSION CONTROL ASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION NTROL MEASURES ARE IMPLEMENTED.

FACILITIES, VEGETATION AND OTHER ITEMS REQUIRED BY THE APPROVED IAL GRADING, EROSION CONTROL AND RECLAMATION PLAN SHALL BE OPERLY MAINTAINED BY THE OWNERS OF THE PROPERTY. SUCH INTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO KEEPING ALL EROSION NTROL FACILITIES IN GOOD ORDER AND FUNCTIONAL, REPAIRING ANY DSION DAMAGE THAT OCCURS, KEEPING ALL VEGETATION HEALTHY AND IN DWING CONDITION AND REPLACING ANY DEAD VEGETATION AS SOON AS ACTICABLE.

SILT FENCES ARE TO BE REGULARLY INSPECTED AND REPAIRED AS EDED.

CONTRACTOR SHALL PROVIDE VEHICLE TRACKING CONTROL FACILITIES FOR ACH ENTRANCE/EXIT TO THE SITE. THE CONTRACTOR SHALL SUBMIT A PLAN HICH WILL ASSURE USAGE OF THIS FACILITY BY ALL VEHICLES LEAVING THE

ROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH STORM EVENT AND REPAIRED WHEN NECESSARY.

ONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL FACILITIES GOOD WORKING ORDER UNTIL SUCH TIME AS PERMANENT FACILITIES ARE IN ACE AND THE CONSTRUCTION MANAGER HAS APPROVED THEIR REMOVAL. DDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME

HE EROSION CONTROL MEASURES OUTLINED ON THE PLAN ARE THE ESPONSIBILITY OF THE DEVELOPER TO MONITOR AND REPLACE, REGRADE ND REBUILD AS NECESSARY UNTIL VEGETATION IS ESTABLISHED.

AXIMUM ACREAGE OPEN AT ANY GIVEN TIME IS TO BE 30 ACRES.

EDING GUIDELINES:

EDBED PREPARATION

HE SEEDBED SHOULD BE WELL-SETTLED AND FIRM, BUT FRIABLE ENOUGH AT THE SEED CAN BE PLACED AT THE SPECIFIED DEPTHS. COMPETITIVE TANDS OF WEEDS THAT ARE PRESENT BEFORE SEEDING MUST BE CONTROLLED SHALLOW TILLAGE OR BY APPLICATION OF HERBICIDES. SOILS THAT HAVE EEN OVER-COMPACTED BY TRAFFIC OR EQUIPMENT, ESPECIALLY WHEN WET, HOULD BE TILLED TO BREAK UP ROOTING-RESTRICTIVE LAYERS, THAN ARROWED, ROLLED, OR PACKED TO PREPARE THE REQUIRED FIRM SEEDBED.

<u>ERTILIZER</u>

ERTILIZER SHOULD BE APPLIED AT A RATE OF 50 POUNDS OF AVAIL-ABLE TROGEN PER ACRE AND 40 POUNDS OF AVAILABLE PHOSPHATE PER ACRE. E TIME OF APPLICATION SHOULD BE IMMEDIATELY PRIOR TO SEEDING, AT E TIME OF SEEDING. OR IMMEDIATELY FOL-LOWING SEEDING, DEPENDING THE KIND OF FERTILIZER AND TYPE OF EQUIPMENT USED.

<u>EDING</u>

EED SHOULD BE PLANTED WITH A GRASS DRILL ON ALL SLOPES OF 33% :1) OR FLATTER. SEED MAY BE BROADCAST BY HAND, BY MECHANICAL PREADER, OR BY HYDRAULIC EQUIPMENT ON AREAS THAT ARE SMALL, DO STEEP, OR NOT ACCESSIBLE FOR SEED DRILL OPERATIONS. SEED LANTED WITH A DRILL SHOULD BE COVERED WITH SOIL TO A DEPTH OF /4 TO 3/4 INCH. SEED PLANTED BY THE BROADCAST METHOD SHALL BE CORPORATED INTO THE SOIL SURFACE, NOT TO EXCEED A DEPTH OF 3/4 ICH, BY RAKING, HARROWING, OR OTHER PROVEN METHOD. THE TIME OF EEDING IS FROM OCTOBER 15TH - MAY 31ST. SEED PLANTED IN THE ATE FALL WILL REMAIN DORMANT UNTIL SPRING, WHEN IT WILL GERMINATE.

<u>JLCHING</u>

EEDED AREAS SHOULD BE MULCHED TO CONSERVE MOISTURE; PREVENT URFACE COMPACTION OR CRUSTING; REDUCE RUNOFF AND EROSION; CONTROL INSECTS; AND HELP ESTABLISH PLANT COVER.

ATIVE HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 4,000 OUNDS PER ACRE AND CRIMPED INTO THE GROUND. ON SLOPES REATER THAN 3:1, AN AGRONOMY BLANKET SHOULD BE USED.

UPPLEMENTAL WATER

LOW RAINFALL AREAS, WHERE WATER IS AVAILABLE AND WHERE APID ESTABLISHMENT IS NEEDED, IRRIGATION OF NEW SEEDING HOULD BE PERFORMED DURING THE FIRST GROWING SEASON. WATER HOULD BE APPLIED AT APPROXIMATELY ONE WEEK INTERVALS, AT A ATE OF 3/4 TO 1 INCH PER APPLICATION, WHEN RAINFALL IS EFI-CIENT FOR PLANT DEVELOPMENT.

NOTES:

AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF THE 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

PORTIONS OF THE STERLING RANCH EAST FILING NO. 3 ARE LOCATED WITHIN A FLOODPLAIN AS DETERMINED BY THE FLOOD INSURANCE RATE MAPS (F.I.R.M.) MAP NUMBERS 08041C0533G, EFFECTIVE DATE, DECEMBER 7, 2018

THE AVERAGE SOIL CONDITION REFLECTS HYDROLOGIC SOIL GROUP "A", BLAKELAND LOAMY SAND AND COLUMBINE GRAVELLY SANDY LOAM AND SOIL GROUP "B", PRING COARSE SANDY LOAM AS DETERMINED BY THE "SOIL SURVEY OF EL PASO COUNTY AREA" PREPARED BY THE U.S. SOIL CONSERVATION SERVICE.

EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.

EMERGENCY OVERFLOW SWALES FOR INLETS IN THE INTERIM UNTIL CURB AND ASPHALT IS INSTALLED WILL BE THE LOTS, FINAL WILL BE TO OVERTOP THE HIGH POINT IN ROADWAY TO THE NEXT AVAILABLE INLET OR TO PROPOSED POND.

STOCKPILE LOCATIONS FOR HOMEBUILDING TO BE ON EACH INDIVIDUAL LOT THAT IS BEING BUILT UPON WITH ANY EXCESS MATERIAL PLACED WITHIN THE FUTURE ELEMENTARY SCHOOL SITE AS SHOWN ON SHEET 4.

LIMITS OF DISTURBANCE FOR THIS PLAN INCLUDE UTILITY INSTALLATION AND ROADWAY CONSTRUCTION WITHIN THE R.O.W., AND OVERLOT GRADING FOR DEVELOPMENT THEN INDIVIDUAL LOTS FOR HOMEBUILDING ONCE CONSTRUCTION OF THE HOME BEGINS.

GRADING WITHIN THIS PHASE WILL BE FULLY DEVELOPED WITH HOME BUILDING OPERATIONS.

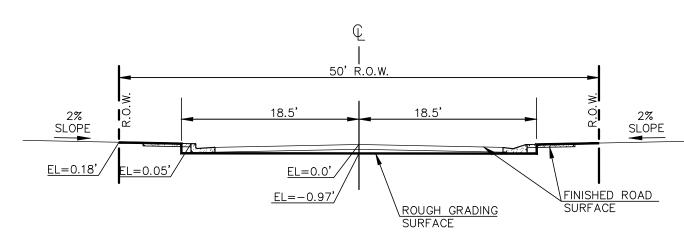
LOCATION OF THE CONCRETE WASHOUT, STORAGE FOR MAINTENANCE EQUIPMENT AND TEMPORARY DISPOSAL AREAS WILL BE ADDED TO THIS PLAN BY SWMP ADMINISTRATOR UPON COORDINATION WITH SELECTED CONTRACTOR.

ALL AREAS ARE TO BE RESEEDED OUTSIDE OF LOTS AND ROADWAYS. RESEED ALL AREAS AS NEEDED TO PREVENT EROSION AND SEDIMENT RUNOFF ONTO CONSTRUCTION ACTIVITIES.

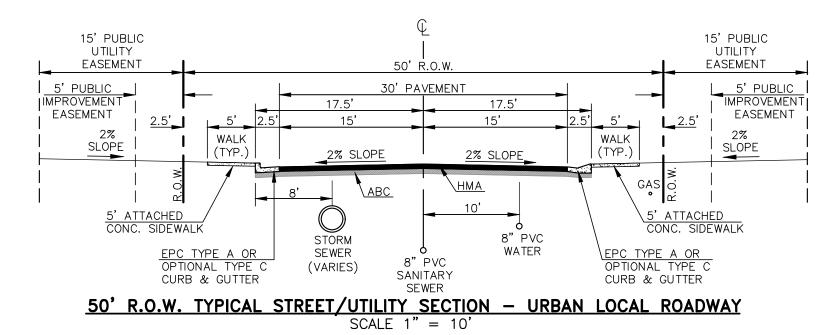
SCHEDULE OF ANTICIPATED CONSTRUCTION ACTIVITY:

1. INSTALL INITIAL BMP'S 2. INSPECTION OF INTIAL BMP'S BY COUNTY STAFF 3. PRECONSTRUCTION MEETING WITH COUNTY STAFF

EGIN CONSTRUCTION UPON APPROVAL	<u>ACTIVITY</u> ALL SITE ROADWAY GRADING AND UTILITY INSTALLATION	COMPLETION 6 MONTHS	EROSION CONTROL ALL SHOWN ON GRADING PLAN
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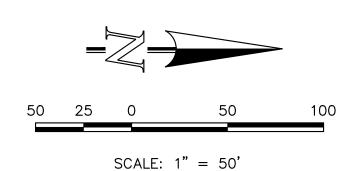


50' R.O.W. TYPICAL STREET SECTION HOLD-DOWN OVERLOT GRADING IN ROADWAYS SCALE 1'' = 10'



48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS	NO. REVISION	DATE	REVIEW:
811			PREPARED UNDER MY DIRECT SU
UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW			CLASSIC CONSULTING ENGINEERS
CATIONS OF EXISTING UNDERGROUND UTILITIES ARE IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR			
DETERMINE THE EXACT LOCATION OF ALL EXISTING S BEFORE COMMENCING WORK. THE CONTRACTOR SHALL LY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH			MARC A. WHORTON, COLORADO
BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND VE ANY AND ALL UNDERGROUND UTILITIES.			MARC A. WHORTON, COLORADO

SUPERVISION FOR AND ON BEHALF OF RS AND SURVEYORS, LLC	CLASSIC.		STERLING RANCH EAST FILING NO. 3 GRADING AND EROSION CONTROL PLAN NOTES AND DETAILS					UISSY IU	CONSULTING
	CONSULTING		DESIGNED BY	ESO	SCALE	DATE	7/	/03/2	024
D P.E. #37155 DATE		╝	DRAWN BY	ESO	(H) 1"= 50'	SHEET	2	OF	35
"	619 N. Cascade Avenue, Suite 200 (719)785—0790 Colorado Springs, Colorado 80903 (719)785—0799(Fa	іх)	CHECKED BY		(V) 1"= N/A	JOB NO.		1183.3	33

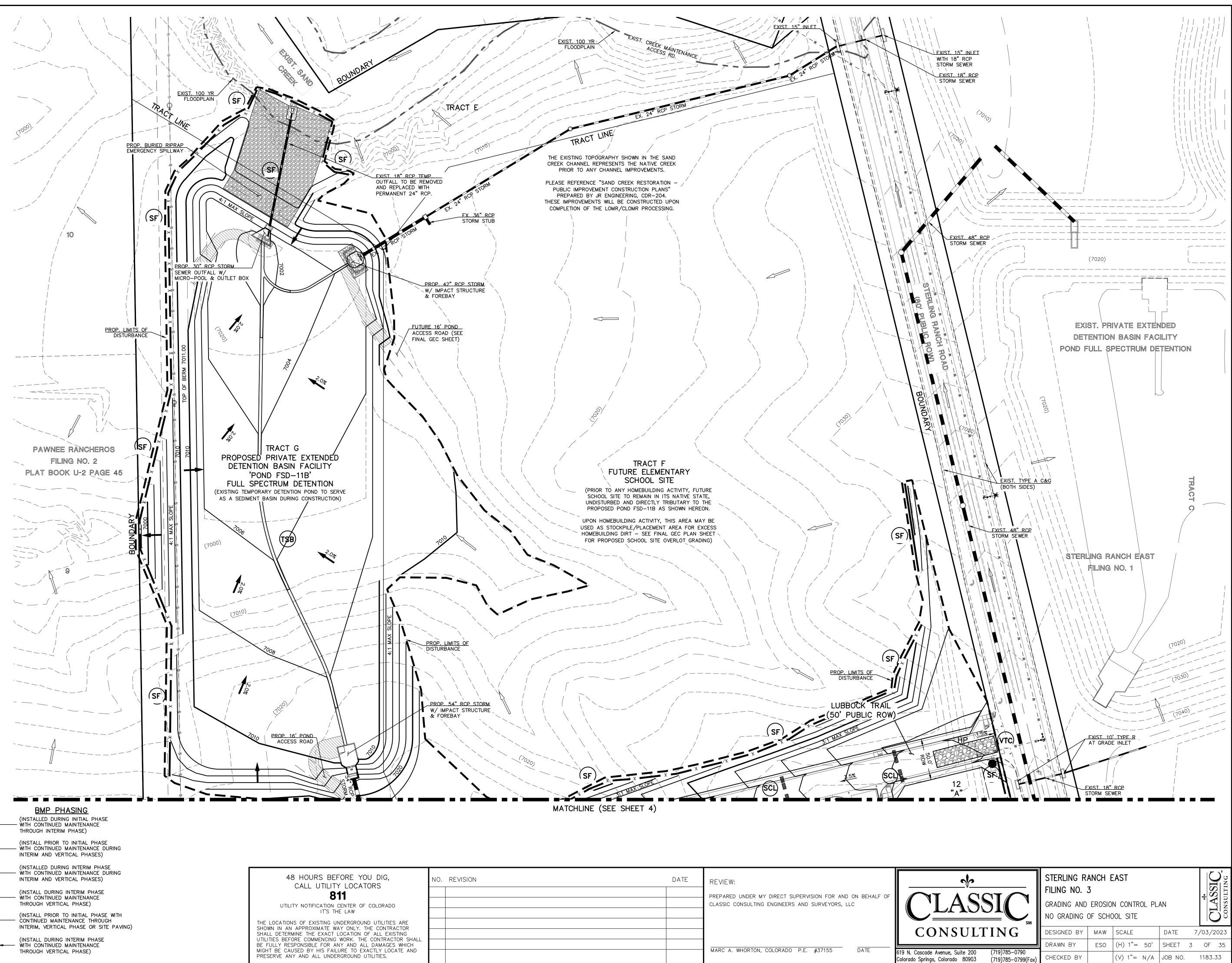


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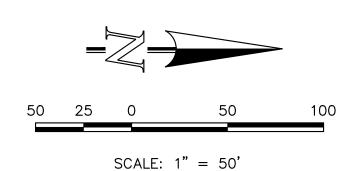
THERE WILL BE NO ASPHALT, CONCRETE BATCH PLANTS AND MASONRY MIX STATIONS ON THIS SITE.

<u>LEGEND</u>

		/
(7700)	EXISTING CONTOUR	
7700	PROPOSED CONTOUR	
	PROPOSED LIMITS OF GRADING/ CONSTRUCTION SITE BOUNDARY	
	BOUNDARY/R.O.W. LINE	
	EXISTING FLOW DIRECTION	<u> </u>
\rightarrow	PROPOSED FLOW	
"A"	A LOT	
"B"	B LOT	
"W/O"	WALKOUT LOT	
"丁"	TRANSITION LOT	
"G"	GARDEN LOT	A
	PROPOSED INLET	
	PROPOSED STORM SEWER PIPE	
HP	PROPOSED HIGH POINT	
LP	PROPOSED LOW POINT	<u>`</u>
		BMP PHASING
TSB	TEMPORARY SEDIMENT BASIN	UMF_FHASING (INSTALLED DURING INITIA WITH CONTINUED MAINTEN THROUGH INTERIM PHASE
× SF	SILT FENCE	(INSTALL PRIOR TO INITIA —— WITH CONTINUED MAINTEN INTERIM AND VERTICAL PI
	SEDIMENT CONTROL LOG	(INSTALLED DURING INTER — WITH CONTINUED MAINTEN INTERIM AND VERTICAL PI
	INLET PROTECTION -	(INSTALL DURING INTERIM — WITH CONTINUED MAINTEN THROUGH VERTICAL PHAS
VTC	VEHICLE TRACKING CONTROL -	(INSTALL PRIOR TO INITIA — CONTINUED MAINTENANCE INTERIM, VERTICAL PHASE
ECB	EROSION CONTROL BLANKET	(INSTALL DURING INTERIM — WITH CONTINUED MAINTEN THROUGH VERTICAL PHAS



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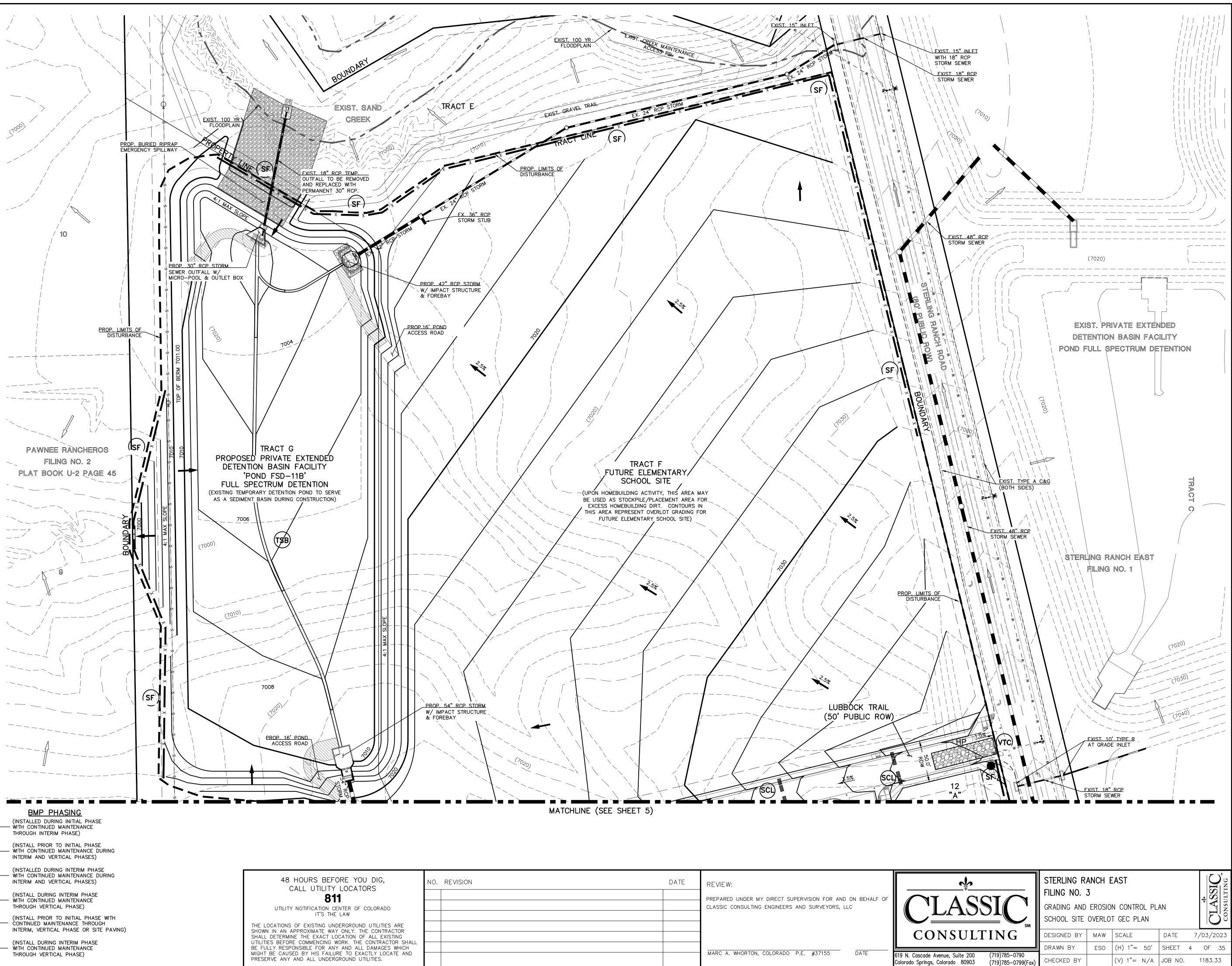


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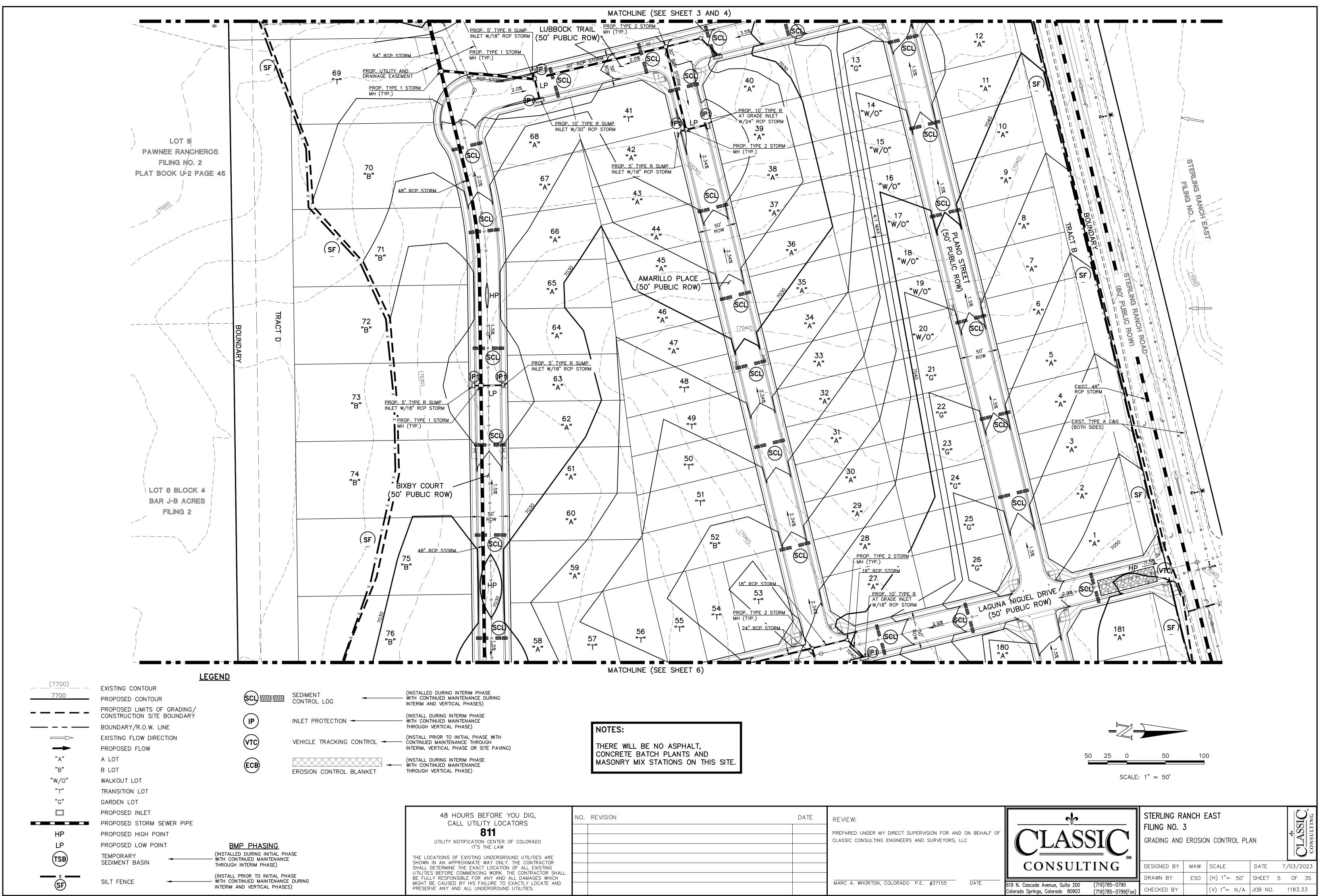
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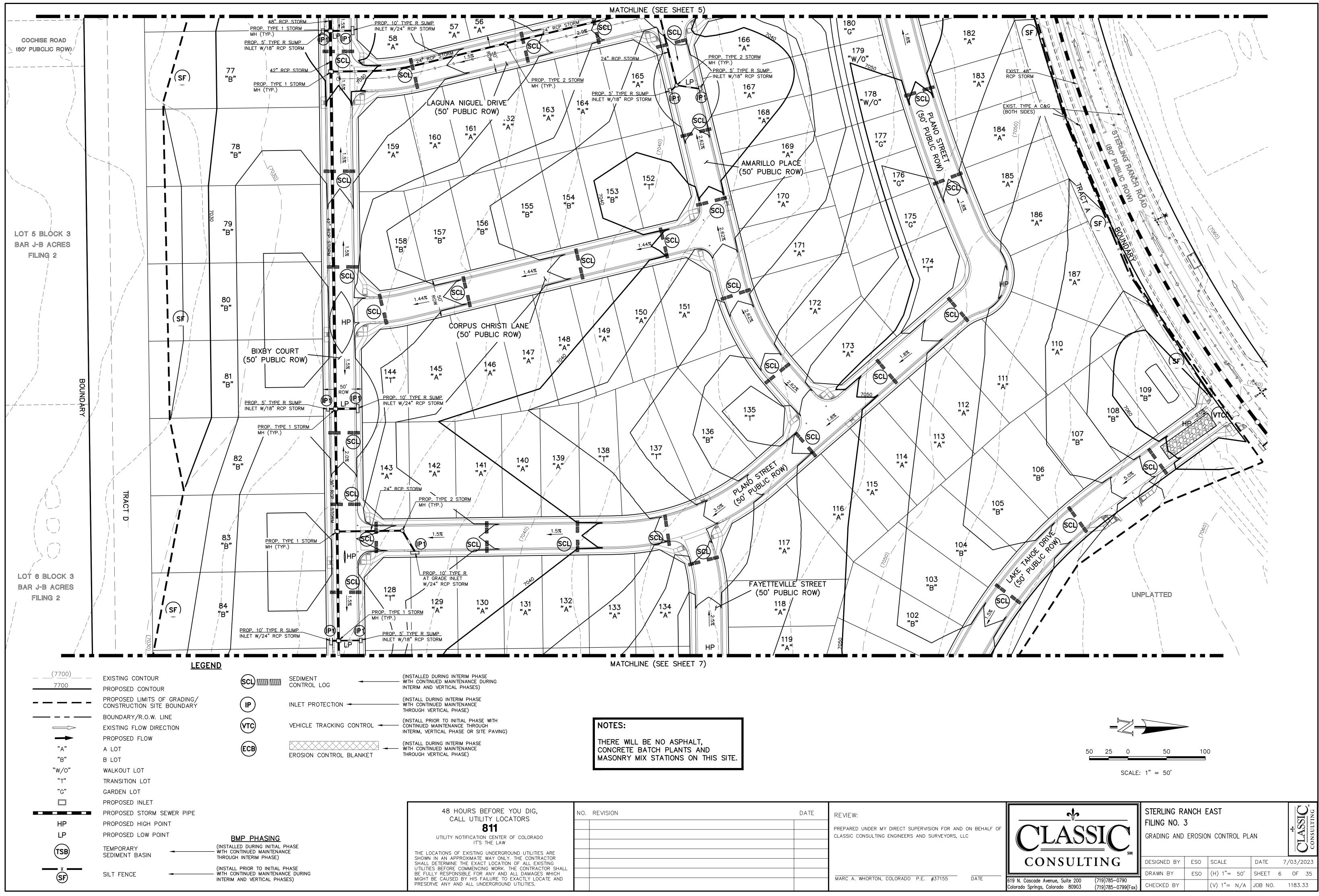
		/
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7700	PROPOSED CONTOUR	
 	PROPOSED LIMITS OF GRADING/ CONSTRUCTION SITE BOUNDARY	
	BOUNDARY/R.O.W. LINE	
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× SF	SILT FENCE	(INSTALL PRIOR TO INITIAL — WITH CONTINUED MAINTEN/ INTERIM AND VERTICAL PH
	SEDIMENT CONTROL LOG	(INSTALLED DURING INTERI — WITH CONTINUED MAINTEN INTERIM AND VERTICAL PH
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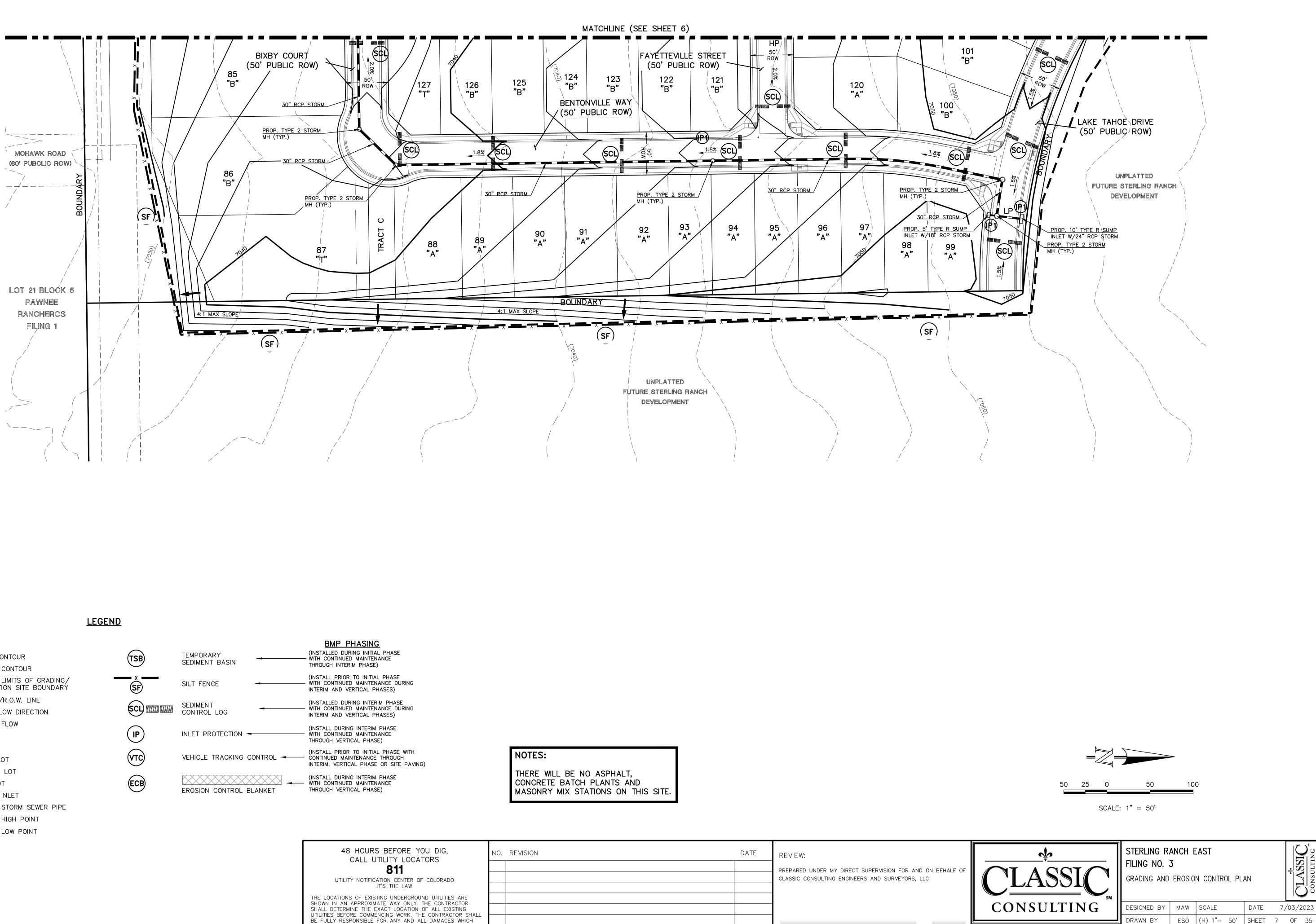
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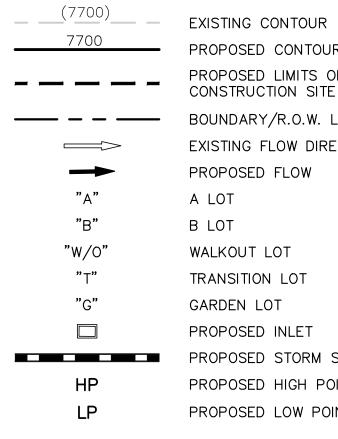
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BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND RVE ANY AND ALL UNDERGROUND UTILITIES.			MARC A. WHORION, COLORADO

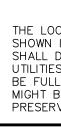


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ECB	EROSION CONTROL BLANKET	(INSTA — WITH (THROU



PROPOSED CONTOUR
PROPOSED LIMITS OF GRADING/ CONSTRUCTION SITE BOUNDARY
BOUNDARY/R.O.W. LINE
EXISTING FLOW DIRECTION
PROPOSED FLOW
A LOT
B LOT
WALKOUT LOT
TRANSITION LOT
GARDEN LOT
PROPOSED INLET
PROPOSED STORM SEWER PIPE
PROPOSED HIGH POINT
PROPOSED LOW POINT

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48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS	NO. REVISION	DATE	REVIEW:
811			PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHA
UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW			CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
CATIONS OF EXISTING UNDERGROUND UTILITIES ARE			
DETERMINE THE EXACT LOCATION OF ALL EXISTING S BEFORE COMMENCING WORK. THE CONTRACTOR SHALL			
LY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND RVE ANY AND ALL UNDERGROUND UTILITIES.			MARC A. WHORTON, COLORADO P.E. #37155 DATE

DRAWN BY

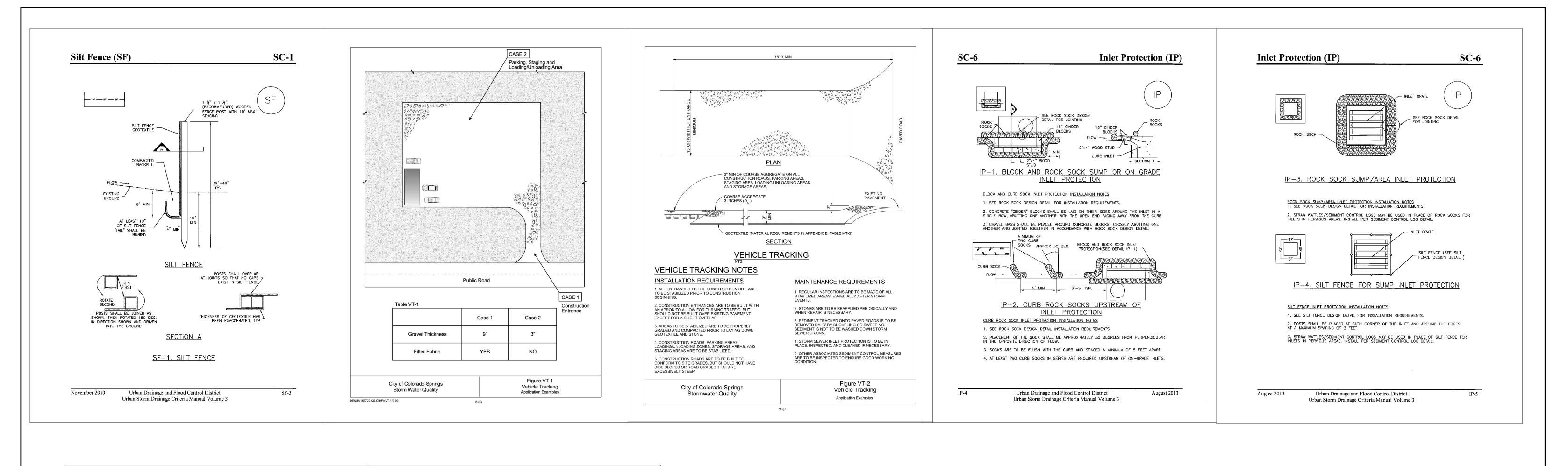
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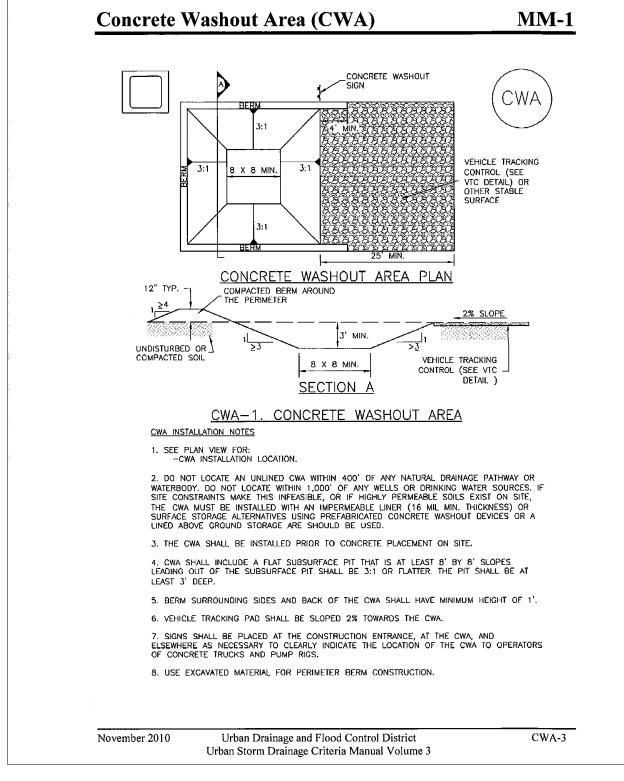
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(719)785–0790

619 N. Cascade Avenue, Suite 200

Colorado Springs, Colorado 80903 (719)785—0799(Fax)





Urban Drainage and Flood Control District

Mulching (MU)

Mulching consists of evenly applying

straw, hay, shredded wood mulch, rock,

bark or compost to disturbed soils and

reduce erosion by protecting bare soil

Although often applied in conjunction

stabilization of areas that cannot be

reseeded due to seasonal constraints.

Mulch can be applied either using

Appropriate Uses

standard mechanical dry application

that hydraulically applies a slurry of water,

Do not apply mulch during windy conditions.

Design and Installation

sites. Consider the following:

June 2012

wood fiber mulch, and often a tackifier.

with temporary or permanent seeding, it

from rainfall impact, increasing

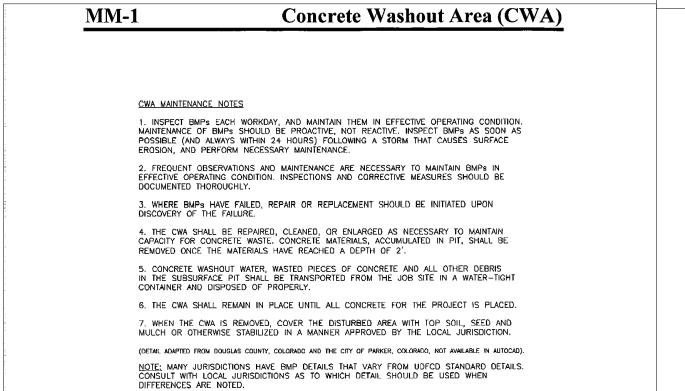
infiltration, and reducing runoff.

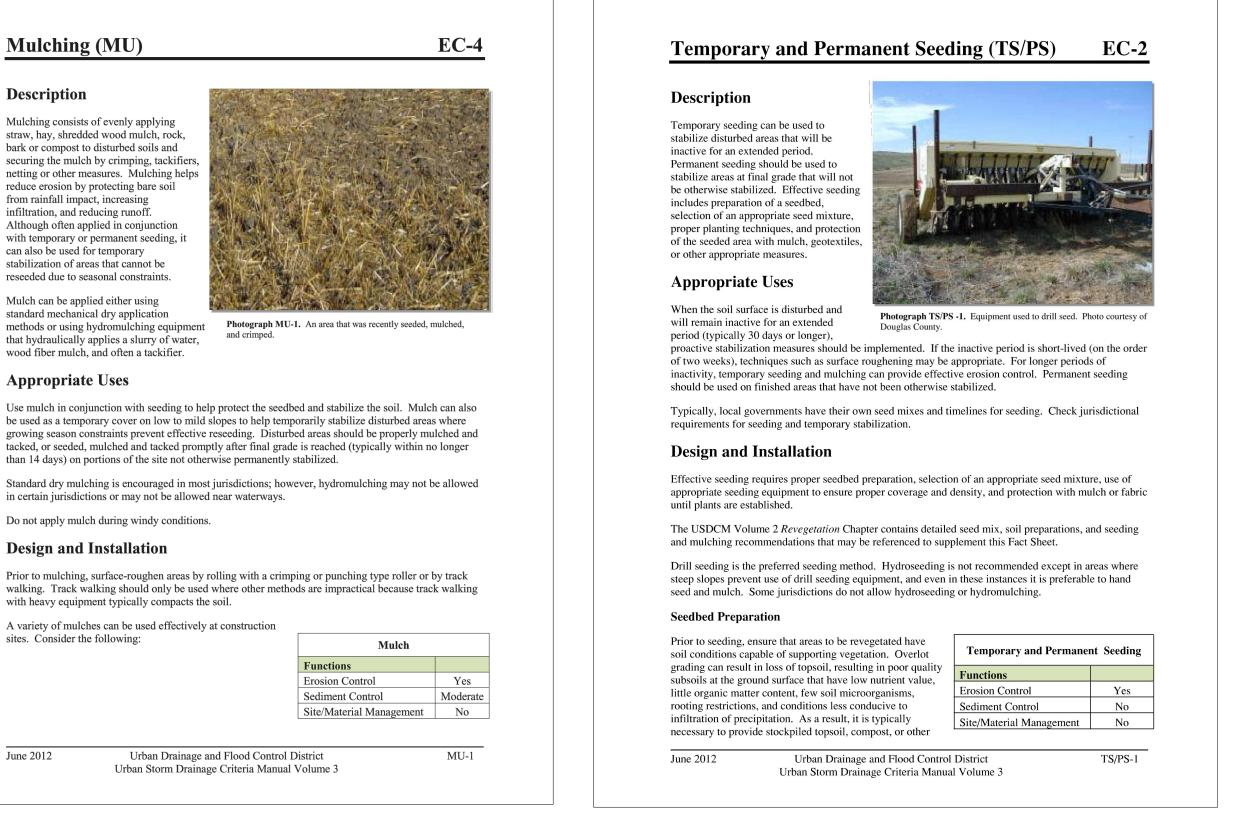
can also be used for temporary

netting or other measures. Mulching helps

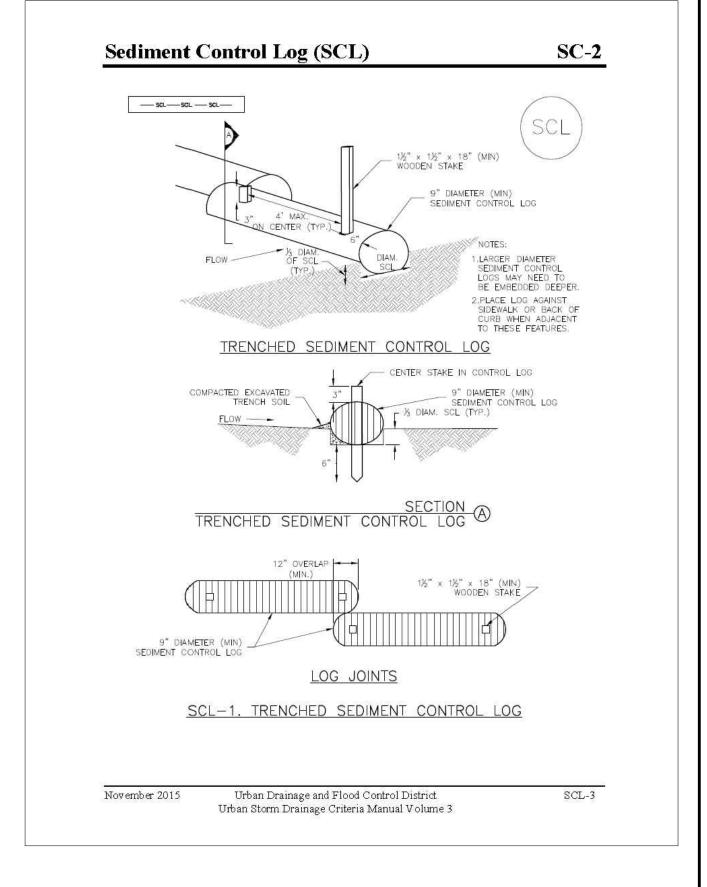
Description

securing the mulch by cri

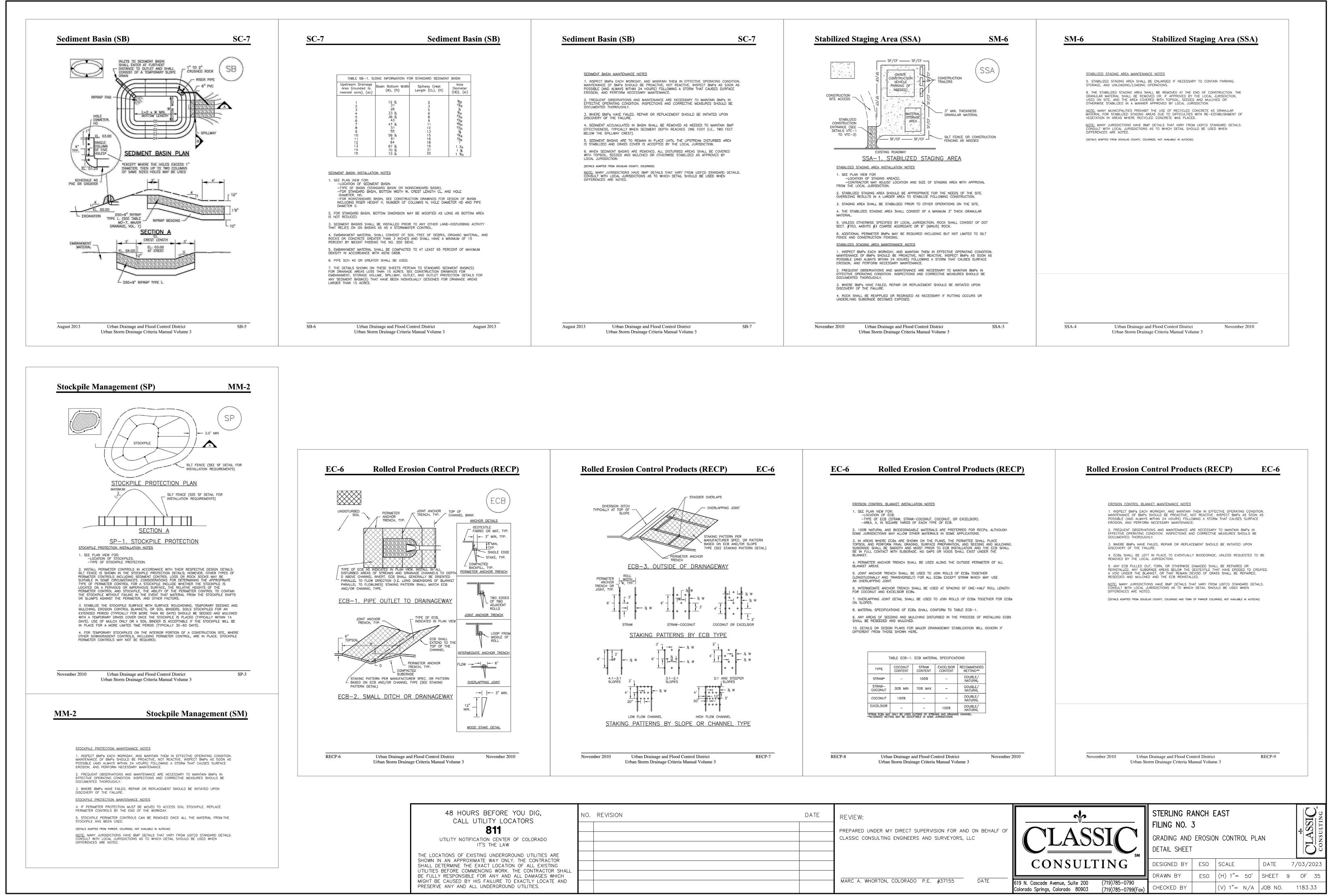




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811			PREPARED UNDER MY DIRECT S
UTILITY NOTIFICATION CENTER OF COLORADO			CLASSIC CONSULTING ENGINEERS
IT'S THE LAW			
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR			
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BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND			MARC A. WHORTON, COLORADO
PRESERVE ANY AND ALL UNDERGROUND UTILITIES.			



SUPERVISION FOR AND ON BEHALF OF RS AND SURVEYORS, LLC	CLASSIC.	STERLING RA FILING NO. S GRADING AND DETAIL SHEET	3 EROSIO	EAST N CONTROL PL	AN			NSU
	CONSULTING	DESIGNED BY	ESO	SCALE	DATE	7/	′03/2	.023
0 P.E. #37155 DATE		DRAWN BY	ESO	(H) 1"= 50'	SHEET	8	OF	35
0 F.L. #57135 DATE	619 N. Cascade Avenue, Suite 200 (719)785-0790 Colorado Springs, Colorado 80903 (719)785-0799(Fax)	CHECKED BY		(V) 1"= N/A	JOB NO.		1183.3	33



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RVE ANY AND ALL UNDERGROUND UTILITIES.			

ion Control Products (RECP)	Rolled Erosion Control Products (RECP)EC-6
DN_NOTES	EROSION CONTROL BLANKET MAINTENANCE NOTES
DCONUT, COCONUT, OR EXCELSIOR). EACH TYPE OF ECB.	 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.
MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH MATERIALS IN SOME APPLICATIONS.	2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
ON THE PLANS, THE PERMITTEE SHALL PLACE SURFACE PREPARATION, AND SEEDING AND MULCHING. ST PRIOR TO ECB INSTALLATION AND THE ECB SHALL	3. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
NO GAPS OR VOIDS SHALL EXIST UNDER THE	4. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
BE USED ALONG THE OUTSIDE PERIMETER OF ALL SED TO JOIN ROLLS OF ECBs TOGETHER 'OR ALL ECBs EXCEPT STRAW WHICH MAY USE	5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.
L BE USED AT SPACING OF ONE-HALF ROLL LENGTH	<u>NOTE:</u> MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
E USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs	(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER COLORADO, NOT AVAILABLE IN AUTOCAD)
SHALL CONFORM TO TABLE ECB-1.	
ING DISTURBED IN THE PROCESS OF INSTALLING ECBS	
JOR DRAINAGEWAY STABILIZATION WILL GOVERN IF	
B MATERIAL SPECIFICATIONS	
STRAW EXCELSIOR RECOMMENDED ONTENT CONTENT NETTING**	
100% – DOUBLE/ NATURAL	
D% MAX - DOUBLE/ NATURAL	
DOUBLE/ NATURAL	
100% NATURAL DE OF STREAMS AND DRAINAGE CHANNEL. LE IN SOME JURISDICTIONS	
Flood Control District November 2010 e Criteria Manual Volume 3	November 2010Urban Drainage and Flood Control DistrictRECP-9Urban Storm Drainage Criteria Manual Volume 3