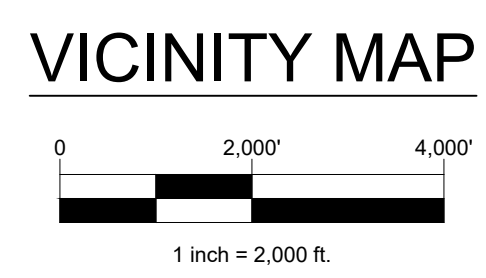
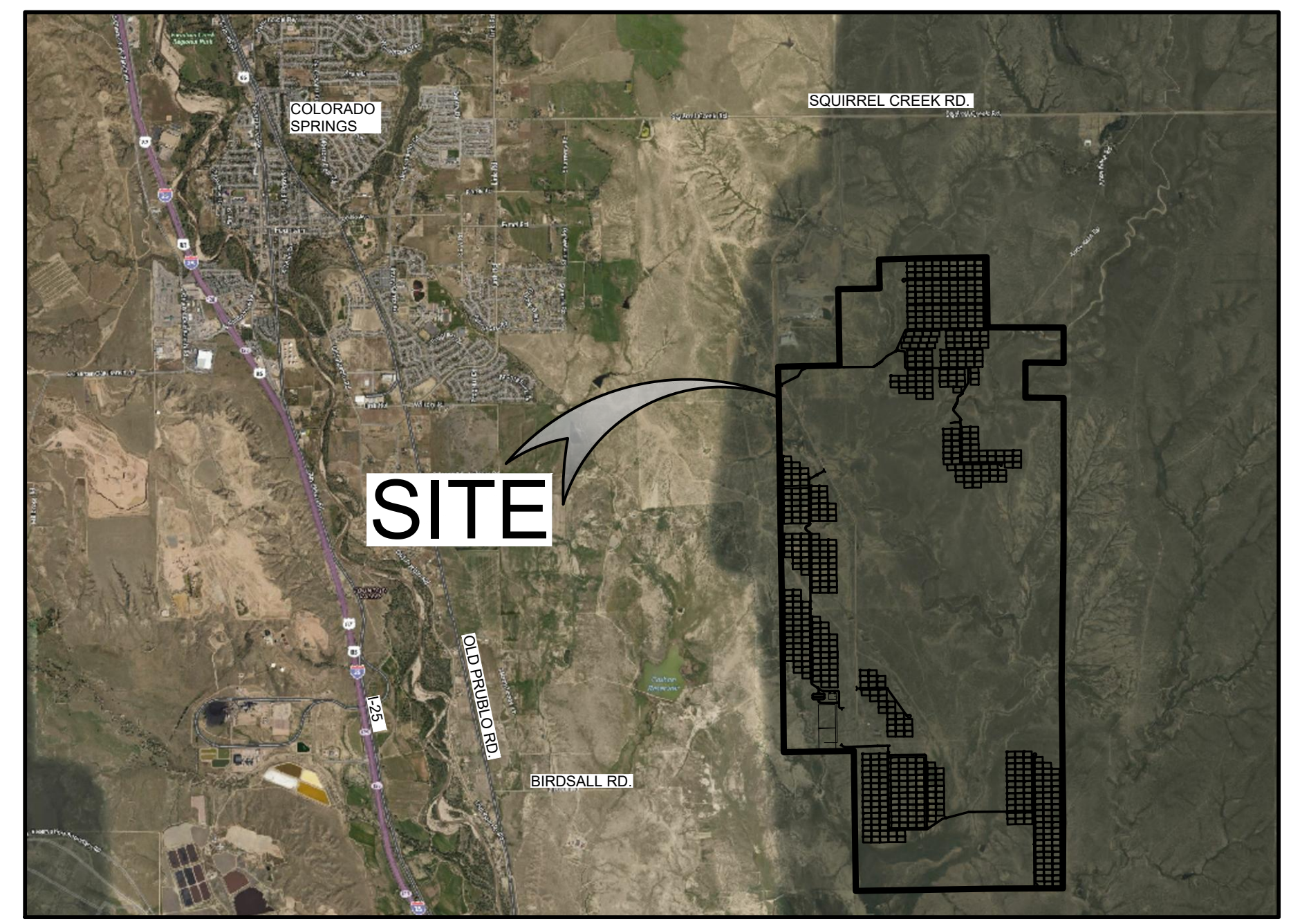


# PIKE SOLAR GRADING, EROSION & SEDIMENT CONTROL PLANS

A PORTION OF SECTION 7, 18, 19, 30, 31 TOWNSHIP 16 SOUTH, RANGE 64 WEST, AND A PORTION OF SECTION 11, 12, 13, 14, 23, 24, 25, 26, 35, & 36 TOWNSHIP 16 SOUT, RANGE 65 WEST, 6TH P.M.  
EL PASO COUNTY, COLORADO.

## LEGAL DESCRIPTION

TRACT 1:  
THE FOLLOWING DESCRIBED LANDS LOCATED IN TOWNSHIP 16 SOUTH, RANGE 64 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO:  
SECTION 19: THE SE 1/4 NW 1/4; LOTS 3 AND 4 (W 1/2 SW 1/4) AND THE E 1/2 SW 1/4  
SECTION 30: LOTS 1, 2, 3 AND 4 (W 1/2 NW 1/4 AND W 1/2 SW 1/4); E 1/2 NW 1/4 AND THE E 1/2 SW 1/4  
SECTION 31: LOTS 1 AND 2 (W 1/2 NW 1/4) AND THE E 1/2 NW 1/4  
THE FOLLOWING DESCRIBED LANDS LOCATED IN TOWNSHIP 16 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO:  
SECTION 13: ALL EXCEPT THE NW 1/4 NE 1/4  
SECTION 14: E 1/2  
SECTION 23: E 1/2  
SECTION 24: ALL  
SECTION 25: ALL  
SECTION 26: NE 1/4  
SECTION 36: N 1/2  
PARCEL ID: 56000-00-123  
TRACT 2:  
ALL THE REAL PROPERTY, TOGETHER WITH IMPROVEMENTS, IF ANY, SITUATE, LYING AND BEING IN THE COUNTY OF EL PASO AND STATE OF COLORADO, DESCRIBED AS FOLLOWS:  
PORTIONS OF SECTIONS 11, 12 AND 13, TOWNSHIP 16 SOUTH, RANGE 65 WEST AND PORTIONS OF SECTIONS 7, 18 AND 19, TOWNSHIP 16 SOUTH, RANGE 64 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
ALL OF SAID SECTION 12;  
THE EAST HALF OF SAID SECTION 11;  
THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 13;  
THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER AND GOVERNMENT LOTS 3 AND 4 OF SAID SECTION 7;  
THE EAST HALF OF THE WEST HALF AND GOVERNMENT LOTS 1, 2, 3 AND 4 OF SAID SECTION 18;  
GOVERNMENT LOTS 1 AND 2 AND THE NORTHEAST QUARTER OF SAID SECTION 19;  
EXCEPTING FROM SAID SECTIONS 11 AND 12 THOSE PORTIONS DESCRIBED IN BOOK 5734 AT PAGE 253.  
SAID TRACTS ARE FURTHER DESCRIBED ON THE LAND SURVEY PLAT NO. 97902142 OF THE RECORDS OF EL PASO COUNTY, COLORADO AND CONTAIN APPROXIMATELY 1341.96 ACRES, MORE OR LESS.  
PARCEL ID: 56000-00-140



## ENGINEERS STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENCE, ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS REPORT.

ENGINEER OF RECORD SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

## OWNERS STATEMENT:

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

OWNER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

## EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

COUNTY PROJECT ENGINEER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

## GEC NOTES

- 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 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 FROM 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 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.
- 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 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.
- 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.
- 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 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 LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S)
- 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.
- 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 SUB SURFACE 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.
- DURING DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER 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.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- 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.
- 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.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 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.
- 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.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE 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.
- 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 ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 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.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 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.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY TERRACON, ON FEBRUARY 5, 2021 AND SHALL BE CONSIDERED PART OF THESE PLANS.
- 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  
WOOD - PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT

## OWNER

JUVI INC.  
1710 29TH ST., SUITE 1068  
BOULDER, CO 80301  
CONTACT: BRIAN VICKERS  
(702) 838-2302  
EMAIL: BVICKERS@JUWIAMERICAS.COM

## ENGINEER

CORE CONSULTANTS, INC.  
3473 S. BROADWAY  
ENGLEWOOD, CO 80113  
(303) 703-4444  
CONTACT: DAVID BACCI  
EMAIL: BACCI@CORECIVIL.COM

## BENCHMARK

THE NORTH 1/16 CORNER FOR SECTIONS 8 & 9, TOWNSHIP 8 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN, BEING A REBAR WITH A 2-1/2" ALUMINUM CAP, STAMPED "PLS 28656"

PROJECT BENCHMARK ELEVATION = 6561.16 FEET

## BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED UPON THE EAST LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 8 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN, FROM THE NORTH 1/16 CORNER OF SECTIONS 8 & 9, BEING MONUMENTED BY A REBAR WITH A 2-1/2" ALUMINUM CAP, STAMPED "PLS 28656" TO THE EAST 1/4 CORNER OF SAID SECTION 8, BEING MONUMENTED BY A REBAR WITH A 2-1/2" ALUMINUM CAP, STAMPED "PLS 28656," WITH ALL BEARINGS CONTAINED HEREIN RELATIVE THERETO.

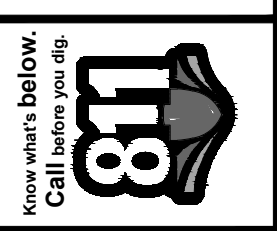
## ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

DAVID BACCI P.E.  
COLORADO NO. 42104  
FOR AND ON BEHALF OF CORE CONSULTANTS INC.

LAND DEVELOPMENT  
ENERGY  
PUBLIC INFRASTRUCTURE

CORE CONSULTANTS, INC.  
3473 S. BROADWAY  
ENGLEWOOD, CO 80113  
303.703.4444  
LIVE@CORE.COM



#	REVISION DESCRIPTION	DATE	BY
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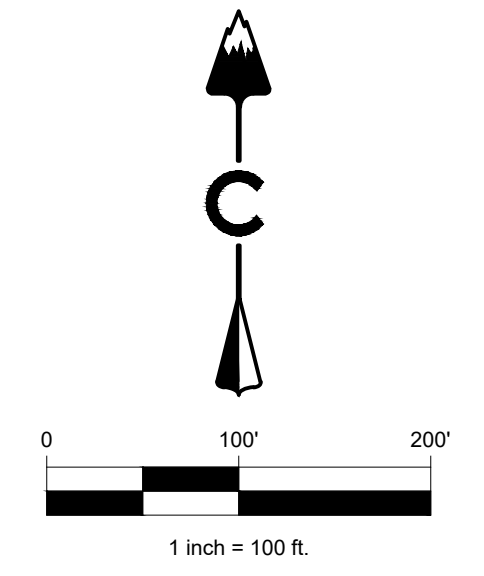
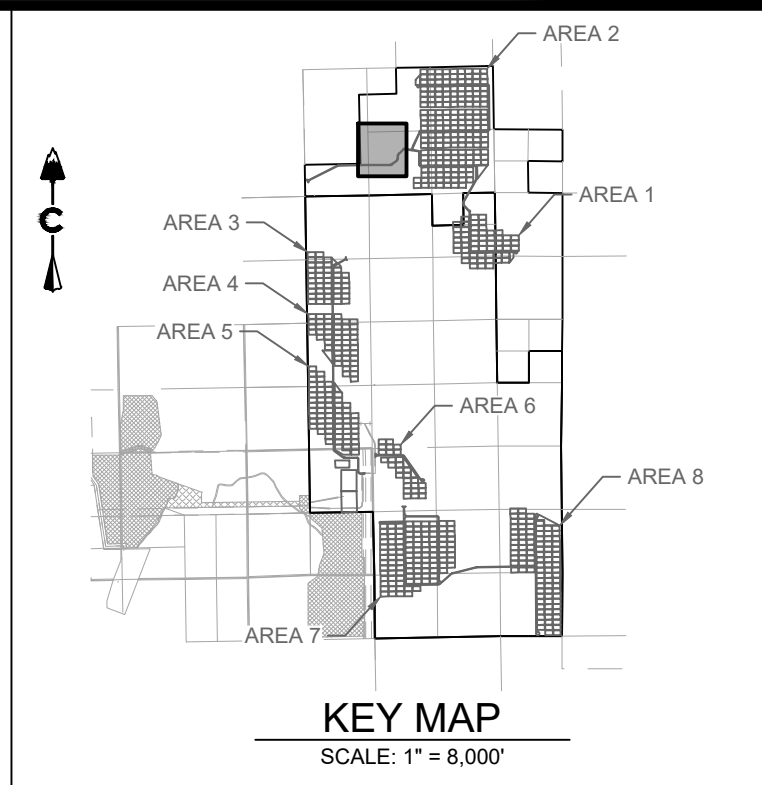
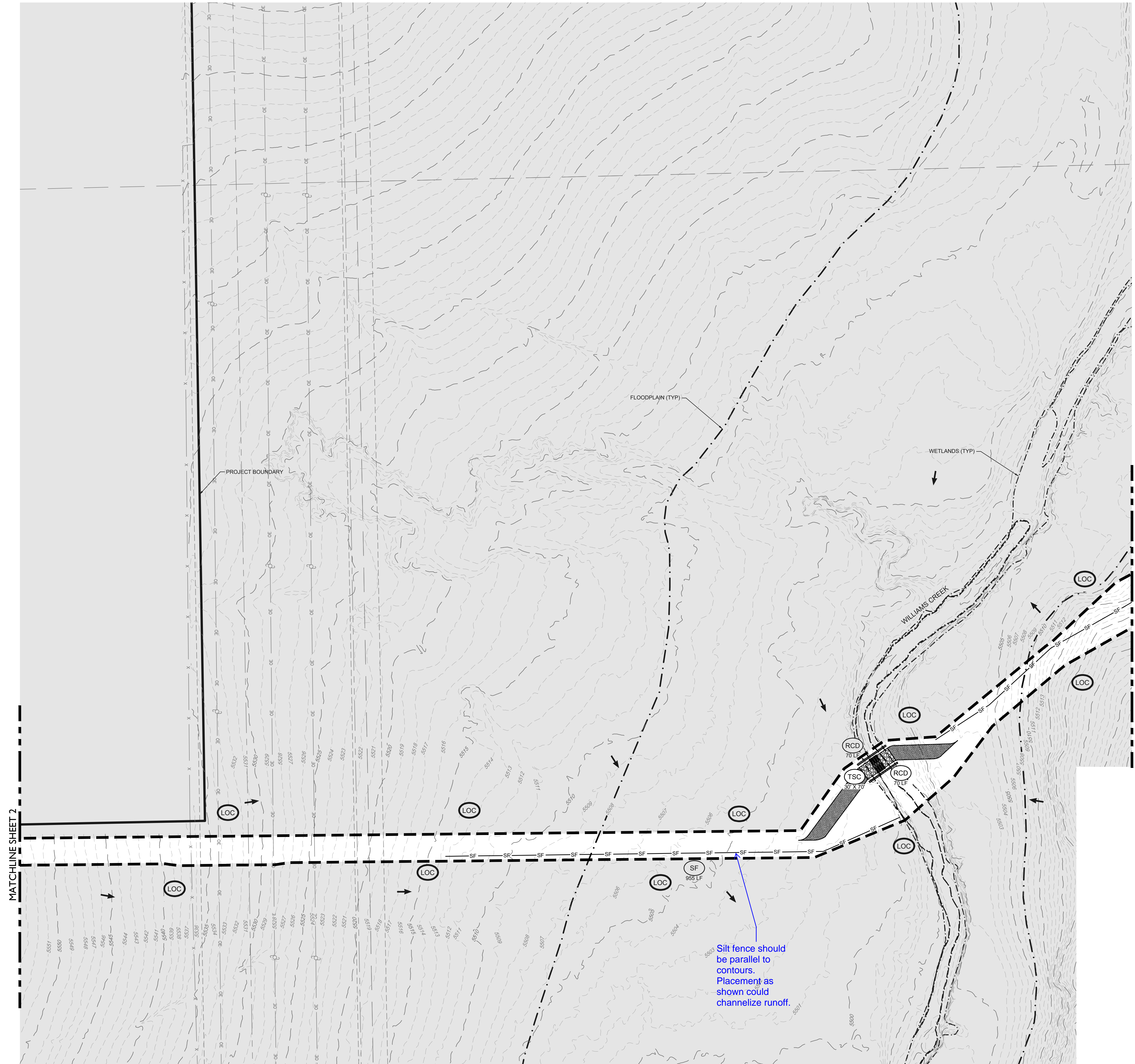
PIKE SOLAR  
EL PASO COUNTY, COLORADO  
GRADING & EROSION CONTROL PLANS  
COVER SHEET

NOT FOR CONSTRUCTION

DESIGNED BY: BB  
DRAWN BY: SD  
CHECKED BY: DB

JOB NO.  
20-194  
SHEET  
1 OF 76

2/25/2021 12:16 PM X:\20-194 PIKE SOLAR\CIVIL\CAD\PLANS\FILING 10653\COVER.DWG



**LEGEND**

— 5280 —	PROPOSED MAJOR CONTOUR
— 5279 —	PROPOSED MINOR CONTOUR
- - - 5280 - - -	EXISTING MAJOR CONTOUR
- - - 5279 - - -	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
— [Symbol] —	CHECK DAM
— [Symbol] —	COMPACTED EARTHEN BERM
— [Symbol] —	CONSTRUCTION FENCE
— [Symbol] —	CONSTRUCTION MARKER
[Symbol]	CONCRETE WASHOUT AREA
[Symbol]	EROSION CONTROL BLANKET
— [Symbol] —	DIVERSION DITCH
[Symbol]	INLET PROTECTION
— [Symbol] —	LIMITS OF CONSTRUCTION
[Symbol]	OUTLET PROTECTION
[Symbol]	REINFORCED CHECK DAM
[Symbol]	ROUGH CUT STREET CONTROL
[Symbol]	ROCK SOCK
[Symbol]	SEDIMENT BASIN
[Symbol]	SEDIMENT CONTROL LOG
[Symbol]	SEEDING AND MULCHING
[Symbol]	SILT FENCE
[Symbol]	STOCK PILE
[Symbol]	STABILIZED STAGING AREA
[Symbol]	SURFACE ROUGHENING
[Symbol]	SEDIMENT TRAP
[Symbol]	TEMPORARY STREAM CROSSING
[Symbol]	VEHICLE TRACKING CONTROL

**NOTES:**  
 1. SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES.  
 2. SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.

**CORE CONSULTANTS, INC.**  
 3473 S. BROADWAY  
 ENGLEWOOD, CO 80113  
 303.703.8800  
 LIVE@CORE.COM

**CORE**

**811**  
 Know what's below.  
 Call before you dig.

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB

**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 INITIAL (2 OF 24)

**NOT FOR CONSTRUCTION**

DESIGNED BY: BB  
 DRAWN BY: SD  
 CHECKED BY: DB

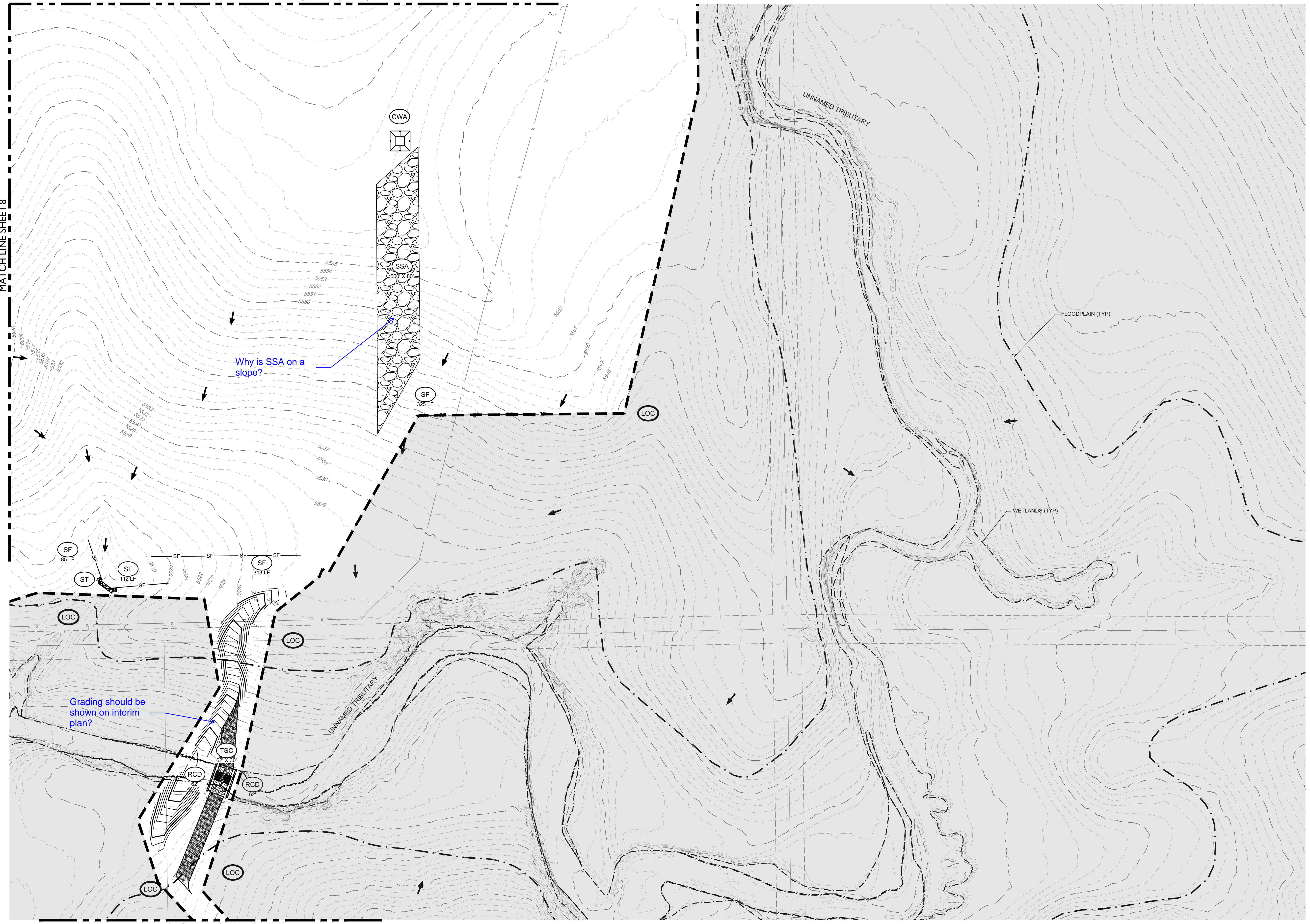
JOB NO. 20-194  
 SHEET 3 OF 76

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MATCH LINE SHEET 8

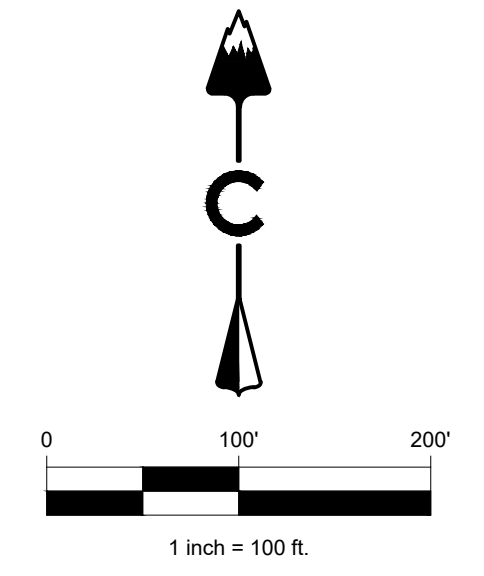
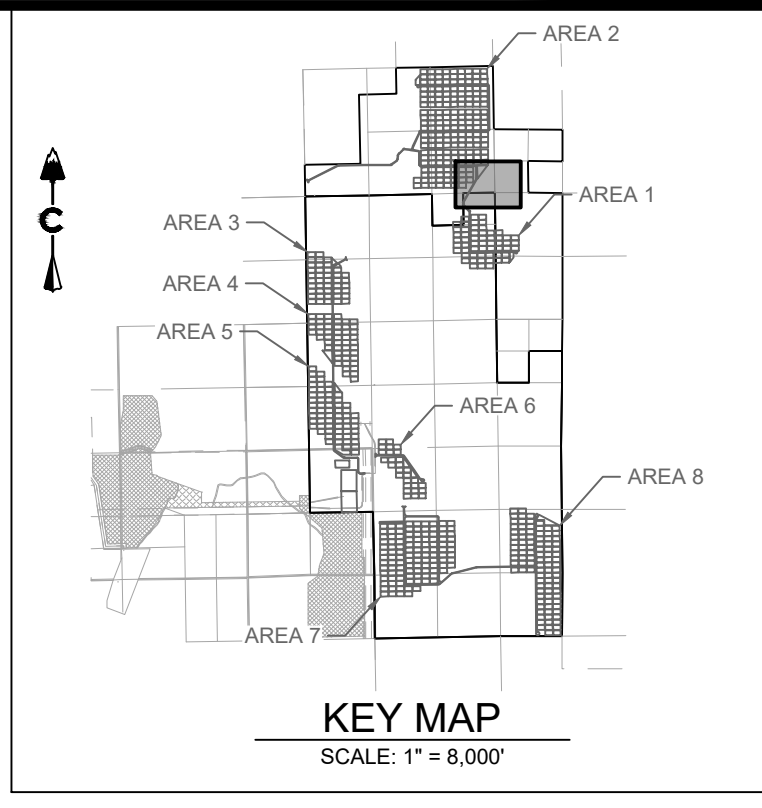
MATCH LINE SHEET 7

MATCH LINE SHEET 10



Grading should be shown on interim plan?

Why is SSA on a slope?



LEGEND

- 5280 PROPOSED MAJOR CONTOUR
- 5279 PROPOSED MINOR CONTOUR
- 5280 EXISTING MAJOR CONTOUR
- 5279 EXISTING MINOR CONTOUR
- PHASE BOUNDARY
- CD CHECK DAM
- CEB COMPACTED EARTHEN BERM
- CF CONSTRUCTION FENCE
- CM CONSTRUCTION MARKER
- CWA CONCRETE WASHOUT AREA
- ECB EROSION CONTROL BLANKET
- DD DIVERSION DITCH
- IP INLET PROTECTION
- LOC LIMITS OF CONSTRUCTION
- OP OUTLET PROTECTION
- RCD REINFORCED CHECK DAM
- RCS ROUGH CUT STREET CONTROL
- RS ROCK SOCK
- SB SEDIMENT BASIN
- SCL SEDIMENT CONTROL LOG
- SM SEEDING AND MULCHING
- SF SILT FENCE
- SP STOCK PILE
- SSA STABILIZED STAGING AREA
- SR SURFACE ROUGHENING
- ST SEDIMENT TRAP
- TSC TEMPORARY STREAM CROSSING
- VTC VEHICLE TRACKING CONTROL

NOTES:

1. SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES
2. SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB

**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 INITIAL (8 OF 24)

NOT FOR CONSTRUCTION

DESIGNED BY: BB  
 DRAWN BY: SD  
 CHECKED BY: DB

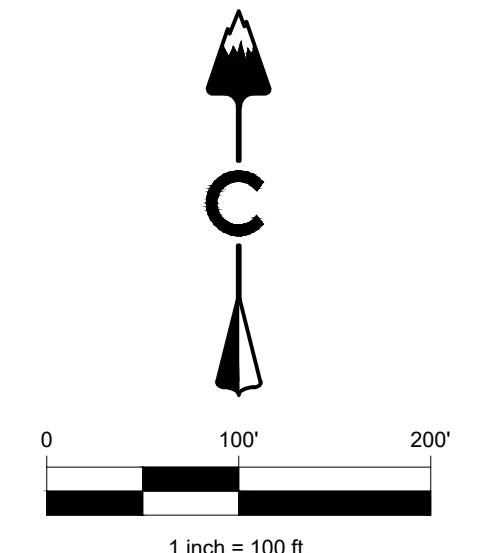
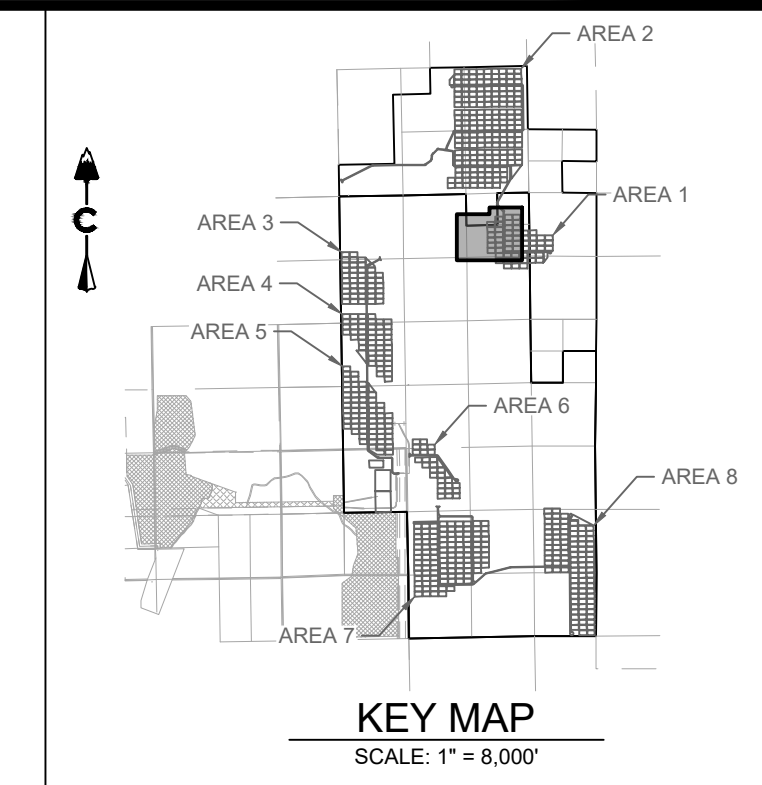
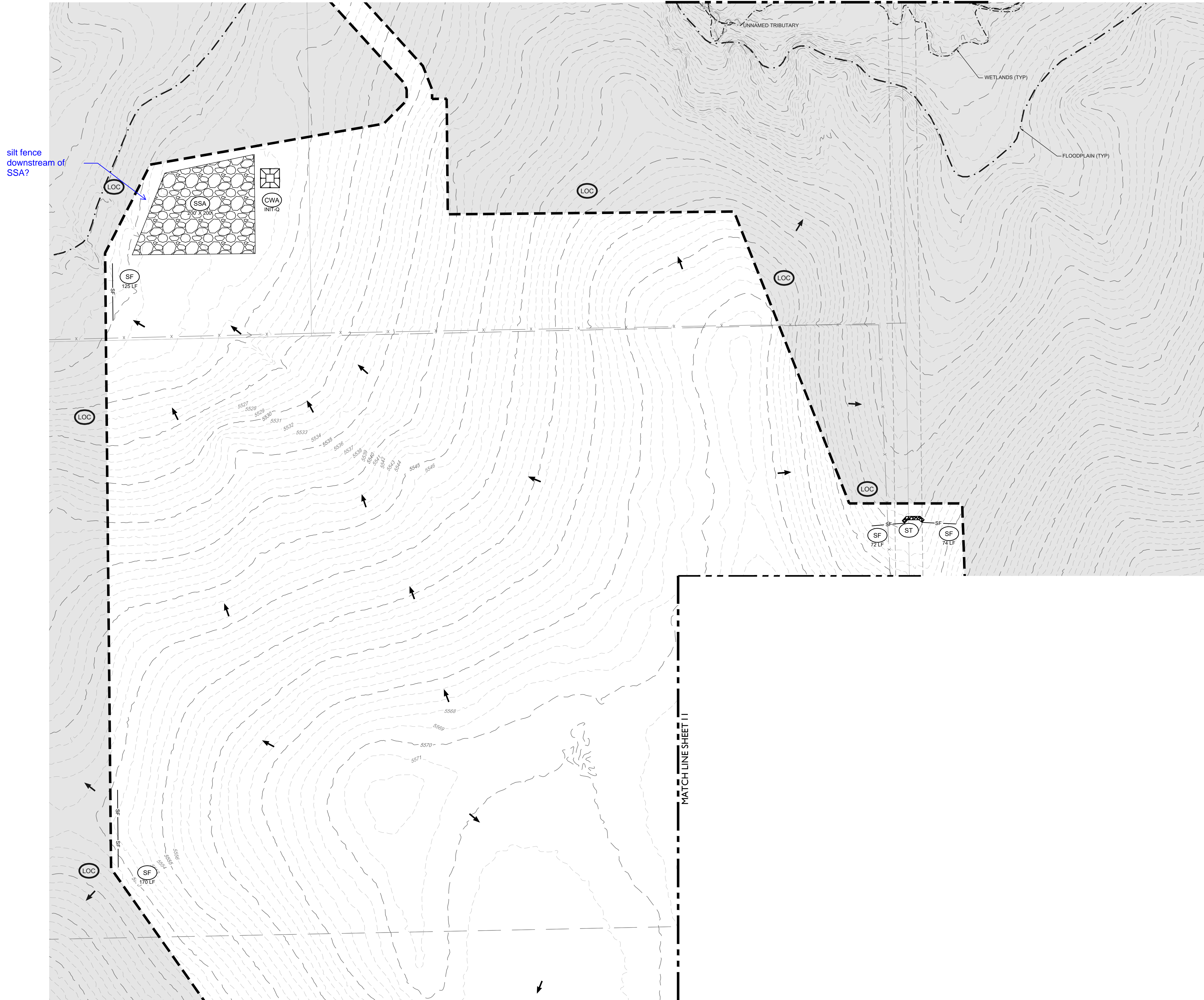
JOB NO.  
 20-194  
 SHEET  
 9 OF 76

**CORE**



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LAND DEVELOPMENT  
 ENERGY  
 PUBLIC INFRASTRUCTURE

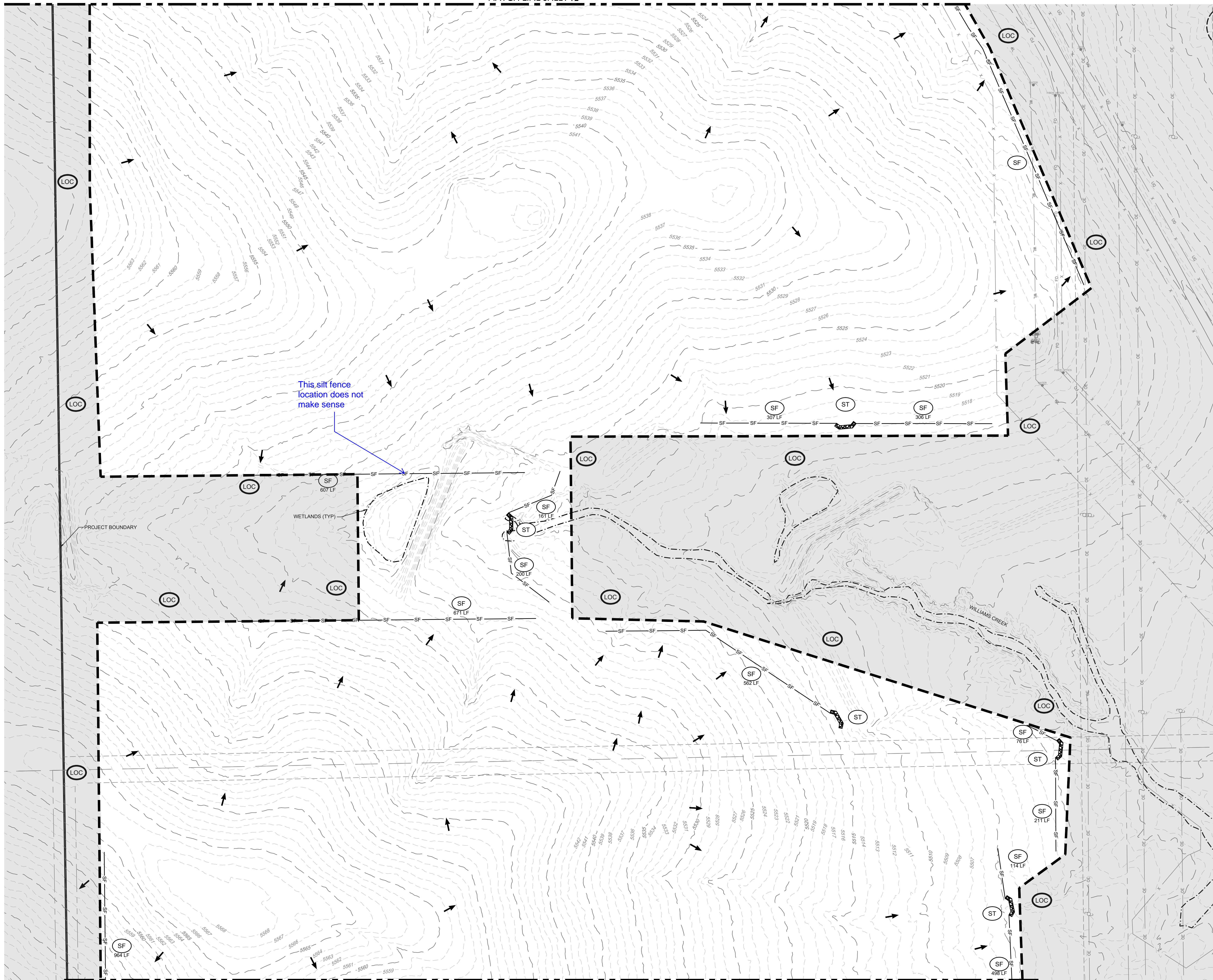


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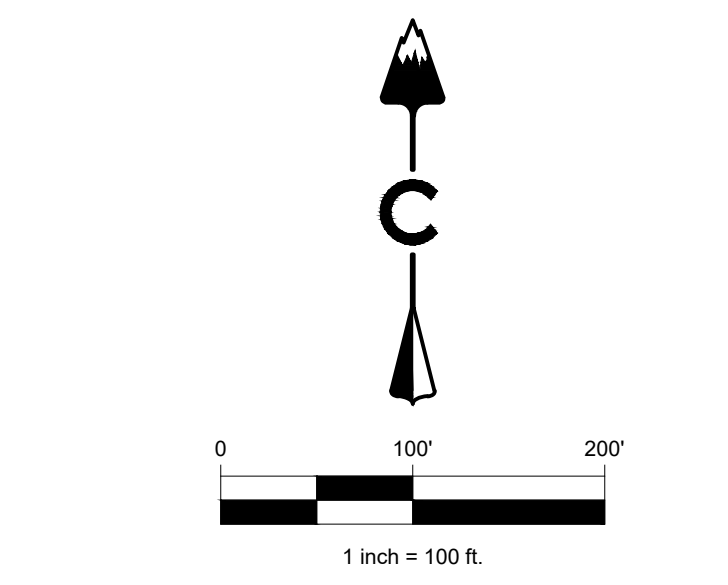
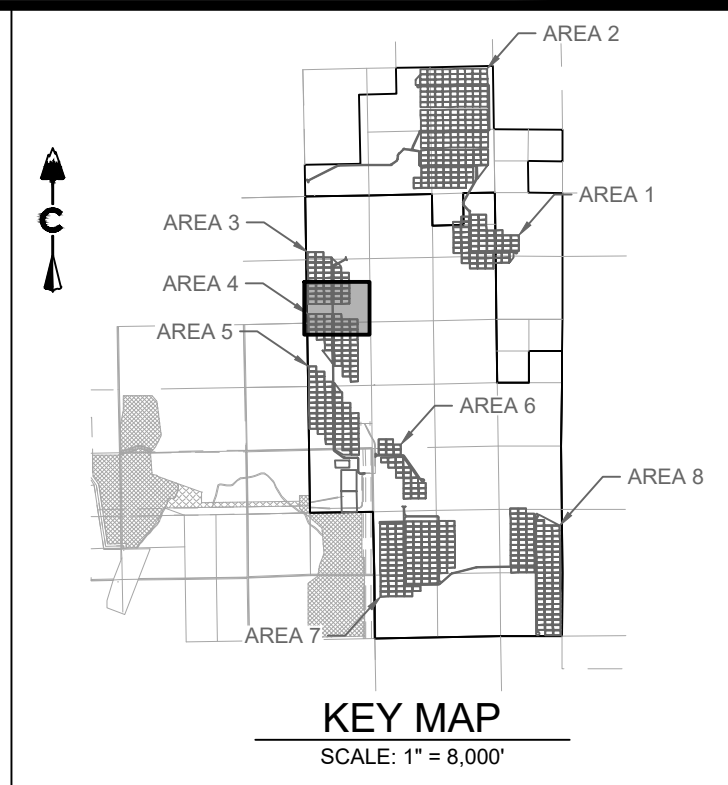
— 5280 —	PROPOSED MAJOR CONTOUR
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— OP —	OUTLET PROTECTION
— RCD —	REINFORCED CHECK DAM
— RCS —	ROUGH CUT STREET CONTROL
— RS —	ROCK SOCK
— SB —	SEDIMENT BASIN
— SCL —	SEDIMENT CONTROL LOG
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— ST —	SEDIMENT TRAP
— TSC —	TEMPORARY STREAM CROSSING
— VTC —	VEHICLE TRACKING CONTROL

**NOTES:**  
 1. SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES.  
 2. SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.

	<p><b>PIKE SOLAR</b>                  EL PASO COUNTY, COLORADO                  GRADING &amp; EROSION CONTROL PLANS                  INITIAL (9 OF 24)</p>
CORE CONSULTANTS, INC. 3473 S. BROADWAY ENGLEWOOD, CO 80113 303.763.8300 <a href="http://WWW.CORE.COM">WWW.CORE.COM</a>	LAND DEVELOPMENT ENERGY PUBLIC INFRASTRUCTURE
# REVISION DESCRIPTION 1 1ST SUBMITTAL	DATE BY 02/25/21 DB
NOT FOR CONSTRUCTION	
DESIGNED BY: BB DRAWN BY: SD CHECKED BY: DB	JOB NO. 20-194 SHEET 10 OF 76



This silt fence location does not make sense



**LEGEND**

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
▬▬▬▬▬▬	CHECK DAM
OO	COMPACTED EARTHEN BERM
CF	CONSTRUCTION FENCE
□	CONSTRUCTION MARKER
⊠	CONCRETE WASHOUT AREA
⊞	EROSION CONTROL BLANKET
- x -	DIVERSION DITCH
▬▬▬▬▬▬	INLET PROTECTION
▬▬▬▬▬▬	LIMITS OF CONSTRUCTION
OP	OUTLET PROTECTION
RCD	REINFORCED CHECK DAM
RCS	ROUGH CUT STREET CONTROL
RS	ROCK SOCK
SB	SEDIMENT BASIN
SCL	SEDIMENT CONTROL LOG
SM	SEEDING AND MULCHING
SF	SILT FENCE
SP	STOCK PILE
SSA	STABILIZED STAGING AREA
SR	SURFACE ROUGHENING
ST	SEDIMENT TRAP
TSC	TEMPORARY STREAM CROSSING
VTC	VEHICLE TRACKING CONTROL

**NOTES:**  
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 2. SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.

2/26/2021 1:25 PM X:\20-194 PIKE SOLAR\CIVIL\LAND PLANNING\IGES\GEC PLAN\2 - INITIAL.DWG

**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 INITIAL (12 OF 24)

**NOT FOR CONSTRUCTION**

DESIGNED BY:	BB
DRAWN BY:	SD
CHECKED BY:	DB
JOB NO.	20-194
SHEET	13 OF 76

# REVISION DESCRIPTION  
 1 1ST SUBMITTAL

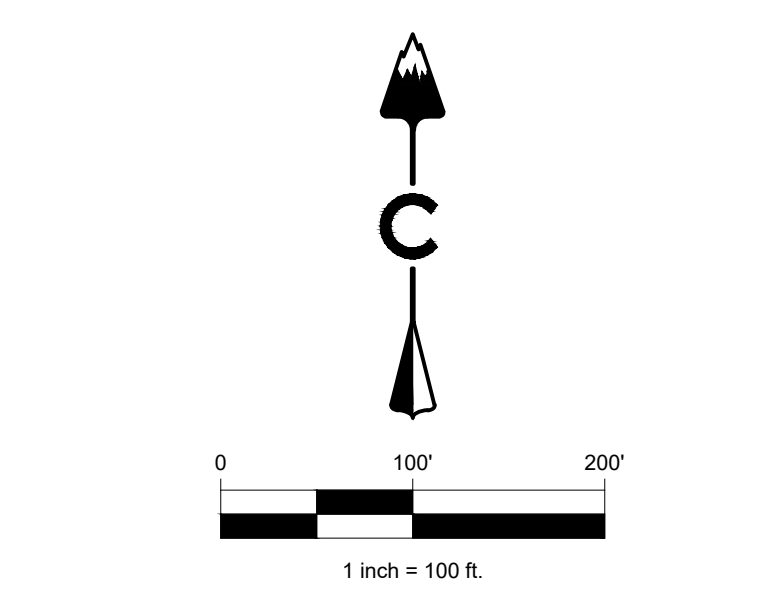
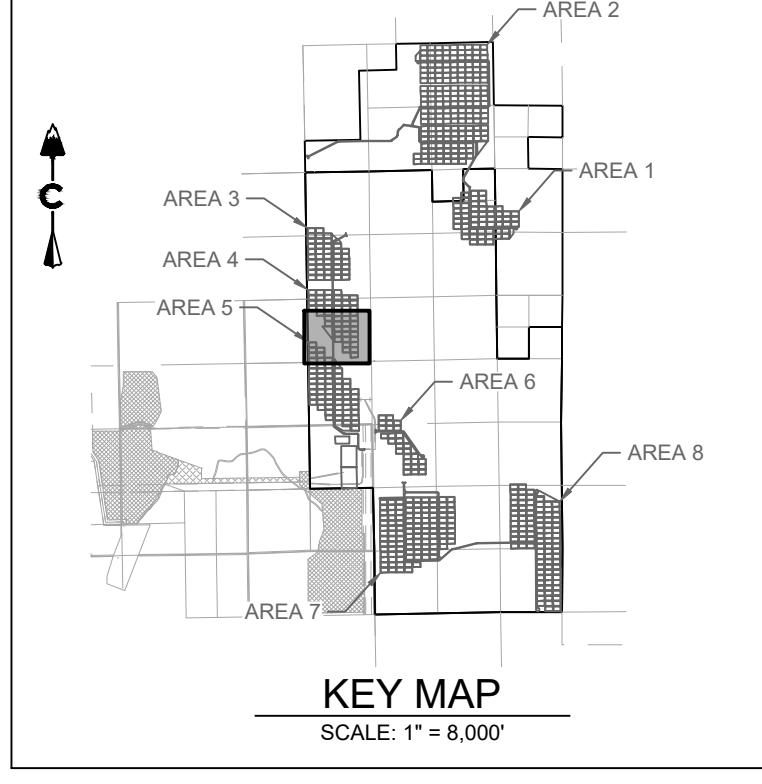
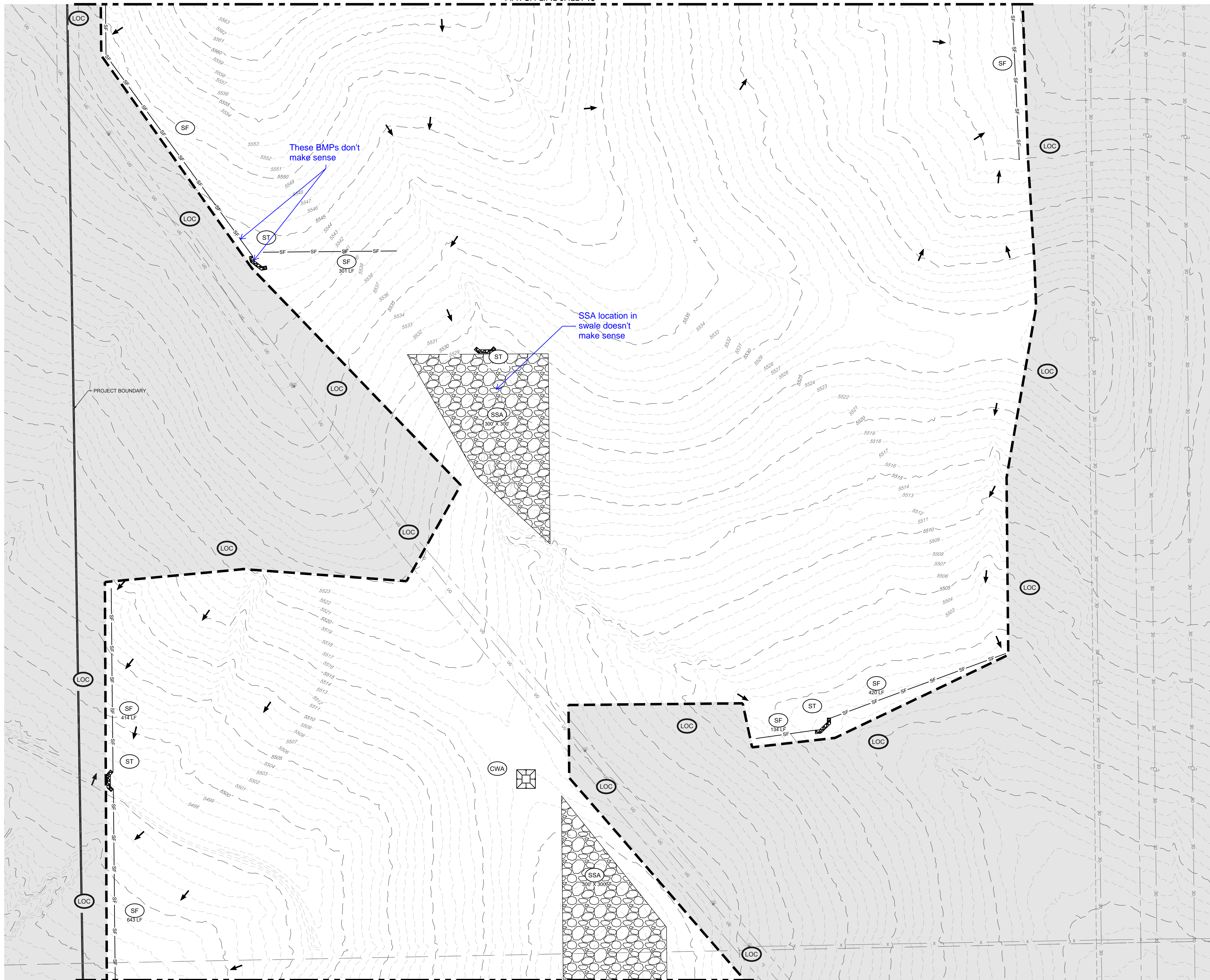
DATE BY  
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**LEGEND**

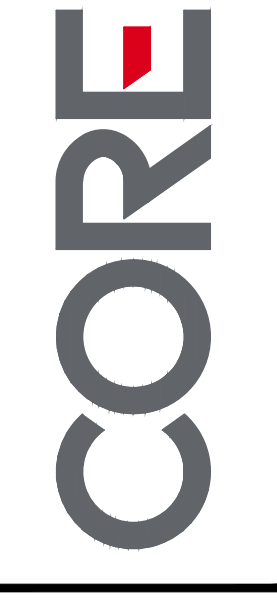
5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
[Symbol]	CHECK DAM
[Symbol]	COMPACTED EARTHEN BERM
[Symbol]	CONSTRUCTION FENCE
[Symbol]	CONSTRUCTION MARKER
[Symbol]	CONCRETE WASHOUT AREA
[Symbol]	EROSION CONTROL BLANKET
[Symbol]	DIVERSION DITCH
[Symbol]	INLET PROTECTION
[Symbol]	LIMITS OF CONSTRUCTION
[Symbol]	OUTLET PROTECTION
[Symbol]	REINFORCED CHECK DAM
[Symbol]	ROUGH CUT STREET CONTROL
[Symbol]	ROCK SOCK
[Symbol]	SEDIMENT BASIN
[Symbol]	SEDIMENT CONTROL LOG
[Symbol]	SEEDING AND MULCHING
[Symbol]	SILT FENCE
[Symbol]	STOCK PILE
[Symbol]	STABILIZED STAGING AREA
[Symbol]	SURFACE ROUGHENING
[Symbol]	SEDIMENT TRAP
[Symbol]	TEMPORARY STREAM CROSSING
[Symbol]	VEHICLE TRACKING CONTROL

**NOTES:**

- SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES.
- SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.

2/26/2021 1:25 PM X:\20-194 PIKE SOLAR\CIVIL\LAND\PLANNING\IGES\IGES.GCS\PLAN2 - INITIAL.DWG

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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB

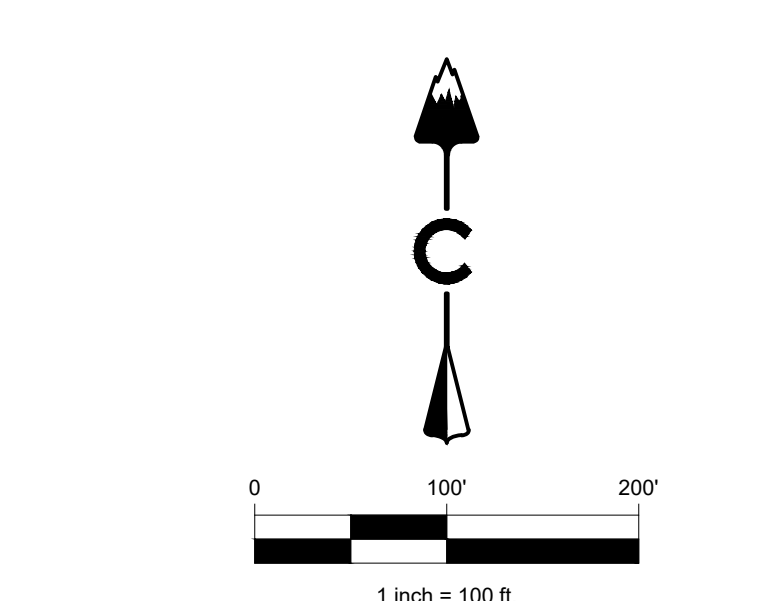
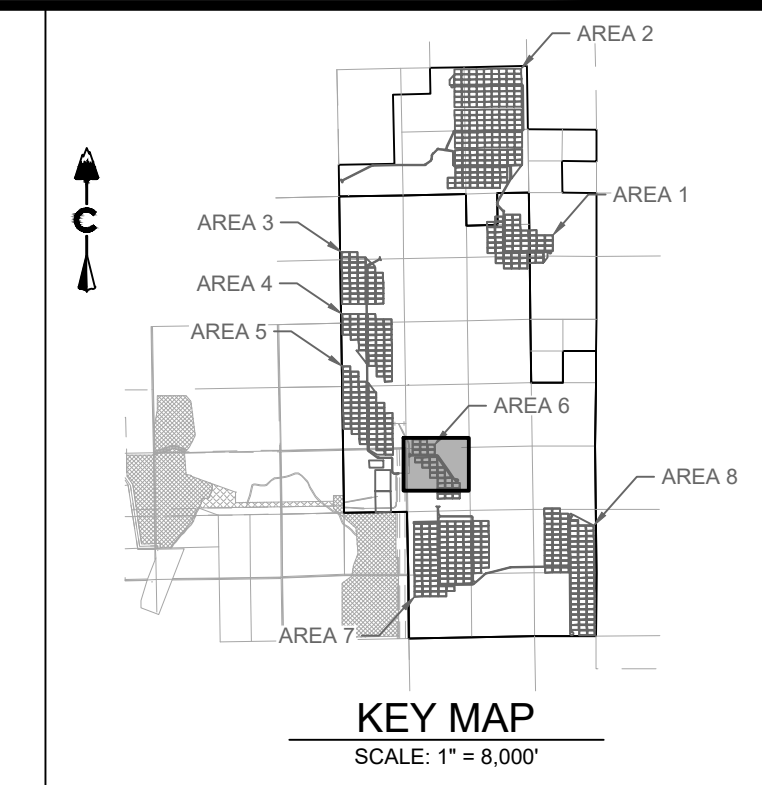
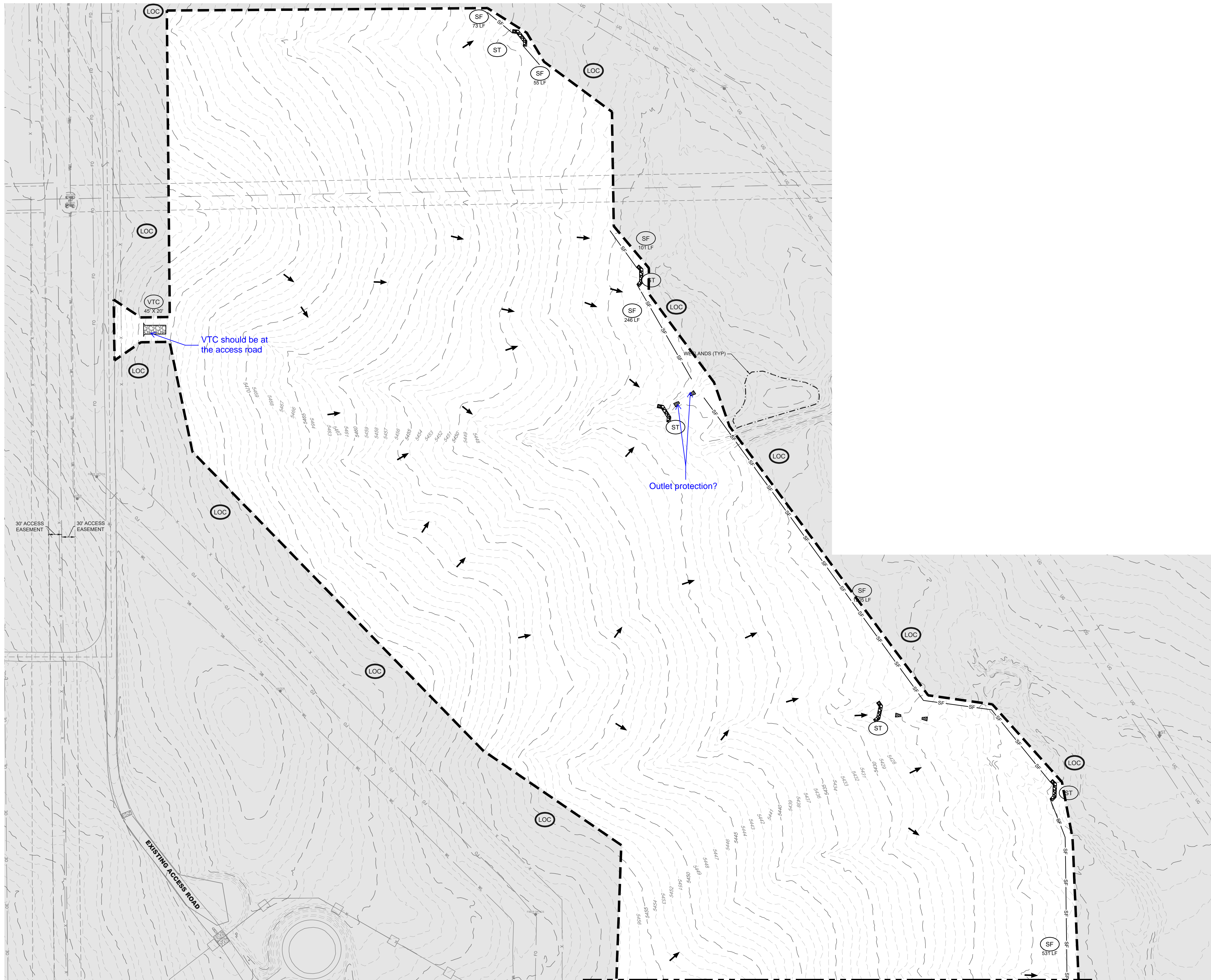
**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 INITIAL (13 OF 24)

DESIGNED BY: BB  
 DRAWN BY: SD  
 CHECKED BY: DB

JOB NO.  
 20-194

SHEET  
 14 OF 76

NOT FOR CONSTRUCTION



**LEGEND**

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
[Symbol]	CD CHECK DAM
[Symbol]	CEB COMPACTED EARTHEN BERM
[Symbol]	CF CONSTRUCTION FENCE
[Symbol]	CM CONSTRUCTION MARKER
[Symbol]	CWA CONCRETE WASHOUT AREA
[Symbol]	ECB EROSION CONTROL BLANKET
[Symbol]	DD DIVERSION DITCH
[Symbol]	IP INLET PROTECTION
[Symbol]	LOC LIMITS OF CONSTRUCTION
[Symbol]	OP OUTLET PROTECTION
[Symbol]	RCD REINFORCED CHECK DAM
[Symbol]	RCS ROUGH CUT STREET CONTROL
[Symbol]	RS ROCK SOCK
[Symbol]	SB SEDIMENT BASIN
[Symbol]	SCL SEDIMENT CONTROL LOG
[Symbol]	SM SEEDING AND MULCHING
[Symbol]	SF SILT FENCE
[Symbol]	SP STOCK PILE
[Symbol]	SSA STABILIZED STAGING AREA
[Symbol]	SR SURFACE ROUGHENING
[Symbol]	ST SEDIMENT TRAP
[Symbol]	TSC TEMPORARY STREAM CROSSING
[Symbol]	VTC VEHICLE TRACKING CONTROL

**NOTES:**  
 1. SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES.  
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**POD 6 EARTHWORK**  
 CUT: 3,778 CY  
 FILL: 3,837 CY  
 TOTAL: 59 CY (FILL)

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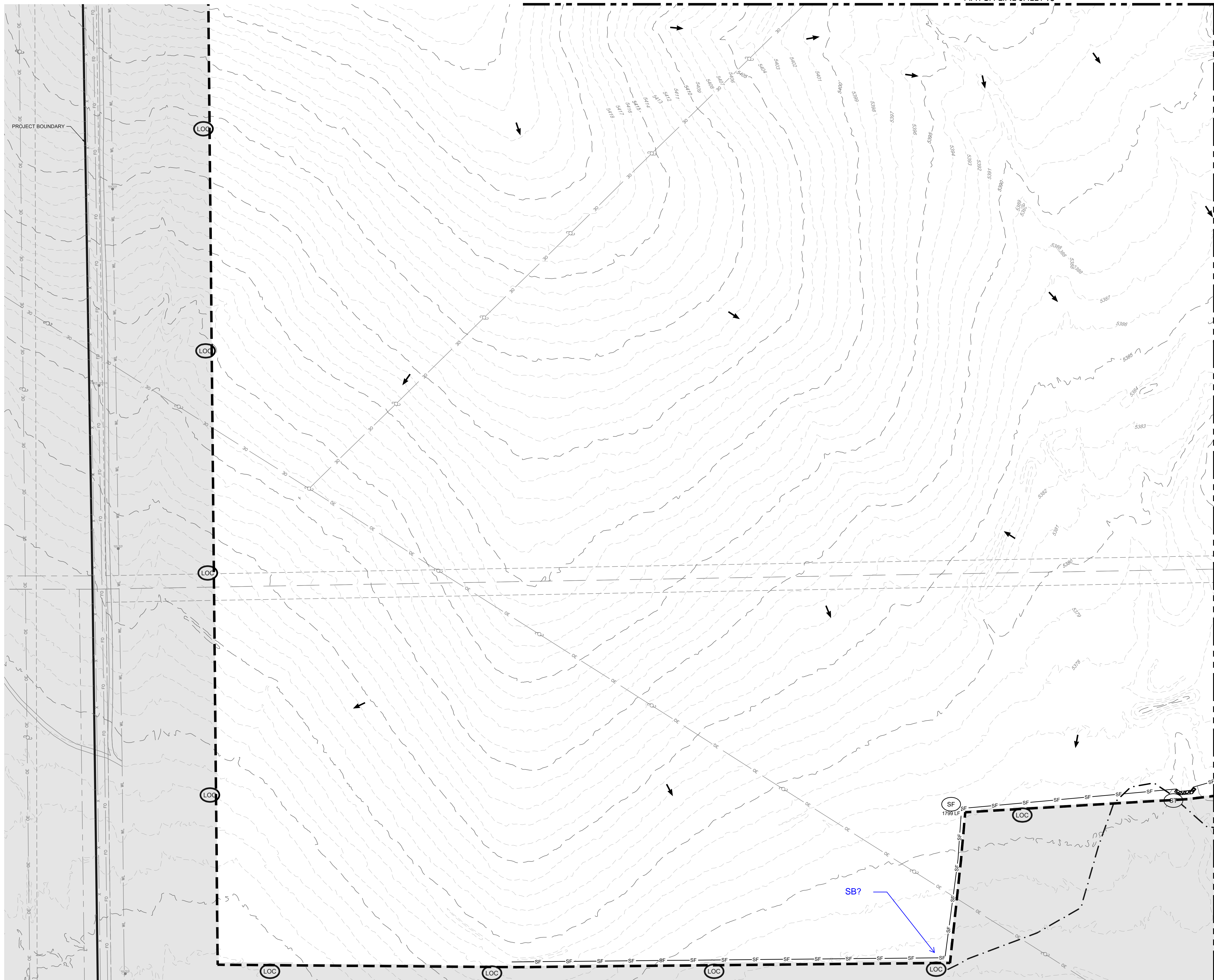
**PIKE SOLAR**  
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 GRADING & EROSION CONTROL PLANS  
 INITIAL (16 OF 24)

DESIGNED BY: BB  
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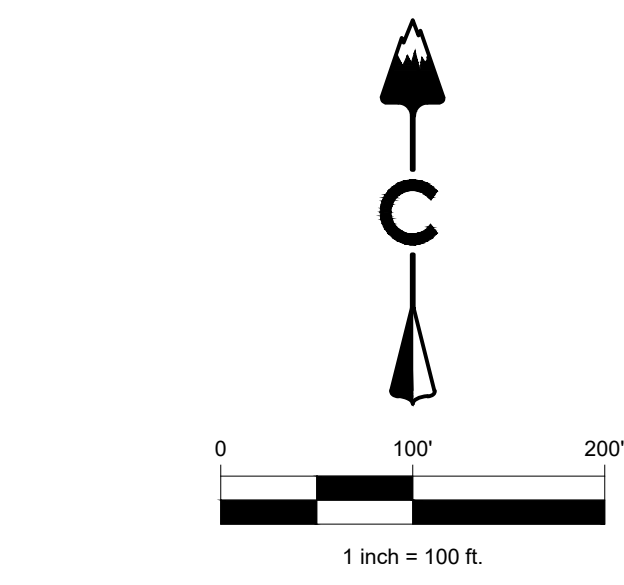
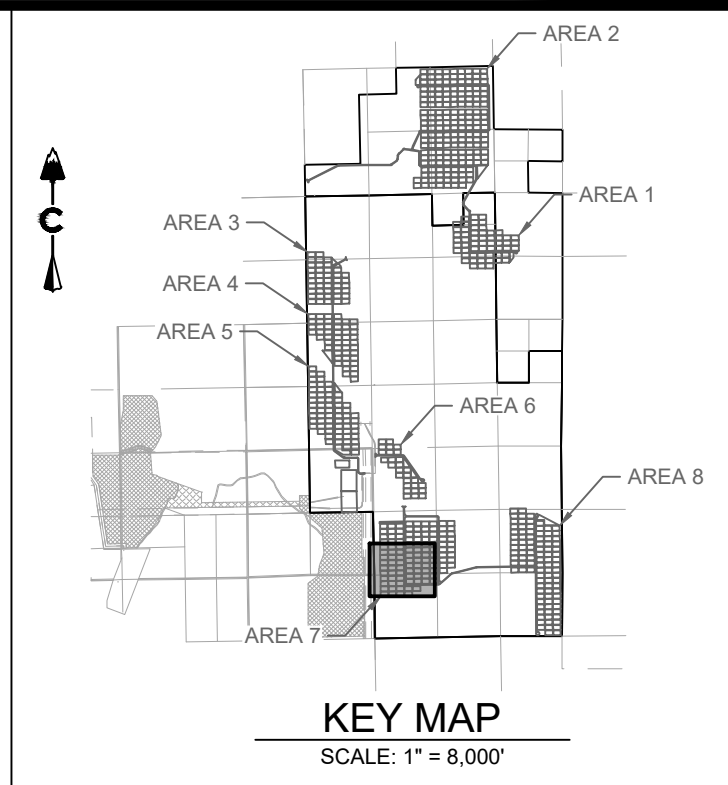
JOB NO.  
20-194

SHEET  
17 OF 76



MATCH LINE SHEET 18

MATCH LINE SHEET 21



**LEGEND**

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		PHASE BOUNDARY
	CD	CHECK DAM
	CEB	COMPACTED EARTHEN BERM
	CF	CONSTRUCTION FENCE
	CM	CONSTRUCTION MARKER
	CWA	CONCRETE WASHOUT AREA
	ECB	EROSION CONTROL BLANKET
	DD	DIVERSION DITCH
	IP	INLET PROTECTION
	LOC	LIMITS OF CONSTRUCTION
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	SSA	STABILIZED STAGING AREA
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	ST	SEDIMENT TRAP
	TSC	TEMPORARY STREAM CROSSING
	VTC	VEHICLE TRACKING CONTROL

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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB

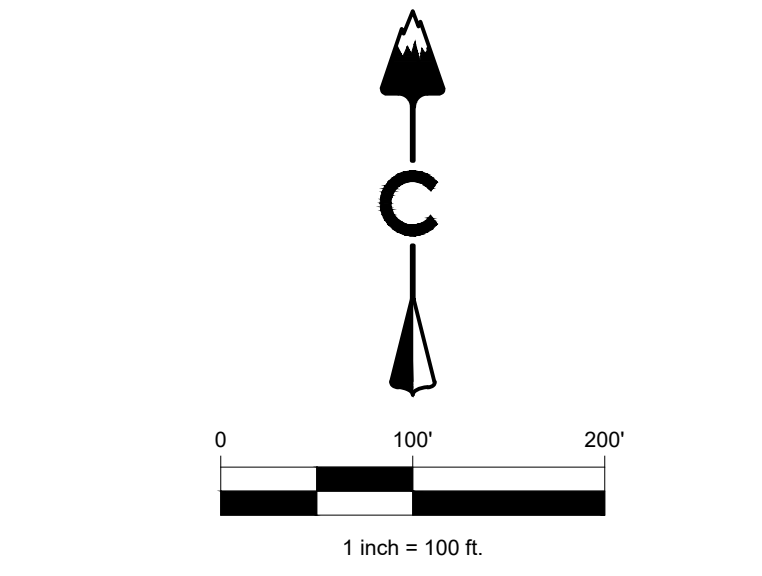
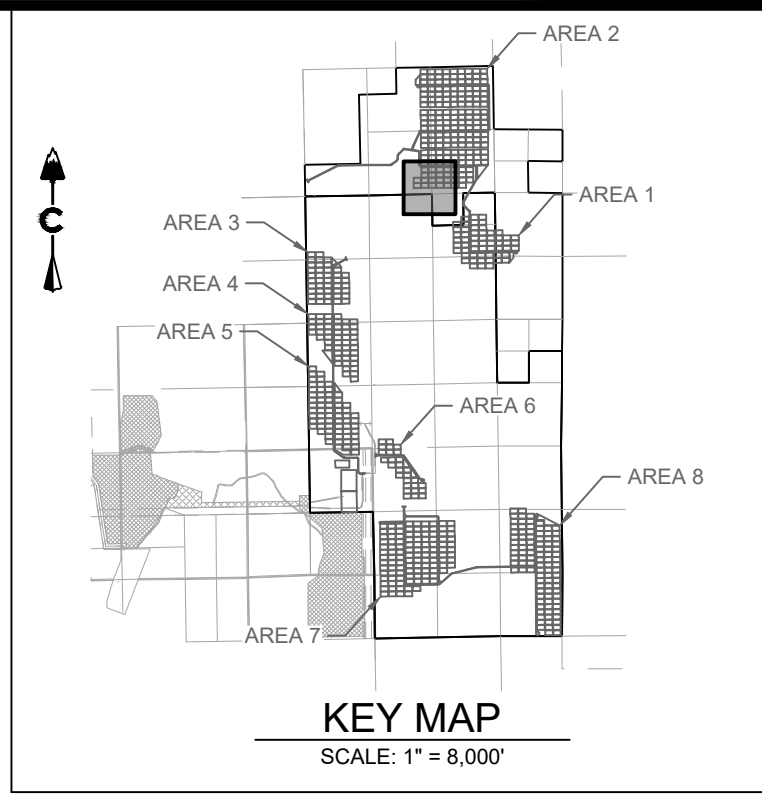
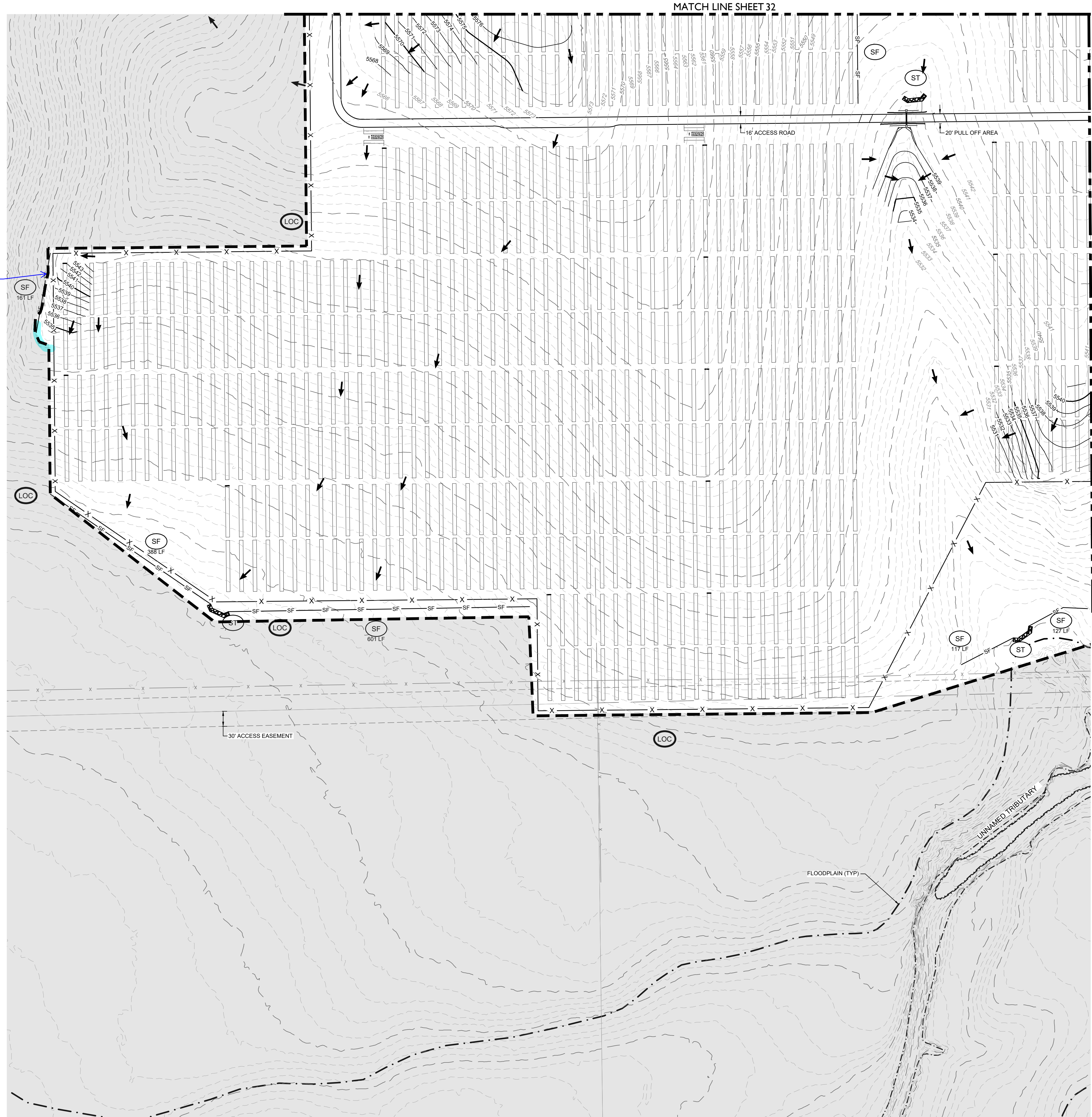
**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 INITIAL (19 OF 24)

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DESIGNED BY:	BB
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JOB NO.  
20-194  
 SHEET  
20 OF 76





**LEGEND**

— 5280 —	PROPOSED MAJOR CONTOUR
— 5279 —	PROPOSED MINOR CONTOUR
- - - 5280 - - -	EXISTING MAJOR CONTOUR
- - - 5279 - - -	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
— CD —	CHECK DAM
— CEB —	COMPACTED EARTHEN BERM
— CF —	CONSTRUCTION FENCE
— CM —	CONSTRUCTION MARKER
— CWA —	CONCRETE WASHOUT AREA
— ECB —	EROSION CONTROL BLANKET
— DD —	DIVERSION DITCH
— IP —	INLET PROTECTION
— LOC —	LIMITS OF CONSTRUCTION
— OP —	OUTLET PROTECTION
— RCD —	REINFORCED CHECK DAM
— RCS —	ROUGH CUT STREET CONTROL
— RS —	ROCK SOCK
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— SP —	STOCK PILE
— SSA —	STABILIZED STAGING AREA
— SR —	SURFACE ROUGHENING
— ST —	SEDIMENT TRAP
— TSC —	TEMPORARY STREAM CROSSING
— VTC —	VEHICLE TRACKING CONTROL

- NOTES:**
- SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES
  - SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS. CONTROL MEASURES THAT WERE INSTALLED IN INITIAL STAGE TO BE SHADED AND SHALL BE LEFT IN PLACE IN INTERIM STAGE UNLESS OTHERWISE NOTED.
  - ALL INTERIM EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DRILL SEEDING AND CRIMP MULCHING OF DISTURBED AREAS MUST BE INSTALLED, INSPECTED, AND APPROVED BY THE CITY PRIOR TO THE ISSUANCE OF CONSTRUCTION PERMITS.
  - SOIL COMPACTION WILL BE MINIMIZED IN AREAS THAT WILL BE REVEGETATED AT THE END OF CONSTRUCTION UNLESS INFEASIBLE. SOIL WILL BE SCARIFIED TO REMOVE EFFECTS OF COMPACTION TO THE EXTENT PRACTICABLE BEFORE RESEEDING.
  - SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.

**PIKE SOLAR**  
EL PASO COUNTY, COLORADO  
GRADING & EROSION CONTROL PLANS  
INTERIM (7 OF 24)

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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB

DESIGNED BY: BB  
DRAWN BY: SD  
CHECKED BY: DB

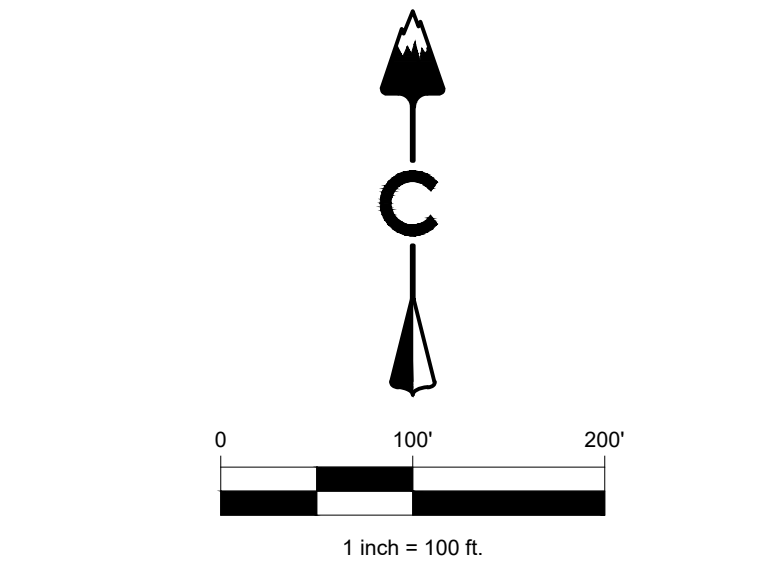
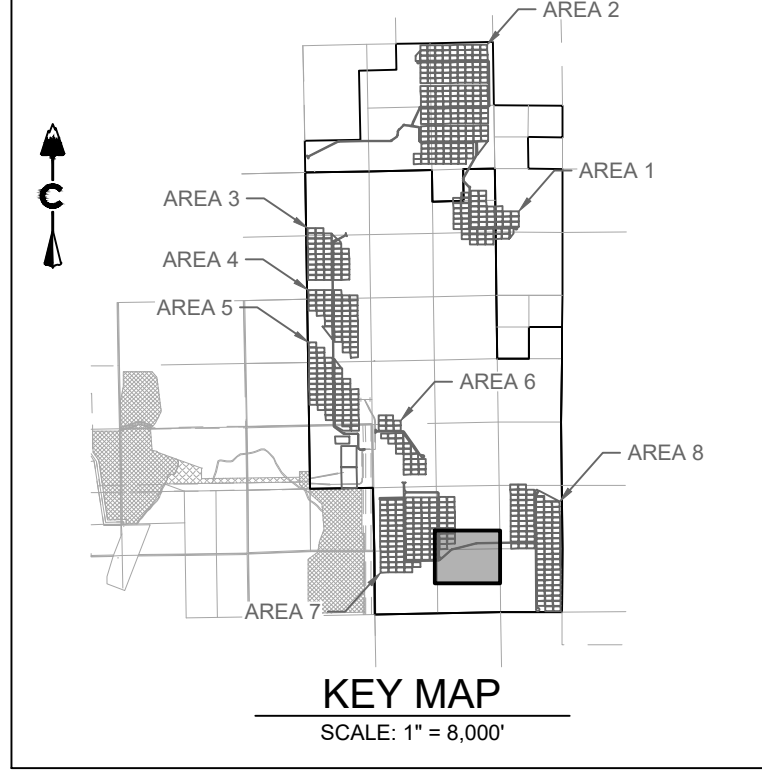
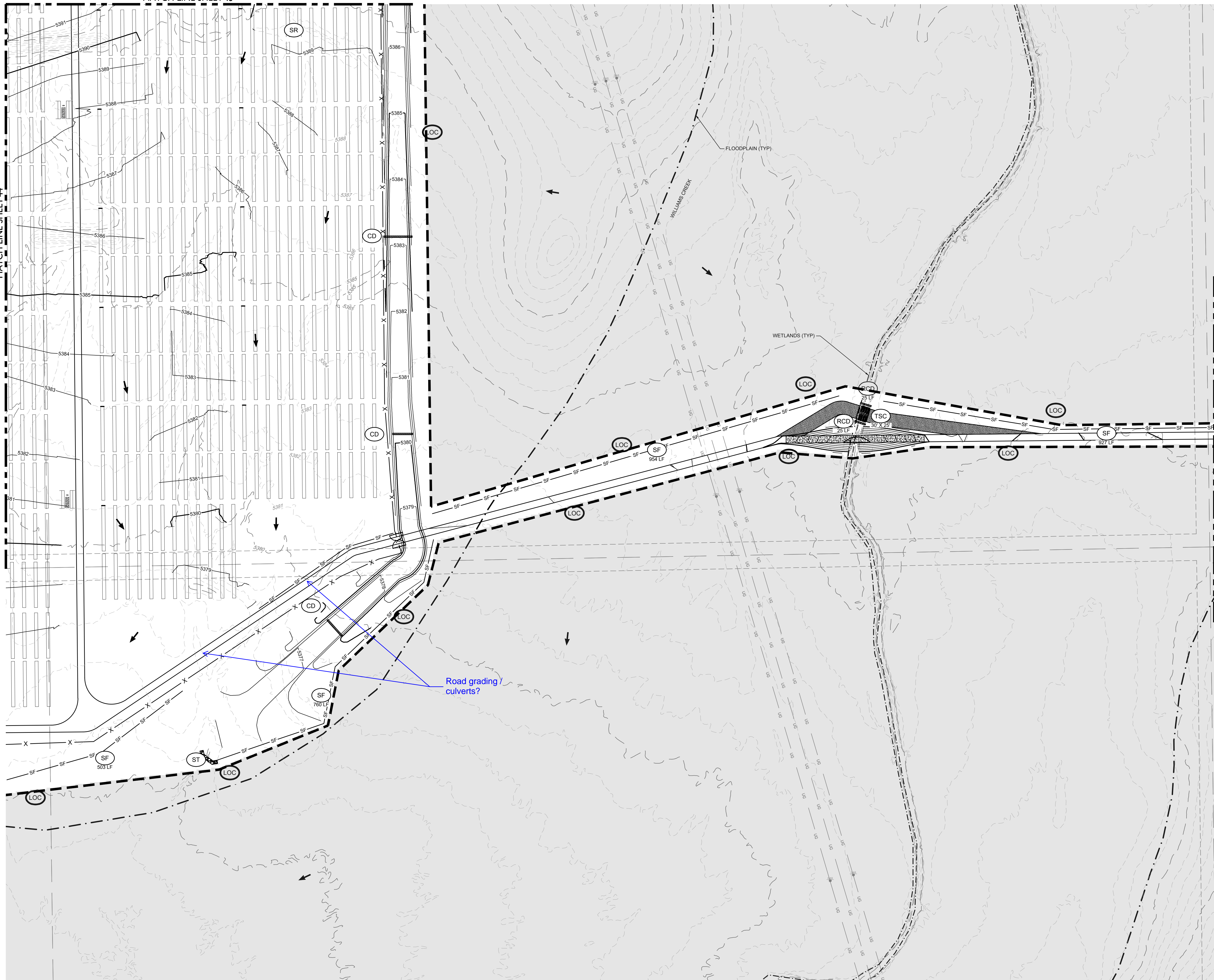
JOB NO.  
20-194  
SHEET  
32 OF 76

NOT FOR CONSTRUCTION

MATCH LINE SHEET 44

MATCH LINE SHEET 43

MATCH LINE SHEET 46

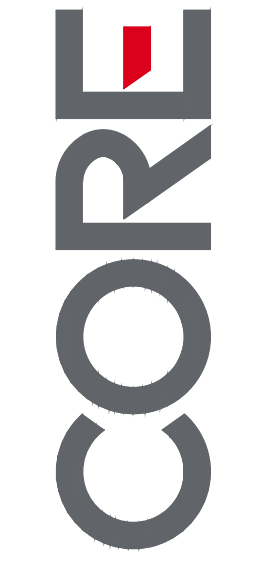


**LEGEND**

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
CD	CHECK DAM
OO	COMPACTED EARTHEN BERM
CF	CONSTRUCTION FENCE
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02/25/21	DB	1ST SUBMITTAL

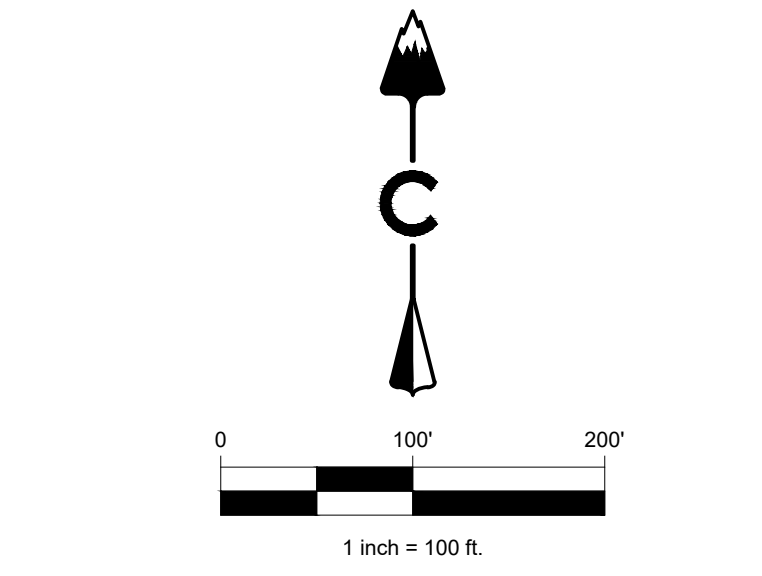
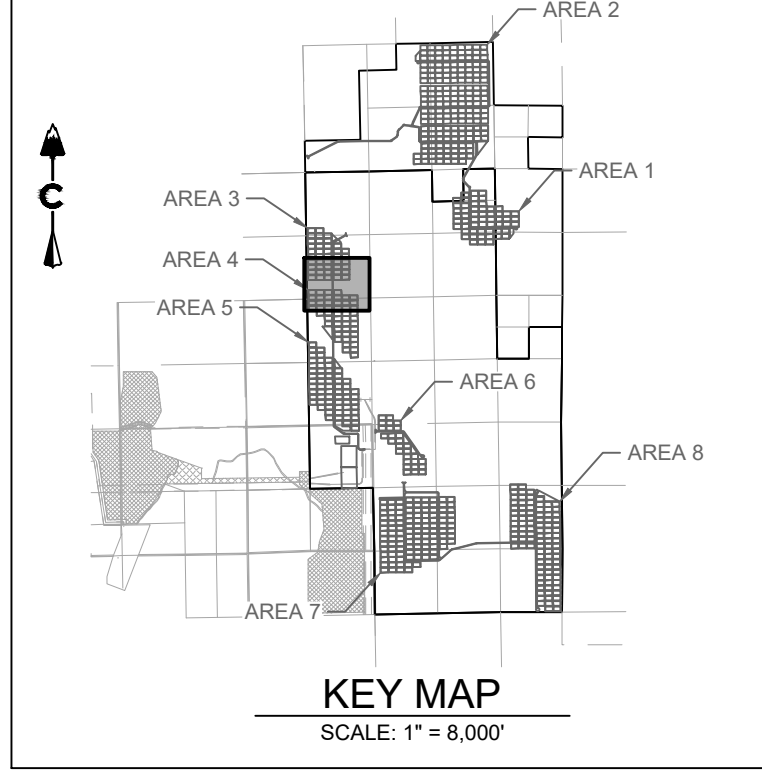
**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 INTERIM (20 OF 24)

NOT FOR CONSTRUCTION

DESIGNED BY: BB  
 DRAWN BY: SD  
 CHECKED BY: DB

JOB NO.  
20-194

SHEET  
45 OF 76



**LEGEND**

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
▬▬▬▬▬▬	CHECK DAM
OO	COMPACTED EARTHEN BERM
CF	CONSTRUCTION FENCE
□	CONSTRUCTION MARKER
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⊞	EROSION CONTROL BLANKET
X	DIVERSION DITCH
▬▬▬▬▬▬	INLET PROTECTION
▬▬▬▬▬▬	LIMITS OF CONSTRUCTION
▬▬▬▬▬▬	OUTLET PROTECTION
▬▬▬▬▬▬	REINFORCED CHECK DAM
▬▬▬▬▬▬	ROUGH CUT STREET CONTROL
▬▬▬▬▬▬	ROCK SOCK
▬▬▬▬▬▬	SEDIMENT BASIN
▬▬▬▬▬▬	SEDIMENT CONTROL LOG
▬▬▬▬▬▬	SEEDING AND MULCHING
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- NOTES:**
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  - SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.

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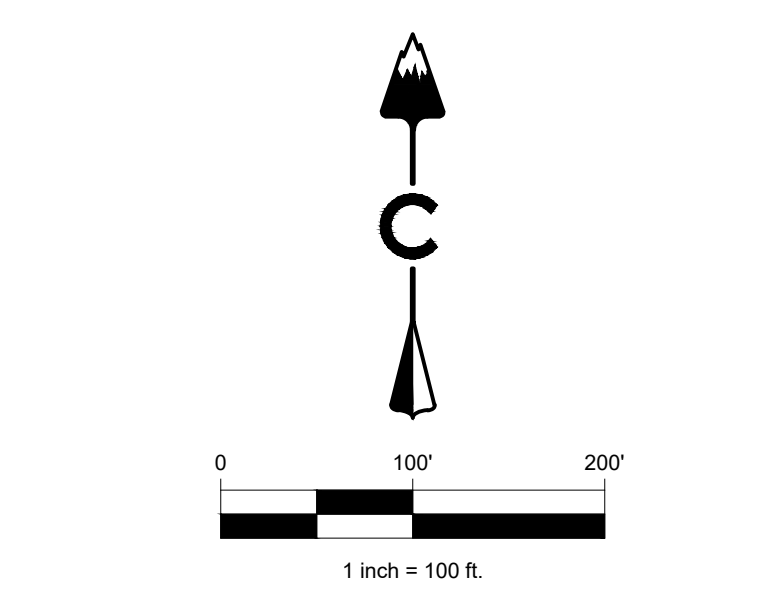
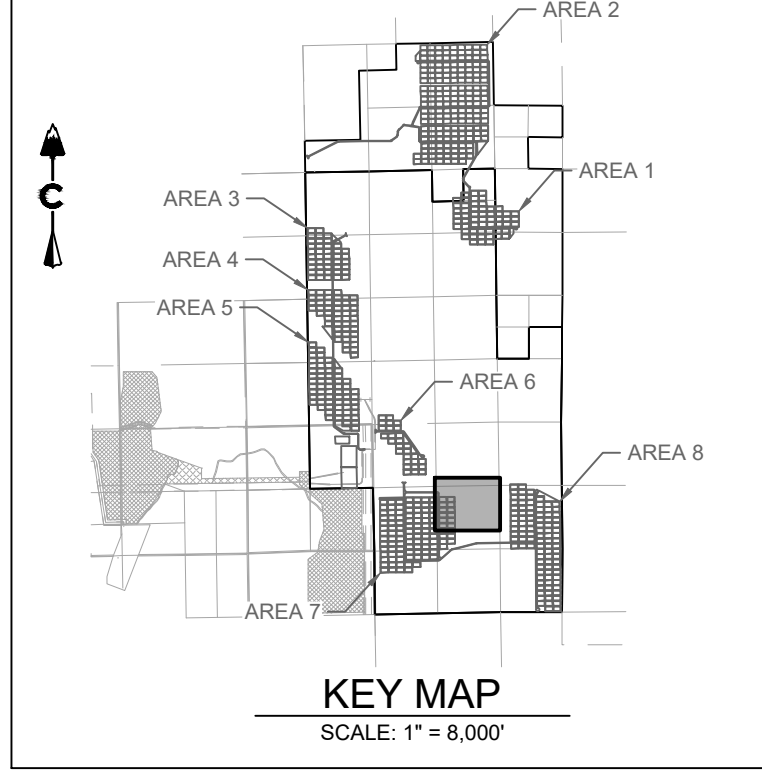
**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 FINAL (12 OF 24)

NOT FOR CONSTRUCTION

DESIGNED BY: BB  
 DRAWN BY: SD  
 CHECKED BY: DB  
 JOB NO. 20-194  
 SHEET 61 OF 76

2/25/2021 2:01 PM X:\20-194 PIKE SOLAR\CIVIL\CDR\PLANS\ILING IGES\IGES\CDR\PLANS\FINAL.DWG

2/26/2021 2:08 PM X:\20-194 PIKE SOLAR\DEVELOPMENT\LAND\PLANNING\IGES\IGESDC PLAN2-FINAL.DWG

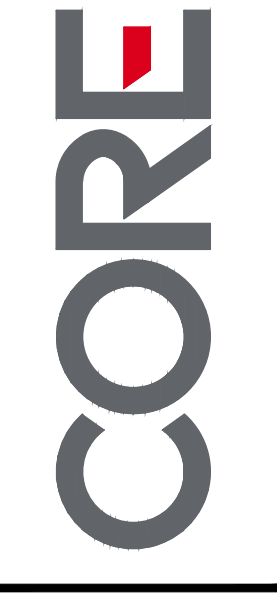


**LEGEND**

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
---	PHASE BOUNDARY
CD	CHECK DAM
OO	COMPACTED EARTHEN BERM
CF	CONSTRUCTION FENCE
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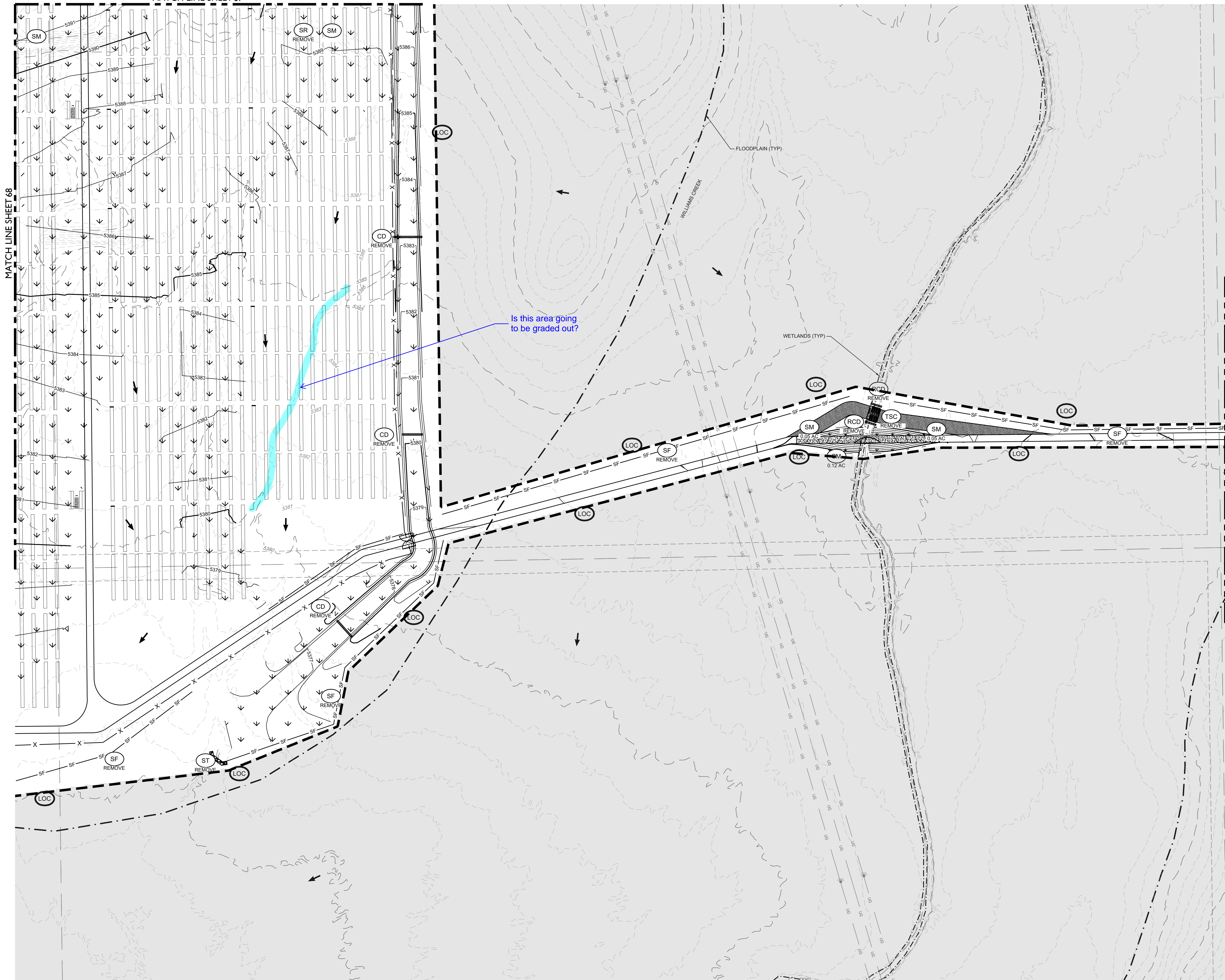
#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB

**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 FINAL (18 OF 24)

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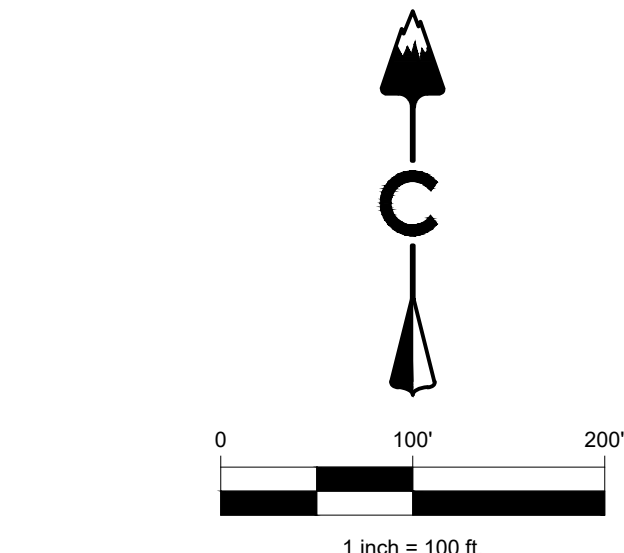
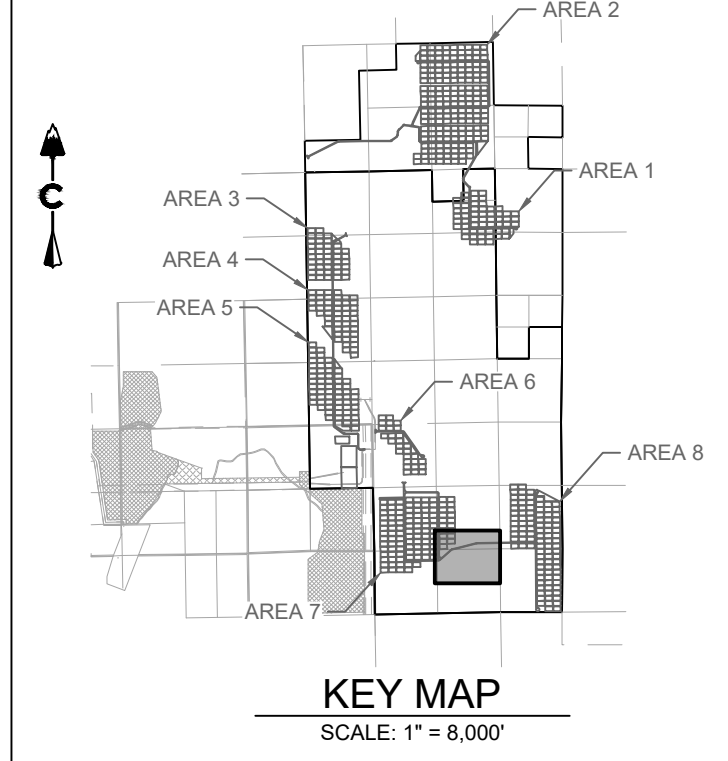
DESIGNED BY: BB  
 DRAWN BY: SD  
 CHECKED BY: DB  
 JOB NO. 20-194  
 SHEET 67 OF 76

MATCH LINE SHEET 67



MATCH LINE SHEET 68

MATCH LINE SHEET GP-21



**LEGEND**

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
CD	CHECK DAM
OO	COMPACTED EARTHEN BERM
CF	CONSTRUCTION FENCE
CM	CONSTRUCTION MARKER
CWA	CONCRETE WASHOUT AREA
ECB	EROSION CONTROL BLANKET
DD	DIVERSION DITCH
IP	INLET PROTECTION
LOC	LIMITS OF CONSTRUCTION
OP	OUTLET PROTECTION
RCD	REINFORCED CHECK DAM
RCS	ROUGH CUT STREET CONTROL
RS	ROCK SOCK
SB	SEDIMENT BASIN
SCL	SEDIMENT CONTROL LOG
SM	SEEDING AND MULCHING
SF	SILT FENCE
SP	STOCK PILE
SSA	STABILIZED STAGING AREA
SR	SURFACE ROUGHENING
ST	SEDIMENT TRAP
TSC	TEMPORARY STREAM CROSSING
VTC	VEHICLE TRACKING CONTROL

- NOTES:**
- SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES.
  - SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.
  - SHADED CONTROL MEASURES WERE INSTALLED IN INITIAL OR INTERIM PLANS AND, UNLESS OTHERWISE INDICATED SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE CITY.
  - SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.

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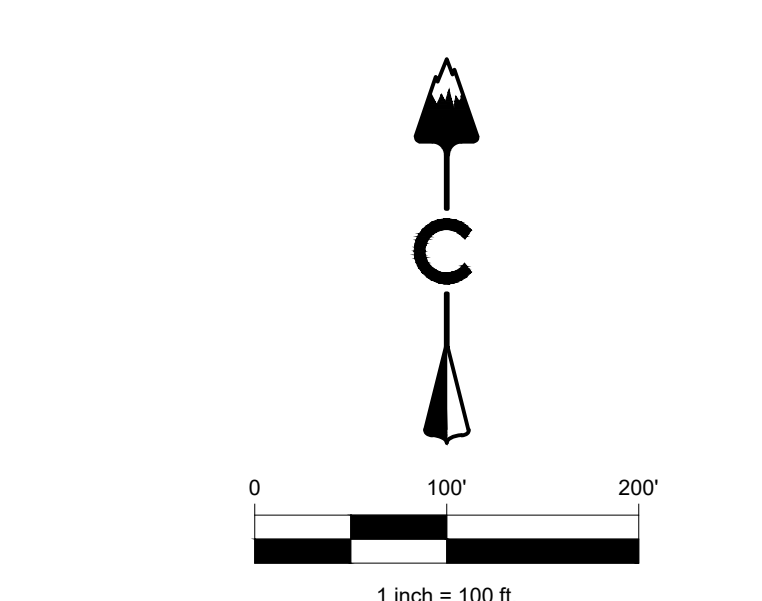
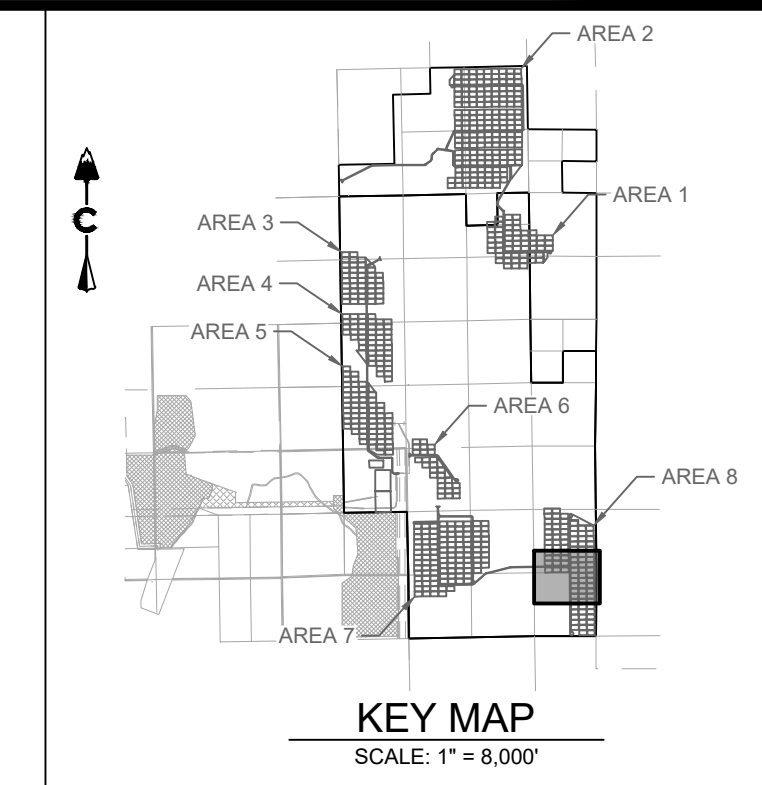
**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 FINAL (20 OF 24)

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 20-194  
 SHEET  
 69 OF 76

MATCH LINE SHEET 70



**LEGEND**

— 5280 —	PROPOSED MAJOR CONTOUR
— 5279 —	PROPOSED MINOR CONTOUR
— 5280 —	EXISTING MAJOR CONTOUR
— 5279 —	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
— CD —	CHECK DAM
— CEB —	COMPACTED EARTHEN BERM
— CF —	CONSTRUCTION FENCE
— CM —	CONSTRUCTION MARKER
— CWA —	CONCRETE WASHOUT AREA
— ECB —	EROSION CONTROL BLANKET
— DD —	DIVERSION DITCH
— IP —	INLET PROTECTION
— LOC —	LIMITS OF CONSTRUCTION
— OP —	OUTLET PROTECTION
— RCD —	REINFORCED CHECK DAM
— RCS —	ROUGH CUT STREET CONTROL
— RS —	ROCK SOCK
— SB —	SEDIMENT BASIN
— SCL —	SEDIMENT CONTROL LOG
— SM —	SEEDING AND MULCHING
— SF —	SILT FENCE
— SP —	STOCK PILE
— SSA —	STABILIZED STAGING AREA
— SR —	SURFACE ROUGHENING
— ST —	SEDIMENT TRAP
— TSC —	TEMPORARY STREAM CROSSING
— VTC —	VEHICLE TRACKING CONTROL

- NOTES:**
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  - SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS
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POD 8 EARTHWORK  
 CUT: 4,211 CY  
 FILL: 4,153 CY  
 TOTAL: 58 CY (CUT)

**PIKE SOLAR**  
 EL PASO COUNTY, COLORADO  
 GRADING & EROSION CONTROL PLANS  
 FINAL (22 OF 24)

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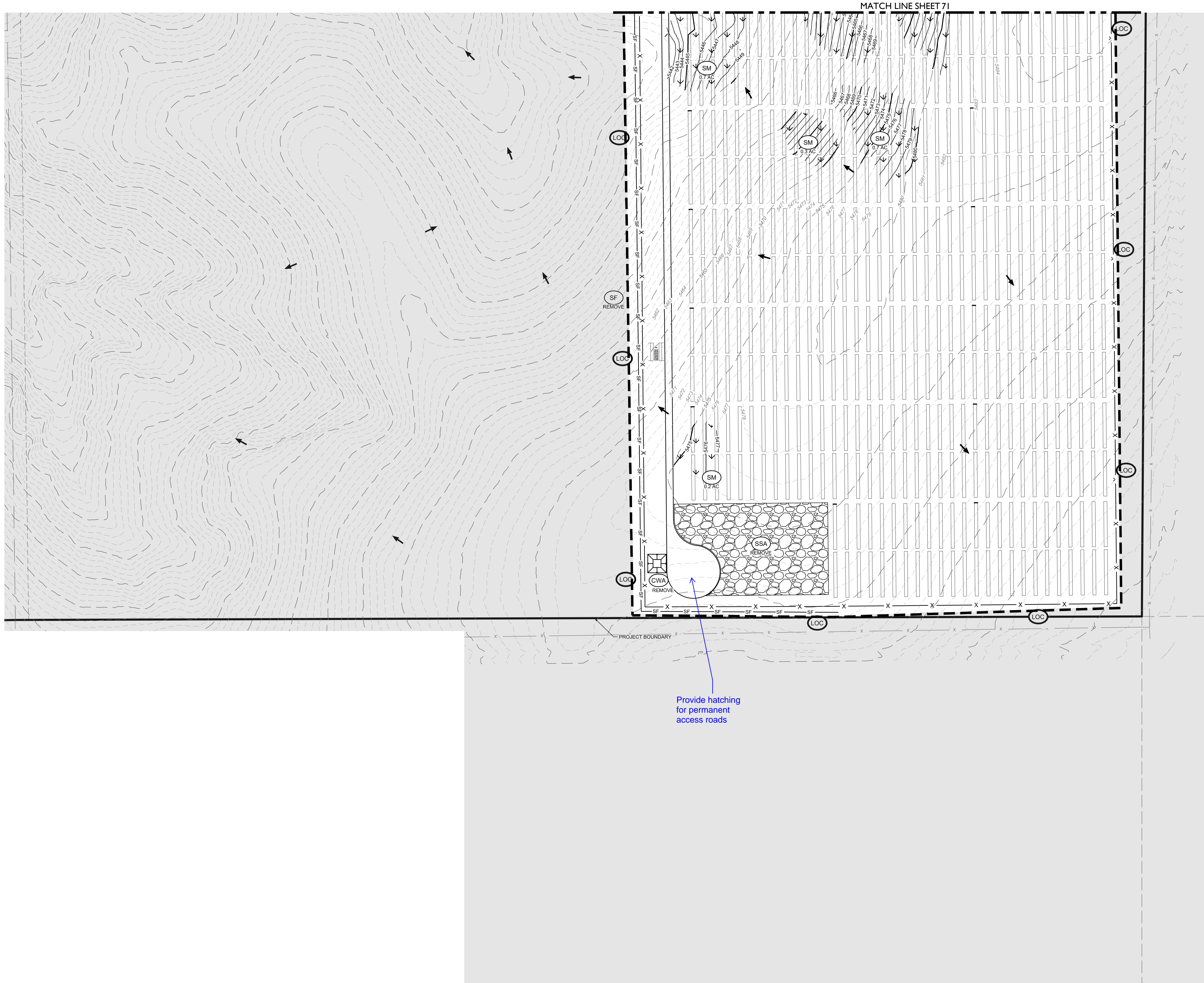
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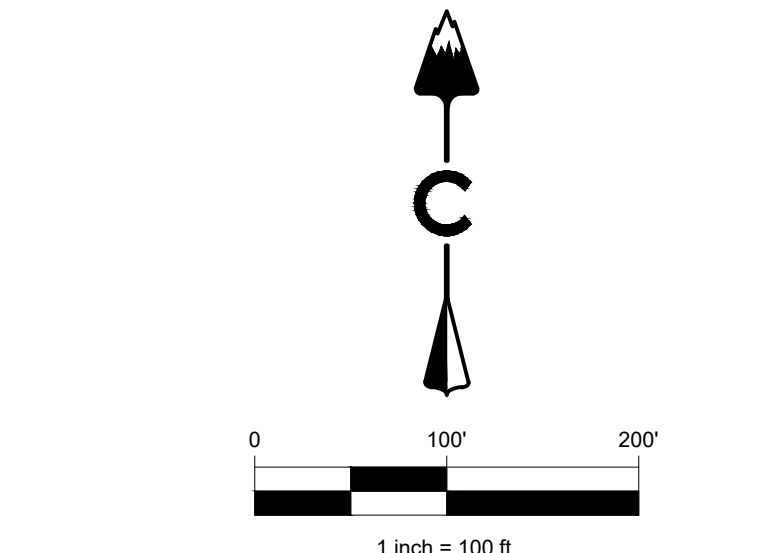
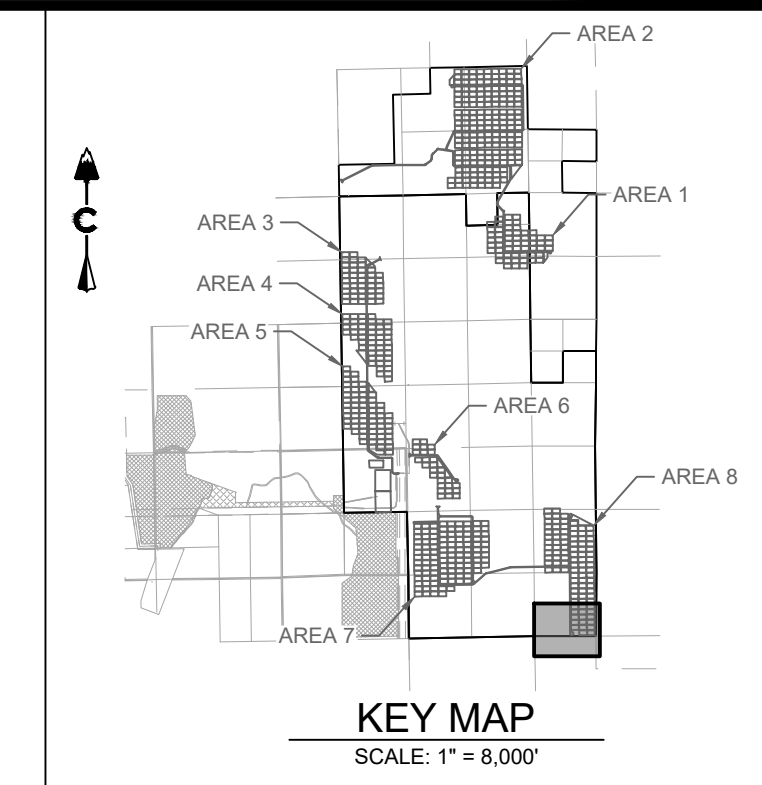
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 20-194  
 SHEET  
 71 OF 76



MATCH LINE SHEET 71



**LEGEND**

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
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- NOTES:**
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  - SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.
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  - SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.

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72 OF 76

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

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

**Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses**

Species* (Common name)	Growth Season	Pounds of Pure Live Seed (PLS) / acre	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	½
5. Millet	Warm	3 - 15	½ - ¾
6. Sudangrass	Warm	5-10	½ - ¾
7. Sorghum	Warm	5-10	½ - ¾
8. Winter wheat	Cool	20-35	1 - 2
9. Winter barley	Cool	20-35	1 - 2
10. Winter rye	Cool	20-35	1 - 2
11. Triticale	Cool	25-40	1 - 2

Verify species with El Paso County Conservation District ("Shotgun mix"?)

Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches.

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

June 2012 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 TS/PS-3

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

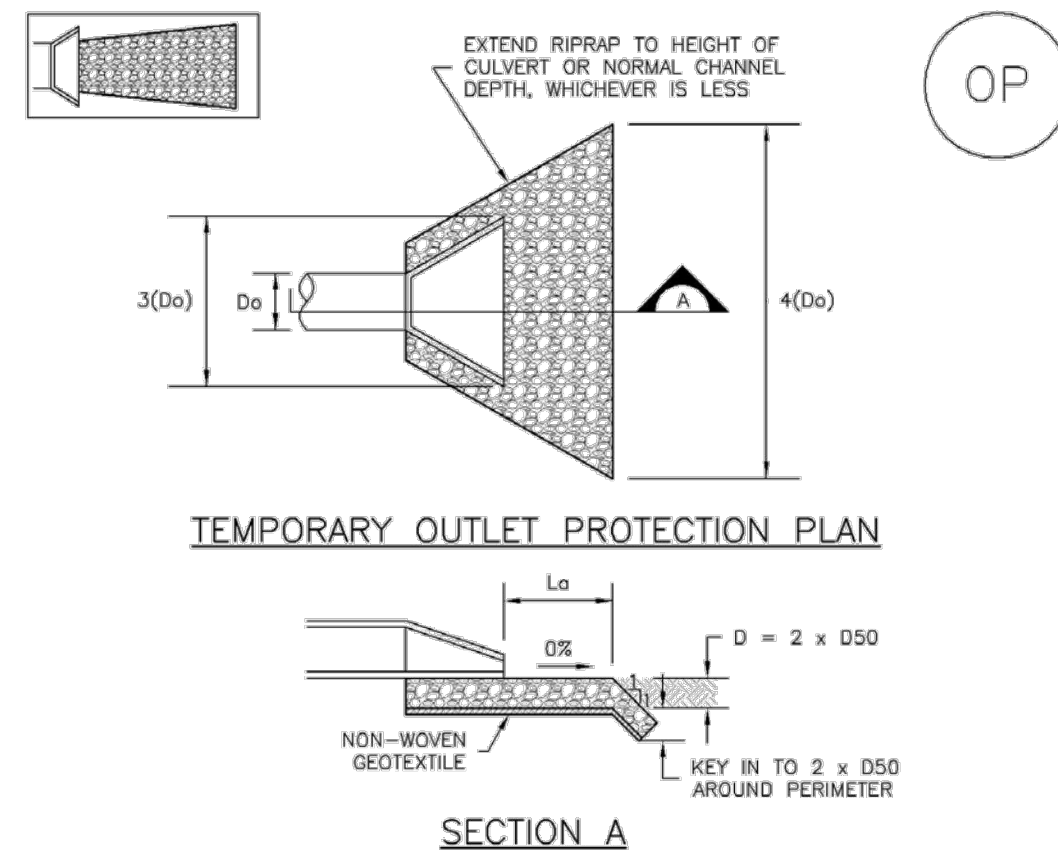
**Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses**

Common Name	Botanical Name	Growth Season	Growth Form	Seeds / Pound	Pounds of PLS / acre
<b>Alkali Soil Seed Mix</b>					
Alkali sacaton	<i>Sporobolus airoides</i>	Cool	Bunch	1,750,000	0.25
Basin wildrye	<i>Elymus cinereus</i>	Cool	Bunch	165,000	2.5
Sodar streambank wheatgrass	<i>Agropyron riparium 'Sodar'</i>	Cool	Sod	170,000	2.5
Jose tall wheatgrass	<i>Agropyron elongatum 'Jose'</i>	Cool	Bunch	79,000	7.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
<b>Total</b>					<b>17.75</b>
<b>Fertile Loamy Soil Seed Mix</b>					
Ephraim crested wheatgrass	<i>Agropyron cristatum 'Ephraim'</i>	Cool	Sod	175,000	2.0
Dural hard fescue	<i>Festuca ovina 'duriscula'</i>	Cool	Bunch	565,000	1.0
Lincoln smooth brome	<i>Bromus inermis leys 'Lincoln'</i>	Cool	Sod	130,000	3.0
Sodar streambank wheatgrass	<i>Agropyron riparium 'Sodar'</i>	Cool	Sod	170,000	2.5
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	7.0
<b>Total</b>					<b>15.5</b>
<b>High Water Table Soil Seed Mix</b>					
Meadow foxtail	<i>Alopecurus pratensis</i>	Cool	Sod	900,000	0.5
Redtop	<i>Agrostis alba</i>	Warm	Open sod	5,000,000	0.25
Reed canarygrass	<i>Phalaris arundinacea</i>	Cool	Sod	68,000	0.5
Lincoln smooth brome	<i>Bromus inermis leys 'Lincoln'</i>	Cool	Sod	130,000	3.0
Pathfinder switchgrass	<i>Panicum virgatum 'Pathfinder'</i>	Warm	Sod	389,000	1.0
Alkar tall wheatgrass	<i>Agropyron elongatum 'Alkar'</i>	Cool	Bunch	79,000	5.5
<b>Total</b>					<b>10.75</b>
<b>Transition Turf Seed Mix</b>					
Ruebens Canadian bluegrass	<i>Poa compressa 'Ruebens'</i>	Cool	Sod	2,500,000	0.5
Dural hard fescue	<i>Festuca ovina 'duriscula'</i>	Cool	Bunch	565,000	1.0
Citation perennial ryegrass	<i>Lolium perenne 'Citation'</i>	Cool	Sod	247,000	3.0
Lincoln smooth brome	<i>Bromus inermis leys 'Lincoln'</i>	Cool	Sod	130,000	3.0
<b>Total</b>					<b>7.5</b>

Verify species with El Paso County Conservation District

TS/PS-4 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 June 2012

**EC-8 Temporary Outlet Protection (TOP)**



**TABLE OP-1. TEMPORARY OUTLET PROTECTION SIZING TABLE**

PIPE DIAMETER, Dp (INCHES)	DISCHARGE, Q (CFS)	APRON LENGTH, Lp (FT)	RIPRAP D50 DIAMETER, MIN (INCHES)
8	2.5	5	4
	5	10	6
12	5	10	4
	10	13	6
	10	10	6
18	20	16	9
	30	23	12
	40	26	16
	40	16	9
24	50	26	12
	60	30	16

**OP-1. TEMPORARY OUTLET PROTECTION**

TOP-2 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 November 2010

**EC-8 Temporary Outlet Protection (TOP)**

**TEMPORARY OUTLET PROTECTION INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATION OF OUTLET PROTECTION.
  - DIMENSIONS OF OUTLET PROTECTION.
- DETAIL IS INTENDED FOR PIPES WITH SLOPE ≤ 10%. ADDITIONAL EVALUATION OF RIPRAP SIZING AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES.
- TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED LESS THAN 2 YEARS.

**TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES**

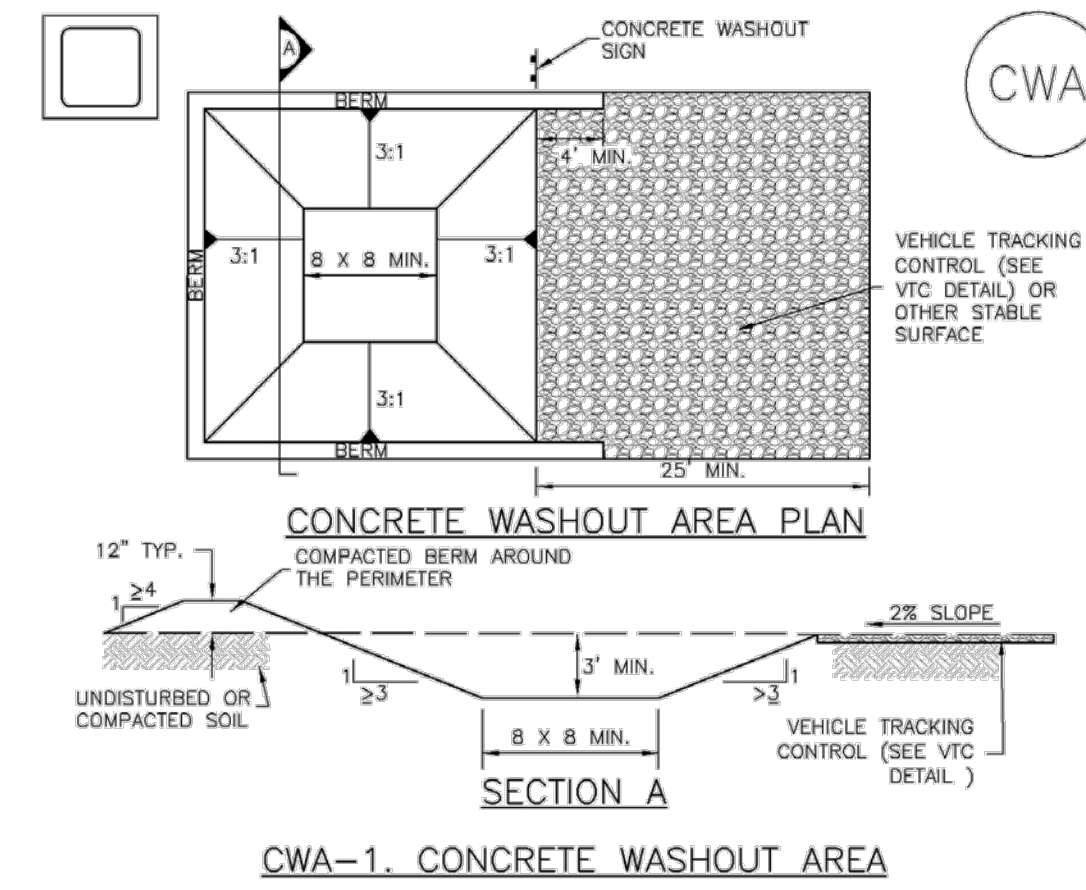
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

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 AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 3, NOT AVAILABLE IN AUTOCAD)

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

**MM-1 Concrete Washout Area (CWA)**



**CWA-1. CONCRETE WASHOUT AREA**

- CWA INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
    - CWA INSTALLATION LOCATION.
  - DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 100' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
  - THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
  - CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 6' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
  - BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
  - VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
  - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
  - USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

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

**MM-1 Concrete Washout Area (CWA)**

**CWA MAINTENANCE NOTES**

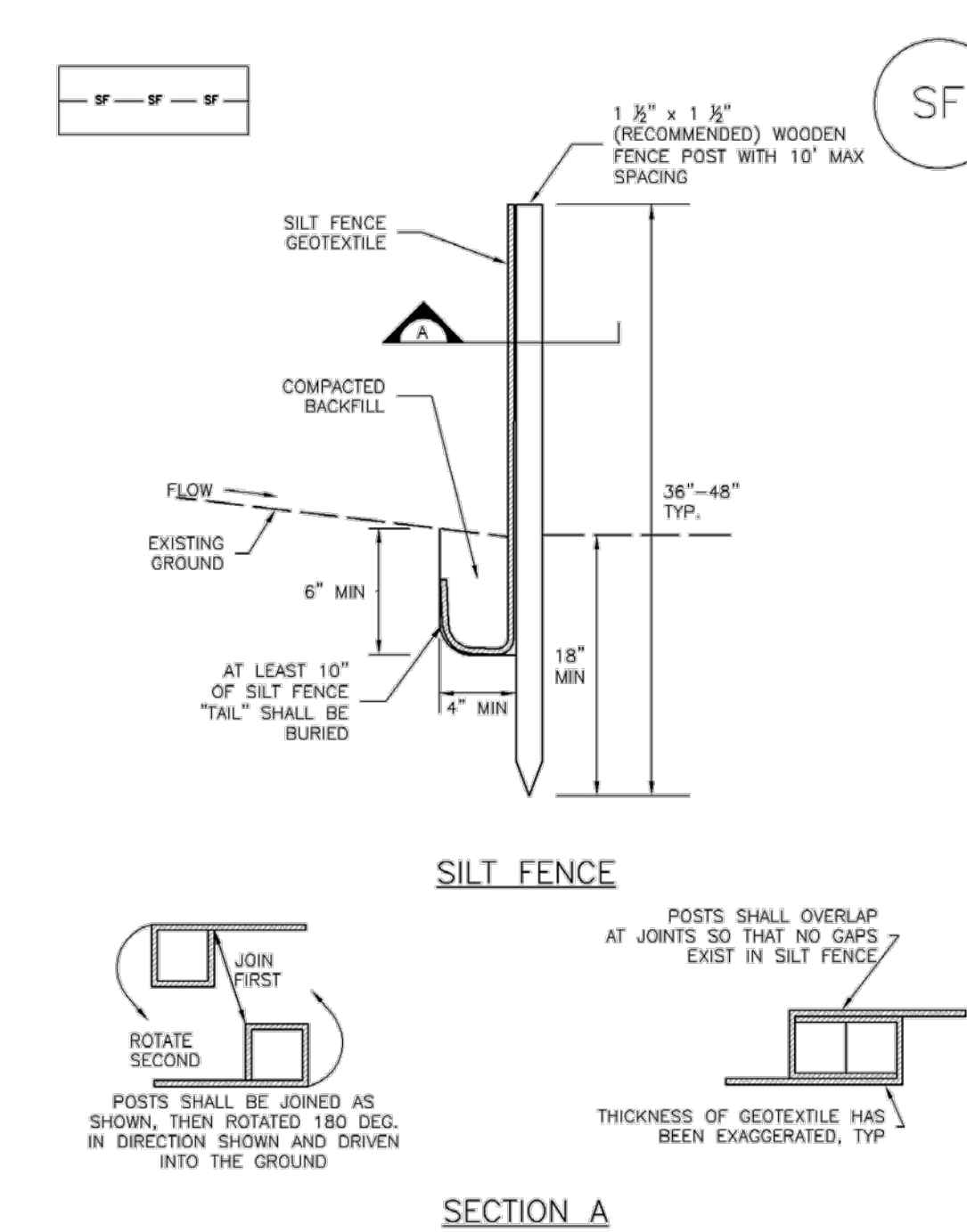
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- 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'.
- 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.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- 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.

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.

(DETAIL ADAPTED FROM BOULGAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

CWA-4 Urban Drainage and Flood Control District  
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**SC-1 Silt Fence (SF)**



**SF-1. SILT FENCE**

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

**SC-1 Silt Fence (SF)**

**SILT FENCE INSTALLATION NOTES**

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
- A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
- SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
- AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

**SILT FENCE MAINTENANCE NOTES**

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
- WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS 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.

SF-4 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 November 2010

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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB

PIKE SOLAR  
EL PASO COUNTY, COLORADO  
GRADING & EROSION CONTROL PLANS  
DETAILS (1 OF 2)

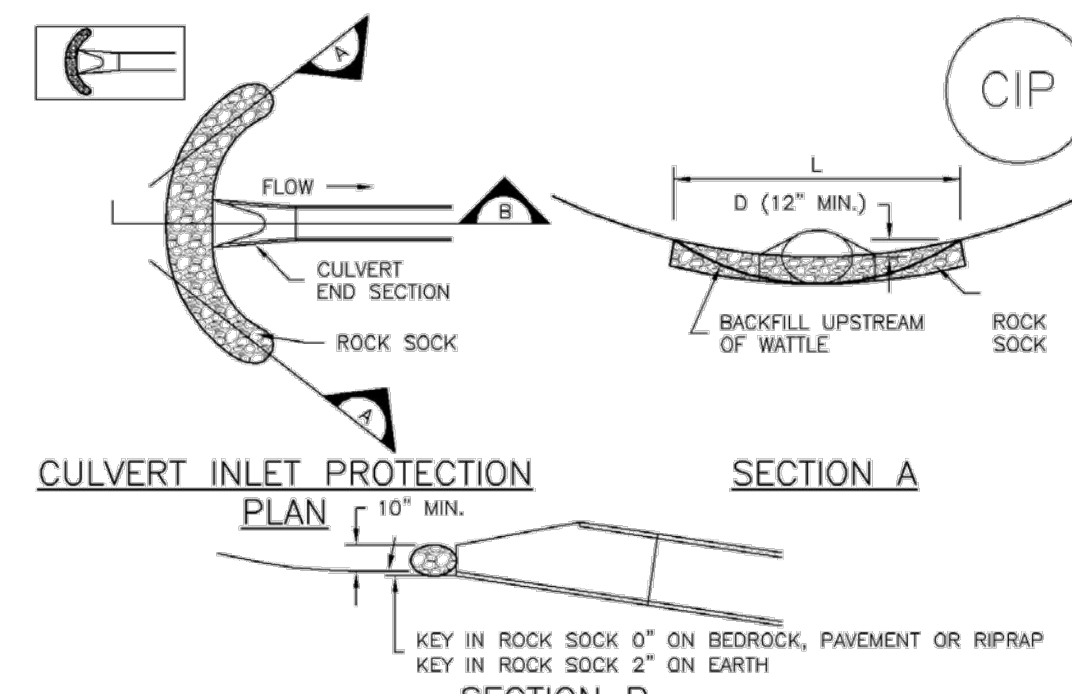
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JOB NO.  
20-194  
SHEET  
74 OF 76



**Inlet Protection (IP) SC-6**

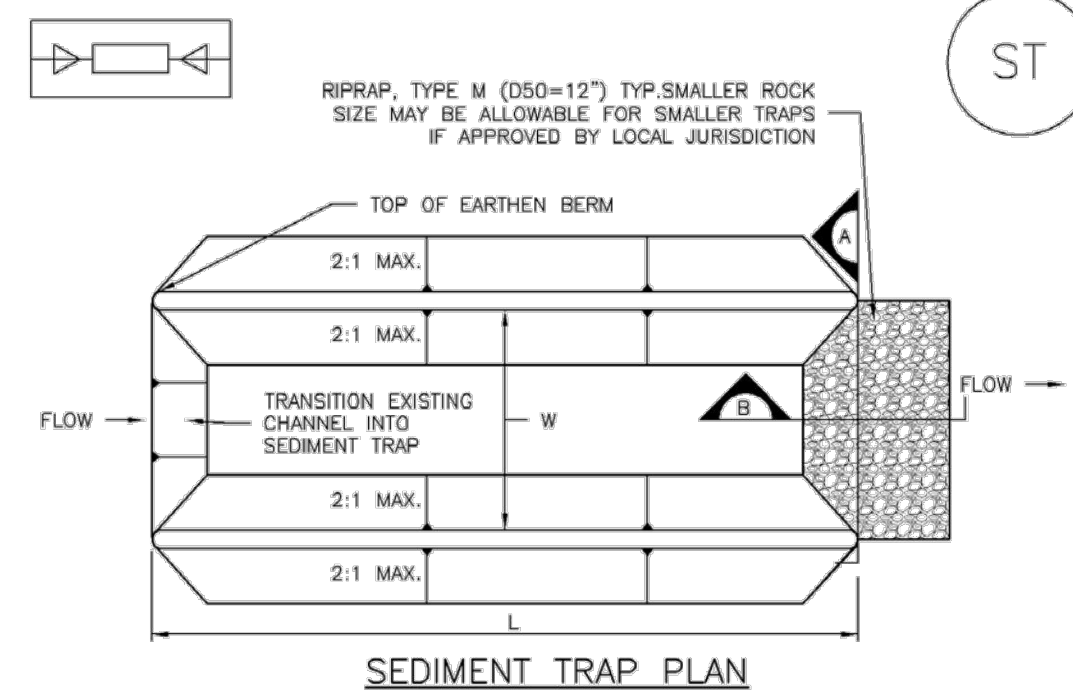


**CIP-1. CULVERT INLET PROTECTION**

- CULVERT INLET PROTECTION INSTALLATION NOTES**
- SEE PLAN VIEW FOR -LOCATION OF CULVERT INLET PROTECTION.
  - SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.
- CULVERT INLET PROTECTION MAINTENANCE NOTES**
- 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.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS  $\frac{1}{2}$  THE HEIGHT OF THE ROCK SOCK.
  - CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM AURORA, 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.

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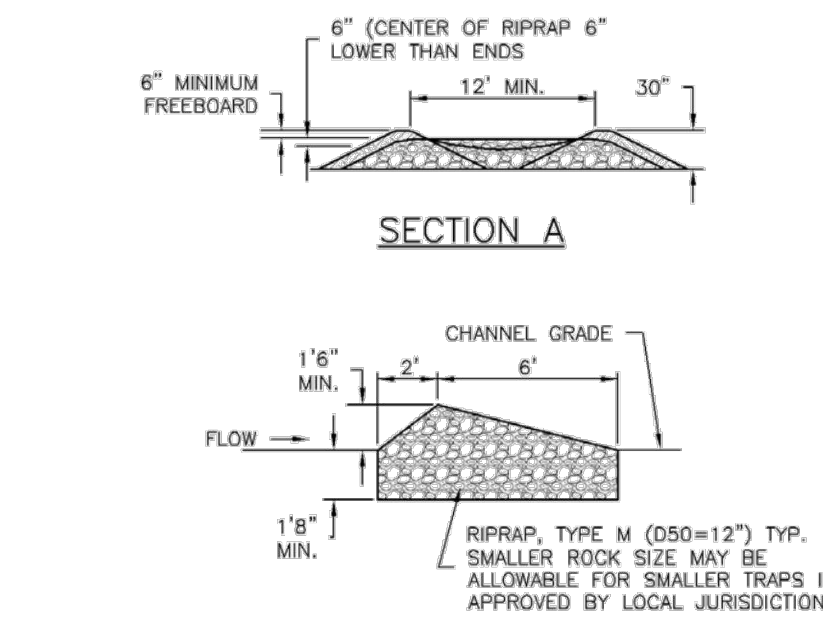
**SC-8 Sediment Trap (ST)**



**SECTION A**

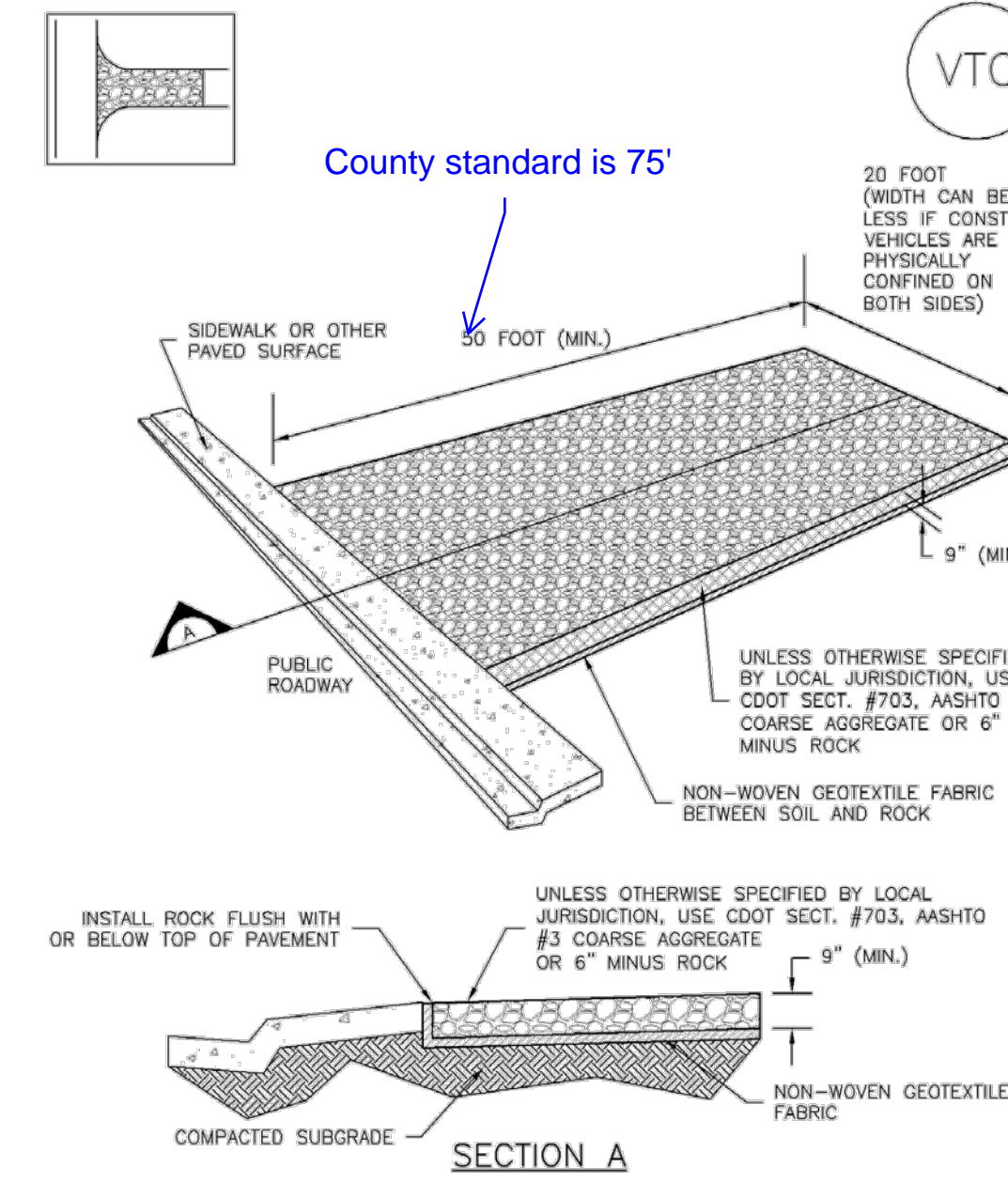
**SECTION B**

**ST-1. SEDIMENT TRAP**



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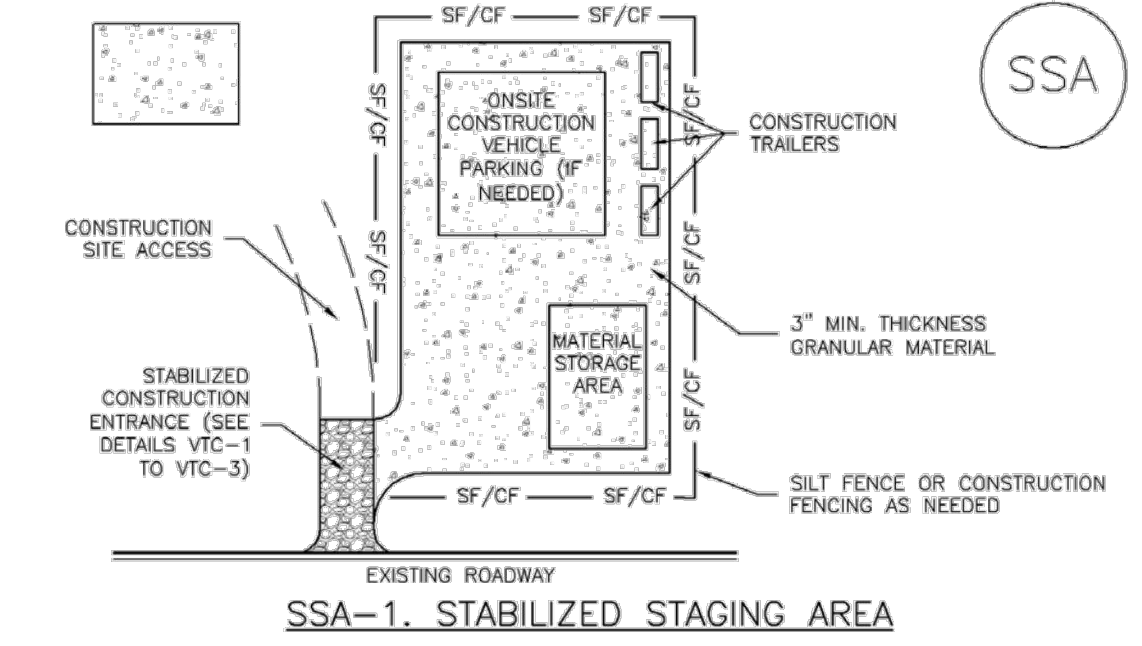
**Vehicle Tracking Control (VTC) SM-4**



**VTC-1. AGGREGATE VEHICLE TRACKING CONTROL**

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**Stabilized Staging Area (SSA) SM-6**



**SSA-1. STABILIZED STAGING AREA**

- STABILIZED STAGING AREA INSTALLATION NOTES**
- SEE PLAN VIEW FOR -LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
  - STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
  - STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
  - THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
  - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
  - ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.
- STABILIZED STAGING AREA MAINTENANCE NOTES**
- 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.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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**SC-6 Inlet Protection (IP)**

**GENERAL INLET PROTECTION INSTALLATION NOTES**

- SEE PLAN VIEW FOR -LOCATION OF INLET PROTECTION. -TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)
  - INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
  - 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.
- INLET PROTECTION MAINTENANCE NOTES**
- 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.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR  $\frac{1}{4}$  OF THE HEIGHT FOR STRAW BALES.
  - INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
  - WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, 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.

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**SC-8 Sediment Trap (ST)**

**SEDIMENT TRAP INSTALLATION NOTES**

- SEE PLAN VIEW FOR -LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
  - ONLY USE FOR DRAINAGE AREAS LESS THAN 1 ACRE.
  - SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADED LAND-DISTURBING ACTIVITIES.
  - SEDIMENT TRAP BERM SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION, THE BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
  - SEDIMENT TRAP OUTLET TO BE CONSTRUCTED OF RIPRAP, TYPE M (D50=12") TYP-SMALLER ROCK SIZE MAY BE ALLOWABLE FOR SMALLER TRAPS IF APPROVED BY LOCAL JURISDICTION.
  - THE TOP OF THE EARTHEN BERM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE RIPRAP OUTLET STRUCTURE.
  - THE ENDS OF THE RIPRAP OUTLET STRUCTURE SHALL BE A MINIMUM OF 6" HIGHER THAN THE CENTER OF THE OUTLET STRUCTURE.
- SEDIMENT TRAP MAINTENANCE NOTES**
- 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.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - REMOVE SEDIMENT ACCUMULATED IN TRAP AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN THE SEDIMENT DEPTH REACHES  $\frac{1}{2}$  THE HEIGHT OF THE RIPRAP OUTLET.
  - SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
  - WHEN SEDIMENT TRAPS ARE REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, 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.

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**SM-4 Vehicle Tracking Control (VTC)**

**STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**

- SEE PLAN VIEW FOR -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). -TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
  - CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
  - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
  - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
  - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
  - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**
- 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.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
  - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- 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 CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

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**SM-6 Stabilized Staging Area (SSA)**

**STABILIZED STAGING AREA MAINTENANCE NOTES**

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
  - THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION, THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE:** MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
- 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, NOT AVAILABLE IN AUTOCAD)

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 DETAILS (2 OF 2)

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 DRAWN BY: SD  
 CHECKED BY: DB

JOB NO. 20-194  
 SHEET 75 OF 76