



GENERAL VICINITY MAP

CITY OF COLORADO SPRINGS EROSION CONTROL PLAN REVIEW
 This grading plan is filed in accordance with section 7.7.1503 (enacted as ord. 82-56) of the code of the City of Colorado Springs, 2001, as amended. Erosion control is reviewed in accordance with the Drainage Criteria Manual, Vol. I (2014) and Vol. II (2014); latest revisions.

For the City Engineer _____ Date _____
 Notes: Please use county signature blocks attached in checklist

ENGINEER'S STATEMENT
 This Erosion and Stormwater Quality Control/Grading Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. If such work is performed in accordance with the grading and erosion control plan, the work will not become a hazard to life and limb, endanger property, or adversely affect the safety, use, or stability of a public way, drainage channel, or other property. I am employed by and perform engineering services solely for Colorado Springs Utilities, an enterprise of the City of Colorado Springs, and therefore am exempt from Colorado Revised Statute Title 12, Article 25, Part 1 according to §12-26-103(1), C.R.S.

Richard Sebastian-Coleman Provide a PE stamp
 Printed Name
 Richard Sebastian-Coleman Date 9/19/2018
 Authorized Signature

DEVELOPER'S/OWNER'S STATEMENT
 I hereby certify that the drainage and grading for Pinkerton Ph. 1 shall be constructed according to the design presented in this plan. I further understand that field changes must be reviewed by the City Review Engineer to ensure conformance with the original design intent. I am employed by and perform engineering services solely for Colorado Springs Utilities, an enterprise of the City of Colorado Springs, and therefore am exempt from Colorado Revised Statute Title 12, Article 25, Part 1 according to §12-26-103(1), C.R.S.

Developer/Owner Signature: Brad Pritekel Date 9-27-18
 Name of Developer/Owner: Brad Pritekel
 DRA: Colorado Springs Utilities Phone: 719-688-8664
 Title: Operations Supervisor Email: bpritekel@csu.org
 Address: 6543 Ray Nixon Road, Fountain, CO, 80817 Fax:

REPORTING REQUIREMENTS

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: September 4, 2018
 EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED: September 7, 2018
 TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADED: 6.7 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: (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

Clarify where this is located. Show this on sheet 4.

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:

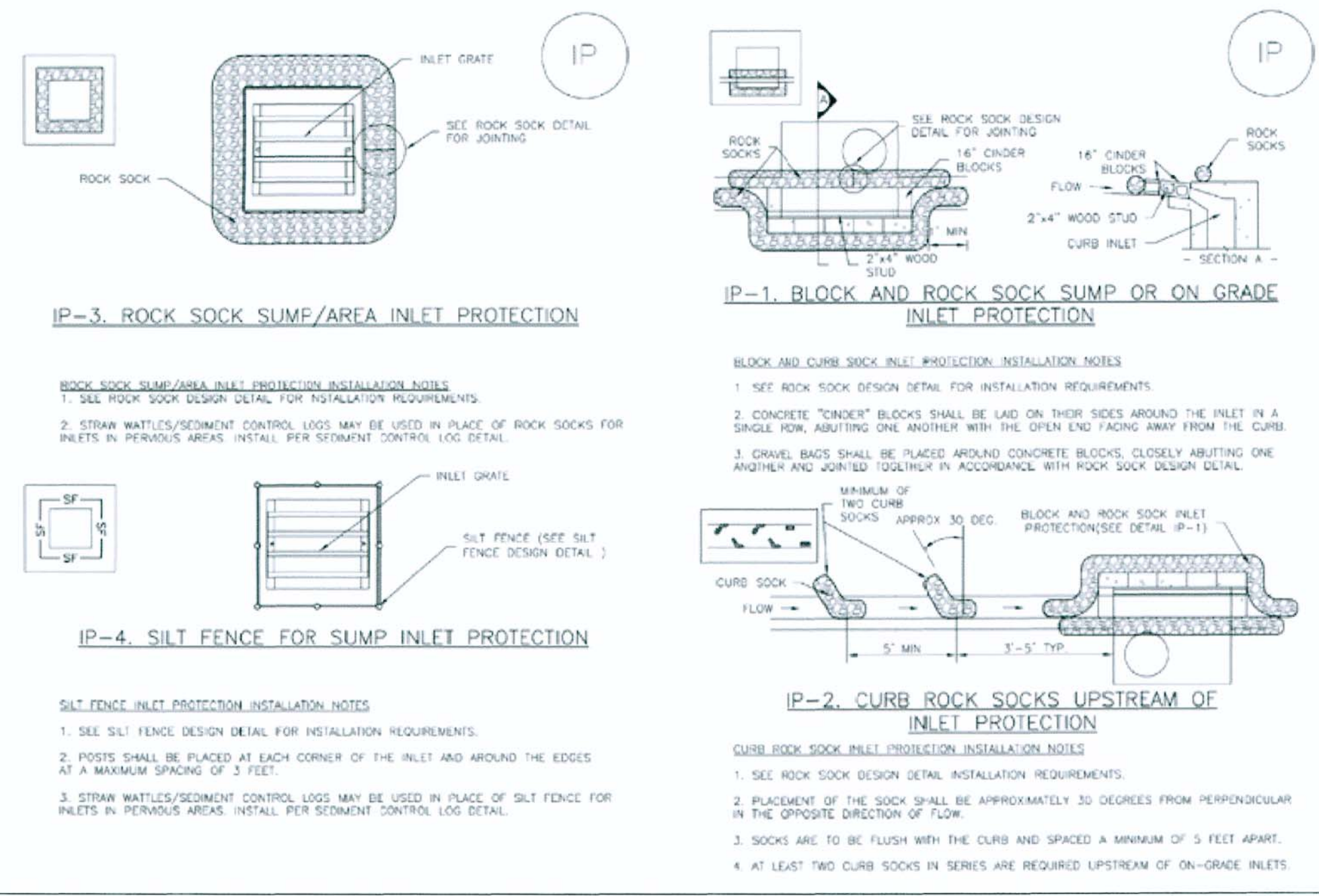
A designated concrete truck washout is not anticipated for this project.
 Fueling of equipment may occur along the project route; fueling guidelines are included in the SWMP.
 The entirety of this project is outside of the designated 100 year floodplain.

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

State that all disturbed areas not within the proposed roadway must be reseeded.

GENERAL NOTES

1. ANY LAND DISTURBANCE BY ANY OWNER, DEVELOPER, BUILDER, CONTRACTOR, OR OTHER PERSON SHALL COMPLY WITH THE BASIC GRADING, EROSION AND STORMWATER QUALITY CONTROL REQUIREMENTS AND GENERAL PROHIBITIONS NOTED IN THE DRAINAGE CRITERIA MANUAL VOLUME II, INCLUDING THE 22 PLAN NOTES IN CH. 7.
2. NO CLEARING, GRADING, EXCAVATION, FILLING OR OTHER LAND DISTURBING ACTIVITIES SHALL BE PERMITTED UNTIL SIGNOFF AND ACCEPTANCE OF THE GRADING PLAN AND EROSION AND STORMWATER QUALITY CONTROL PLAN IS RECEIVED FROM CITY ENGINEERING.
3. THE INSTALLATION OF THE FIRST LEVEL OF TEMPORARY EROSION CONTROL FACILITIES AND BMP'S SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY EARTH DISTURBANCE OPERATIONS TAKING PLACE. CALL CITY STORMWATER INSPECTIONS, 385-5980, 48 HOURS PRIOR TO CONSTRUCTION.
4. SEDIMENT (MUD AND DIRT) TRANSPORTED ONTO A PUBLIC ROAD, REGARDLESS OF THE SIZE OF THE SITE, SHALL BE CLEANED IMMEDIATELY.
5. CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
6. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CH (Include the El Paso County Standard 27 GEC Notes as attached with the checklist) DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER FINAL EARTH DISTURBANCE HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 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.
7. THE GRADING AND EROSION CONTROL PLAN WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE CITY OF COLORADO SPRINGS ENGINEERING SHOULD ANY OF THE FOLLOWING OCCUR: GRADING DOES NOT COMMENCE WITHIN 12 MONTHS OF THE CITY ENGINEER'S ACCEPTANCE OF THE PLAN, A CHANGE IN PROPERTY OWNERSHIP, PROPOSED DEVELOPMENT CHANGES, OR PROPOSED GRADING REVISIONS.
8. THE PLAN SHALL NOT CHANGE THE DEPTH OF COVER, OR ACCESS TO UTILITY LINES. ACCEPTANCE OF THIS PLAN DOES NOT CONSTITUTE APPROVAL TO GRADE IN ANY UTILITY EASEMENT OR RIGHT-OF-WAY. APPROVALS TO GRADE WITHIN UTILITY EASEMENTS MUST BE OBTAINED FROM THE APPROPRIATE UTILITY COMPANY. IT IS NOT PERMISSIBLE FOR ANY PERSON TO MODIFY THE GRADE OF THE EARTH ON ANY COLORADO SPRINGS UTILITIES EASEMENT OR RIGHT-OF-WAY WITHOUT THEIR WRITTEN APPROVAL. THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO UTILITY FACILITIES TO ACCOMMODATE THE PLAN MUST BE APPROVED BY THE AFFECTED UTILITY OWNER PRIOR TO IMPLEMENTING THE PLAN. THE COST TO RELOCATE OR PROTECT UTILITIES OR TO PROVIDE INTERIM ACCESS IS THE APPLICANT'S EXPENSE.



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

INLET PROTECTION MAINTENANCE NOTES

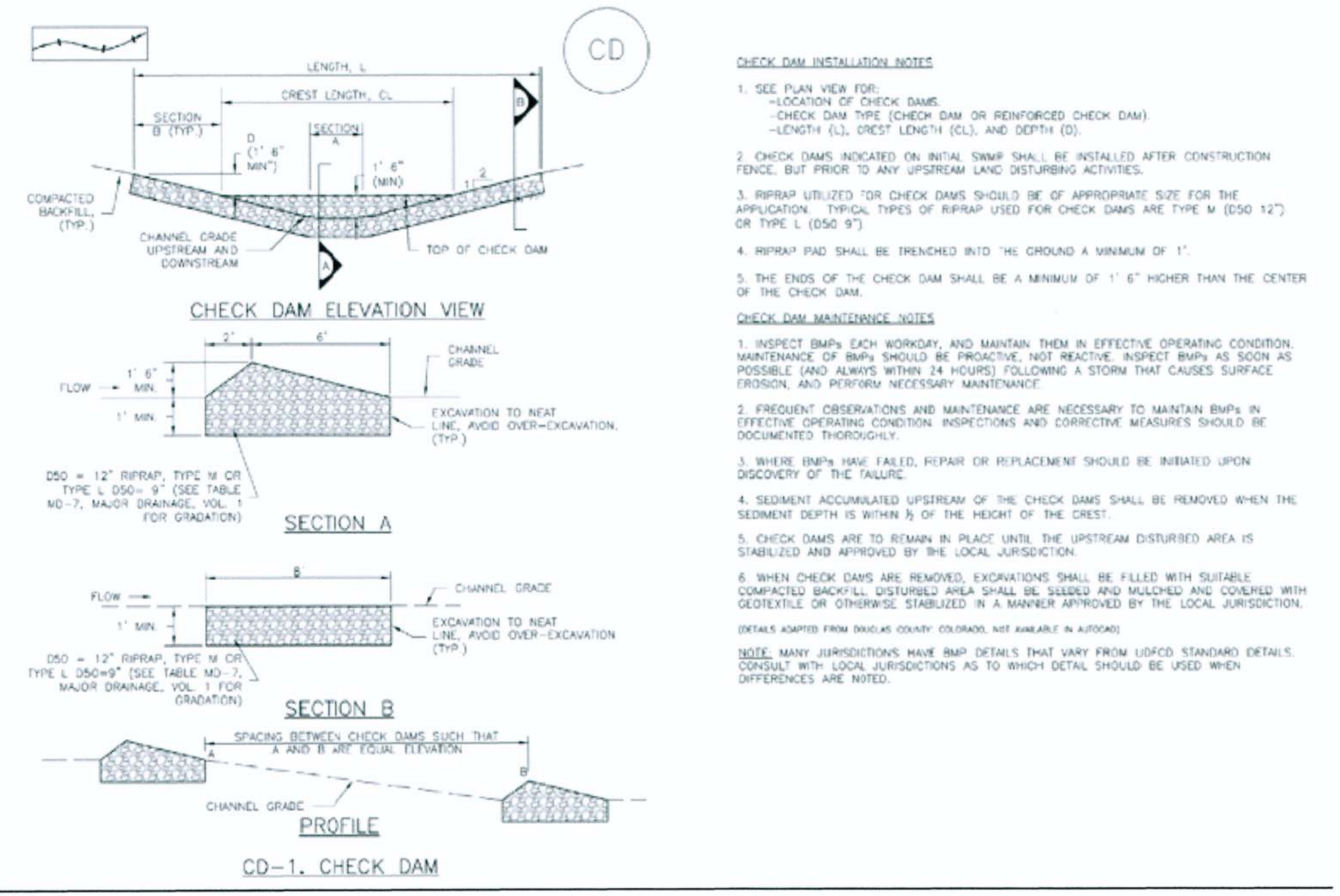
1. INSPECT BMP'S EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMP'S SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMP'S AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMP'S IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF 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 1/3 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 SHELTERS.
6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SKEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF FOUNTAIN, COLORADO AND CITY OF ALBUQUERQUE, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDC 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. USDC NEITHER ENCOURAGES 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.



CHECK DAM INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
 - LOCATION OF CHECK DAMS
 - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM)
 - LENGTH (L), CREST LENGTH (CL), AND DEPTH (D)
2. CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FINISHES, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.
3. RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9")
4. RIPRAP PAD SHALL BE CHECKED INTO THE GROUND A MINIMUM OF 1".
5. THE ENDS OF THE TRUCK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.

CHECK DAM MAINTENANCE NOTES

1. INSPECT BMP'S EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMP'S SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMP'S AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMP'S IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/3 OF THE HEIGHT OF THE CREST.
5. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
6. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL, DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

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

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


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) 688-8688

TITLE PAGE
EROSION AND STORMWATER QUALITY CONTROL PLAN

Clear Springs Ranch
Access Road Fire Break

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

**Figure
Number
2**















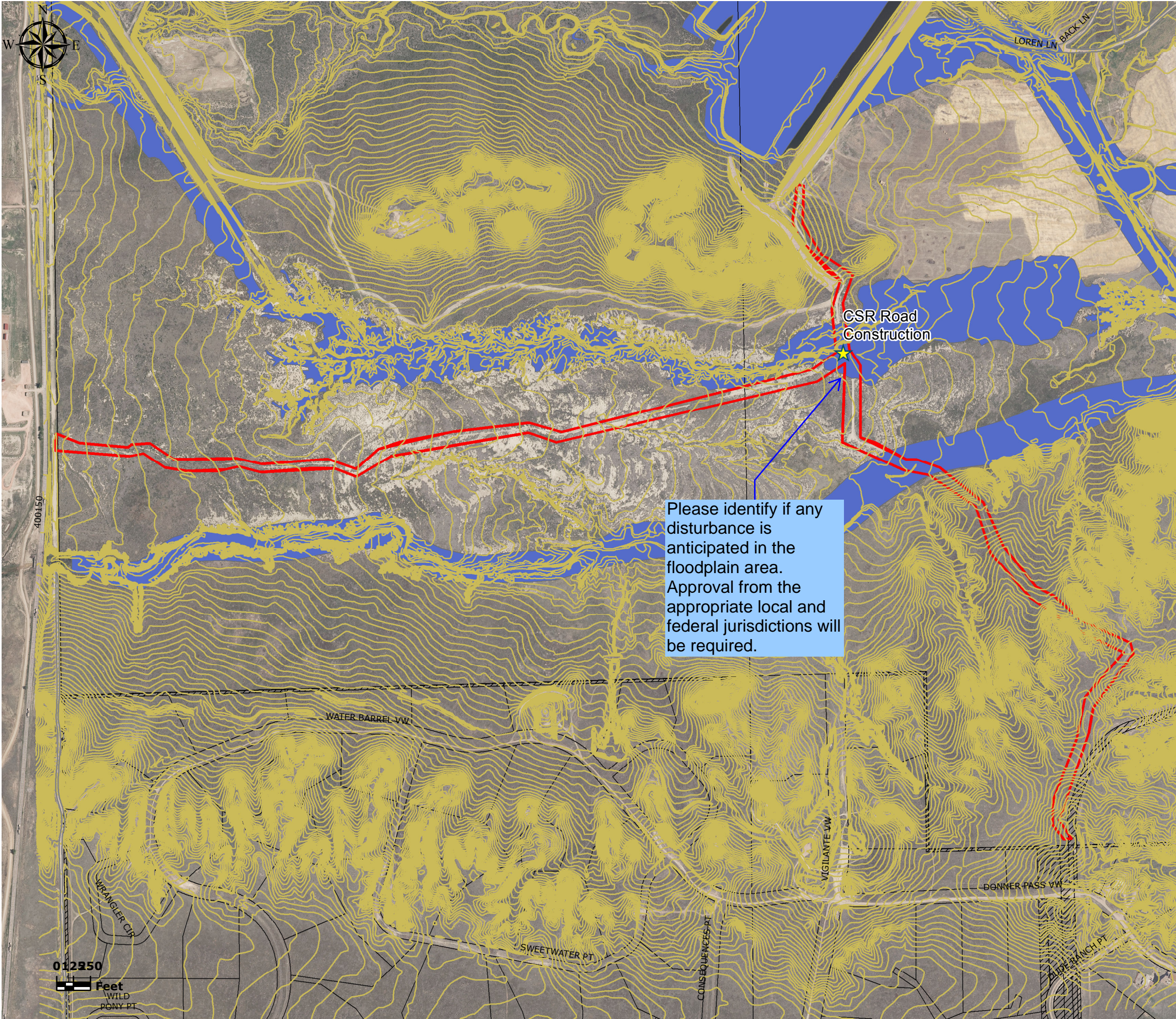
Colorado Springs Utilities

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



Please identify if any disturbance is anticipated in the floodplain area. Approval from the appropriate local and federal jurisdictions will be required.

Separate the existing and proposed contours into two line types

Please call out the owner of each parcel the road runs through.

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

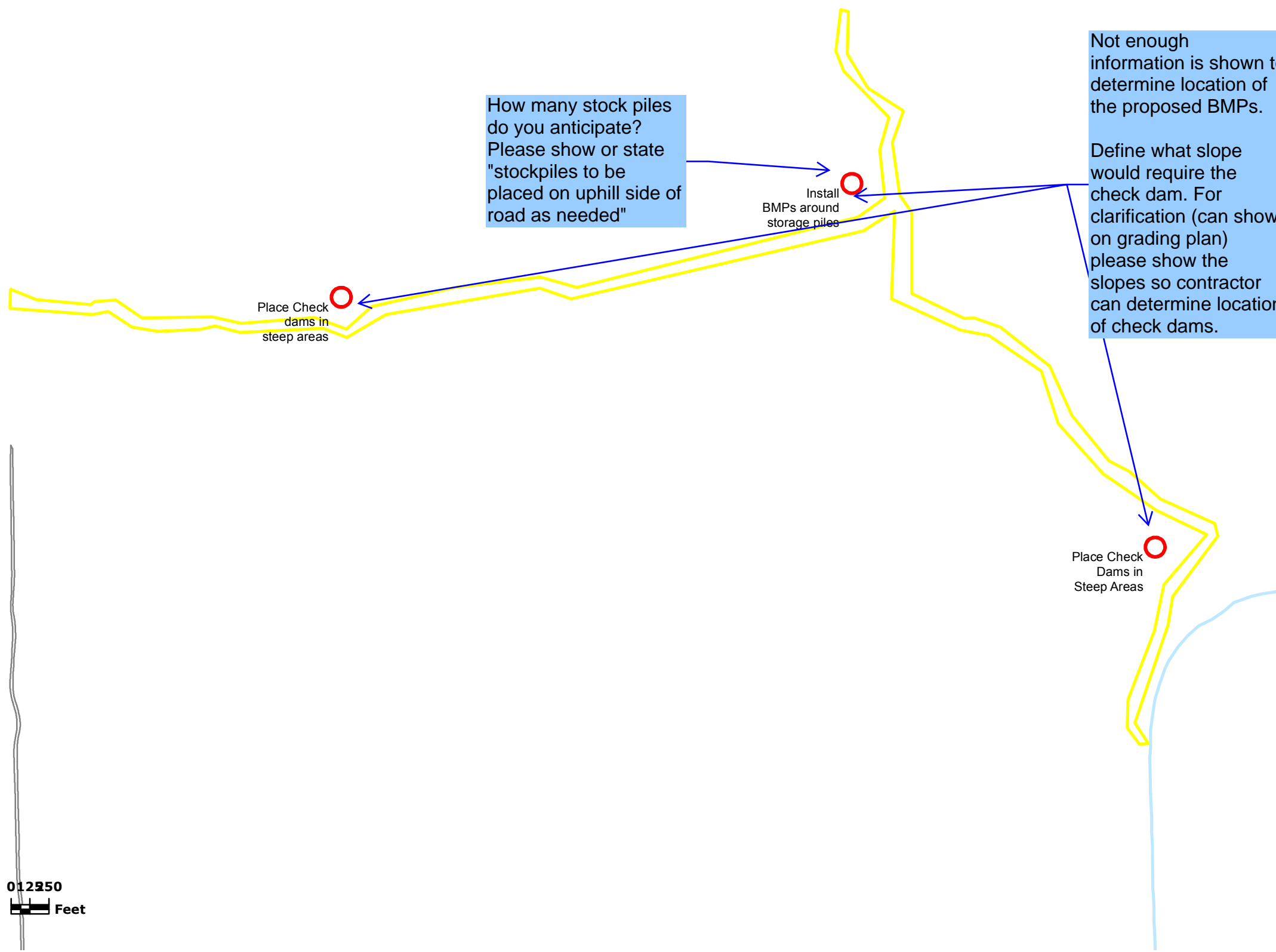
It's how we're all connected

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

Show the location of the VTC

How many stock piles do you anticipate?
Please show or state "stockpiles to be placed on uphill side of road as needed"

Not enough information is shown to determine location of the proposed BMPs.
Define what slope would require the check dam. For clarification (can show on grading plan) please show the slopes so contractor can determine location of check dams.



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

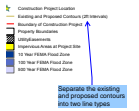
Project No: WO# 3344840
Prepared By: RICHARD SEBASTIAN-COLEMAN
Date: AUGUST 2018

Figure Number
4

012250
Feet

Markup Summary

dsdgrimm (14)



Subject: Engineer
Page Label: 3
Author: dsdgrimm
Date: 10/22/2018 9:15:23 AM
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Separate the existing and proposed contours into two line types



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Author: dsdgrimm
Date: 10/23/2018 1:28:55 PM
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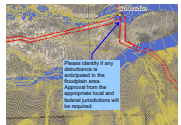


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Author: dsdgrimm
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M OR FACILITIES.
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Standard 27 GEC Notes as DIST
DAYS attached with this checklist. R. PD
PILES WHICH ARE NOT AT FINAL (R
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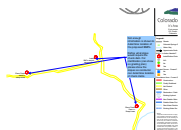
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Page Label: 1
Author: dsdgrimm
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Include the El Paso County Standard 27 GEC Notes as attached with the checklist



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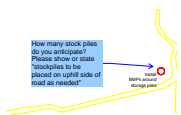
Please identify if any disturbance is anticipated in the floodplain area. Approval from the appropriate local and federal jurisdictions will be required.



Subject: Engineer
Page Label: 4
Author: dsdgrimm
Date: 10/23/2018 1:42:53 PM
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Not enough information is shown to determine location of the proposed BMPs.

Define what slope would require the check dam. For clarification (can show on grading plan) please show the slopes so contractor can determine location of check dams.



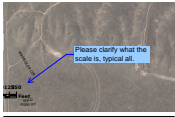
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How many stock piles do you anticipate? Please show or state "stockpiles to be placed on uphill side of road as needed"



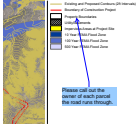
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State that all disturbed areas not within the proposed roadway must be reseeded.



Subject: Engineer
Page Label: 2
Author: dsdgrimm
Date: 10/23/2018 1:48:26 PM
Color: ■

Please clarify what the scale is, typical all.



Subject: Engineer
Page Label: 3
Author: dsdgrimm
Date: 10/23/2018 1:56:01 PM
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Please call out the owner of each parcel the road runs through.

city of a public way, drainage canals, an enterprise of the City or to §12-25-105(1), C.R.S.

Provide a PE stamp

Date 9/19/18

Subject: Engineer
Page Label: 1
Author: dsdgrimm
Date: 10/23/2018 2:01:50 PM
Color: ■

Provide a PE stamp



Subject: Engineer
Page Label: 1
Author: dsdgrimm
Date: 10/23/2018 2:02:29 PM
Color: ■

Please use county signature blocks attached in checklist

Vehicle Tracking Control
Erosion Control Logs

182.80
Clarify where this is located. Show this on sheet 4.

loosely as possible to its pre-construction

Subject: Engineer
Page Label: 1
Author: dsdgrimm
Date: 10/23/2018 2:04:18 PM
Color: ■

Clarify where this is located. Show this on sheet 4.



Show the location of the VTC

Subject: Engineer
Page Label: 4
Author: dsdgrimm
Date: 10/23/2018 8:32:06 AM
Color: ■

Show the location of the VTC