



GENERAL VICINITY MAP

**Engineer's Statement:**

This Grading and Erosion Control Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said Plan has been prepared according to the criteria established by the County for Grading and Erosion Control Plans. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparing this plan.

*Michael Brady*  
 Michael Brady CO PE no. 36248  
 Managing Engineer

10/24/2018  
 Date

**Owner's Statement:**

The Owner will comply with the requirements of the Grading and Erosion Control Plan.

*Michael Myers*  
 Michael Myers  
 Technical Services Supervisor

10/29/18  
 Date

**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, and Engineering Criteria Manual as amended.

Approved  
 by Elizabeth Alvarado  
 El Paso County Planning and Community Development  
 on behalf of Jennifer Irvine, County Engineer, E231 Administrator

Jennifer Irvine, P.E.  
 County Engineer / ECM Administrator

10/25/2018 10:27:35 AM  
 Date

**REPORTING REQUIREMENTS**

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: October 29, 2018

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED: November 9, 2018

TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADED: 5.0 acres

NAME OF RECEIVING WATERS: South Clear Springs Ranch Drainage Ditch ultimately discharges to Fountain Creek

SOILS INFORMATION: Kim Loam (1-8% slopes); Limon Clay (0-3% slopes), Schamber-Razor Complex (8-50% slopes); [NRCS Soil Survey]

SUBDIVISION NAME: N/A

BMP COST ESTIMATE: Estimate is for worst case scenario

- (not inclusive of pavement or curb & gutter repair)
- max. 1.00acre x \$582/acre = \$582 for Hydro Seeding / Mulching + fertilizer and tackifier
- 1 unit x \$1,625/unit = \$1,625 for Vehicle Tracking Control
- 50 units x \$6.00/unit = \$300 for Erosion Control Logs
- 50 LF x \$4/LF = \$200 for Silt Fence
- Subtotal = \$2,707.00

Subtotal x 40% Maintenance of BMP's = \$1,082.80

Total = \$3,789.80

PROPOSED TOPOGRAPHY: The site will be returned as closely as possible to its pre-construction grade

LOCATION OF ANY OTHER PROPOSED FEATURES AND STRUCTURES ON THIS SITE: N/A

LOCATION AND PLANS FOR ALL DRAINAGE FEATURES: N/A

LOCATION OF PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES: N/A

LOCATION OF ANY DEDICATED ASPHALT OR CONCRETE BATCH PLANTS: N/A

IS THE SITE IN THE CITY'S STREAMSIDE ZONE: No

EMERGENCY OVERFLOW SWALES: N/A

FLOW ROUTE - FLOW THROUGH AND OVERFLOW OF PERMANENT BMP'S AND TEMPORARY SEDIMENT BASINS: N/A

DETAIL DRAWINGS OF PERMANENT BMP'S: N/A

**NOTES:**

A designated concrete truck washout is not anticipated for this project.

Fueling of equipment may occur along the project route; fueling guidelines are included in the SWMP.

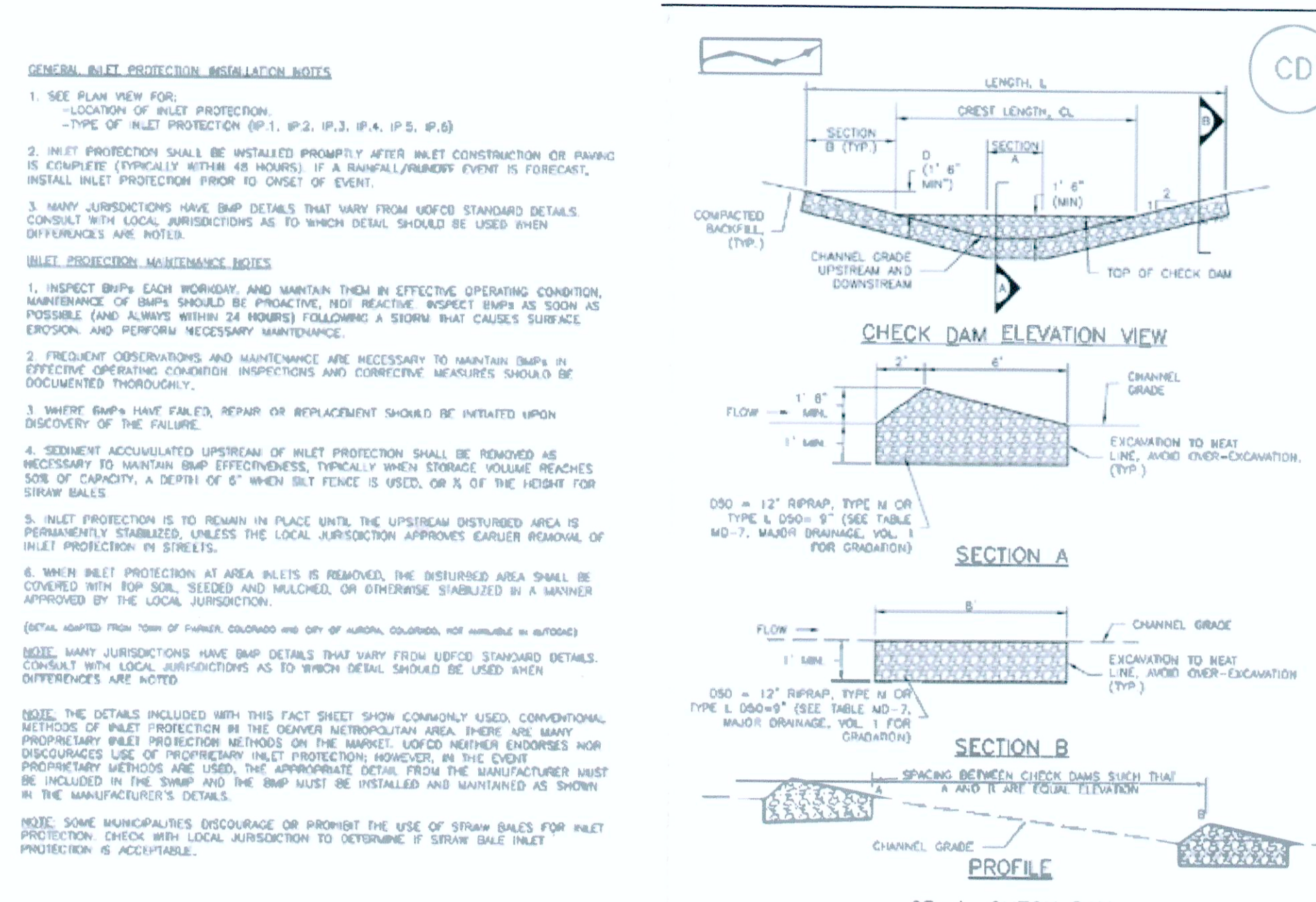
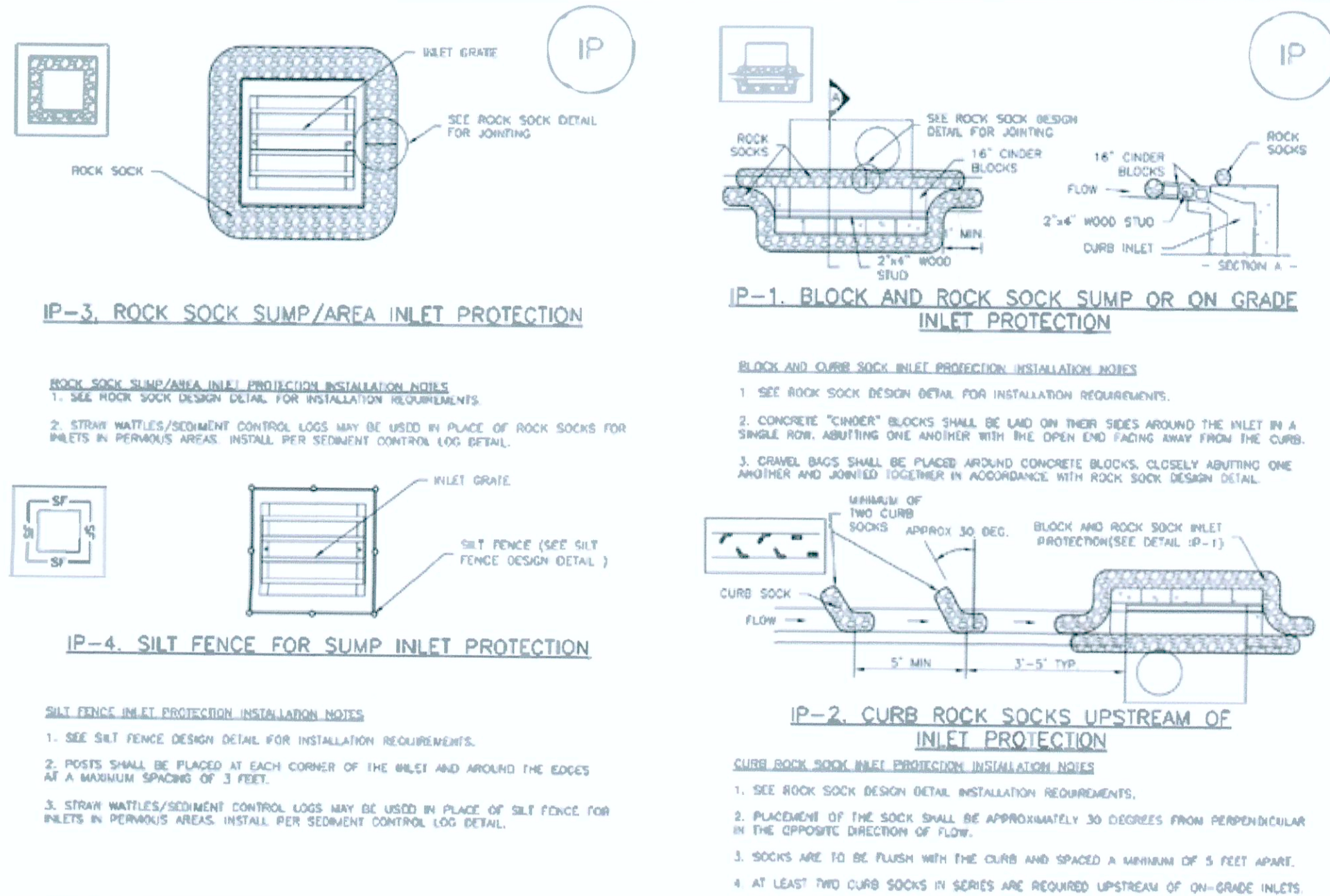
All disturbed areas outside the roadway will be reseeded.

Additional erosion control details on maintenance and installation are located in Attachment 3 to the SWMP/GESQCP Narrative

**Standard Notes for El Paso County Grading and Erosion Control Plans**

1. Construction may not commence until a Construction Permit is obtained from Planning and Community Development (PCD) and a preconstruction conference is held with PCD Inspectors.
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.
3. Notwithstanding anything depicted in these plans, no work or ground preparation, 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 reported, and approved, in writing.
4. A separate Stormwater Management Plan (SWMP) for this project shall be completed and an Erosion and Stormwater Quality Control Permit (ESQCP) issued prior to commencing construction. During construction the SWMP is the responsibility of the designated Stormwater Manager, shall be located on site at all times and shall be kept up to date with work progress and changes to the site.
5. Once the ESQCP has been issued, the contractor may install the initial stage erosion and sediment control BMP's as indicated on the site. A preconstruction meeting between the contractor, engineer, and El Paso County will be held prior to any construction. It is the responsibility of the applicant to coordinate the meeting time and place with County PCD Inspectors staff.
6. Soil erosion control measures for all slopes, channels, ditches, or any disturbed land area shall be completed within 30 minutes after final grading or final earth disturbance has been completed. Disturbed areas and structures which are not at final grade but will remain disturbed for longer than 30 days shall also be stabilized within 30 days after final grading. An area that is going to remain in an inactive state for more than 90 days shall also be seeded. All temporary soil erosion control measures and BMP's shall be maintained until permanent soil erosion control measures are implemented and established.
7. Temporary soil erosion control facilities shall be removed and earth disturbance areas graded and stabilized with permanent soil erosion control measures pursuant to standards and specifications prescribed in the DCM Volume II and the Engineering Criteria Manual (ECM) appendix I.
8. All persons engaged in earth disturbance shall implement and maintain acceptable soil erosion and sediment control measures including BMP's in conformance with the erosion control technical standards of the Drainage Criteria Manual (DCM) Volume II and in accordance with the Stormwater Management Plan (SWMP).
9. All temporary erosion control facilities including BMP's and all permanent facilities intended to control erosion of any earth disturbance operations shall be installed as defined in the approved plans, the SWMP and the DCM Volume II and maintained throughout the duration of the earth disturbance operations.
10. Any earth disturbance shall be conducted in such a manner so as to effectively reduce 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.
11. Any temporary or permanent facility designed and constructed for the conveyance of stormwater around, through, or from the earth disturbance area shall be designed to limit the discharge to a non-erosive velocity.
12. Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash water shall be discharged to or allowed to runoff to State Waters, including any surface or subsurface storm drainage system or facilities.
13. Erosion control blankets shall be used on slopes steeper than 3:1.
14. Building, construction, excavation, or other work 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. BMP's may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances.
15. Vehicle tracking of soils and construction debris off-site shall be minimized. Materials tracked onto roads shall be cleaned up and properly disposed of immediately.
16. 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, including material wastes or unused building materials shall be buried, dumped, or discharged at the site.
17. The owner, site developer, contractor, and/or their authorized agents shall be responsible for the removal of all construction debris, dirt, rock, soil, sediment, and sand that may accumulate in the storm sewer or other drainage management system and stormwater apertures as a result of site development.
18. 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.
19. No chemicals are to be used by the contractor, which have the potential to be released in stormwater unless permission for the use of a specific chemical is granted in writing by the ECM Administrator. In granting the use of such chemicals, special care and monitoring may be required.
20. Bulk storage structures for petroleum products and other chemicals shall have adequate protection so as to contain all spills and prevent any spilled material from entering State Waters, including any surface or subsurface storm drainage system or facilities.
21. No person shall cause the impingement of stormwater flow in the flow line of the curb and gutter or in the ditch line.
22. Activities shall comply with the Colorado Water Quality Control Act (Title 25, Article 6, CWS), and the Clean Water Act (33 USC 1364), in addition to the requirements included in the DCM Volume II and the ECM Appendix I. All appropriate permits must be obtained by the contractor prior to construction (NPDES, Floodplain, 404, fugitive dust, etc.). In the event of conflicts between these requirements and laws, rules, or regulations of other Federal, State, or County agencies, the more restrictive laws, rules, or regulations shall apply.
23. All construction traffic must enter/exit the site at approved construction access points.
24. Prior to actual construction the permittee shall verify the location of existing utilities.
25. A water source shall be available on site during overwork operations and utilized as required to maintain dust from earthwork equipment and wind.
26. The site report for this site has been prepared by \_\_\_\_\_ and shall be considered a part of these plans.
27. 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 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  
 7000 - Perennial  
 4900 Cherry Creek Drive South  
 Denver, CO 80246-1830  
 Attn: Permit Unit



**Colorado Springs Utilities**  
*It's how we're all connected*

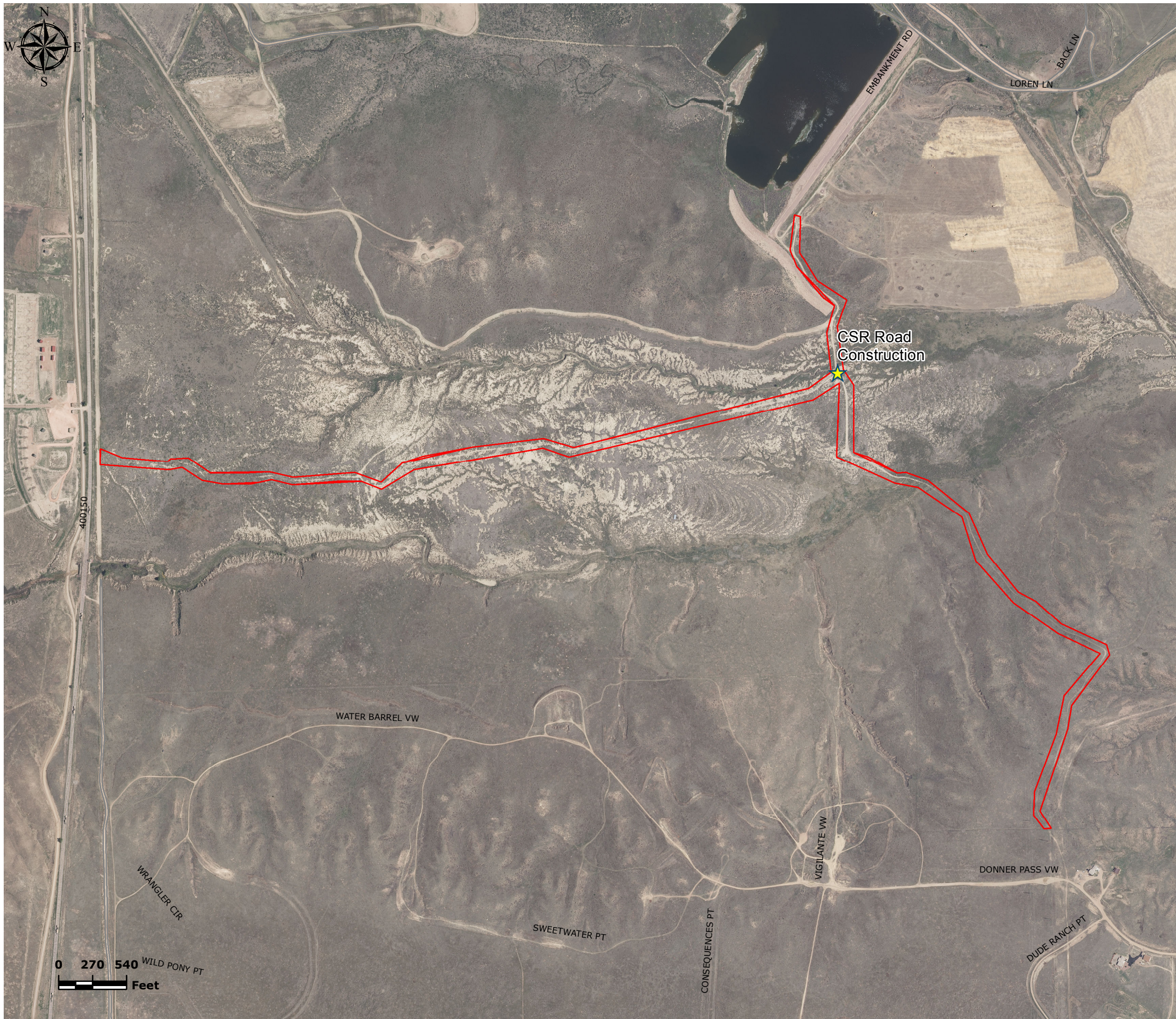
**ENVIRONMENT, HEALTH, & SAFETY DEPARTMENT**

**TECHNICAL SERVICES SECTION**  
 P.O. Box 1103, Mail Code 940  
 COLORADO SPRINGS, CO 80947  
 (719) 668-8688

**TITLE PAGE**  
**EROSION AND STORMWATER QUALITY CONTROL PLAN**

**Clear Springs Ranch**  
**Access Road Fire Break**

Project No:	See SWMP	Figure	1
Prepared By:	RSC	of	4
Date:	OCTOBER 2018		








Colorado Springs Utilities

*It's how we're all connected*

Environmental Services Department  
121 South Tejon Street, Fourth Floor  
Colorado Springs, Colorado 80903

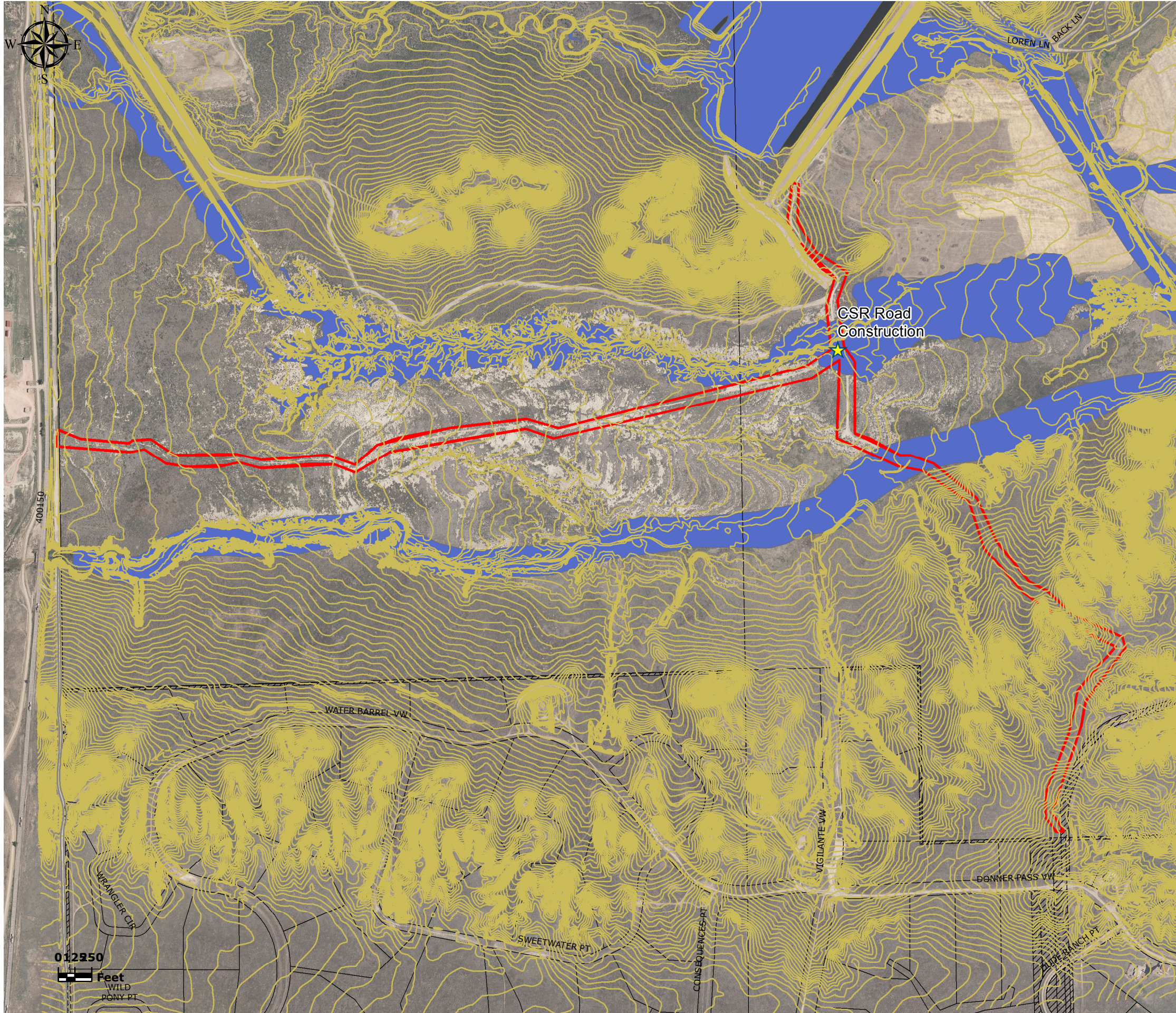
**Legend:**

-  Streets
-  Colorado Springs SW Inlets
-  Water Way
-  Construction Project Location
-  Boundary of Planned Construction Disturbance
-  Construction Project Impervious Areas
-  Hydrant
-  NonPotablePipe
-  PotablePipe
-  RawPipe
-  Existing Water Service Line

**SWMP / ESQCP  
EXISTING SITE CONDITIONS  
CLEAR SPRINGS RANCH ROAD CONSTRUCTION**

**Project No:** WO# 3344840  
**Prepared By:** RICHARD SEBASTIAN-COLEMAN  
**Date:** OCTOBER 2018

**Figure  
Number  
2**



# Colorado Springs Utilities

*It's how we're all connected*

Environmental Services Department  
121 South Tejon Street, Fourth Floor  
Colorado Springs, Colorado 80903

### Legend:

- Streets
- Colorado Springs SW Inlets
- Water Way
- Construction Project Location
- Existing and Proposed Contours (2ft Intervals)
- Boundary of Construction Project
- Property Boundaries
- Utility Easements
- Impervious Areas at Project Site
- 10 Year FEMA Flood Zone
- 100 Year FEMA Flood Zone
- 500 Year FEMA Flood Zone

## SWMP / ESQCP PROPOSED SITE CONDITIONS CLEAR SPRINGS RANCH ROAD CONSTRUCTION

**Project No:** WO# 3344840

**Prepared By:** RICHARD SEBASTIAN-COLEMAN

**Date:** AUGUST 2018

**Figure  
Number**  
**3**



# Colorado Springs Utilities

*It's how we're all connected*

Environmental Services Department  
121 South Tejon Street, Fourth Floor  
Colorado Springs, Colorado 80903

### Legend:

- Streets
- Colorado Springs SW Inlets
- Water Way
- Approximate Surface Flow Direction
- BMPs - Is Action Needed?**
- Install Before Disturbance Begins
- N/A
- No
- Yes
- Pollutant Source - Present?**
- No
- Yes
- Disturbance Area - Current Status**
- Construction
- Finally Stabilized
- Not Started
- Other
- Restoration / Stabilization
- Existing Hydrant
- Non-Potable Water Distribution Main
- Potable Water Distribution Main
- Raw Water Distribution Main
- Existing Water Service Line

Notes:  
 1. Specific areas devoted to equipment and material storage, temporary disposal, and/or soil stockpiles should be marked and updated on this plan throughout construction. Disturbed area on the drawing should include stockpiles.  
 Due to the nature of the project, it is expected that some or all of these items may be located in several areas and may be moved daily.  
 2. Stockpiles should be protected with straw wattles or rock-socks on the downhill side of the stockpile when crews are not at the site.  
 3. Inlet Protection BMPs only need to be present while disturbances from main construction are present within each inlet's drainage area.  
 4. Once construction begins, if additional BMPs are needed, locations should be identified on the inspection report map updates.

**SWMP / ESQCP  
 EROSION CONTROL - PLANNED BMPs  
 AND PROPOSED CONSTRUCTION  
 CLEAR SPRINGS RANCH ROAD CONSTRUCTION**

**Project No:** WO# 3344840  
**Prepared By:** RICHARD SEBASTIAN-COLEMAN  
**Date:** OCTOBER 2018

**Figure  
 Number  
 4**

