# EL PASO COUNTY, CO OCTOBER, 2019

# TRAILS AT ASPEN RIDGE **PRE-DEVELOPMENT GRADING & EROSION CONTROL** ET No.

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	TITLE SHEET LEGEND & ABBREVIATION NOTES GENERAL NOTES GRADING & EROSION CONTROL PLAN

THIS IS AN OVERLOT GRADING AND EROSION CONTROL PLAN ONLY. THIS PLAN DOES NOT REFLECT DETAILED/FINE GRADING ELEMENTS THAT WILL BE PART OF FINAL CONSTRUCTION DOCUMENTS FOR SITE DEVELOPMENT, PAVING OPERATIONS, PLACEMENT OF CURB & GUTTER, AND LANDSCAPING. BUILDING AND PARKING LOT LOCATIONS ARE PROVIDED FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE.

**OWNER/DEVELOPER** 

**CIVIL ENGINEER** 

WATER & SANITARY SEWER

ELECTRIC

GAS

STREET

DRAINAGE

FIRE DEPARTMENT

COLA, LLC 555 MIDDLE CREEK PARKWAY, SUITE 380 COLORADO SPRINGS, CO 80921

MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920

WIDEFIELD WATER AND SANITATION DISTRICT 8495 FONTAINE BOULEVARD COLORADO SPRINGS, CO 80925 ROBERT BANNISTER, (719) 390-7111

MOUNTAINVIEW ELECTRIC ASSOCIATION (719) 495-2283

COLORADO SPRINGS UTILITIES 1521 HANCOCK EXPRESSWAY COLORADO SPRINGS, CO MARY HOAGLUND (719) 668-4083

EL PASO COUNTY PUBLIC SERVICES DEPARTMENT (719) 520-6460

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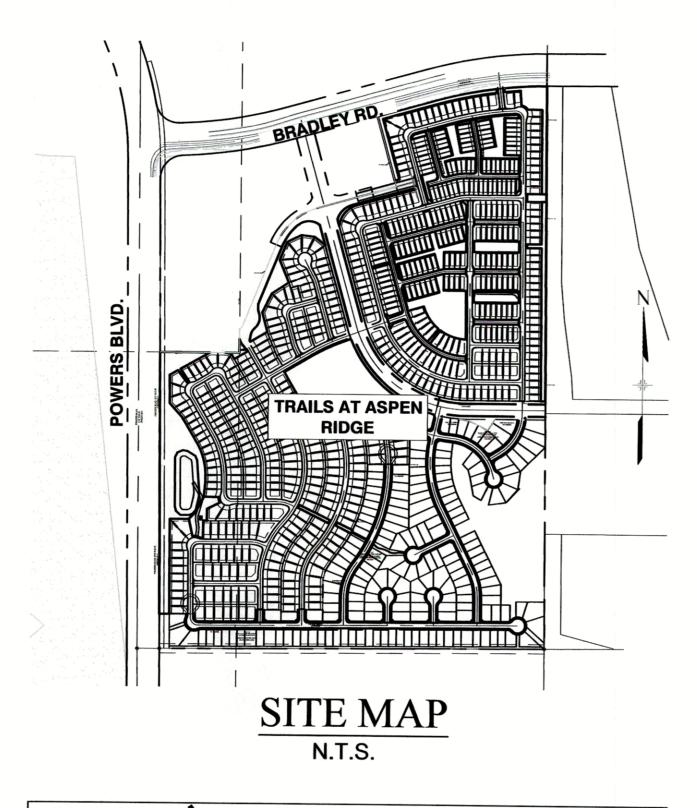
SECURITY FIRE DEPARTMENT 400 SECURITY BOULEVARD SECURITY, CO 80911 (719) 392-7121

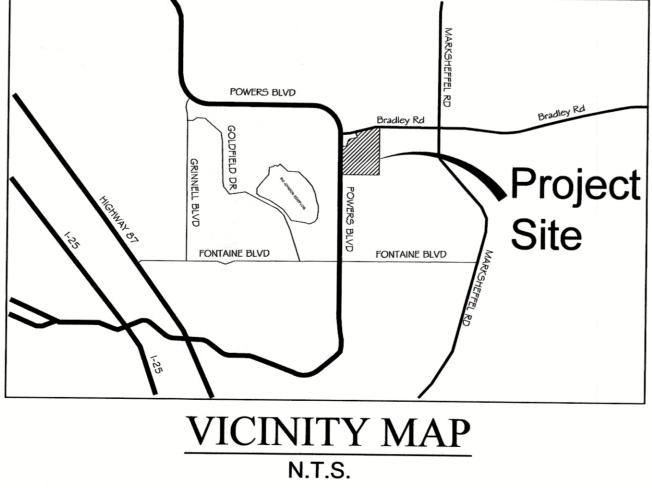
#### BENCHMARK

A COLORADO SPRINGS UTILITIES (FIMS) MONUMENT DESIGNATED "BG-14" BEING THE NORTH ANCHOR BOLT OF ELECTRIC TRANSMISSION TOWER #BGKC4 BEING THE THIRD TOWER NORTH OF THE ELECTRIC SUBSTATION NORTHWESTERLY OF POWERS BOULEVARD AND WOODMEN ROAD. HAVING A PUBLISHED ELEVATION OF 6861.21 FEET NGVD 1929.

### BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS MAP IS THE EAST LINE OF MARKSHEFFEL ROAD RIGHT-OF-WAY AS SHOWN ON THE PLAT OF SHILOH MESA FILING NO. 1 RECORDED ON MAY 19, 2016 IN THE OFFICE OF THE EL PASO COUNTY CLERK AND RECORDER UNDER RECEPTION NUMBER 216713770; MONUMENTED ON BOTH ENDS BY A FOUND REBAR AND 1" ORANGE PLASTIC CAP AND "PLS 38141"; BEARING NORTH 03°49'17" EAST 285.38 FEET.





### OWNER'S STATEMENT:

THE OWNER WILL COMPLY WITH T CONTROL PLAN.

RANDY O'LEARY, PRESIDENT Hart

#### ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CON SUPERVISION AND IS CORRECT TO PREPARED ACCORDING TO THE CI CONTROL PLANS. I ACCEPT RESPO ERRORS OR OMISSIONS ON MY PA

NICOLE SCHANEL, PE #52434

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED CRITERIA. THE COUNTY IS NOT RES **DIMENSIONS, AND/ OR ELEVATIONS** THROUGH THE APPROVAL OF THIS AND/ OR ACCURACY OF THIS DOCU

FILED IN ACCORDANCE WITH THE R CODE, DRAINAGE CRITERIA MANUA AMENDED.

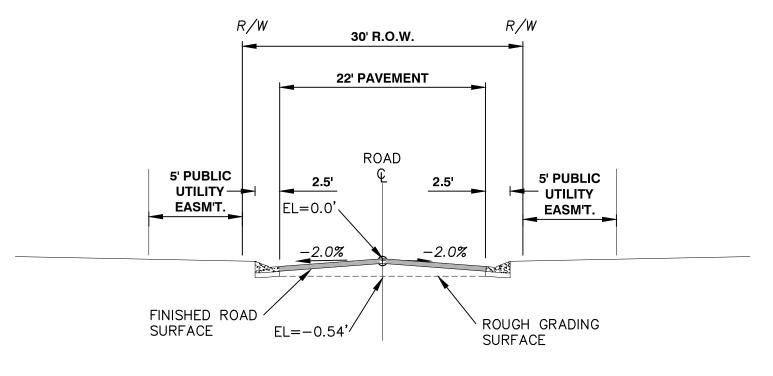
IN ACCORDANCE WITH ECM SECTIO CONSTRUCTION FOR A PERIOD OF ENGINEER. IF CONSTRUCTION HAS BE RESUBMITTED FOR APPROVAL COMMUNITY DEVELOPMENT DIREC

JENNIFER IRVINE, P.E. COUNTY ENGINEER / ECM ADMINIST

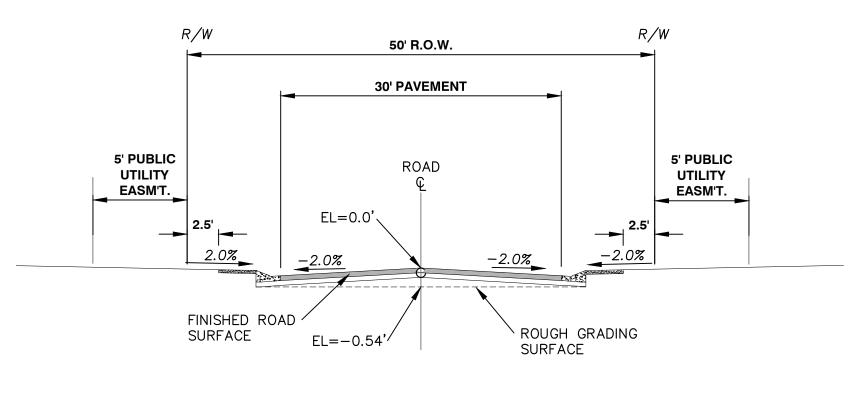
ណា	TRAILS AT ASPEN RIDGE EL PASO COUNTY, COLORADO
	PRE-DEVELOPMENT GRADING & EROSION CONTROL PLAN
Know what's <b>below.</b> <b>Call</b> before you dig	CONSULTANT:
	PLANNER/ LANDSCAPE ARCHITECT:
L PLAN	2435 Research Parkway, Suite 300 Colorado Springs, CO 80920 Phone 719-575-0100 Fax 719-575-0208
	CIVIL ENGINEER: Stantec 5725 Mark Dabling Blvd, Suite 190 Colorado Springs, CO 80919 Phone 719-227-7388
	PROJECT:
	TRAILS AT ASPEN RIDGE
HE REQUIREMENTS OF THE GRADING AND EROSION	EL PASO COUNTY AUGUST, 2019
DATE /	OWNER: COLA, LLC 555 MIDDLE CREEK PKWY, SUITE 380 COLORADO SPRINGS, CO 80921 (719) 382-9433
TROL PLAN WAS PREPARED UNDER MY DIRECTION AND THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN RITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION	DEVELOPER: COLA, LLC
INSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, RT IN PREPARING THIS REPORT.	555 MIDDLE CREEK PKWY, SUITE 380 COLORADO SPRINGS, CO 80921 (719) 382-9433
10/24/2019 DATE	
D ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN SPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS MENT.	ISSUE: SEPTEMBER, 2019
EQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT L, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS	SOLORADO CICCULA SOLORADO CICULA SOLORADO C
2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND TORS DISCRETION.	DRAWING INFORMATION:
By: Elizabeth Nijkamp	PROJECT NO:       19.886.008         DRAWN BY:       LUKE BONNER         CHECKED BY:       NICOLE SCHANEL         APPROVED BY:       NICOLE SCHANEL
TRATOR       Date:12/05/2019         El Paso County Planning & Community Development	SHEET TITLE:
	TITLE SHEET
	TS01
PCD FILE: PUDSP-191	SHEET 1 OF 8

#### ABBREVIATIONS

CDOTCOLORADO DEPARTMENT OF TRANSPORTATIONPCCPOINT OF COMPOUNDCENCENTERPCRPOINT OF CURB RETUC or CLCENTERLINEPC or P/LPROPERTY LINECFSCUBIC FEET PER SECONDPRCPOINT OF REVERSE CQONCCONCRETEPTPOINT OF TANGENCYCONSTCONSTRUCTIONPVCPOINT OF VERTICAL CUPCONTCONTINUOUSPVIPOINT OF VERTICAL INDIADIAMETERPVMTPAVEMENTDWGDRAWINGPVTPOINT OF VERTICAL T	SSY	ASSEMBLY	MAX	MAXIMUM
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HPHIGH POINTSSSANITARY SEWERHORIZHORIZONTALSW or S/WSIDEWALKHCLHORIZONTAL CONTROL LINETANTANGENTINVINVERT VERTICAL CURVE FACTORTBCTOP BACK OF CURBLFLINEAR FEETUGUNDERGROUND	IGL	HYDRAULIC GRADE LINE	STD	STANDARD
HORIZHORIZONTALSW or S/WSIDEWALKHCLHORIZONTAL CONTROL LINETANTANGENTINVINVERT VERTICAL CURVE FACTORTBCTOP BACK OF CURBLFLINEAR FEETUGUNDERGROUND			SS	SANITARY SEWER
HCLHORIZONTAL CONTROL LINETANTANGENTINVINVERTTBCTOP BACK OF CURBVERTICAL CURVE FACTORTYPTYPICALLFLINEAR FEETUGUNDERGROUND		HORIZONTAL	SW or S/W	SIDEWALK
VERTICAL CURVE FACTORTYPTYPICALLFLINEAR FEETUGUNDERGROUND		HORIZONTAL CONTROL LINE	TAN	TANGENT
LF LINEAR FEET UG UNDERGROUND	٧V	INVERT	TBC	TOP BACK OF CURB
		VERTICAL CURVE FACTOR	TYP	TYPICAL
KN LANE UTIL UTILITY	F	LINEAR FEET	UG	UNDERGROUND
	Ň	LANE	UTIL	UTILITY
LP LOW POINT VERT VERTICAL		LOW POINT	VERT	VERTICAL
LT LEFT WIDTH	т	LEFT	W	WIDTH
w/ WITH			w/	WITH







TYPICAL SECTION (URBAN LOCAL ROADWAY) SCALE : N.T.S.

#### <u>SYMBOLS</u>

	PROPOSED CENTERLINE		
	EXISTING PAVED ROAD	$\bigcirc$	PROPOSED MAN
E-SD	EXISTING UNDERGROUND UTILITY	0	EXISTING POWE
——— P-W 8 ———	PROPOSED UNDERGROUND UTILITY		THRUST BLOCK
	RIGHT OF WAY	P.	FIRE HYDRANT
	EASEMENT	$\bowtie$	EXISTING WATER
	EXISTING CURB & GUTTER	$\otimes$ $\bowtie$	PROPOSED WAT
	PROPOSED CURB & GUTTER	Η	WATER FITTINGS
			EXISTING STORM
	EXISTING CONTOUR		PROPOSED STO
r00	PROPOSED CONTOUR	E	PLUG PIPE
	LIMITS OF CONSTRUCTION		PROPOSED SIGN
			EXISTING SIGN

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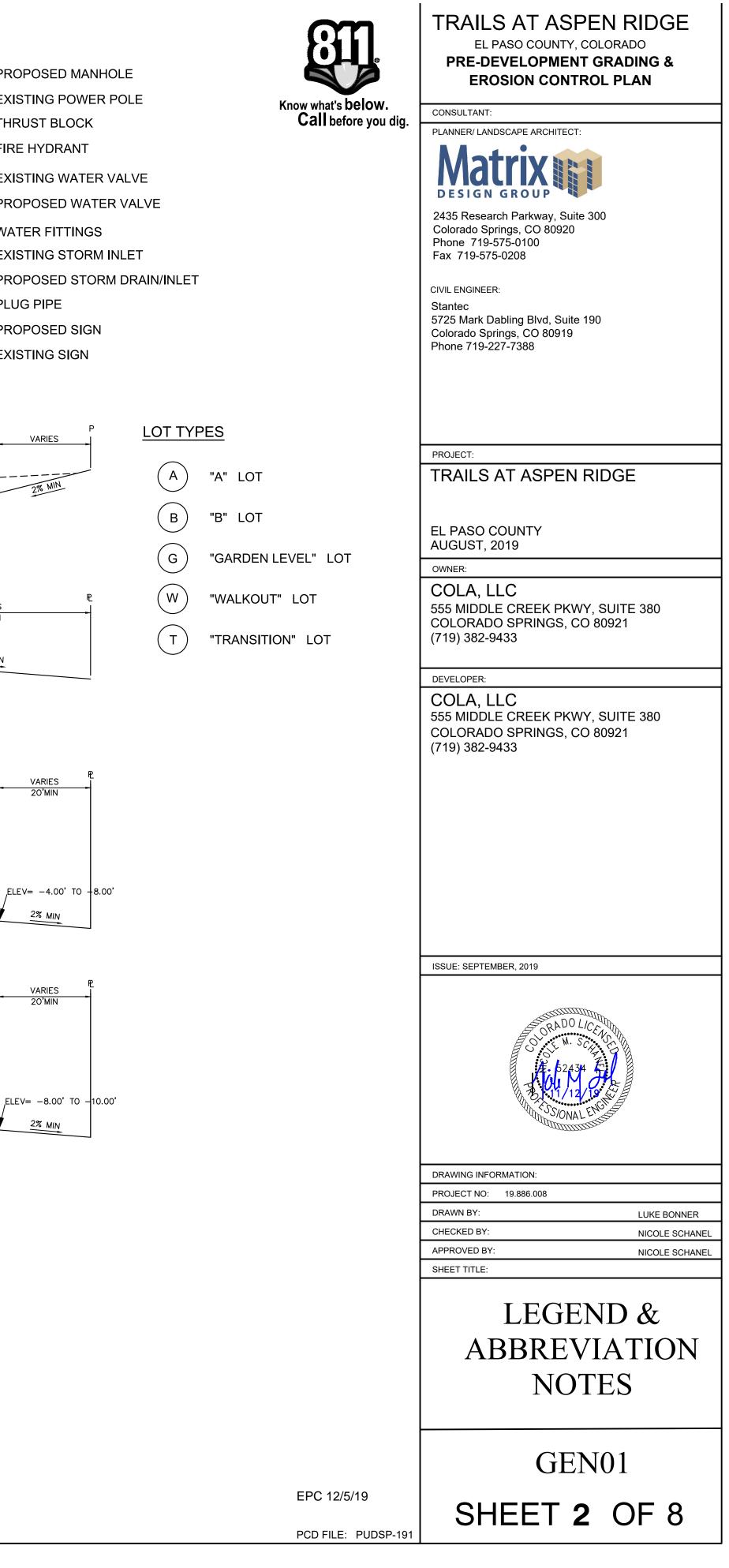
or POLYVINYL CHLORIDE RSECTION

VARIES VARIES VARIES -FINISHED GRADE TO BE FINISHED GRADE TO BE ESTABLISHED BY BUILDER AT TIME OF UNIT CONSTRUCTION. 2% MIN PROP.LINE ELEV. 0.00 2% MIN 5% 0% FINISHED GRADE AT PROP. LINE ~ELEV. +1.00-TOP BACK CURB ELEV. TYPICAL "A" LOT FINISHED PAVEMENT AS SHOWN ON PLANS VARIES VARIES FINISHED GRADE TO BE ESTABLISHED BY BUILDER AT 20'MIN PROP.LINE TIME OF UNIT CONSTRUCTION. ELEV. 0.00 2% MIN 2% MIN 2% MIN - ELEV. +1.00-FINISHED GRADE AT PROP. LINE <u>TOP BACK</u> CURB ELEV. TYPICAL "B" LOT FINISHED PAVEMENT AS SHOWN ON PLANS -VARIES 12'-24' VARIES FINISHED GRADE TO BE 20'MIN ESTABLISHED BY BUILDER AT PROP.LINE TIME OF UNIT CONSTRUCTION. ELEV. 0.00 \_\_\_\_\_<u>2% MIN</u> 0% ~ELEV. +1.00 FINISHED GRADE TOP BACK CURB ELEV. FINISHED PAVEMENT ,ELEV= -4.00' TO -8.00' AS SHOWN ON PLANS -2% MIN TYPICAL "GARDEN" LOT (G) NOT TO SCALE VARIES 24'-30' VARIES FINISHED GRADE TO BE ESTABLISHED BY BUILDER AT PROP.LINE TIME OF UNIT CONSTRUCTION. 20'MIN ELEV. 0.00 2% MIN` \_\_\_\_\_ 0% ~ELEV. +1.06 FINISHED GRADE 0% AT PROP. LINE

<u>TOP BACK</u> CURB ELEV.

FINISHED PAVEMENT AS SHOWN ON PLANS -

TYPICAL "WALKOUT" LOT (W) NOT TO SCALE



#### STANDARD NOTES FOR EL PASO COUNTY GRADING & EROSION CONTROL PLANS:

- 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 TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- 4. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS INDICATED ON THE 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 PCD INSPECTIONS 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 29. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL 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 EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPI EMENTATION
- 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 RUNOFF TO STATE WATERS. INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- 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 IS TO 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 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.

- POINTS.

TIMING ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: SEPTEMBER 2019 THRU SEPTEMBER 2020

AREAS

STANDARD NOTES FOR EL PASO COUNTY GRADING & EROSION CONTROL PLANS (CONT.)

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 ESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS

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 EQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. DATED APRIL 2019 AND SHALL BE CONSIDERED A PART OF THESE PLANS.

DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

> COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

#### NRCS SOIL SURVEY FOR EL PASO COUNTY

SOIL ID NO	SOIL TYPE	HYDROLOGIC CLASSIFICATION
8	BLAKELAND LOAMY SAND (1%-9% SLOPES)	A
52	MANZANST CLAY LOAM (0%-3% SLOPES)	С
56	NELSON-TASSEL FINE SANDY LOA (3%-18% SLOPES)	M B
86	STONEHAM SANDY LOAM (3%-8% SLOPES)	В
108	WILEY SILT LOAM (3%-9% SLOPES)	В

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED: SEPTEMBER 2020

TOTAL AREA: 166.88 ACRES

**RECEIVING WATERS** 

NAME OF RECEIVING WATERS FOUNTAIN CREEK (ULTIMATE)

#### NPDES NOTES:

- THE CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD, AND CONSTRUCTION DEBRIS THAT MAY ACCUMULATE IN THE FLOWLINES AND PUBLIC RIGHTS OF WAYS AS A RESULT OF THIS CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER, OR AS DIRECTED BY THE ENGINEER.
- 2. THIS CONSTRUCTION ACTIVITIES STORMWATER MANAGEMENT PLAN (SWMP) HAS BEEN SUBMITTED AS PART OF AN APPLICATION FOR AN EROSION AND SEDIMENT CONTROL PERMIT FILED WITH THE CITY OF COLORADO SPRINGS AND AS INCLUSION BY REFERENCE TO THE CDPHE CONSTRUCTION ACTIVITY PERMIT. THE SWMP IS A LIVING DOCUMENT AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE CONTRACTOR DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL BE THE OBLIGATION OF THE LAND OWNER AND/OR HIS SUCCESSORS OR HEIRS: UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED. MODIFIED. OR VOIDED.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO 3. ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
- THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING 4. OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT.
- 5. A LAYER OF SUITABLE MULCH SHALL BE APPLIED TO ALL DISTURBED PORTIONS OF THE SITE WITHIN 21 DAYS OF THE COMPLETION OF GRADING. SAID MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE AND SHALL BE TACKED OR FASTENED BY AN APPROVED METHOD SUITABLE FOR THE TYPE OF MULCH USED. ROUGH-CUT STREETS SHALL BE MULCHED UNLESS A LAYER OF AGGREGATE ROAD BASE COMPLETION OF OVERLOT GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THEN SIXTY (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.
- "BEST MANAGEMENT PRACTICES" AS INDICATED IN THE APPROVED CONSTRUCTION ACTIVITIES STORMWATER MANAGEMENT PLAN. BMP'S SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT.
- AT A MINIMUM, THE CONTRACTOR SHALL INSPECT, AND KEEP A LOG OF, ALL BMP'S WEEKLY AND AFTER SIGNIFICANT PRECIPITATION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE BMP WHEN THE SEDIMENT LEVEL REACHES ONE-HALF THE HEIGHT OF THE BMP, OR, AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTIONING OF THE BMP.
- THE CONTRACTOR SHALL PROPERLY COVER ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT WITHIN PUBLIC **RIGHTS OF WAY.**
- THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES; OR TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE: IS PROHIBITED. THE USE OF MEASURES IS NOT ACCEPTABLE.
- 10. SOILS THAT WILL BE STOCKPILED FOR MORE THAN 30 DAYS SHALL BE MULCHED AND SEEDED WITH A TEMPORARY OR PERMANENT GRASS COVER WITHIN 21 DAYS OF STOCKPILE CONSTRUCTION. IF STOCKPILES ARE LOCATED WITHIN 100 FEET OF A DRAINAGEWAY, ADDITIONAL SEDIMENT CONTROLS SUCH AS TEMPORARY DIKES OR SILT FENCE SHALL BE REQUIRED.
- 11. MODIFICATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT BY THE CONTRACTOR SHALL OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT UPON COMPLETION OF THE PROJECT REQUIRES NOTIFICATION OF AND APPROVAL BY THE CITY OF COLORADO SPRINGS.
- 12. UNLESS CONFINED IN A PREDEFINED, BERMED CONTAINMENT AREA, THE CLEANING OF CONCRETE TRUCK DELIVERY CHUTES IS PROHIBITED AT THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED.
- 13. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE CUTTING ARE TO TAKE PLACE. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING **OPERATIONS ON A DAILY BASIS.**
- 14. LOCATION OF STAGING, STORAGE, EQUIPMENT MAINTENANCE, TEMPORARY DISPOSAL, VEHICLE TRACKING CONTROL AND CONCRETE TRUCK WASHOUT AREAS WILL BE DETERMINED IN THE FIELD AT THE START OF CONSTRUCTION ACTIVITY AND DELINEATED ON THIS PLAN.



THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING OR

OR ASPHALT PAVING IS TO BE APPLIED TO SAID ROUGH-CUT STREETS WITHIN THE 21 DAY PERIOD AFTER

THE CONTRACTOR SHALL LOCATE, INSTALL, AND MAINTAIN ALL EROSION CONTROL AND WATER QUALITY

COMPLETED IN A TIMELY MANNER. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A

OSHA APPROVED COLORED WARNING CAPS ON REBAR OR FENCE POSTS USED WITH EROSION CONTROL

REQUIRE TIMELY NOTIFICATION OF AND APPROVAL BY THE CITY OF COLORADO SPRINGS. TERMINATION

PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING OR ABRASIVE WATER JET

#### TRAILS AT ASPEN RIDGE EL PASO COUNTY, COLORADO **PRE-DEVELOPMENT GRADING & EROSION CONTROL PLAN**

CONSULTANT:



2435 Research Parkway, Suite 300 Colorado Springs, CO 80920 Phone 719-575-0100 Fax 719-575-0208

CIVIL ENGINEER: Stantec 5725 Mark Dabling Blvd, Suite 190 Colorado Springs, CO 80919 Phone 719-227-7388

# TRAILS AT ASPEN RIDGE

EL PASO COUNTY AUGUST, 2019

PROJECT:

DEVELOPER:

OWNER: COLA, LLC 555 MIDDLE CREEK PKWY, SUITE 380 COLORADO SPRINGS, CO 80921 (719) 382-9433

COLA, LLC 555 MIDDLE CREEK PKWY, SUITE 380 COLORADO SPRINGS, CO 80921 (719) 382-9433

ISSUE: SEPTEMBER, 2019



DRAWING INFORMATION:	
PROJECT NO: 19.886.008	
DRAWN BY:	LUKE BONNER
CHECKED BY:	NICOLE SCHANEL
APPROVED BY:	NICOLE SCHANEL
SHEET TITLE:	

# GENERAL NOTES

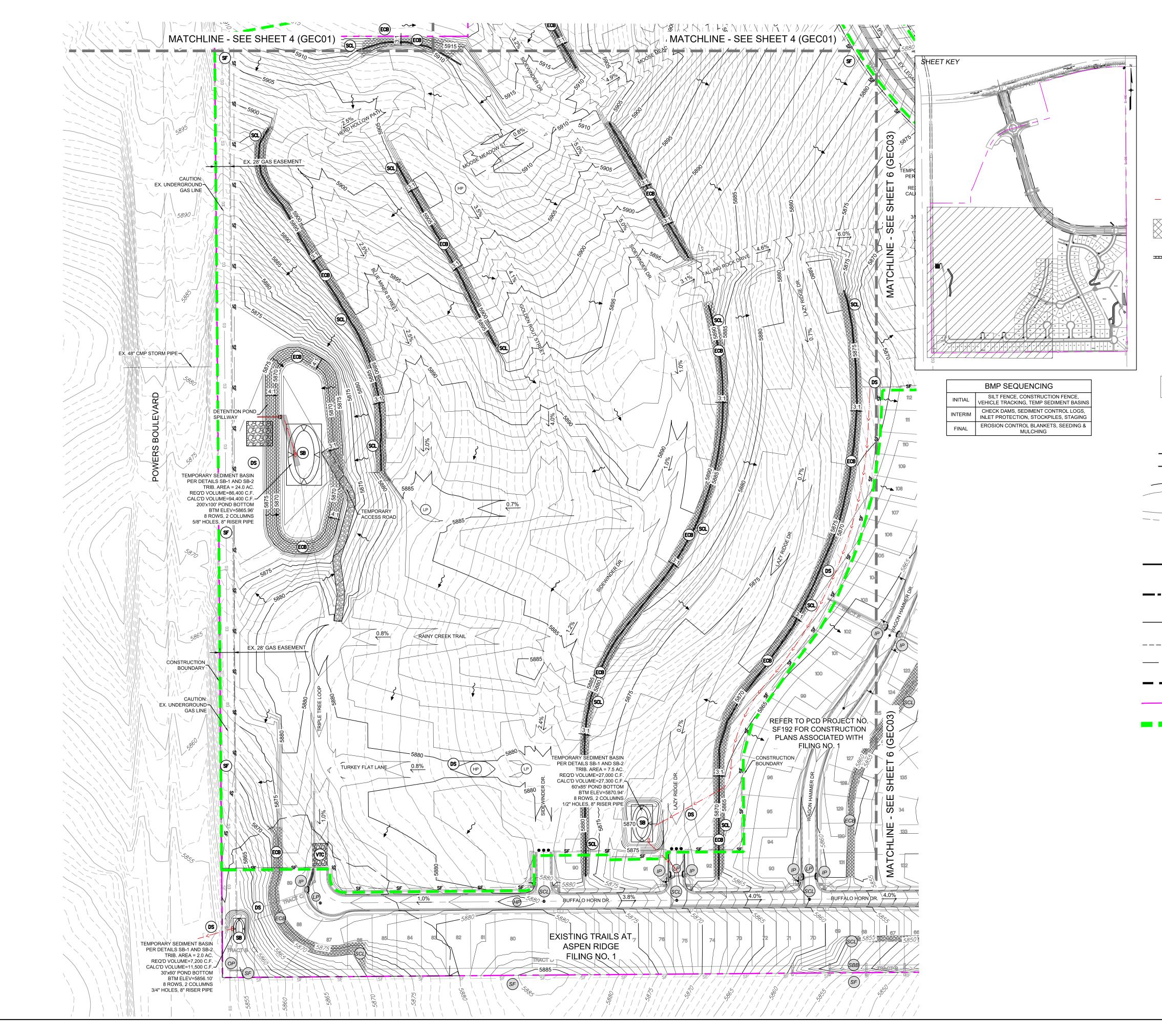
**GN01** 

SHEET 3 OF 8

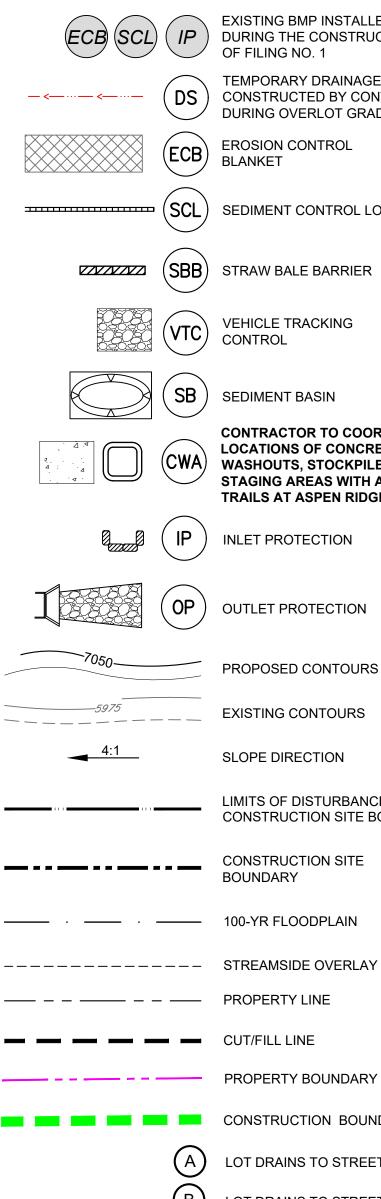
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Last Cart And N	
<b>M</b>	TRAILS AT ASPEN RIDGE EL PASO COUNTY, COLORADO
	PRE-DEVELOPMENT GRADING &
Know what's below	EROSION CONTROL PLAN
Call before you	
	Matrivas
	Matrix DESIGN GROUP
	2435 Research Parkway, Suite 300
	Colorado Springs, CO 80920 Phone 719-575-0100 Fax 719-575-0208
	CIVIL ENGINEER: Stantec
	5725 Mark Dabling Blvd, Suite 190 Colorado Springs, CO 80919 Phone 719-227-7388
	PROJECT:
BMP SEQUENCING SILT FENCE, CONSTRUCTION FENCE,	TRAILS AT ASPEN RIDGE
INITIAL         VEHICLE TRACKING, TEMP SEDIMENT BASINS           INTERIM         CHECK DAMS, SEDIMENT CONTROL LOGS, INLET PROTECTION, STOCKPILES, STAGING	
FINAL EROSION CONTROL BLANKETS, SEEDING & MULCHING	EL PASO COUNTY AUGUST, 2019
ECB (SCL) (IP) EXISTING BMP INSTALLED DURING THE CONSTRUCTION	
OF FILING NO. 1	COLA, LLC 555 MIDDLE CREEK PKWY, SUITE 380
CONSTRUCTED BY CONTRACTOR DURING OVERLOT GRADING	COLORADO SPRINGS, CO 80921 (719) 382-9433
	DEVELOPER:
ECB EROSION CONTROL BLANKET	COLA, LLC
	555 MIDDLE CREEK PKWY, SUITE 380 COLORADO SPRINGS, CO 80921
	(719) 382-9433
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	
SP) STOCKPILE/STAGING AREA	
	ISSUE: SEPTEMBER, 2019
40088	
	OPADU LICENS
PROPOSED CONTOURS	# 62434
	51.11/12/13 57 55/ONALEN 55
4:1 SLOPE DIRECTION	A COLONIAL STREET
	DRAWING INFORMATION:
– – – – – – – PROPERTY BOUNDARY	PROJECT NO: 19.886.008 DRAWN BY: LUKE BONNER
	CHECKED BY: NICOLE SCHANEL
A LOT DRAINS TO STREET	APPROVED BY: NICOLE SCHANEL SHEET TITLE:
N (B) LOT DRAINS TO STREET & REAR C	GRADING &
T LOT DRAINAGE VARIES	EROSION
G GARDEN LEVEL BASEMENT	CONTROL
W WALK OUT BASEMENT	PLAN
GRAPHIC SCALE	GEC01
( IN FEET $)$ EPC 12/5/19 1 inch = 100 ft.	
PCD FILE: PUDS	5P-191







*IP* EXISTING BMP INSTALLED DURING THE CONSTRUCTION OF FILING NO. 1

TEMPORARY DRAINAGE SWALE TO BE (DS) CONSTRUCTED BY CONTRACTOR DURING OVERLOT GRADING

(ECB) EROSION CONTROL BLANKET

 $\mathbf{v}(\mathsf{SCL})$  SEDIMENT CONTROL LOG

(SBB) STRAW BALE BARRIER

VEHICLE TRACKING CONTROL

SEDIMENT BASIN

CONTRACTOR TO COORDINATE LOCATIONS OF CONCRETE (CWA) WASHOUTS, STOCKPILES, AND STAGING AREAS WITH ADJACENT TRAILS AT ASPEN RIDGE FILINGS

INLET PROTECTION

OUTLET PROTECTION

PROPOSED CONTOURS

EXISTING CONTOURS

SLOPE DIRECTION

LIMITS OF DISTURBANCE & CONSTRUCTION SITE BOUNDARY

CONSTRUCTION SITE BOUNDARY

——— 100-YR FLOODPLAIN

CUT/FILL LINE

PROPERTY BOUNDARY

CONSTRUCTION BOUNDARY LINE

(A) LOT DRAINS TO STREET

 $(\mathsf{B})$  LOT DRAINS TO STREET & REAR OF LOT

(T) LOT DRAINAGE VARIES

(G) GARDEN LEVEL BASEMENT

W WALK OUT BASEMENT

SHEET TITLE:

GRADING &

GEC02

GRAPHIC SCALE ( IN FEET ) 1 inch = 100 ft.

TRAILS AT ASPEN RIDGE EL PASO COUNTY, COLORADO **PRE-DEVELOPMENT GRADING & EROSION CONTROL PLAN** 

CONSULTANT:



2435 Research Parkway, Suite 300 Colorado Springs, CO 80920 Phone 719-575-0100 Fax 719-575-0208

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## TRAILS AT ASPEN RIDGE

EL PASO COUNTY AUGUST, 2019

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COLA, LLC 555 MIDDLE CREEK PKWY, SUITE 380 COLORADO SPRINGS, CO 80921 (719) 382-9433

ISSUE: SEPTEMBER, 2019



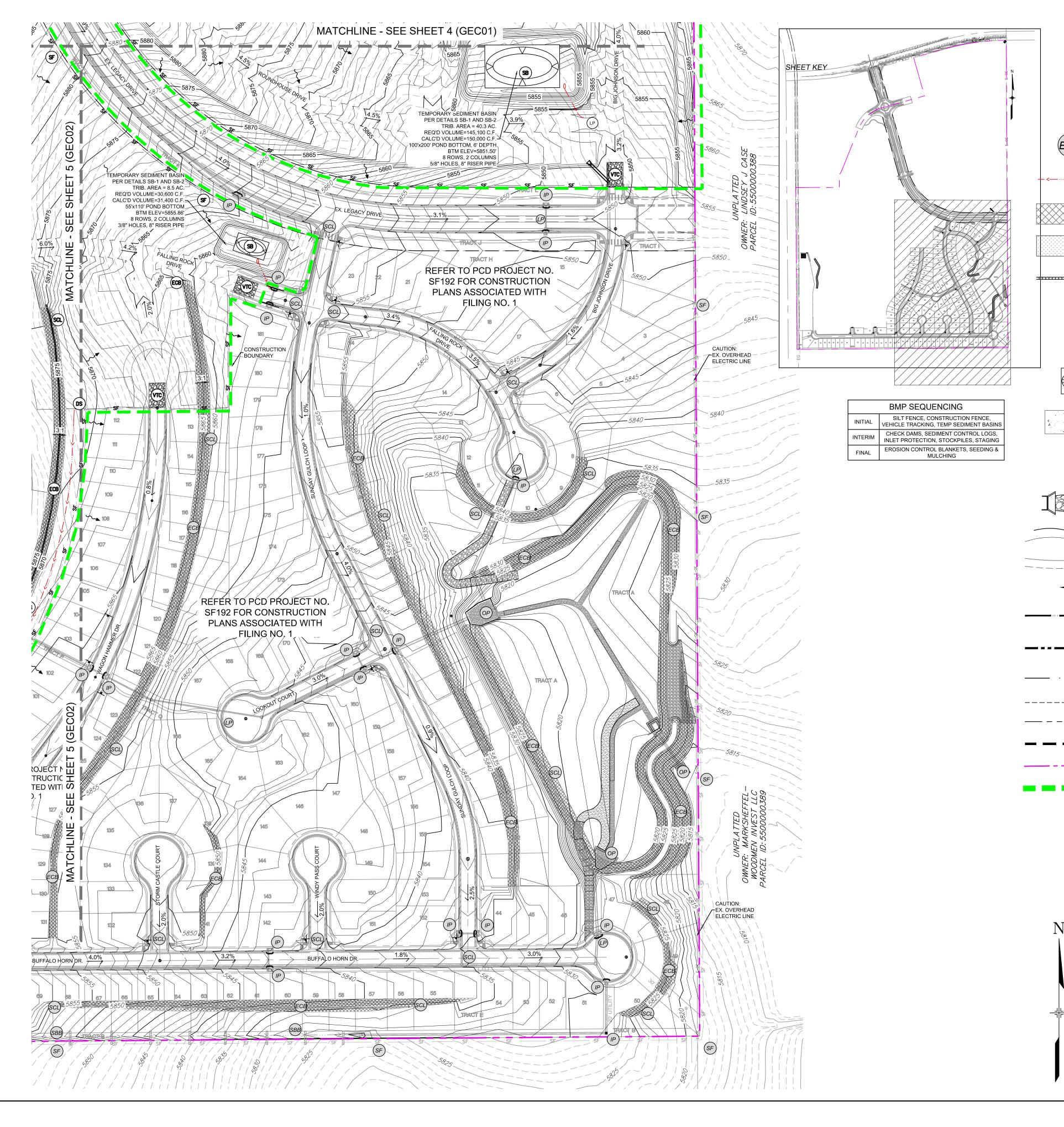
DRAWING INFOR	MATION:	
PROJECT NO:	19.886.008	
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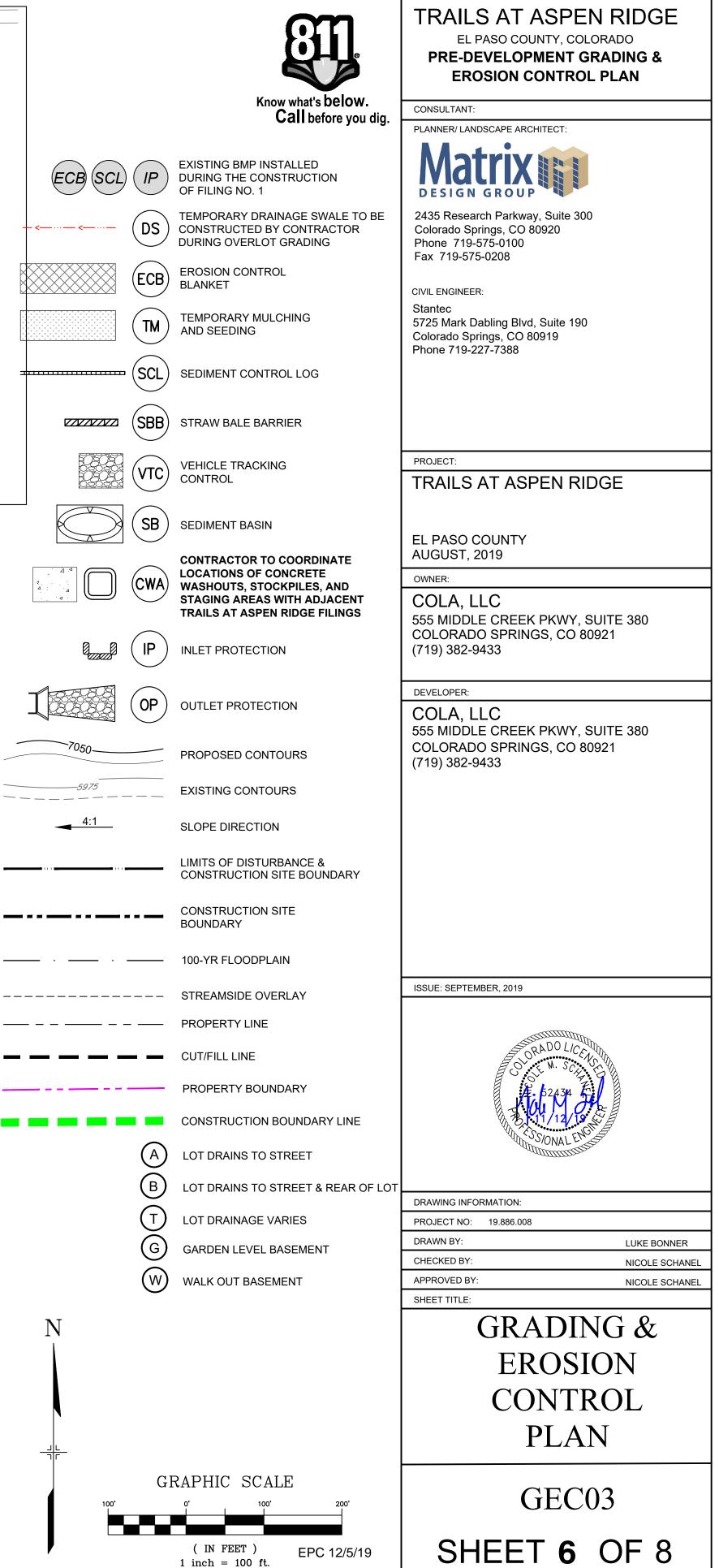


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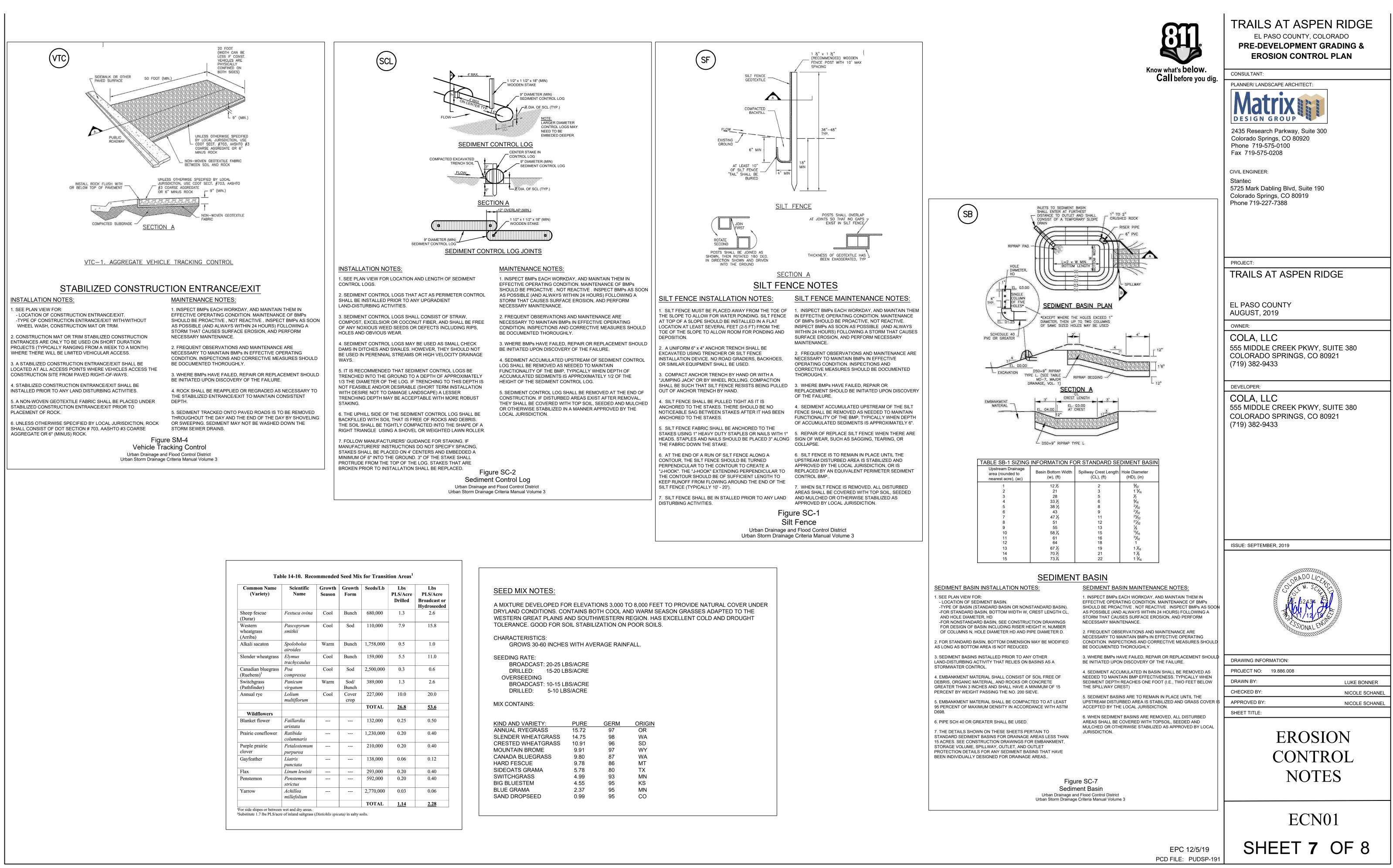
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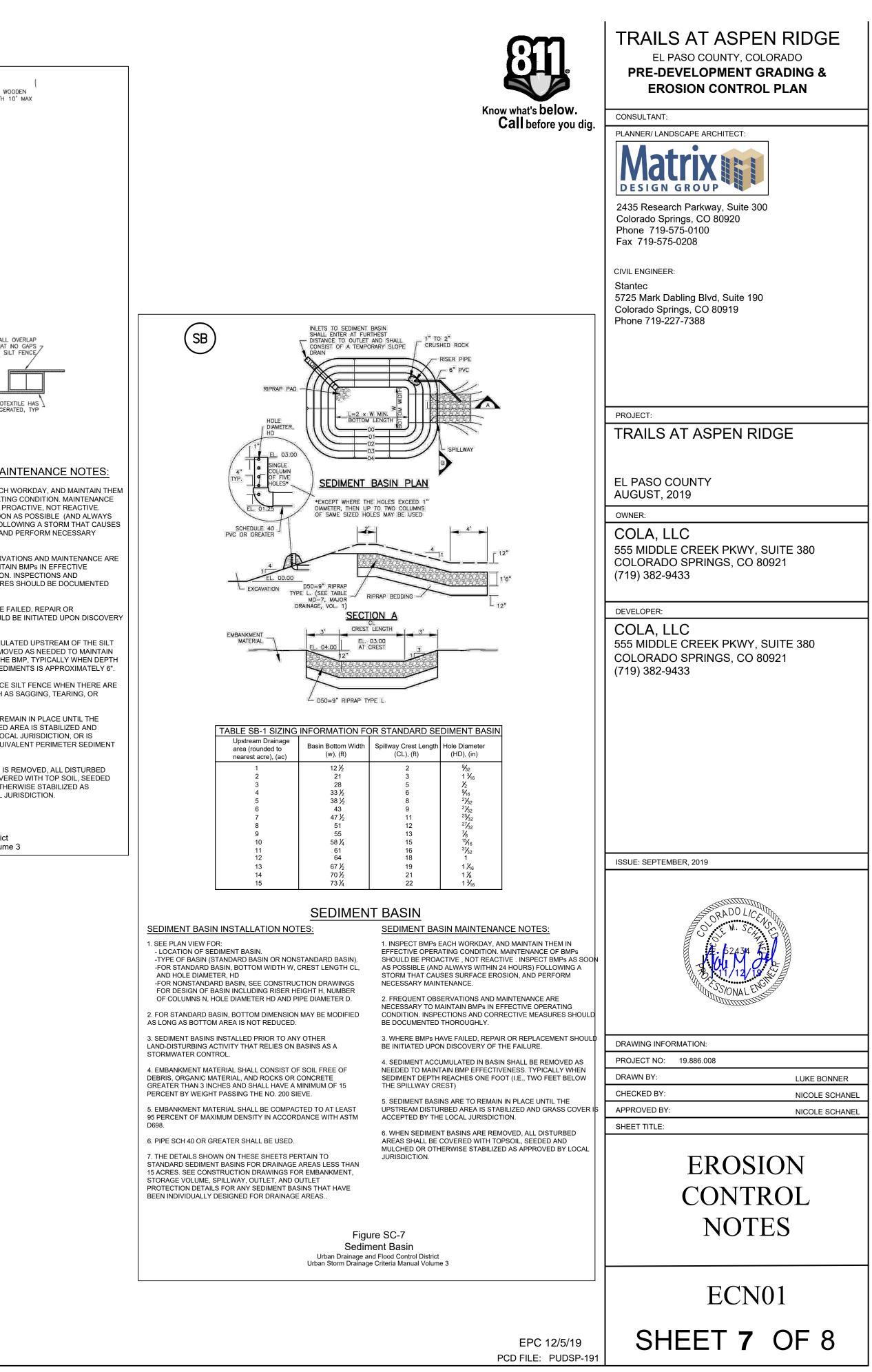
( IN FEET ) 1 inch = 100 ft.

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Common Name (Variety)	Scientific Name	Growth Season	Growth Form	Seeds/Lb	Lbs PLS/Acre Drilled	Lbs PLS/Acre Broadcast or Hydroseeded
Sheep fescue (Durar)	Festuca ovina	Cool	Bunch	680,000	1.3	2.6
Western wheatgrass (Arriba)	Pascopyrum smithii	Cool	Sod	110,000	7.9	15.8
Alkali sacaton	Spolobolus airoides	Warm	Bunch	1,758,000	0.5	1.0
Slender wheatgrass	Elymus trachycaulus	Cool	Bunch	159,000	5.5	11.0
Canadian bluegrass (Ruebens) <sup>1</sup>	Poa compressa	Cool	Sod	2,500,000	0.3	0.6
Switchgrass (Pathfinder)	Panicum virgatum	Warm	Sod/ Bunch	389,000	1.3	2.6
Annual rye	Lolium multiflorum	Cool	Cover crop	227,000	10.0	20.0
				TOTAL	<u>26.8</u>	<u>53.6</u>
Wildflowers						
Blanket flower	Faillardia aristata			132,000	0.25	0.50
Prairie coneflower	Ratibida columnaris			1,230,000	0.20	0.40
Purple prairie clover	Petalostemum purpurea			210,000	0.20	0.40
Gayfeather	Liatris punctata			138,000	0.06	0.12
Flax	Linum lewisii			293,000	0.20	0.40
Penstemon	Penstemon strictus			592,000	0.20	0.40
Yarrow	Achillea millefolium			2,770,000	0.03	0.06
				TOTAL	1.14	2.28

IND AND VARIETY:	PURE	GERM	ORIGIN
NNUAL RYEGRASS	15.72	97	OR
LENDER WHEATGRASS	14.75	98	WA
RESTED WHEATGRASS	10.91	96	SD
OUNTAIN BROME	9.91	97	WY
ANADA BLUEGRASS	9.80	87	WA
ARD FESCUE	9.78	86	MT
IDEOATS GRAMA	5.78	80	ТХ
WITCHGRASS	4.99	93	MN
IG BLUESTEM	4.55	95	KS
LUE GRAMA	2.37	95	MN
AND DROPSEED	0.99	95	CO



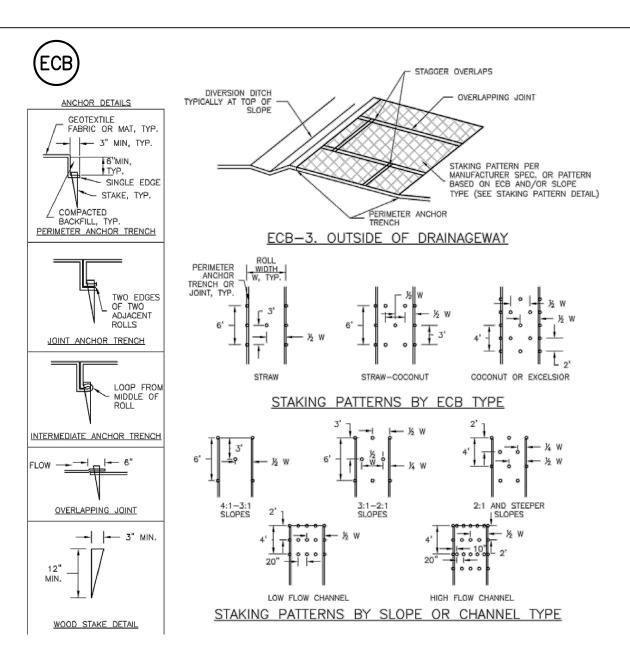


TABLE ECB-1, ECB MATERIAL SPECIFICATIONS					
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING **	
STRAW *	-	100%	-	DOUBLE/ NATURAL	
STRAW- COCONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL	
COCONUT	100%	-	-	DOUBLE/ NATURAL	
EXCELSIOR	-	-	100%	DOUBLE/ NATURAL	

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

### EROSION CONTROL BLANKET

MAINTENANCE NOTES:

NECESSARY MAINTENANCE.

DOCUMENTED THOROUGHLY.

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN

TO MAINTAIN BMPs IN FEFECTIVE OPERATING CONDITION INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

BE INITIATED UPON DISCOVERY OF THE FAILURE.

EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs

M THAT CAUSES SURFACE EROSION, AND PERFORM

SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A

2 FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD

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.

INSTALLATION NOTES

I. SEE PLAN VIEW FOR: - LOCATION OF ECB.

-TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, EXCELSIOR). -AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB. . 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED

FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS. 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 BLANKET.

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

5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.

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

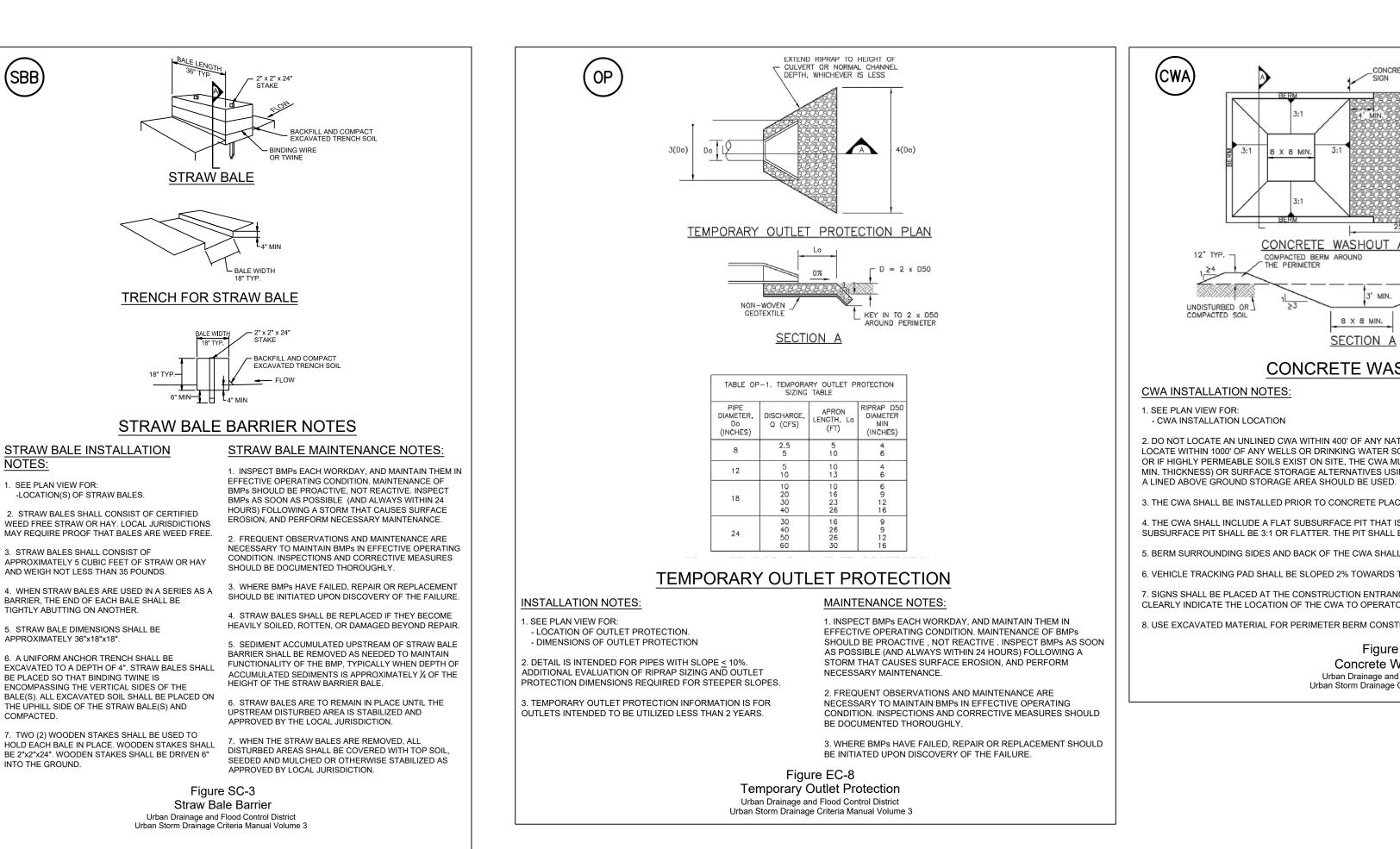
7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.

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

9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEEDED AND MULCHED.

10. DEATAILS ON DESIGN PLAND FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN

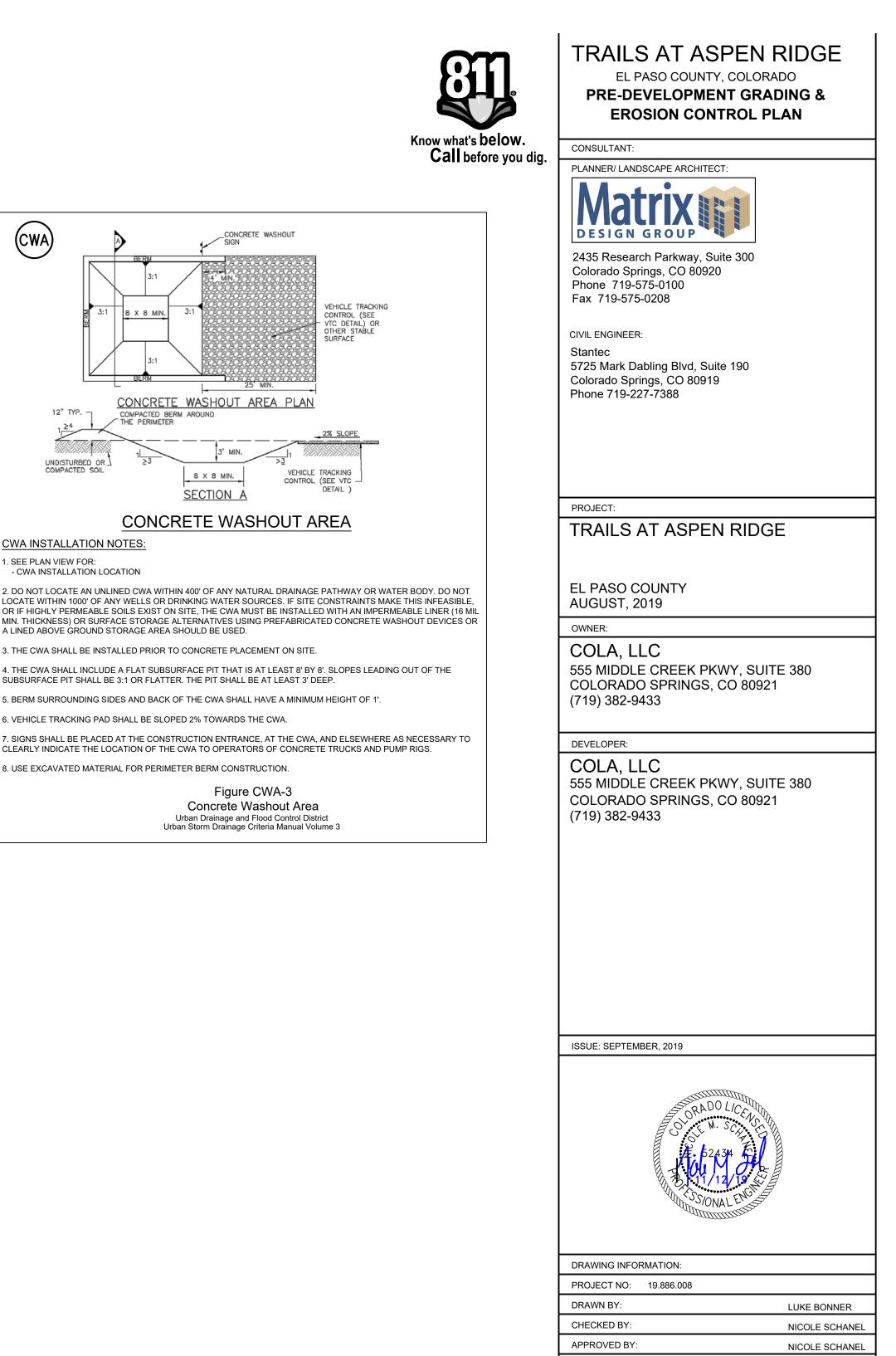
> Figure EC-6 Rolled Erosion Control Product Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3



HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE 2"x2"x24". WOODEN STAKES SHALL BE DRIVEN 6" INTO THE GROUND.

SBB

NOTES



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EROSION

CONTROL

NOTES

SHEET TITLE: