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STERLING RANCH DEVELOPMENT	
GATE BOULEVARD BRIDGE DESIGN PLANS	EL PASO COUNTY STANDARD NOTES
EL PASO COUNTY, COLORADO	<ol> <li>All drainage and roadway construction shall meet the standards and specifications of the City of Color Springs/El Paso County Drainage Criteria Manual, Volumes 1 and 2, and the El Paso County Engineeri Criteria Manual.</li> </ol>
Kiowa Project No. 19032 7/29/2021	2. Contractor shall be responsible for the notification and field notification of all existing utilities, wheth shown on the plans or not, before beginning construction. Location of existing utilities shall be verified the contractor prior to construction. Call 811 to contact the Utility Notification Center of Colorado (UNCC).
please label a couple more streets to make it more clear	<ol> <li>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 construction standards and specifications at the job site at all times, including the following:         <ul> <li>a. El Paso County Engineering Criteria Manual (ECM)</li> <li>b. City of Colorado Springs/El Paso County Drainage Criteria Manual, Volumes 1 and 2</li> <li>c. Colorado Department of Transportation (CDOT) Standard Specifications for Road and Bridge Construction</li> <li>d. CDOT M &amp; S Standards</li> </ul> </li> <li>Notwithstanding anything depicted in these plans in words or graphic representation, all design and</li> </ol>
Being the second	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 Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual, and the Drain 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 the construction plans. Any modifications necessary due to conflicts, omissions, or changed condition 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 (PCD) - Inspections, prior to starting construction.
VICINITY MAP	7. 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 Qualit 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.
SCALE: N.T.S.	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 error 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.
	<ol> <li>Signing and striping shall comply with El Paso County Department of Public Works and MUTCD criter [If applicable, additional signing and striping notes will be provided.]</li> </ol>
ר "ff"	14. Contractor shall obtain any permits required by El Paso County Department of Public Works, includin Work Within the Right-of-Way and Special Transport permits.
STATEMENTS	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.
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	INDEX OF SHEETS
correct to the best of my knowledge and belief. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparation of these detailed plans and specifications.	GEC0 GRADING & EROSION CONTROL COVER SHEET GEC1 GRADING & EROSION CONTROL PLANS GEC2 GEC NOTES AND SPECIFICATIONS
Todd Cartwright, P.E. #33365   Date	GEC3 GEC NOTES AND SPECIFICATIONS GEC4 GEC NOTES AND SPECIFICATIONS
For and on behalf of Kiowa Engineering Corp. Owner/Developer's Statement:	
I, the owner/developer have read and will comply with of the requirements of the Grading and Erosion Control Plans and all of the requirements specified in these detailed plans and specifications.	
James Morley     Date       Sterling Ranch Metropolitan District     Date	ABBREVIATIONS
El Paso County:	ASSY = ASSEMBLY MIN. = MINIMUM BNDY = BOUNDARY NTS = NOT TO SCALE
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.	BOP= BOTTOM OF PIPEOD= OUTSIDE DIAMETERCL= CENTERLINEPC= POINT OF HORIZONTAL CURVATURECRA= CONCRETE REVERSE ANCHORPP= PROPOSEDCTRB= CONCRETE THRUST BLOCKPT= POINT OF HORIZONTAL TANGENCYCR= POINT OF CURB RETURNPVC= POLY VINYL CHLORIDE PIPEDIP= DUCTILE IRON PIPEPVC= POINT OF VERTICAL CURVATURE
Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual, and Engineering Criteria Manual as amended.	EL= ELEVATIONPVI= POINT OF VERTICAL INTERSECTIONESMTEASEMENTPVT= POINT OF VERTICAL TANGENCYEX.= EXISTINGRCB= REINFORCED CONCRETE BOXFC= FACE OF CURBRCP= REINFORCED CONCRETE PIPE
Volumes 1 and 2 In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Directors discretion.	FES= FLARED END SECTIONROW= RIGHT OF WAYFLG= FLANGERT= RIGHTFL= FLOWLINESHT= SHEETGB= GRADE BREAKSS= SANITARY SEWERHP= HIGH POINTSTA= STATIONHORIZ= HORIZONTALSTD= STANDARDHYD= HYDRANTTA= TOP OF ASPHALT
Jennifer Irvine, P.E., Date County Engineer / ECM Administrator	I.D.= INSIDE DIAMETERTC= TOP OF CURB $LT$ = LEFTTOP= TOP OF PIPE $LF$ = LINEAR FEETTOR= TOP OF ROCK $LP$ = LOW POINTTYP= TYPICALMAX= MAXIMUMVC= VERTICAL CURVEMH= MANHOLEVERT= VERTICAL

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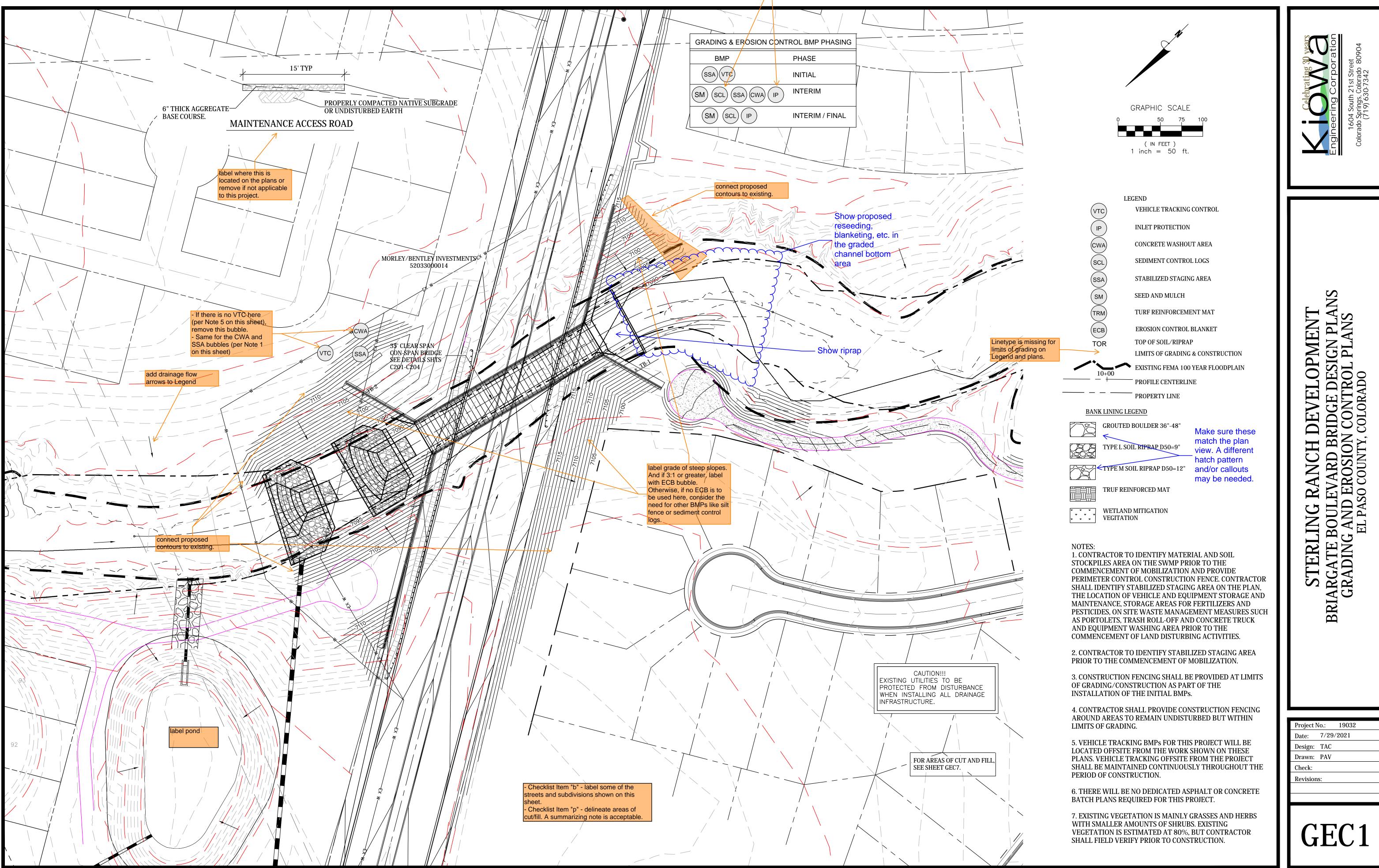
be approved

)4 South Springs, (719) 63

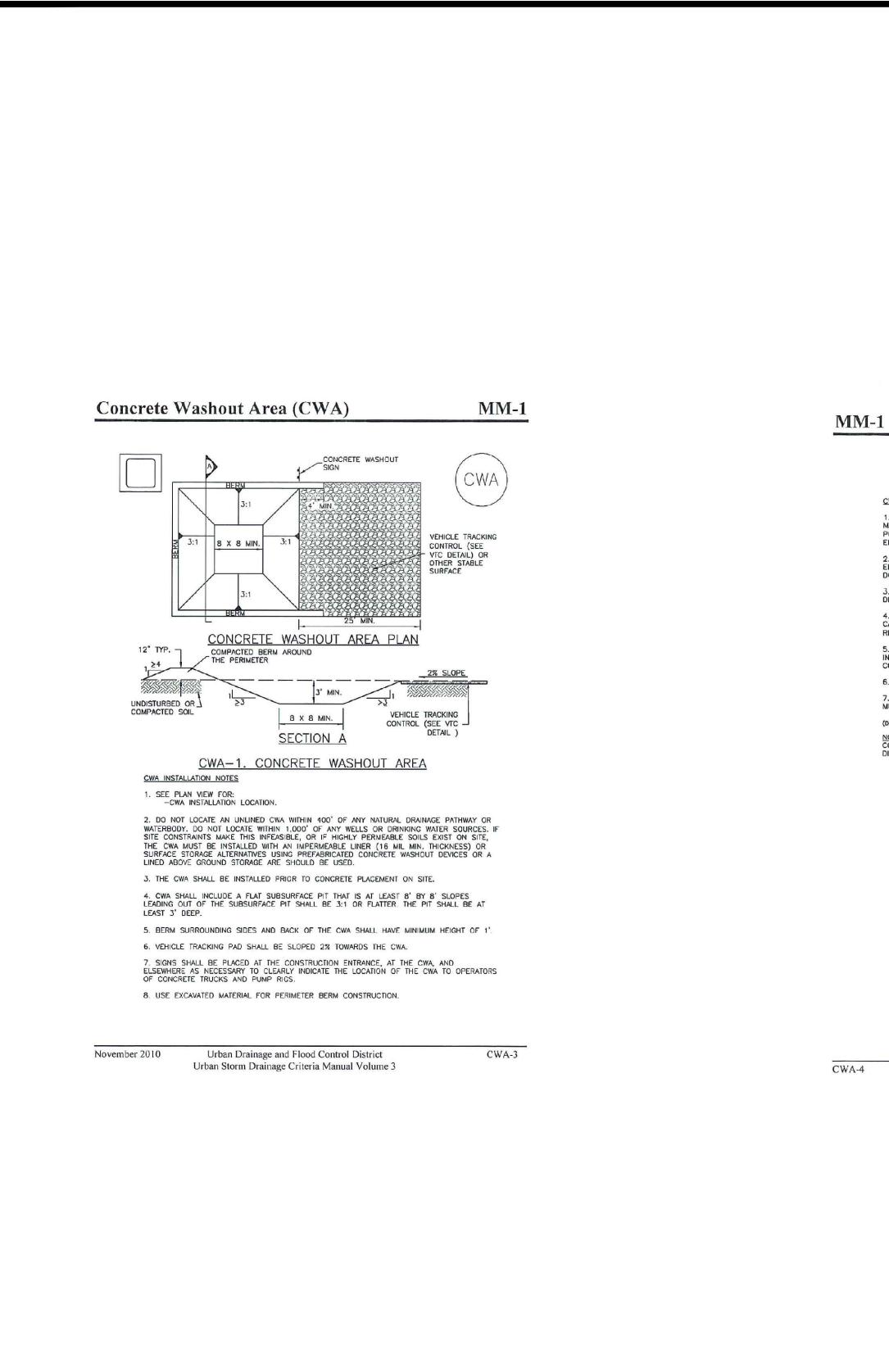
Project No.: 19032 Date: 7/29/2021 Design: TAC Drawn: PAV Check:

**Revisions:** 

**GECO** 



### Show locations of SCL and IP on plans.



# Concrete Washout Area (CWA)

### CWA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'. 5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY. 6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.

7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION. (DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD). NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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

Provide a riprap gradation table

	PROJECT SPECIFIC GRADING AND EROSION CONTROL NOTES
1.	All earthwork required of this construction shall be completed in accordance with all applicable sections of the
	Project Specifications and Soil Investigation Report (Geotechnical Report).
2.	Rubbish including timber, concrete rubble, trees, brush, and asphalt shall not be backfilled adjacent to any of the
	structures or be in the placement of any unclassified fill. The Contractor shall be responsible for the removal ar
	hauling of such materials to a suitable spoil area. Costs associated with the removal of such materials shall be
_	paid for as documented in the Project Specifications.
3.	Excess excavation shall become the property of the Contractor and shall be disposed of at the Contractor's
	expense. The cost of haulage and spoiling of excess excavated materials shall be paid for as documented in the
	Project Specifications.
4.	Water shall be used as a dust palliative as required and shall be included in the cost for earthwork item(s). No
~	separate payment will be made for dust control associated with the site construction.
5.	The road grades shall be cleared of vegetation and the topsoil stockpiled for later use.
6. 7	All grading shall be in conformance with the Geotechnical Report for the area.
7. 8.	Placement of fill for roadway embankments shall be completed in conformance with the Geotechnical Report. Grading contours shown on this plan are to final grade.
0. 9.	Compaction under filled areas, including roadway and detention basin embankments, shall be 95 percent of the
5.	maximum Standard Proctor Density (ASTM D698) at two (2) percent of optimum moisture content.
10	No rubble or debris shall be placed in the backfill under any of the proposed buildings, streets, curb & gutter,
	sidewalk and drainage structures or within five (5) feet of a building footprint. Properly graded rubble may be used
	in some locations as specified and verified by the Geotechnical Engineer.
11.	Contractor is responsible for reviewing the site prior to bidding to verify site conditions.
	Contractor is responsible for providing erosion control measures as approved by the El Paso County PCD
	Engineering Division and as may be required by the El Paso County Inspector.
13.	All slopes equal to or greater than 3:1 shall require anchored soil retention blanket (SRB), Geocoir 700 or equa
	The Developer is responsible for maintaining erosion control measures until a mature stage of vegetation is
	established.
15.	All soils used for fill must be approved by a representative of the Geotechnical Engineer.
	All natural ground to receive fill must be properly scarified, watered and compacted prior to placing fill.
17.	The Contractor is solely responsible for the design, maintenance and operation of any required dewatering syst
	The Contractor shall perform such independent investigation as he deems necessary to satisfy himself as to the
	subsurface groundwater conditions and unstable soil conditions to be encountered throughout the construction.
	Contractor shall coordinate the dewatering system with El Paso County when associated with public facilities.
18.	No fill shall be placed, spread or rolled while it is frozen, thawing or during unfavorable weather conditions. Wh
	the work is interrupted by heavy rain, fill operations shall not be resumed until a representative of the Geotechn
	Engineer indicates that the moisture content and density of the previously placed fill are as specified. Fill surface
40	may be scarified and recompacted after rainfall if necessary, to obtain proper moisture density relation.
	Additional erosion control structures and/or grading may be required at the time of construction.
	Sediment removal for erosion control facilities shall be performed continuously for proper function.
	Base mapping was provided by MS Civil Engineers The date of the last survey update was 2019.
۲۲.	Proposed Construction Schedule: Begin Construction: pending
	End Construction: pending
	Total Site Area = 60 Acres
23	
20.	Existing 100-year runoff coefficient = 0.25
	Proposed 100-year runoff coefficient = 0.25
	Existing Hydrologic Soil Groups: HSG A & B
	Site is currently undeveloped and covered with native gracess on mild to aderate to steep clopes (19/ 49/)

Site is currently undeveloped and covered with native grasses on mild to oderate to steep slopes (1%-4%). 24. Site is located in the Sand Creek Drainage Basin.

tures or within five (5) feet of a building footprint. Properly graded rubble may be used

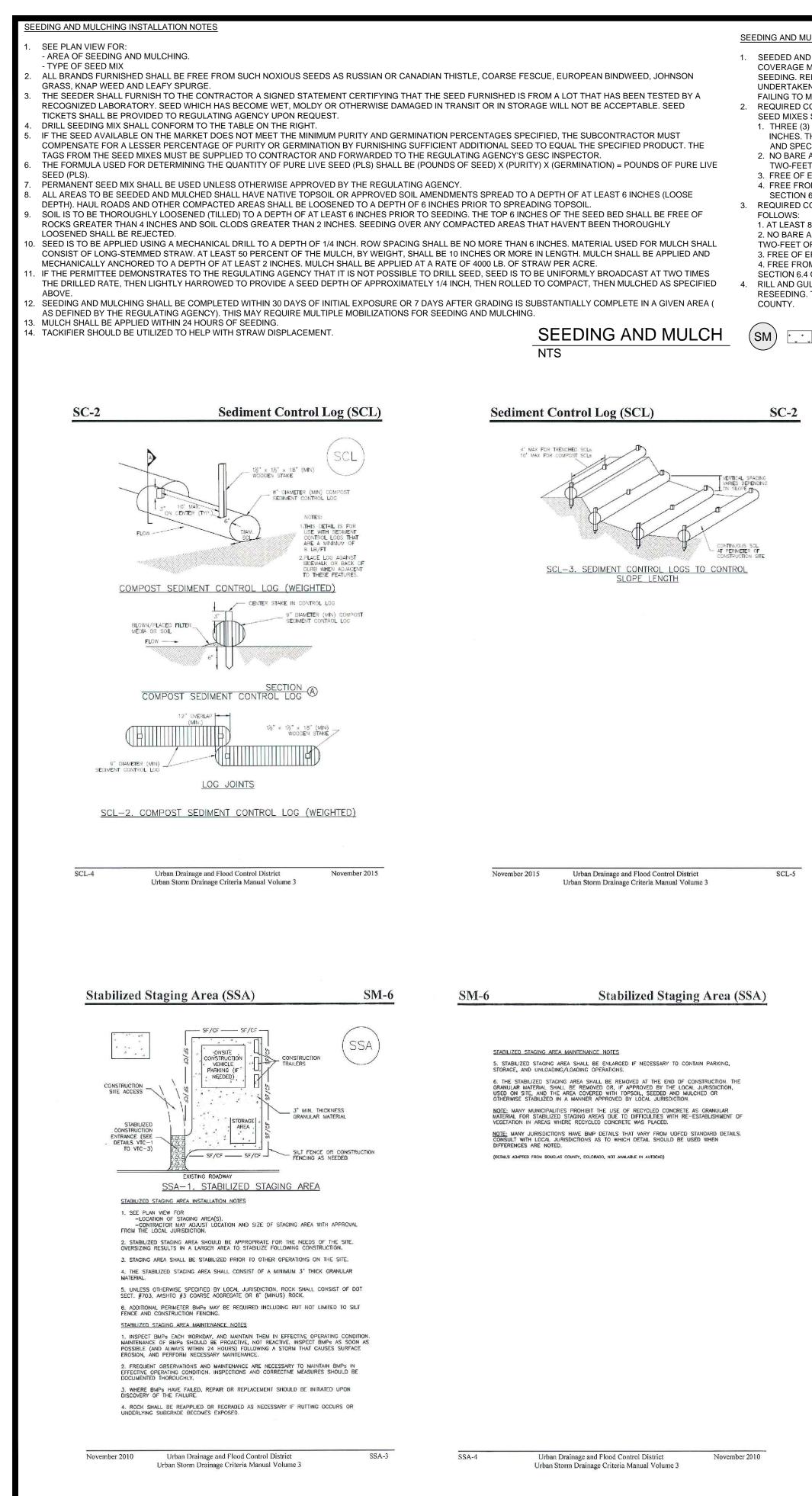
fill must be properly scarified, watered and compacted prior to placing fill. ponsible for the design, maintenance and operation of any required dewatering system. n such independent investigation as he deems necessary to satisfy himself as to the ditions and unstable soil conditions to be encountered throughout the construction. he dewatering system with EI Paso County when associated with public facilities. d or rolled while it is frozen, thawing or during unfavorable weather conditions. When eavy rain, fill operations shall not be resumed until a representative of the Geotechnical noisture content and density of the previously placed fill are as specified. Fill surfaces bacted after rainfall if necessary, to obtain proper moisture density relation.

H DEVELOPMENT BRIDGE DESIGN PLANS PECIFICATIONS Y, COLORADO D B] SP] NTY, CH STERLING RANC ARGATE BOULEVARD GEC NOTES AND EL PASO COUN BRIA

Project No.: 19032 Date: 7/29/2021 Design: TAC Drawn: PAV Check:







ND MULCHED AREAS SHALL BE INSPECTED FOR REQUIRED	SEED MIX
E MONTHLY FOR A PERIOD OF TWO YEARS FOLLOWING INITIAL REPAIRS AND RE-SEEDING AND MULCHING SHALL BE EN AFTER THE FIRST GROWING SEASON FOR ANY AREAS I MEET THE REQUIRED COVERAGE.	AREAS DISTURBED BY THE EARTHWORK SHALL BE PERMANENTLY REVEGETATED WITH NATIVE GRASSES. NATIVE SEED MIX FOR THIS PROJECT SHALL BE AS FOLLOWS:
COVERAGE FOR STANDARD, OPEN SPACE AND LOW GROWTH S SHALL BE DEFINED AS FOLLOWS: 3) PLANTS PER SQUARE FOOT WITH A MINIMUM HEIGHT OF 3 THE 3 PLANTS PER SQUARE FOOT SHALL BE OF THE VARIETY ECIES FOUND IN THE DOUGLAS COUNTY-APPROVED MIX. E AREAS LARGER THAN 4 SQUARE FEET (TWO-FEET BY ET OR EQUIVALENT). FERODED AREAS. ROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH N 6.4 OF THE GESC CRITERIA MANUAL. COVERAGE FOR TURF GRASS AREAS SHALL BE DEFINED AS	SPECIESpls/acreWESTERN WHEAT GRASSPasopyrum smithii3.0SIDEOATS GRAMABouteloua curtipendula2.0SLENDER WHEAT GRASSElymus trachycaulus2.0LITTLE BLUESTEMSchizachyrium scoparium2.0BLUE GRAMABouteloua gracilis0.5SWITCH GRASSPanicum virgatum2.0JUNE GRASSKoeleria cristata0.5SAND DROPSEEDSporobolus cryptandrus0.512.5 lbs
T 80% VEGETATIVE COVER OF GRASS SPECIES PLANTED. AREAS LARGER THAN 4 SQUARE FEET (TWO-FEET BY OR EQUIVALENT. ERODED AREAS. OM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH 4 OF THE GESC CRITERIA MANUAL. ULLY EROSION SHALL BE FILLED WITH TOPSOIL PRIOR TO 5. THE RESEEDING METHOD SHALL BE APPROVED BY THE	<u>SEEDING APPLICATION</u> : DRILL SEED 1/4" TO 1/2" INTO TOPSOIL. IN AREAS INACCESSIBLE TO A DRILL, HAND BROADCAST AT DOUBLE THE RATE AND RAKE 1/4" TO 1/2" INTO THE TOPSOIL. <u>MULCHING APPLICATION</u> : 1–1/2 TONS NATIVE HAY PER ACRE, MECHANICALLY CRIMPED INTO THE TOPSOIL OR HYDROMULCH.

## Sediment Control Log (SCL)

SEDIMENT CONTROL LOG INSTALLATION NOTES

SC-2

1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS. 2. SEDIMENT CONTROL LOCS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSION OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.

 SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS. 5. IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY % OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.

6. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TICHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.

7. FOLLOW MANUFACTURERS' CUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER. SEDIMENT CONTROL LOG MAINTENANCE NOTES

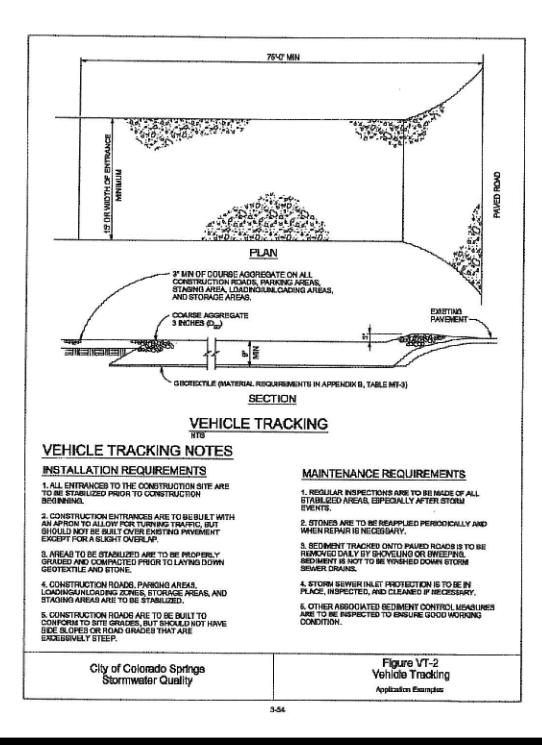
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2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY  $\frac{1}{2}$  OF THE HEIGHT OF THE SEDIMENT CONTROL LOG. 5. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION.COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WIT TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED B THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO 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.

Jrban Drainage and Flood Control District November 2015 SCL-6 Urban Storm Drainage Criteria Manual Volume



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

Revised 7/02/19

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.

2. Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted El Paso County standards, including the Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual, and the Drainage Criteria Manual Volume 2. Any deviations from regulations and standards must be requested, and approved, in writing.

3. 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.

4. Once the ESQCP is approved and a "Notice to Proceed" has been issued, the contractor may install the initial stage erosion and sediment control measures as indicated on the approved GEC. A Preconstruction Meeting between the contractor, engineer, and El Paso County will be held prior to any construction. It is the responsibility of the applicant to coordinate the meeting time and place with County staff.

5. Control measures must be installed prior to commencement of activities that 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.

6. All temporary sediment and erosion control measures shall be maintained and remain in effective operating condition until permanent soil erosion control measures are implemented and final stabilization is established. All persons engaged in land disturbance activities shall assess the adequacy of control measures at the site and identify if changes to those control measures 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.

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.

8. Final stabilization must be implemented at all applicable construction sites. Final stabilization is achieved when all ground disturbing activities are complete and all disturbed areas either have a uniform vegetative cover with individual plant density of 70 percent of pre-disturbance levels established or equivalent permanent alternative stabilization method is implemented. All temporary sediment and erosion control measures shall be removed upon final stabilization and before permit closure.

9. All permanent stormwater management facilities shall be installed as 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.

10. 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. 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.

11. Compaction of soil must be prevented in areas designated for infiltration control measures or where final stabilization will be achieved by vegetative cover. Areas designated for infiltration control 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).

12. Any temporary or permanent facility designed and constructed for the conveyance of stormwater around. through, or from the earth disturbance area shall be a stabilized conveyance designed to minimize erosion and the discharge of sediment off site.

13. Concrete wash water shall be contained and disposed of in accordance with the 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.

14. 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.

15. Erosion control blanketing or other protective covering shall be used on slopes steeper than 3:1. 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, building material wastes or unused

17. Waste materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in accordance with an approved Traffic Control Plan. Control measures may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances.

building materials shall be buried, dumped, or discharged at the site.

18. Tracking of soils and construction debris off-site shall be minimized. Materials tracked off-site shall be cleaned up and properly disposed of immediately.

19. The owner/developer shall be responsible for the removal of all construction debris, dirt, trash, rock, sediment, soil, and sand that may accumulate in roads, storm drains and other drainage conveyance systems and stormwater appurtenances as a result of site development.

20. The quantity of materials stored on the project site shall be limited, as much as practical, to that quantity required to perform the work in an orderly sequence. All materials stored on-site shall be stored in a neat, orderly manner, in their original containers, with original manufacturer's labels.

21. No 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.

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.

23. No person shall cause the impediment of stormwater flow in the curb and gutter or ditch except with approved sediment control measures.

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.

25. All construction traffic must enter/exit the site only at approved construction access points.

26. Prior to construction the permittee shall verify the location of existing utilities.

27. A water source shall be available on site during earthwork operations and shall be utilized as required to minimize dust from earthwork equipment and wind.

28. The Sub-Surface Soil INvestigation, Sterling Ranch Bridges prepared by Entech Engineering shall be considered a part a part of these plans.

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:

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

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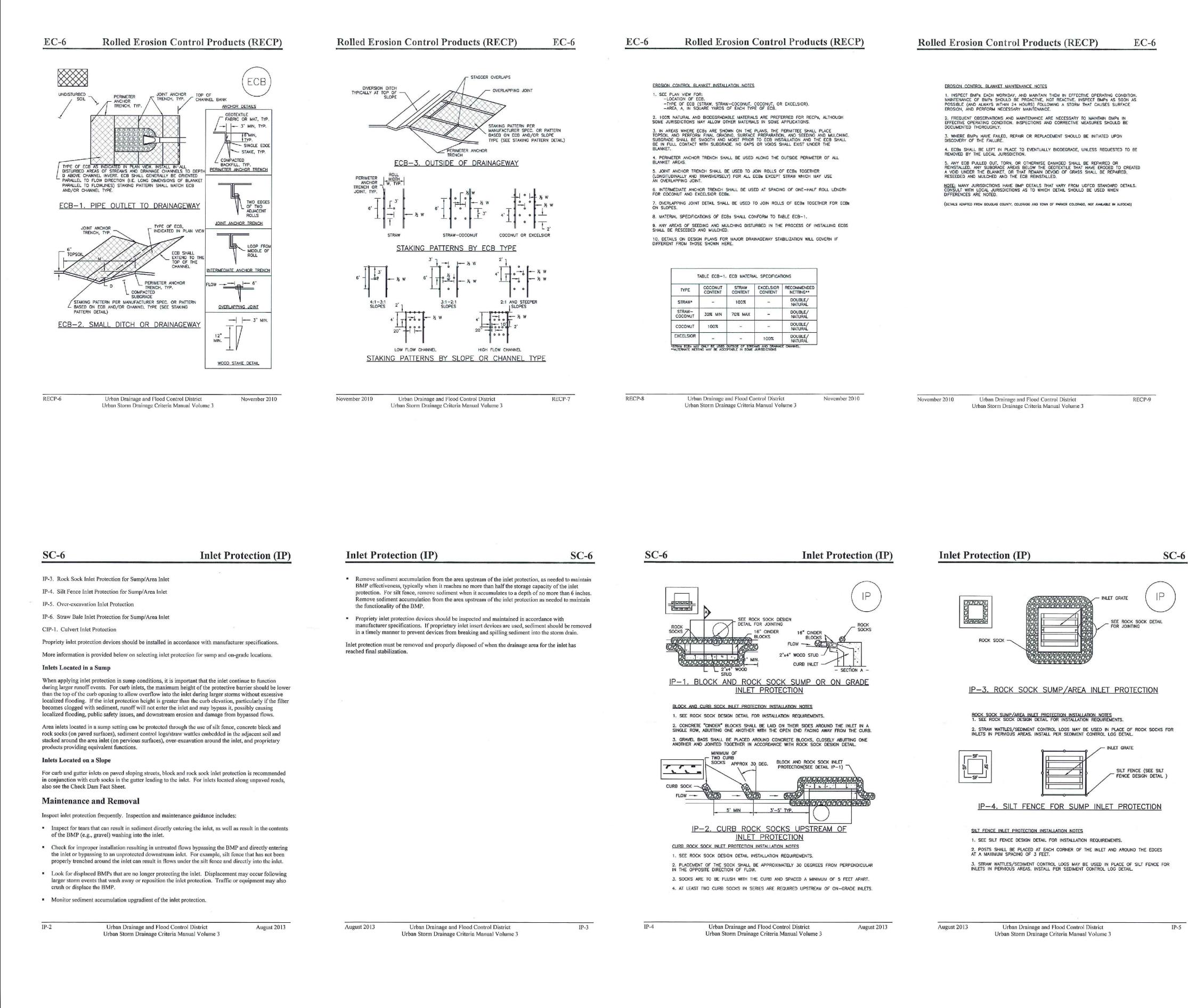
TERLING

Project No.: 19032 Date: 7/29/2021 Design: TAC Drawn: PAV

Revisions

Check:





	COCONUT	STRAW	EXCELSIOR	RECOMMENDED
TYPE	CONTENT	CONTENT	CONTENT	NETTING**
STRAW*	-	100%	-	DOUBLE/ NATURAL
STRAW- COCONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL
COCONUT	100%	-	-	DOUBLE/ NATURAL
EXCELSIOR	H	-	100%	DOUBLE/

## Inlet Protection (IP)

### 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



SC-6

Install protection at storm sewer inlets Photograph IP-1. Inlet protection for a curb opening inlet. that are operable during construction.

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 not a stand-alone BMP and should be used in conjunction with other upgradient BMPs.

### **Design and Installation**

Consider the potential for tracked-out

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

Functions Erosion Control No Sediment Control Yes IP-2. Curb (Rock) Socks Upstream of Inlet Protection, On-grade Site/Material Management No

Inlet Protection

(various forms)

IP-1

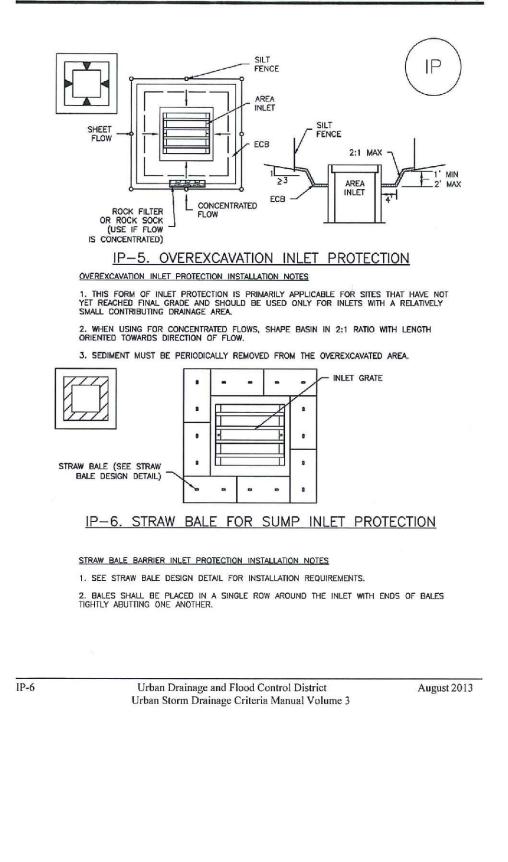
19032 Sand Creek at Sterling Ranch/o

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



Inlets

**Inlet Protection (IP)** 



1600 Springs, Colorado Springs, Colorado 80904 (719) 630-7342	
STERLING RANCH DEVELOPMENT BRIARGATE BOULEVARD BRIDGE DESIGN PLANS GEC NOTES AND SPECIFICATIONS EL PASO COUNTY, COLORADO	
Project No.:         19032           Date:         7/29/2021           Design:         TAC	
Drawn: PAV Check: Revisions:	
GEC4	