## STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL

PLANS:

- 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 TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 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.
- ONCE THE ESQCP HAS BEEN 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.
- 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.
- 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 PLAN DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT 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.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. 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 WASHOUT 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 COSNTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES. 18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL
- BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY. 19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK,
- SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT. 20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT
- QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. 1. 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 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 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 AT APPROVED CONSTRUCTION ACCESS POINTS.
- 26. PRIOR TO CONSTRUCTION THE PERMITEE 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 SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC., DATED 5/25/2022 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- 29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 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

# WATERVIEW EAST COMMERCIAL PRE-SUBDIVISION GRADING AND EROSION CONTROL PLANS EL PASO COUNTY, STATE OF COLORADO



## VICINITY MAP

She	eet List Table
Sheet Number	Sheet Title
C 3.0	GESQCP PLAN COVER SHEET
C 3.1	GEC INITIAL PLAN
C 3.2	GEC INTERIM PLAN
C 3.3	GEC FINAL PLAN
C 3.4	GEC DETAILS (1 OF 4)
C 3.5	GEC DETAILS (2 OF 4)
C 3.6	GEC DETAILS (3 OF 4)
C 3.7	GEC DETAILS (4 OF 4)

## SOIL TYPE

THE SOIL ON SITE IS USGS HYDROLOGIC SOIL GROUP A/B. FLOOD ZONE DESIGNATION

FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, MAP NUMBER 08041C0768G, EFFECTIVE DATE DECEMBER 7, 2018 INDICATES THIS PARCEL OF LAND IS LOCATED IN ZONE X (AREA OF MINIMAL FLOOD HAZARD).

## SITE INFORMATION:

TIMING ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: START: SUMMER 2023 END: SUMMER 2024

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETE

AREAS: TOTAL DISTURBED AREA: 22.12 ACRES

SUMMER 2025

RECEIVING WATERS: NAME OF RECEIVING WATERS: WEST HALF OF SITE: BIG JOHNSON RESERVOIR EAST HALF OF SITE: WEST FORK, JIMMY CAMP CREEK

DESCRIPTION OF EXISTING VEGETATION: THE EXISTING SITE CURRENTLY VACANT. GROUND COVER CONSISTING OF 100% WEEDS, GRASSES, AND TREES.

DESCRIPTION OF PERMANENT BMPS: FULL SPECTRUM EXTENDED DETENTION BASINS

SOILS INFORMATION:

SOIL GROUP: 50% A, 50% B SOIL SLOPES: 3 H: 1V OR LESS FOR ALL UN-RETAINED AREAS NOTES:

NO BATCH PLANTS OR MASONRY MIX STATIONS WILL BE UTILIZED ON SITE. 2. NO SPRINGS, STREAMS, WETLANDS, OR OTHER SURFACE WATER CROSS THE SITE.

## CONTACTS:

WATERVIEW COMMERCIAL INVESTORS, LLC 2727 GLEN ARBOR DRIVE COLORADO SPRINGS, CO 80920 TEL: (719) 331–0083 CONTACT: HEATH HERBER

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. 2 NEVADA NORTH AVE., SUITE 300 COLORADO SPRINGS, CO 80903 TEL: (719) 453-0180 CONTACT: JESSICA MCCALLUM, P.E.

SURVEYOR: RIDGELINE LAND SURVEYING 31 E. PLATTE AVE., SUITE 206 COLORADO SPRINGS, CO 80903 TEL: (719) 238–2917 CONTACT: JAMES F. LENZ

EL PASO COUNTY: EL PASO COUNTY PCD DEPARTMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 PHONE: (719) 520-6300

## LAND AF TOTAL PROPE

BENCHM COLORADO S A BERNTSEN A ROAD BOX BOULEVARD ELEVATION -

## LEGAL D

A TRACT OF OF THE 6TH COMMENCING THENCE SOO" 1613.76 FEET RECORDED IN THE FOLLOWI BRADLEY ROA 1) THENCE 2) THENCE FEET, A DEL 728.16 FEET; 3) THENCE THENCE DEP NON-TANGEN THENCE ON S DELTA ANGLE THENCE S57 THENCE ON S

DELTA ANGLE FEET; THENCE S67 THENCE S22\* THENCE ON S DELTA ANGLE THENCE SOO" THENCE N90° OF-WAY LINE HIGHWAY 21) THE FOLLOWI RIGHT-OF-W RECORDS OF 1) THENCE 2) THENCE FEET, A DEL 208.05 FEET 3) THENCE

4) THENCE FEET, A DEL 671.59 FEET; 5) THENCE PARCEL CON

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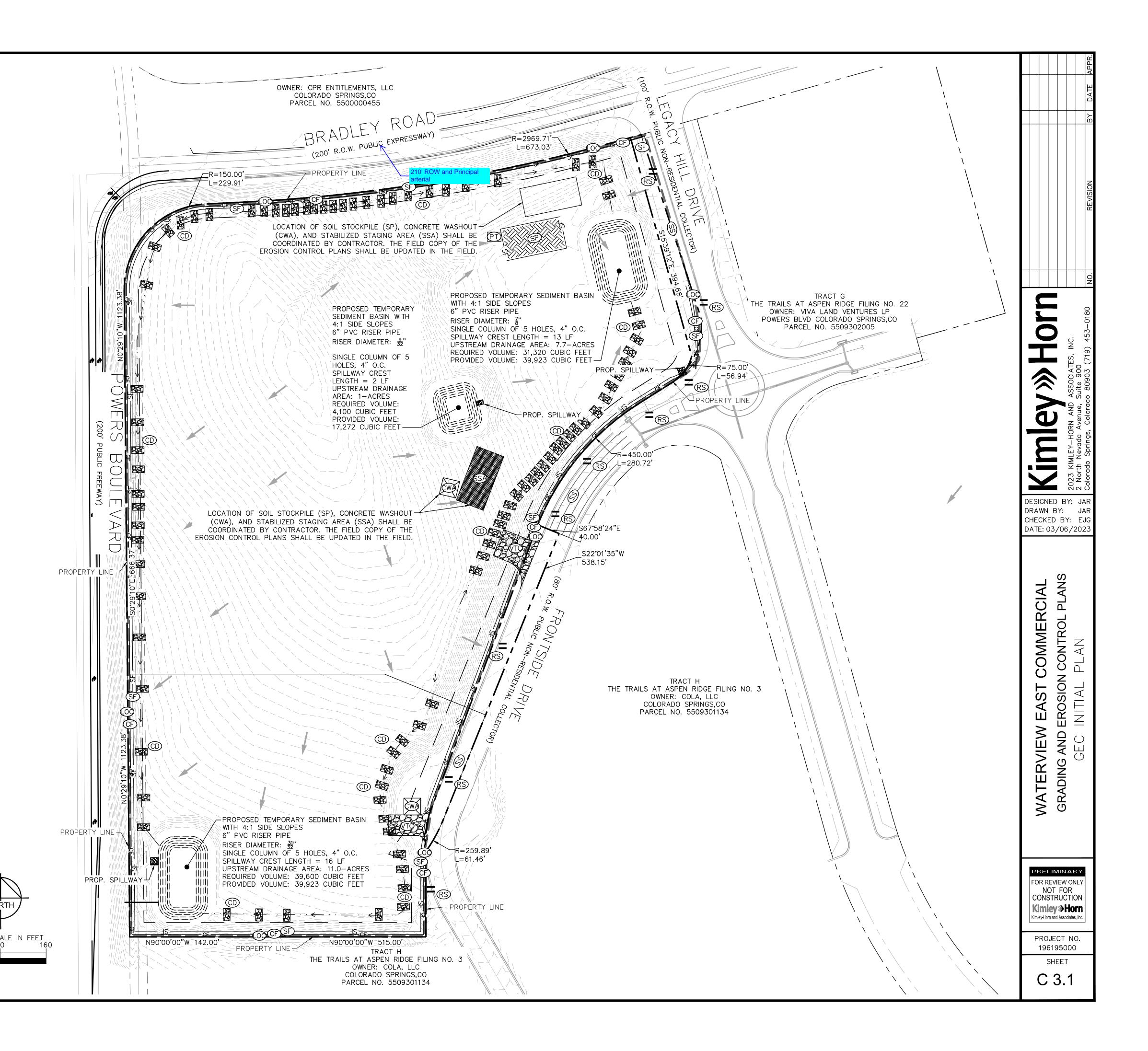
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AREA:	APPR.
ROPERTY AREA: +/- 22.12 ACRES	
HMARK:	DATE
DO SPRINGS UTILITIES (FIMS) MONUMENT F206 ISEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5 INCH DIAMETER ALUMINUM CAP IN	
BOX, LOCATED AT THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS	B
DN — 5897.89' (NGVD 1929)	
L DESCRIPTION	
OF LAND LOCATED IN A PORTION OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST	
6TH PM, EL PASO COUNTY, COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS: CING AT THE NORTH 1/4 CORNER OF SAID SECTION 9;	NO
SOO°19'32"E ALONG THE NORTH-SOUTH CENTERLINE OF SAID SECTION 9, A DISTANCE OF FEET TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF BRADLEY ROAD AS	REVISION
D IN BOOK 5307 AT PAGE 1472 OF THE RECORDS OF SAID EL PASO COUNTY; LOWING THREE (3) COURSES ARE ON SAID SOUTHERLY RIGHT-OF-WAY LINE OF SAID	<u>د</u>
ROAD; NCE S89°30'29"W A DISTANCE OF 3.77 FEET TO A POINT OF CURVE TO THE LEFT;	
NCE ON SAID CURVE, HAVING A RADIUS OF 2759.79 FEET, AN ARC LENGTH OF 730.29 DELTA ANGLE OF 15°09'41" WHOSE LONG CHORD BEARS S81°55'38"W A DISTANCE OF	
EET;	
NCE S74°20'48"W A DISTANCE OF 930.15 FEET TO THE POINT OF BEGINNING; DEPARTING SAID RIGHT-OF-WAY S15°39'12'W A DISTANCE OF 394.68 FEET TO A POINT OF	
NGENT CURVE TO THE RIGHT WHOSE RADIAL BEARS N75°43'37"W; ON SAID CURVE, HAVING A RADIUS OF 75.00 FEET, AN ARC LENGTH OF 56.94 FEET, A	
NGLE OF 43°29'55" WHOSE LONG CHORD BEARS S36°01'21" W A DISTANCE OF 55.58 FEET; S57°46'18"W A DISTANCE OF 68.47 FEET TO A POINT OF CURVE TO THE LEFT;	<b>11</b>
ON SAID CURVE, HAVING A RADIUS OF 450.00 FEET, AN ARC LENGTH OF 280.72 FEET, A NGLE OF 35°44'30" WHOSE LONG CHORD BEARS S39°54'03"W, A DISTANCE OF 267.19	
	C. C.
S67*58'24"E A DISTANCE OF 40.00 FEET; S22*01"36"W A DISTANCE OF 538.15 FEET TO A POINT OF CURVE TO THE RIGHT;	
ON SAID CURVE, HAVING A RADIUS OF 260.00 FEET, AN ARC LENGTH OF 61.46 FEET, A NGLE OF 13°32'35", WHOSE LONG CHORD BEARS S28°47'53"W A DISTANCE OF 61.31 FEET;	ATES, IN 00 10 1719)
S00°00'00'W A DISTANCE OF 148.75 FEET; N90°00'00"W A DISTANCE OF 515.00 FEET TO A POINT ON THE NORTHEASTERLY RIGHT-	00CIA
LINE OF POWERS BOULEVARD DESCRIBED IN SAID BOOK 5307 AT PAGE 1472 (NOW 21);	ASS Suite o 80
LOWING FIVE (5) COURSES ARE ON SAID RIGHT-OF-WAY LINE AND THE NORTHERLY	N AND ASSOCIATES venue, Suite 900 Colorado 80903 (7
F-WAY LINE OF BRADLEY ROAD AS RECORDED IN BOOK 5307 AT PAGE 1472 OF THE S OF SAID EL PASO COUNTY:	
NCE N00°29'10"W A DISTANCE OF 1123.38 FEET TO A POINT OF CURVE TO THE RIGHT; NCE ON SAID CURVE, HAVING A RADIUS OF 150.00 FEET, AN ARC LENGTH OF 229.91	EY-HOI LEY-HOI Springs,
DELTA ANGLE OF 87°49'03", WHOSE LONG CHORD BEARS N43°25'21"E A DISTANCE OF TEET:	
NCE N87°19'53" E A DISTANCE OF 53.06 FEET TO A POINT OF CURVE TO THE LEFT; NCE ON SAID CURVE, HAVING A RADIUS OF 2,969.79 FEET, AN ARC LENGTH OF 673.03	CO23 KIM CO23 KIM
DELTA ANGLE OF 12°59'05", WHOSE LONG CHORD BEARS N80°50'20"E A DISTANCE OF EET;	202: 2 No
NCE N47°20'48"E A DISTANCE OF 21.87 FEET TO THE POINT BEGINNING.	DESIGNED BY: JAR
CONTAINS 963,596 SQUARE FEET OR 22.121 ACRES MORE OR LESS.	DRAWN BY: JAR
CONTAINS 963,596 SQUARE FEET OR 22.121 ACRES MORE OR LESS.	DRAWN BY: JAR CHECKED BY: EJG DATE: 03/06/2023
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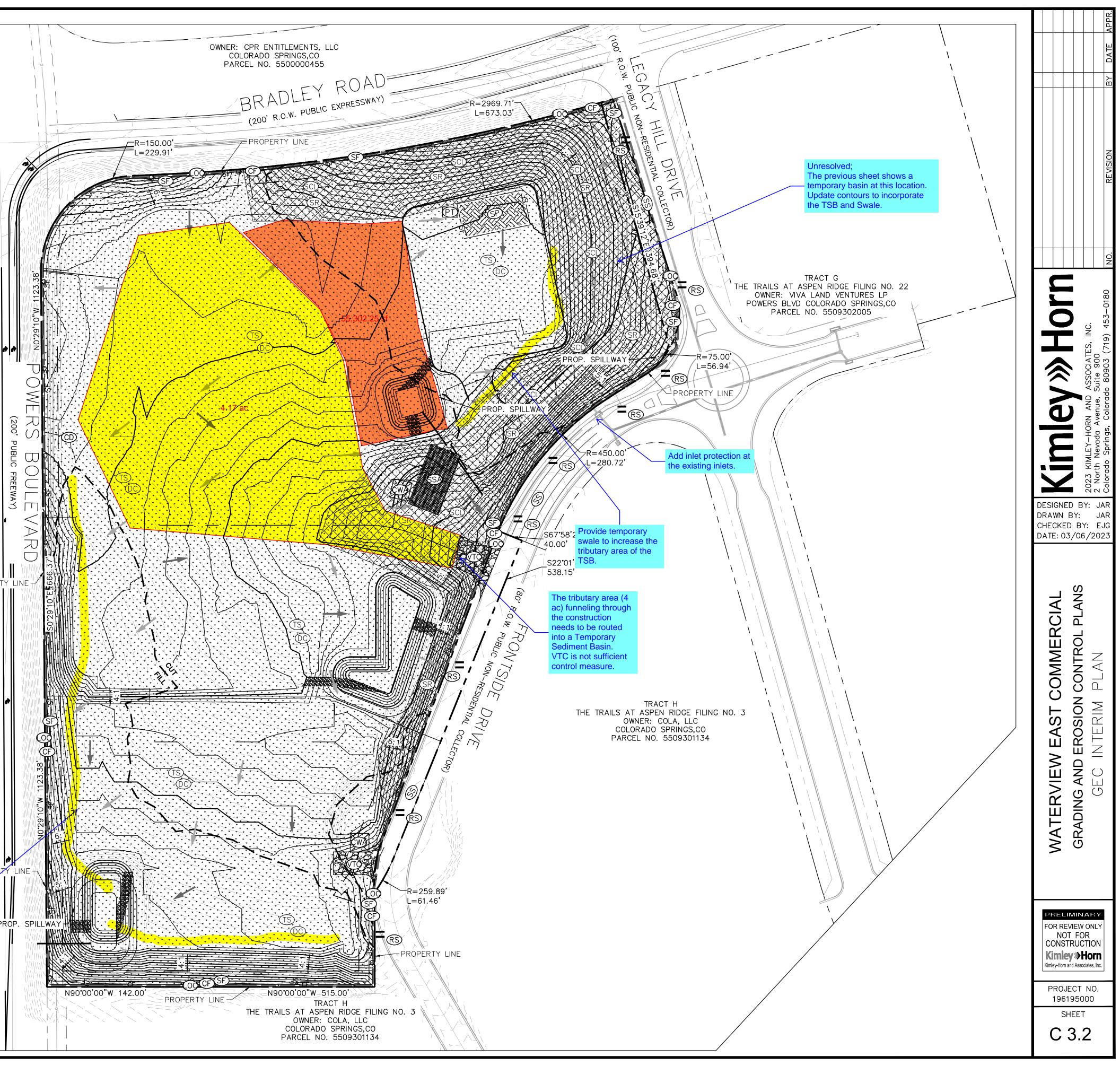
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	(RS) (SA)	ROCK SOCKS PER UDFCD DETAIL STABILIZED STAGING AREA
	CWA	CONCRETE WASHOUT
		CHECK DAM
$\longrightarrow \cdots \longrightarrow \cdots \longrightarrow \cdots$	· (DD)	DIVERSION DITCH
	(TO	VEHICLE TRACKING CONTROL
	SP	SOIL STOCKPILE
	$(\mathbb{P})$	INLET PROTECTION
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$\longrightarrow$		EXISTING FLOW DIRECTION ARROW
$\rightarrow$		PROPOSED FLOW DIRECTION ARRO
	SS DC	STREET SWEEPING AND VACUUMIN PER UDFCD DETAIL SM-7 DUST CONTROL PER UDFCD DETAIL EC-14
* * * * * * * * * * * * * * * * * * *		FINAL STABILIZATION. (REFERENCE FINAL LANDSCAPING PLANS)

PROPERTY LINE EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR LIMITS OF CONSTRUCTION/DISTURBANCE SILT FENCE EASEMENT EXISTING SANITARY SEWER EXISTING WATER LINE EXISTING STORM SEWER PIPE EXISTING FIBER OPTIC LINE EXISTING GAS LINE EXISTING OVERHEAD ELECTRIC LINE EXISTING BARBED WIRE FENCE ROCK SOCKS PER UDFCD DETAIL SC-5 STABILIZED STAGING AREA CONCRETE WASHOUT CHECK DAM DIVERSION DITCH VEHICLE TRACKING CONTROL SOIL STOCKPILE INLET PROTECTION CULVERT INLET PROTECTION EXISTING FLOW DIRECTION ARROW PROPOSED FLOW DIRECTION ARROW STREET SWEEPING AND VACUUMING PER UDFCD DETAIL SM-7 DUST CONTROL PER UDFCD DETAIL EC-14 FINAL STABILIZATION.

NC	DTES	
1.	THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND	
2.	CONSTRUCTION OF PROPOSED IMPROVEMENTS. ADJACENT STREETS AND SIDEWALK SHALL BE KEPT CLEAN AND FREE OF SEDIMENT AND/OR DEBRIS AT ALL TIMES. CONTRACTOR SHALL PERFORM	
	STREET SWEEPING AT ALL TIMES DURING ACTIVE TRACKING AND AT A MINIMUM ON A DAILY BASIS AT THE END OF EACH CONSTRUCTION DAY.	
3.	TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.	
4.	PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION.	
	STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.	
5.	CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION.	
6.	CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL PRACTICES WITHIN THE ANTICIPATED LIMITS OF CONSTRUCTION IDENTIFIED HEREIN. BEST MANAGEMENT PRACTICES AND STABILIZATION SHALL BE COMPLETED AS IDENTIFIED HEREIN IN ACCORDANCE WITHIN OWNER	
7.	REQUIREMENTS. ALL WORK IN THE LEGACY HILL DRIVE AND FRONTSIDE DRIVE ROW	
	REQUIRES A ROW PERMIT FROM EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL NECESSARY ROW PERMITS.	
8.	CONTRACTOR SHALL REFER TO THE APPROVED GEOTECHNICAL REPORT FOR OVEREXCAVATION REQUIREMENTS AND ADDITIONAL INFORMATION.	
9.	SILT FENCE TO BE INSTALLED PRIOR TO COMMENCEMENT OF ONSITE GRADING AND CONSTRUCTION ACTIVITIES.	
10.	DEMOLITION, REMOVAL AND SOIL TREATMENT SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATIONS AS NOTED IN THE APPROVED PROJECT GEOTECHNICAL REPORT.	
11.	CONTRACTOR TO NOTE PROXIMITY OF EXISTING IMPROVEMENTS ADJACENT TO THE SITE AND PROVIDE NECESSARY MEASURES TO PROTECT ALL FACILITIES AND STRUCTURES IN PLACE.	
12.	CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPS AS EXCAVATION	NORTH
1 7	SEQUENCING DICTATES.	GRAPHIC SCALE IN
13.	CONTRACTOR MAY SUBSTITUTE SEDIMENT CONTROL LOGS (SCL) FOR SILT FENCE (SF) AS PERIMETER CONTROL, DEPENDING UPON SITE CONDITIONS. SCL, AND SF MAY BE INTERCHANGED DEPENDING ON SITE CONDITIONS.	
	CONTRACTOR SHALL OBTAIN R.O.W. PERMITS FOR ANY R.O.W. CLOSURES. SEE FINAL LANDSCAPING PLAN IN THE DEVELOPMENT PLAN FOR FINAL STABILIZATION MEASURES.	



6550 <u></u>		PROPERTY LINE EXISTING MAJOR CONTOUR	
6551		EXISTING MINOR CONTOUR	
6550		PROPOSED MAJOR CONTOUR	
6551		PROPOSED MINOR CONTOUR LIMITS OF CONSTRUCTION/DISTURBANCE	
SF	— (SF)	SILT FENCE	
	-0	SEDIMENT CONTROL LOGS	
S		EASEMENT EXISTING SANITARY SEWER	
	_	EXISTING WATER LINE	
FO		EXISTING STORM SEWER PIPE EXISTING FIBER OPTIC LINE	
G		EXISTING GAS LINE	
O		EXISTING OVERHEAD ELECTRIC LINE	
	RS	EXISTING BARBED WIRE FENCE ROCK SOCKS PER UDFCD DETAIL SC-5	
	SA	STABILIZED STAGING AREA	
X	CWA	CONCRETE WASHOUT	
		CHECK DAM	
02020202020202 020202020202020202020202	(T)	VEHICLE TRACKING CONTROL	
	(SP)	SOIL STOCKPILE	
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		EXISTING FLOW DIRECTION ARROW	
	SS 00	PROPOSED FLOW DIRECTION ARROW STREET SWEEPING AND VACUUMING PER UDFCD DETAIL SM-7 DUST CONTROL PER UDFCD DETAIL EC-14	
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	SR	SURFACE ROUGHENING	
		CUT/FILL BOUNDARY	
		CUT/FILL BOUNDARY	
		CUT/FILL BOUNDARY	
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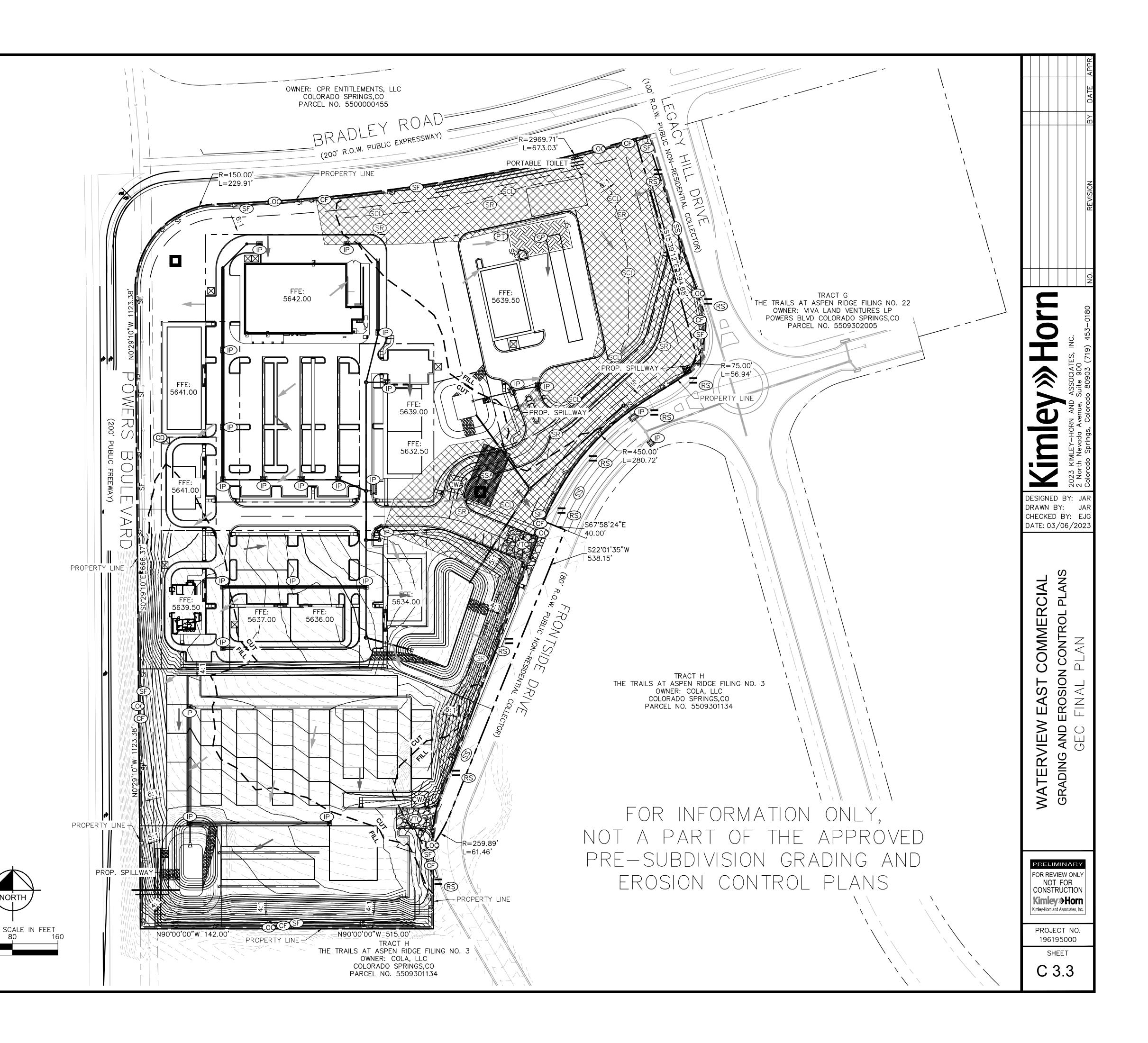


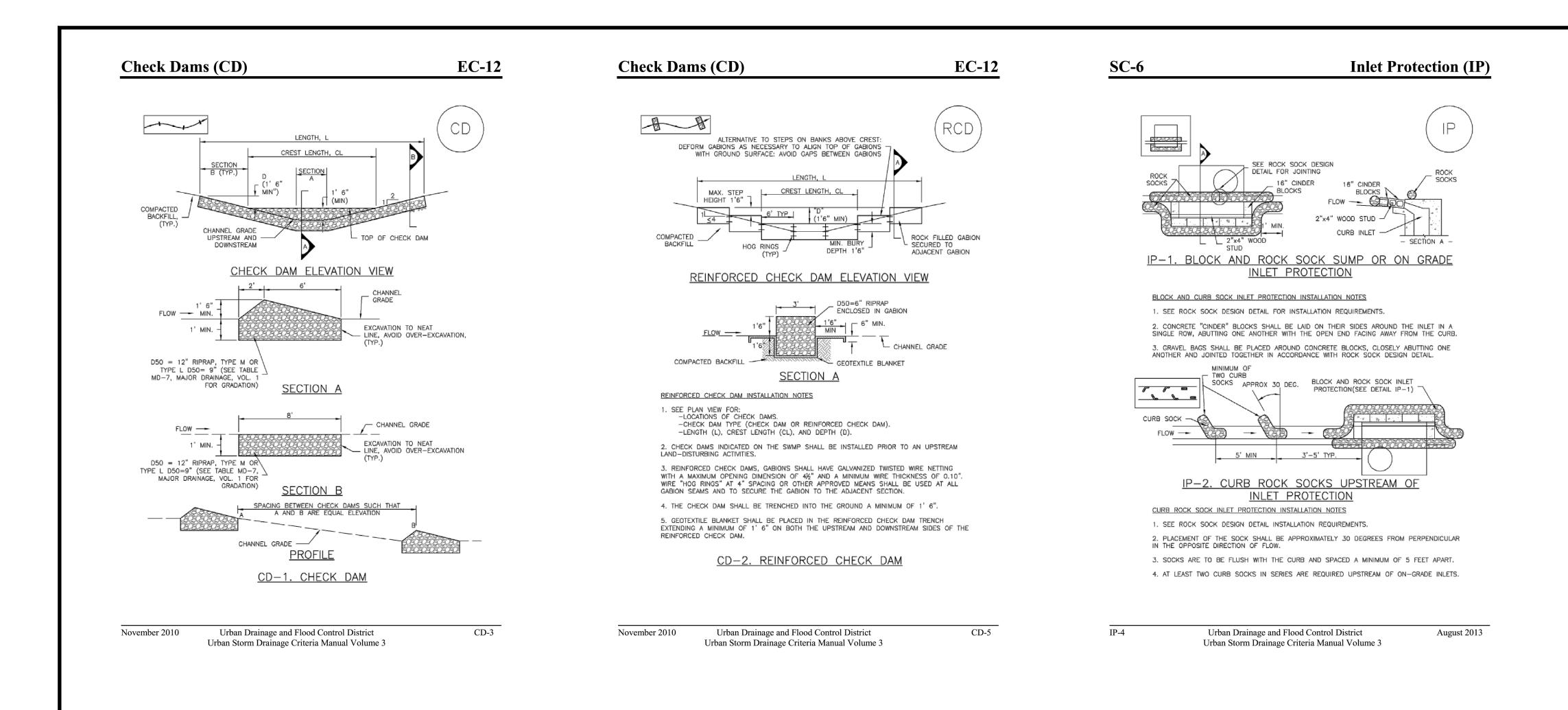
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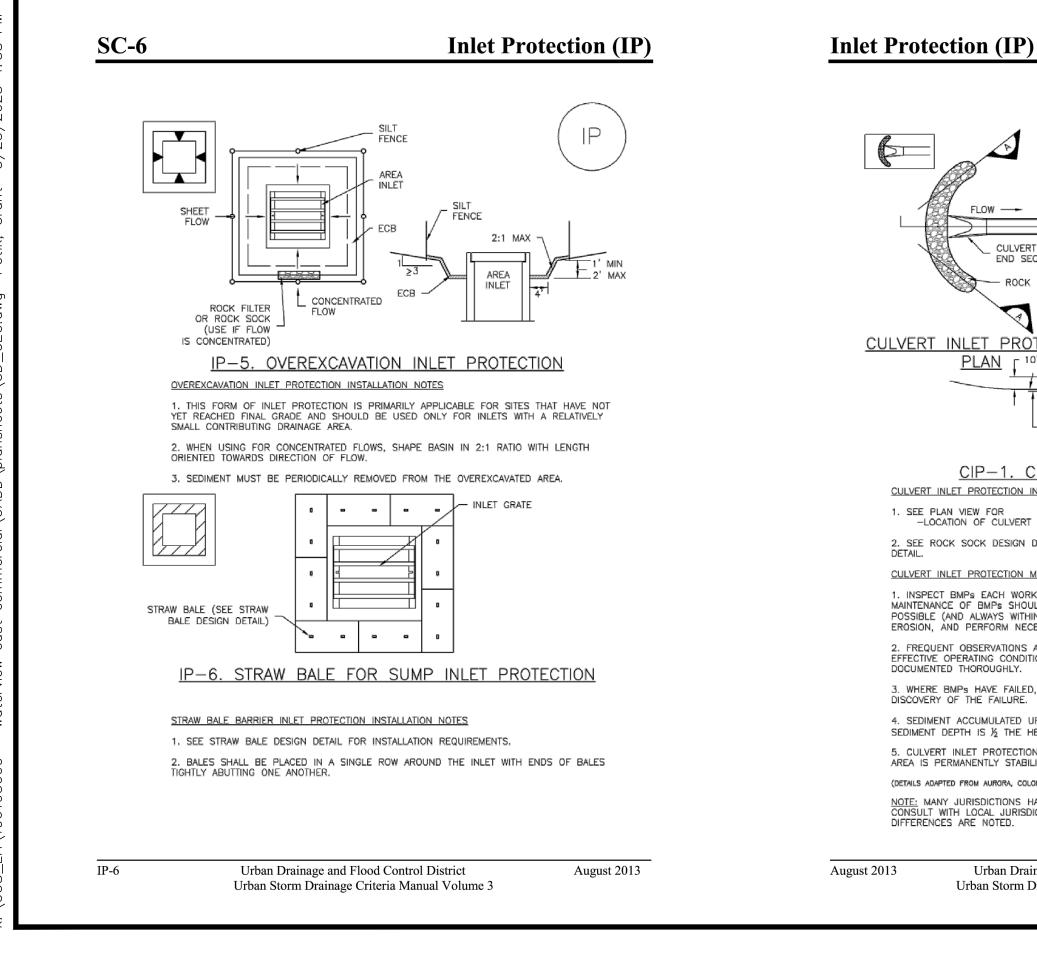
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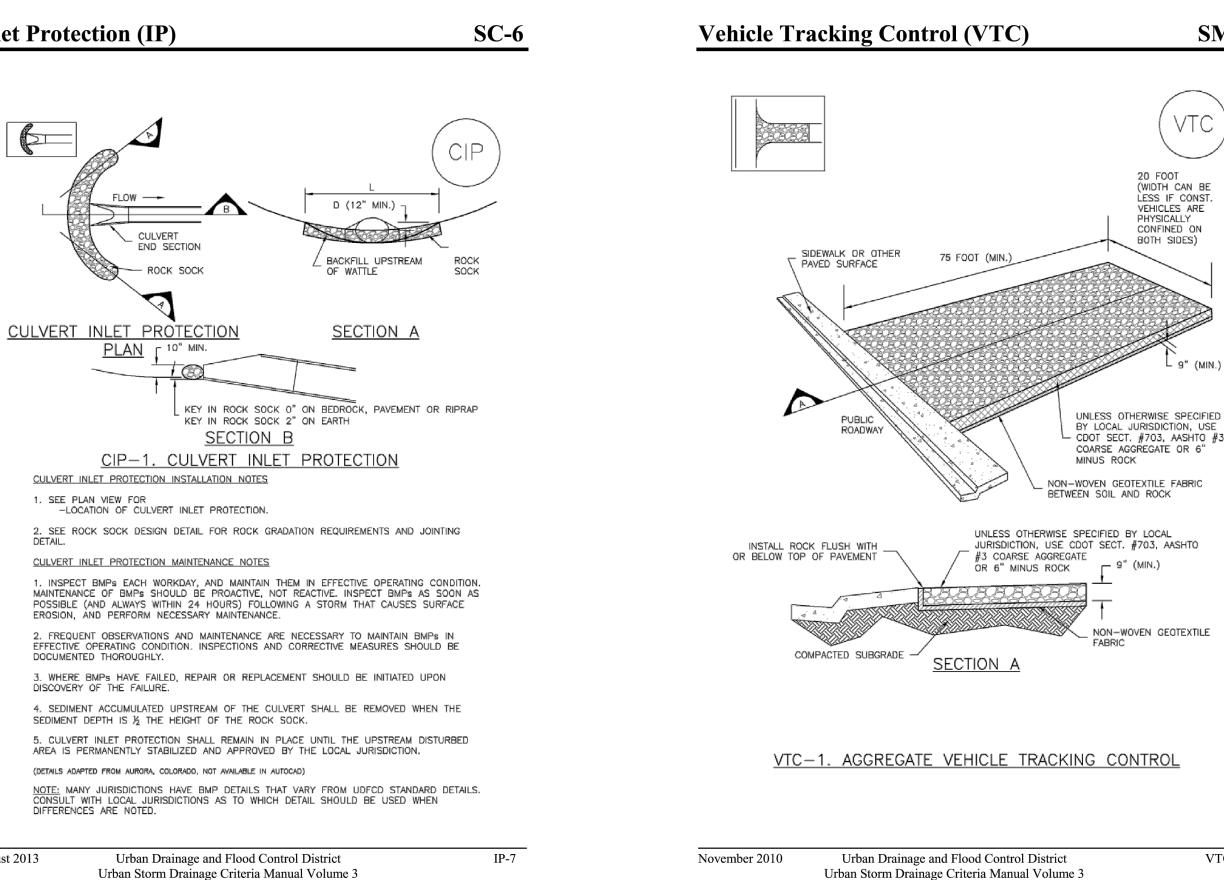
NC	DTES	
1.	THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.	
2.	ADJACENT STREETS AND SIDEWALK SHALL BE KEPT CLEAN AND FREE OF SEDIMENT AND/OR DEBRIS AT ALL TIMES. CONTRACTOR SHALL PERFORM STREET SWEEPING AT ALL TIMES DURING ACTIVE TRACKING AND AT A	
3.	MINIMUM ON A DAILY BASIS AT THE END OF EACH CONSTRUCTION DAY. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE	
4.	DISTURBED AREAS. PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE	
5.	TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS. CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION.	
6.	CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL PRACTICES WITHIN THE ANTICIPATED LIMITS OF CONSTRUCTION IDENTIFIED HEREIN. BEST MANAGEMENT PRACTICES AND STABILIZATION SHALL BE COMPLETED AS IDENTIFIED HEREIN IN ACCORDANCE WITHIN OWNER	
7.	REQUIREMENTS. ALL WORK IN THE LEGACY HILL DRIVE AND FRONTSIDE DRIVE ROWS REQUIRES A ROW PERMIT FROM EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND	
8.	OBTAINING ALL NECESSARY ROW PERMITS. CONTRACTOR SHALL REFER TO THE APPROVED GEOTECHNICAL REPORT FOR OVEREXCAVATION REQUIREMENTS AND ADDITIONAL INFORMATION.	
9.	SILT FENCE TO BE INSTALLED PRIOR TO COMMENCEMENT OF ONSITE GRADING AND CONSTRUCTION ACTIVITIES.	
10.	DEMOLITION, REMOVAL AND SOIL TREATMENT SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATIONS AS NOTED IN THE APPROVED PROJECT GEOTECHNICAL REPORT.	
11.	CONTRACTOR TO NOTE PROXIMITY OF EXISTING IMPROVEMENTS ADJACENT TO THE SITE AND PROVIDE NECESSARY MEASURES TO PROTECT ALL FACILITIES AND STRUCTURES IN PLACE.	
12.	CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPS AS EXCAVATION	NORTH
13.	SEQUENCING DICTATES. CONTRACTOR MAY SUBSTITUTE SEDIMENT CONTROL LOGS (SCL) FOR SILT FENCE (SF) AS PERIMETER CONTROL, DEPENDING UPON SITE CONDITIONS. SCL, AND SF MAY BE INTERCHANGED DEPENDING ON SITE CONDITIONS.	GRAPHIC SCALE 0 40 80
	CONTRACTOR SHALL OBTAIN R.O.W. PERMITS FOR ANY R.O.W. CLOSURES. SEE FINAL LANDSCAPING PLAN IN THE DEVELOPMENT PLAN FOR FINAL STABILIZATION MEASURES.	

CUT/FILL BOUNDARY







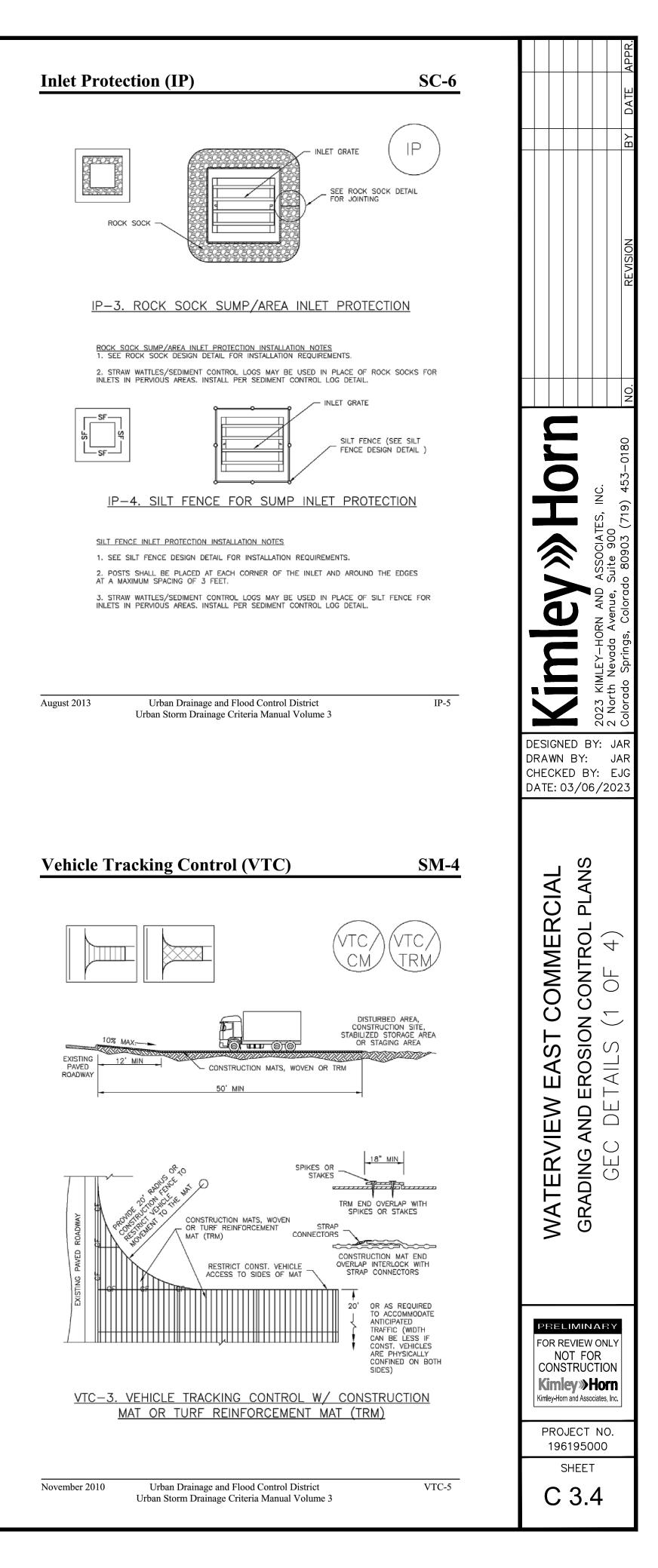


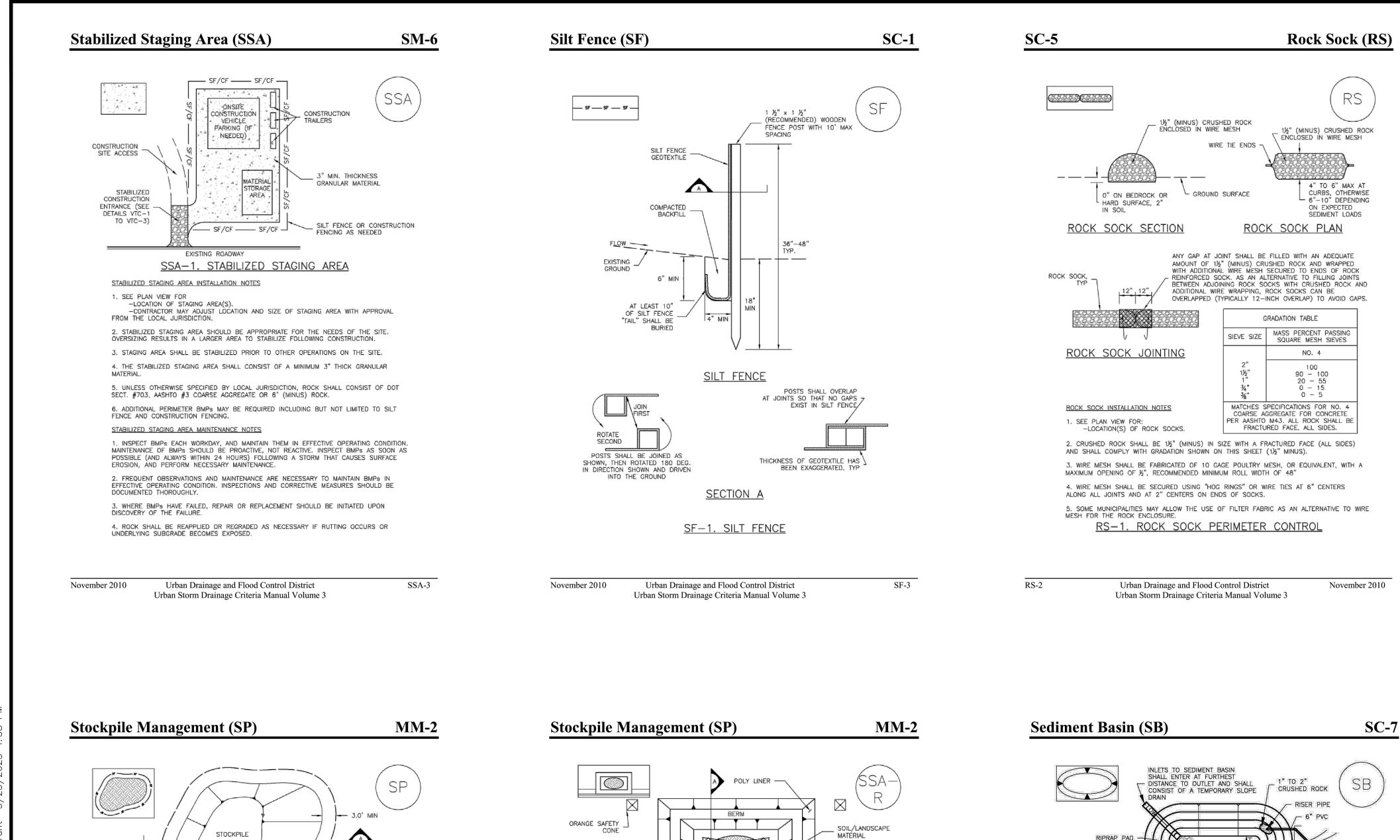
Urban Storm Drainage Criteria Manual Volume 3

SM-4

VTC

L 9" (MIN.)

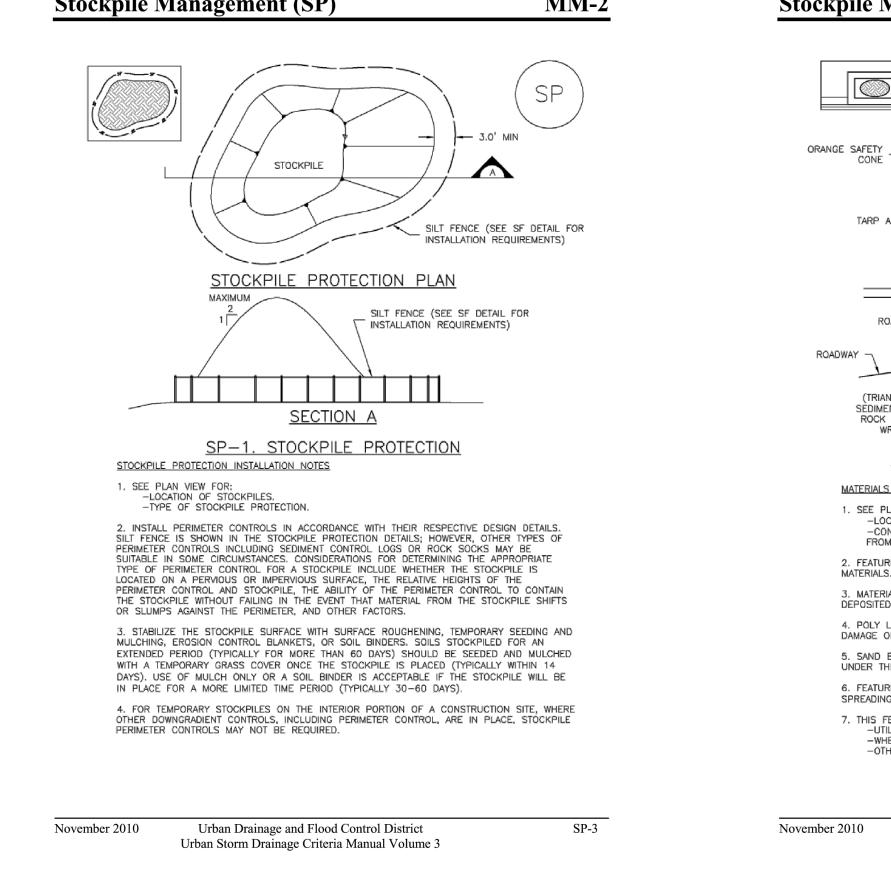


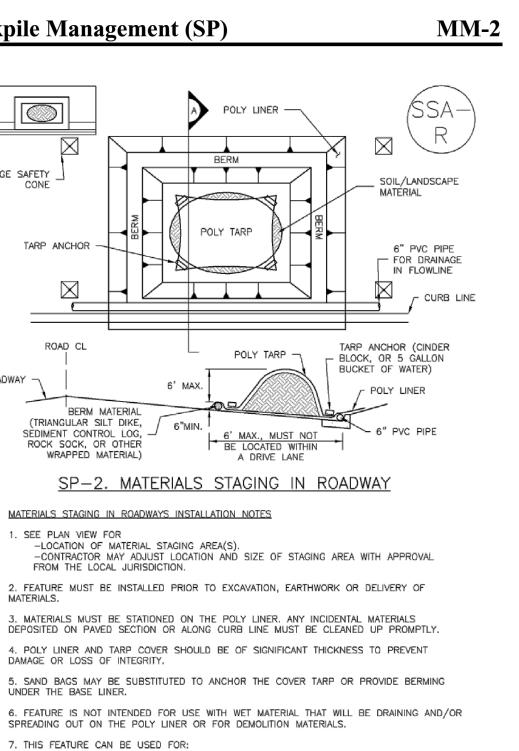


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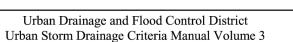
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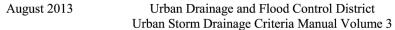




-UTILITY REPAIRS. -WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED. -OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.



SP-5



HOLE

DIAMETER,

EL. 0.3 0

COLUMN OF FIVE

HOLES

00.00

D50=9" RIPRAP

MD-7. MAJOR

TYPE L. (SEE TABLE

DRAINAGE, VOL. 1

SCHEDULE 40

EXCAVATION

PVC OR GREATER

EMBANKMEN

MATERIAL

BOTTOM LENGT

SEDIMENT BASIN PLAN

\*EXCEPT WHERE THE HOLES EXCEED 1"

DIAMETER, THEN UP TO TWO COLUMNS OF SAME SIZED HOLES MAY BE USED

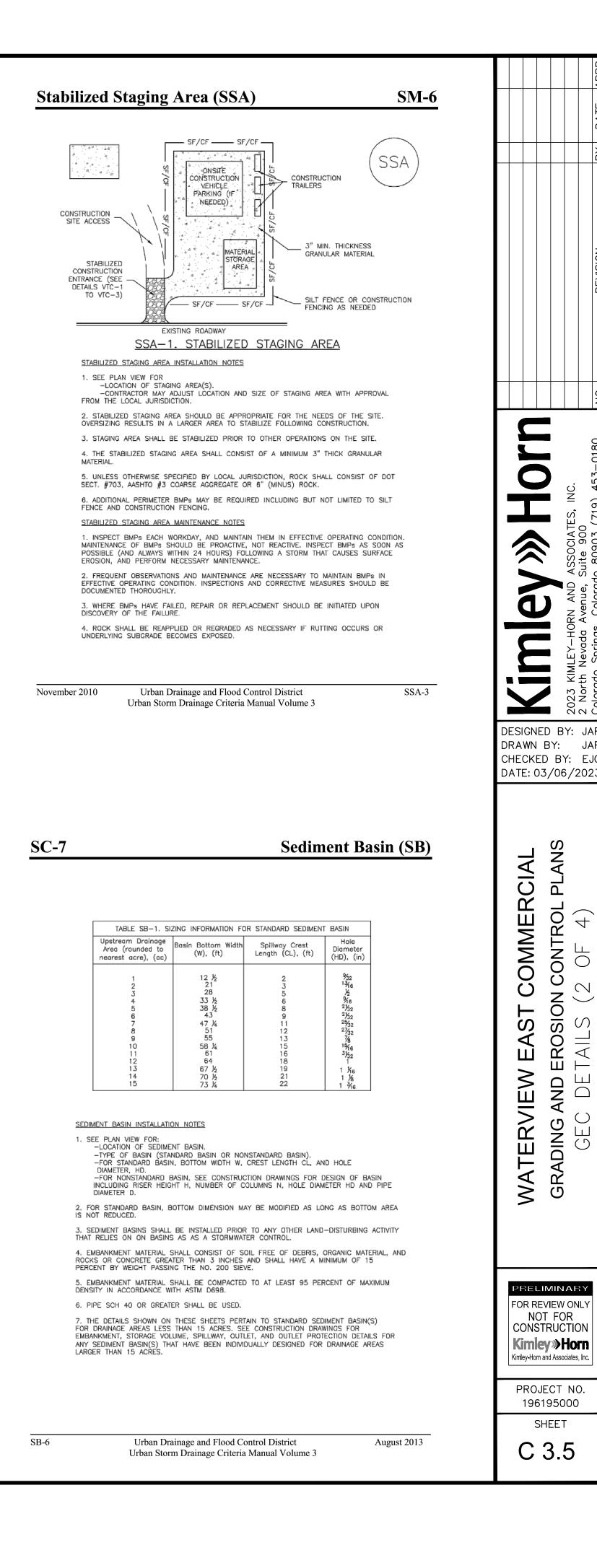
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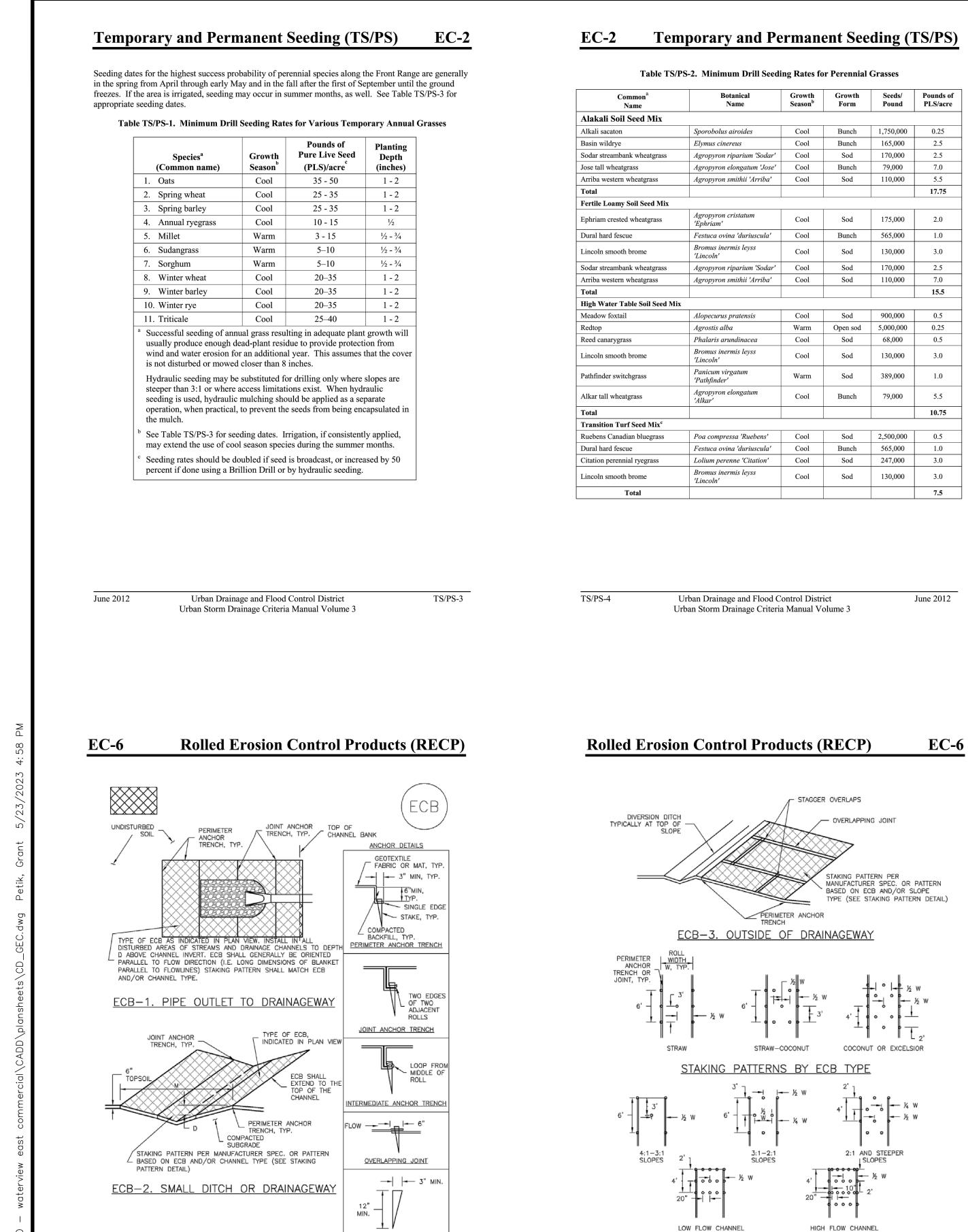
- D50=9" RIPRAP TYPE L

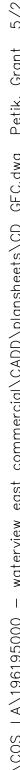
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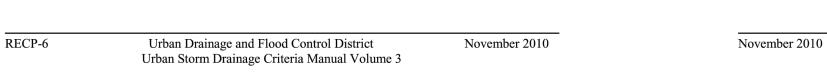
EL. 03.00 AT CREST

RIPRAP BEDDING -









WOOD STAKE DETAIL

Botanical Name	Growth Season <sup>b</sup>	Growth Form	Seeds/ Pound	Pounds of PLS/acre
		1	1	
Sporobolus airoides	Cool	Bunch	1,750,000	0.25
Elymus cinereus	Cool	Bunch	165,000	2.5
Agropyron riparium 'Sod	lar' Cool	Sod	170,000	2.5
Agropyron elongatum 'Jo	ose' Cool	Bunch	79,000	7.0
Agropyron smithii 'Arribe	a' Cool	Sod	110,000	5.5
				17.75
Agropyron cristatum 'Ephriam'	Cool	Sod	175,000	2.0
Festuca ovina 'duriuscula	a' Cool	Bunch	565,000	1.0
Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0
Agropyron riparium 'Sod	lar' Cool	Sod	170,000	2.5
Agropyron smithii 'Arribe	a' Cool	Sod	110,000	7.0
				15.5
Alopecurus pratensis	Cool	Sod	900,000	0.5
Agrostis alba	Warm	Open sod	5,000,000	0.25
Phalaris arundinacea	Cool	Sod	68,000	0.5
Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0
Panicum virgatum 'Pathfinder'	Warm	Sod	389,000	1.0
Agropyron elongatum 'Alkar'	Cool	Bunch	79,000	5.5
				10.75
Poa compressa 'Ruebens	' Cool	Sod	2,500,000	0.5
Festuca ovina 'duriuscula	a' Cool	Bunch	565,000	1.0
Lolium perenne 'Citation	' Cool	Sod	247,000	3.0
Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0
				7.5

### **Temporary and Permanent Seeding (TS/PS) EC-2**

### Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

Common Name	Botanical Name	Growth Season <sup>b</sup>	Growth Form	Seeds/ Pound	Pounds of PLS/acre
Sandy Soil Seed Mix					
Blue grama	Bouteloua gracilis	Warm	Sod-forming bunchgrass	825,000	0.5
Camper little bluestem	Schizachyrium scoparium 'Camper'	Warm	Bunch	240,000	1.0
Prairie sandreed	Calamovilfa longifolia	Warm	Open sod	274,000	1.0
Sand dropseed	Sporobolus cryptandrus	Cool	Bunch	5,298,000	0.25
Vaughn sideoats grama	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000	2.0
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5
Total					10.25
Heavy Clay, Rocky Foothill Seed	l Mix				
Ephriam crested wheatgrass <sup>d</sup>	Agropyron cristatum 'Ephriam'	Cool	Sod	175,000	1.5
Oahe Intermediate wheatgrass	Agropyron intermedium 'Oahe'	Cool	Sod	115,000	5.5
Vaughn sideoats grama <sup>e</sup>	Bouteloua curtipendula 'Vaughn'	Warm	Sod	191,000	2.0
Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5
Total					17.5

doubled if seed is broadcast and should be increased by 50 percent if the seeding is done using a Brillion Drill or is applied through hydraulic seeding. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1. If hydraulic seeding is used, hydraulic mulching should be done as a separate operation.

See Table TS/PS-3 for seeding dates.

If site is to be irrigated, the transition turf seed rates should be doubled.

Crested wheatgrass should not be used on slopes steeper than 6H to 1V.

EROSION CONTROL BLANKET INSTALLATION NOTES

1. SEE PLAN VIEW FOR:

BI ANKET

BLANKET AREAS.

-LOCATION OF ECB.

SHALL BE RESEEDED AND MULCHED.

TYPE

STRAW\*

STRAW-

COCONUT

COCONUT

EXCELSIOR

DIFFERENT FROM THOSE SHOWN HERE.

<sup>e</sup> Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn sideoats grama.

June 2012

**EC-6** 

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

-TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR). -AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.

SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.

2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPS, ALTHOUGH

3. IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE

4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL

5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER

8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.

(LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.

6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.

7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.

9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBS

10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS

STRAW CONTENT

100%

70% MAX

\*STRAW ECBS MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNEL. \*\*ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS

EXCELSIOR RECOMMENDED CONTENT NETTING\*\*

-

100%

DOUBLE/ NATURAL

DOUBLE/ NATURAL

DOUBLE/ NATURAL

DOUBLE/ NATURAL

**Rolled Erosion Control Products (RECP)** 

TS/PS-5

STAKING PATTERNS BY SLOPE OR CHANNEL TYPE

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-8

RECP-7

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

COCONUT

30% MIN

100%

November 2010

### **Temporary and Permanent Seeding (TS/PS) EC-2**

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

	(Numbers in	l Grasses table reference Sable TS/PS-1)	Perennial Grasses		
Seeding Dates	Warm	Cool	Warm	Cool	
January 1–March 15			✓	✓	
March 16–April 30	4	1,2,3	✓	~	
May 1–May 15	4		✓		
May 16–June 30	4,5,6,7				
July 1–July 15	5,6,7				
July 16–August 31					
September 1–September 30		8,9,10,11			
October 1–December 31			✓	✓	

### Mulch

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

### Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

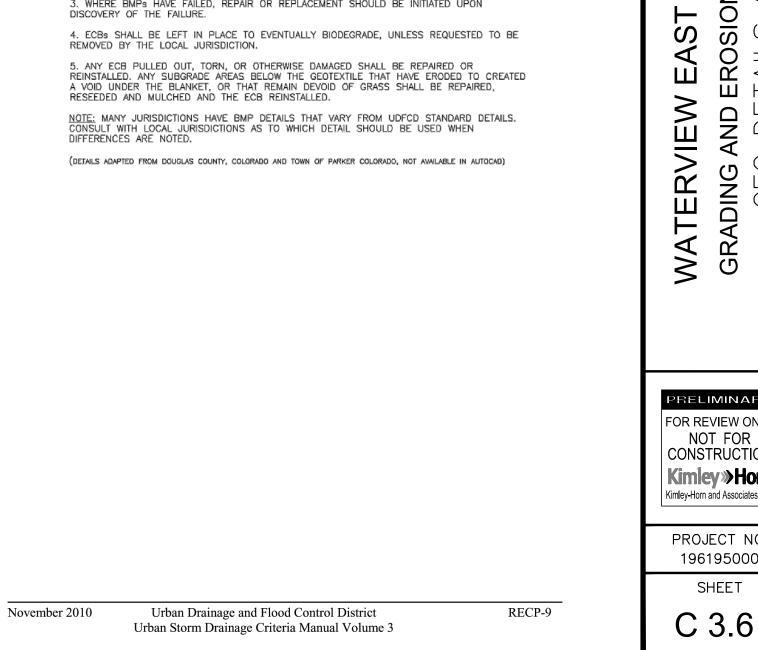
Protect seeded areas from construction equipment and vehicle access.

TS/PS-6

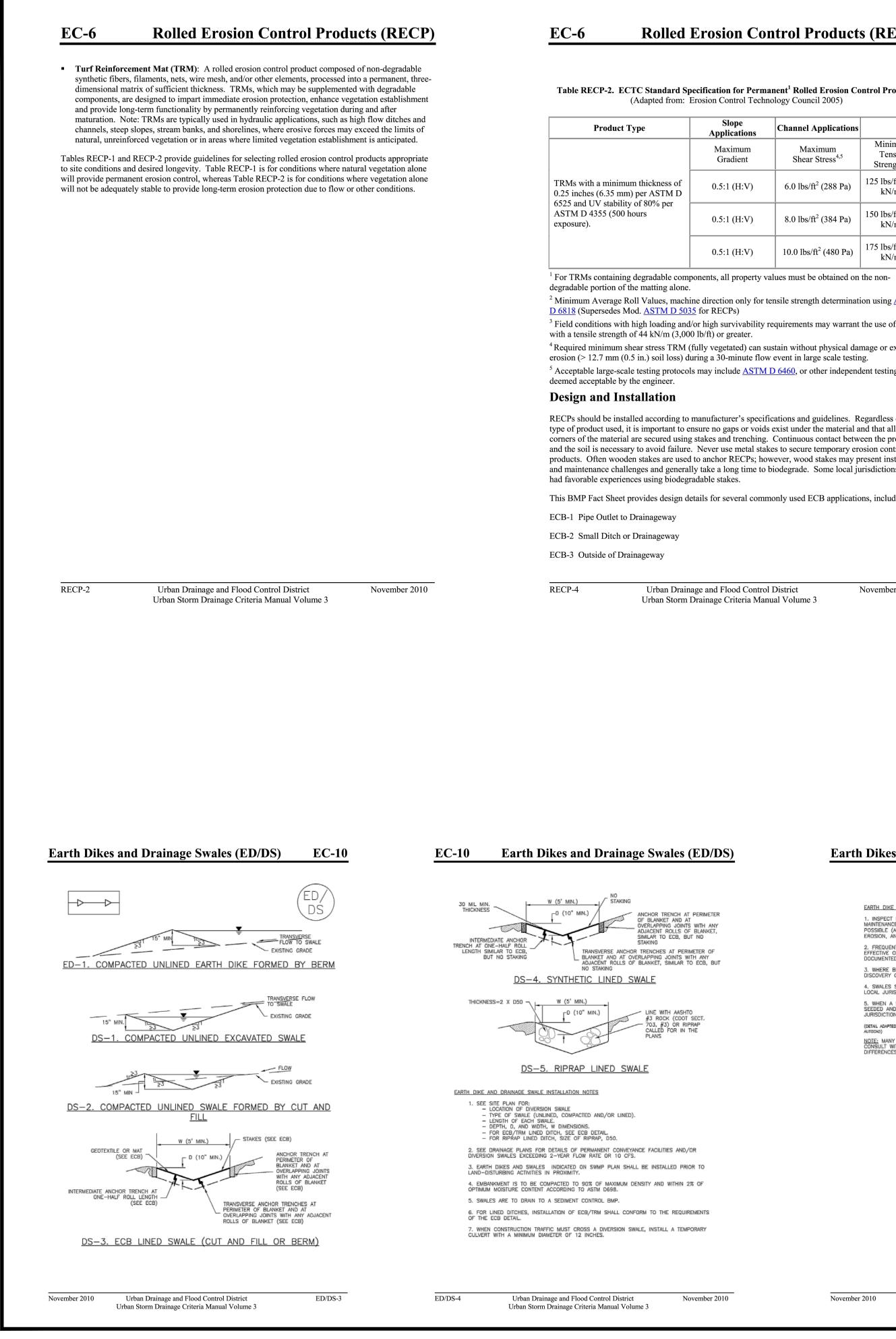
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**Rolled Erosion Control Products (RECP)** EC-6

EROSION CONTROL BLANKET 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. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION. 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. 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 DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER COLORADO, NOT AVAILABLE IN AUTOCAD)



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## **Rolled Erosion Control Products (RECP)**

**SM-3** 

## **Construction Fence (CF)**

### Table RECP-2. ECTC Standard Specification for Permanent<sup>1</sup> Rolled Erosion Control Products (Adapted from: Erosion Control Technology Council 2005)

•	Slope Applications	Channel Applications	
	Maximum Gradient	Maximum Shear Stress <sup>4,5</sup>	Minimum Tensile Strength <sup>2,3</sup>
nickness of r ASTM D	0.5:1 (H:V)	6.0 lbs/ft <sup>2</sup> (288 Pa)	125 lbs/ft (1.82 kN/m)
80% per – s	0.5:1 (H:V)	8.0 lbs/ft <sup>2</sup> (384 Pa)	150 lbs/ft (2.19 kN/m)
	0.5:1 (H:V)	10.0 lbs/ft <sup>2</sup> (480 Pa)	175 lbs/ft (2.55 kN/m)

<sup>2</sup> Minimum Average Roll Values, machine direction only for tensile strength determination using <u>ASTM</u>

<sup>3</sup> Field conditions with high loading and/or high survivability requirements may warrant the use of a TRM

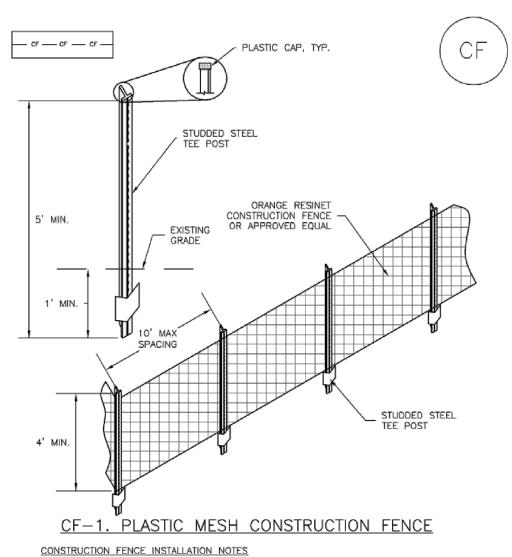
<sup>4</sup>Required minimum shear stress TRM (fully vegetated) can sustain without physical damage or excess erosion (> 12.7 mm (0.5 in.) soil loss) during a 30-minute flow event in large scale testing.

<sup>5</sup> Acceptable large-scale testing protocols may include <u>ASTM D 6460</u>, or other independent testing

RECPs should be installed according to manufacturer's specifications and guidelines. Regardless of the type of product used, it is important to ensure no gaps or voids exist under the material and that all corners of the material are secured using stakes and trenching. Continuous contact between the product and the soil is necessary to avoid failure. Never use metal stakes to secure temporary erosion control products. Often wooden stakes are used to anchor RECPs; however, wood stakes may present installation and maintenance challenges and generally take a long time to biodegrade. Some local jurisdictions have

This BMP Fact Sheet provides design details for several commonly used ECB applications, including:

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SEE PLAN VIEW FOR: -LOCATION OF CONSTRUCTION FENCE.

2. CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

3. CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY. 4. STUDDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE. MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'. 5. CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.

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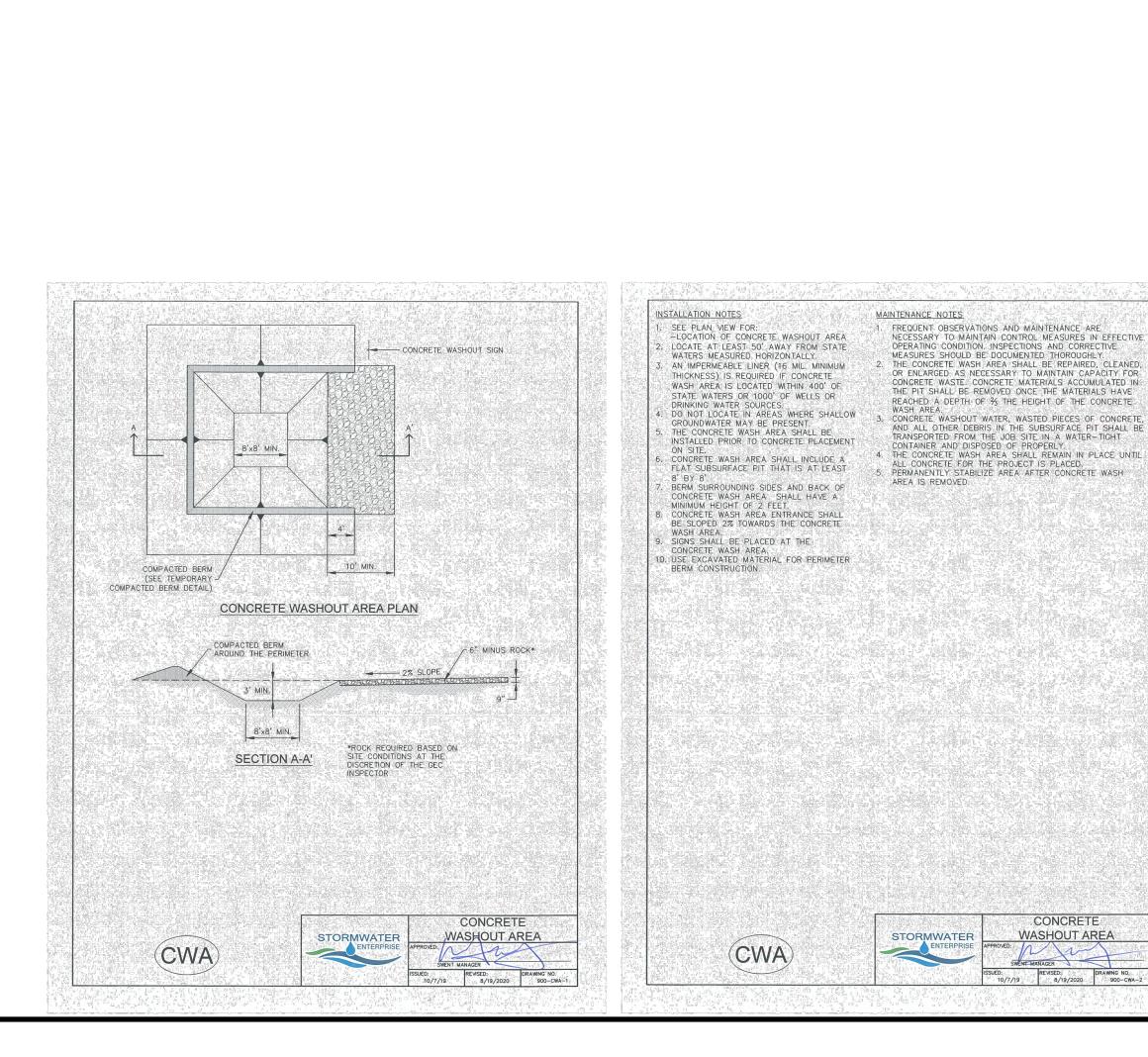
# ANCHOR TRENCH AT PERIMETER ANCHOR TRENCH AT PERIMILER OF BLANKET AND AT OVERLAPPING JOINTS WITH ANY ADJACENT ROLLS OF BLANKET, SIMILAR TO ECB, BUT NO STAKING

LINE WITH AASHTO #3 ROCK (CDOT SECT I3, #3) OR RIPRAP LED FOR IN THE

### Earth Dikes and Drainage Swales (ED/DS) **EC-10**

### EARTH DIKE AND DRAINAGE SWALE 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. SWALES SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION; IF APPROVED BY LOCAL JURISDICTION, SWALES MAY BE LEFT IN PLACE. WHEN A SWALE IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION. (DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF COLORADO SPRINGS, COLORADO, NOT AVAILABLE IN 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.



November 2010

November 2010

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CF-2

## **Construction Fence (CF)**

DISCOVERY OF THE FAILURE.

## **SM-3**

CF-3

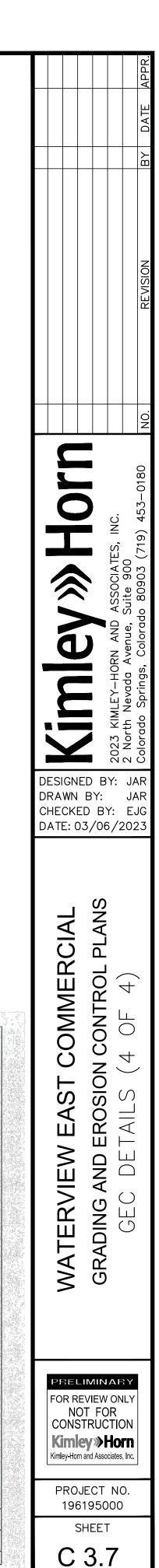
CONSTRUCTION FENCE MAINTENANCE NOTES

- 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 FROSION, 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
- 4. CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. 5. WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH
- TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION. 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

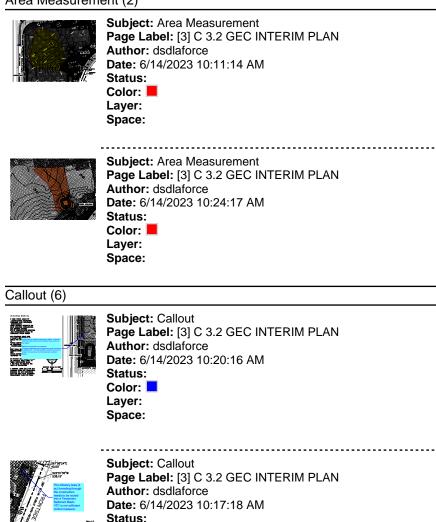
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(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)



## V3\_GEC Plan.pdf Markup Summary

### Area Measurement (2)



Is the intent to maintain a temporary swale. If so then show the swale and provide a typical cross section of the swale.

4.17 ac

55,302.25 sf

Review #2 comment is unresolved. The given disturbed area is larger than what a silt fence is designed for. Provide temporary swales at the top of slope to convey flows into the temporary sediment basins.

The tributary area (4 ac) funneling through the construction needs to be routed into a Temporary Sediment Basin. VTC is not sufficient control measure.

Concert Laboratory

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Subject: Callout Page Label: [3] C 3.2 GEC INTERIM PLAN Author: dsdlaforce Date: 6/14/2023 10:17:52 AM Status: Color: Layer: Space:



Subject: Callout Page Label: [3] C 3.2 GEC INTERIM PLAN Author: dsdlaforce Date: 6/14/2023 10:25:08 AM Status: Color: Layer: Space:

Provide temporary swale to increase the tributary area of the TSB.

Add inlet protection at the existing inlets.



Subject: Callout Page Label: [3] C 3.2 GEC INTERIM PLAN Author: CDurham Date: 6/19/2023 5:21:08 PM Status: Color: Layer: Space:

. . . . . . . . . . . . . . . .

Unresolved;

The previous sheet shows a temporary basin at this location. Update contours to incorporate the TSB and Swale.



Subject: Callout Page Label: [2] C 3.1 GEC INITIAL PLAN Author: CDurham Date: 6/20/2023 5:45:43 PM Status: Color: Layer: Space:

210' ROW and Principal arterial

Highlight (3)



Subject: Highlight Page Label: [3] C 3.2 GEC INTERIM PLAN Author: dsdlaforce Date: 6/14/2023 10:07:09 AM Status: Color: Layer: Space:



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