

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 SOUTH, RANGE 65 WEST, 6TH P.M. EL PASO COUNTY, COLORADO.

EPC STORMWATER REVIEW COMMENTS ARE SHOWN IN ORANGE BOXES WITH BLACK TEXT

PCD-ENGINEERING REVIEW COMMENTS IN BLUE BOXES WITH BLUE TEXT

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:

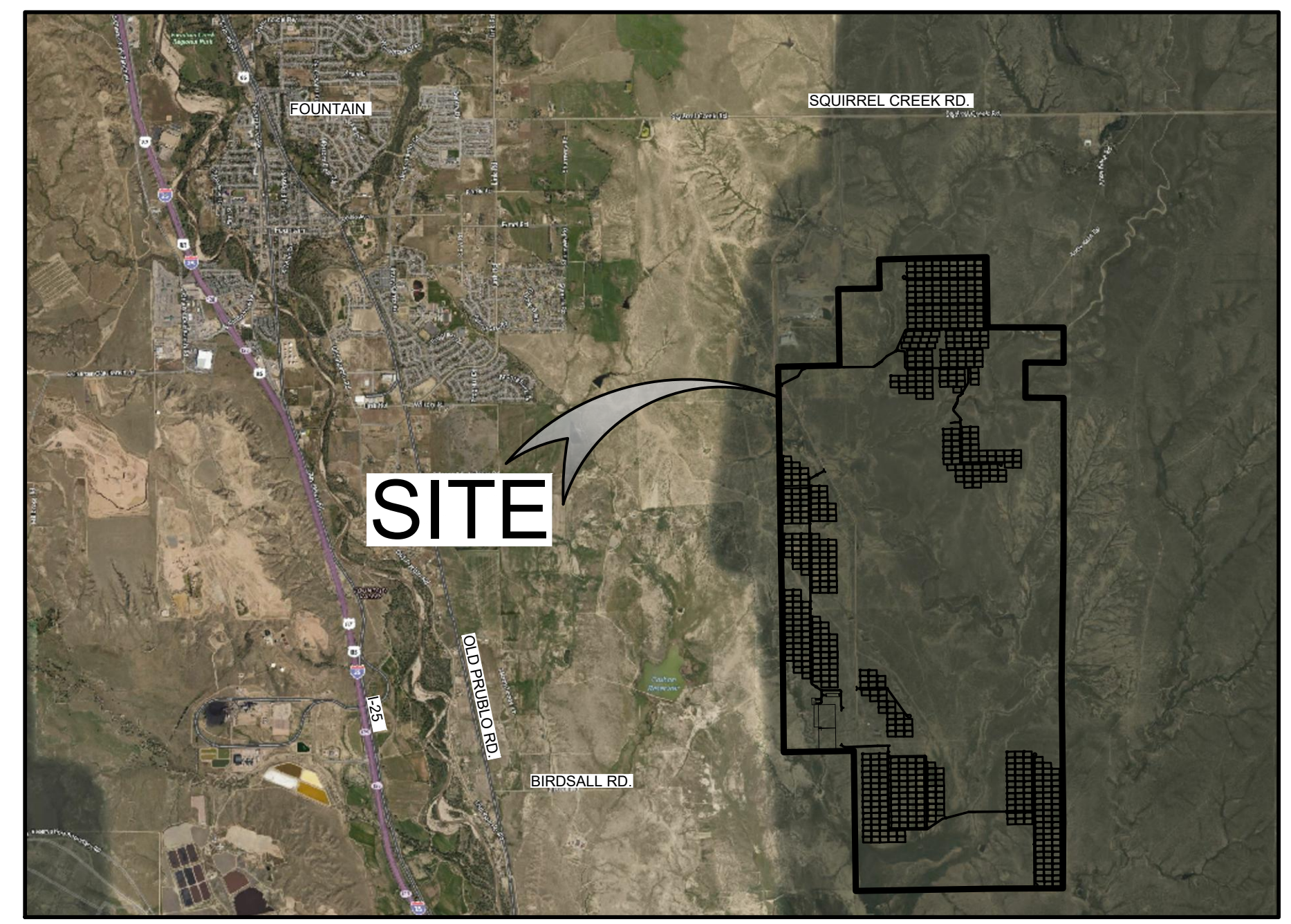
PORTIONS OF SECTIONS 11, 12 AND 13, TOWNSHIP 16 SOUTH, RANGE 65 WEST AND PORTIONS OF SECTIONS 7, 18 AND 19, TOWNSHIP 16 SOUTH, RANGE 64 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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;

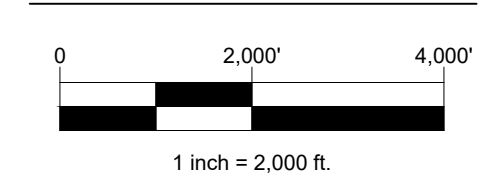
EXCEPTING FROM SAID SECTIONS 11 AND 12 THOSE PORTIONS DESCRIBED IN BOOK 5734 AT PAGE 253.

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



VICINITY MAP



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
JUWI 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.

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CHECK DAM	LF	802
CONCRETE WASHOUT AREAS	EA	8
DIVERSION DITCH	LF	1,334
ROCK SOCK	LF	96
SEDIMENT BASIN	EA	1
SEDIMENT CONTROL LOG	LF	416
SEDIMENT TRAP	EA	41
SEEDING AND MULCHING	AC	152
SILT FENCE	LF	51,734
TEMPORARY STREAM CROSSING	EA	3
VEHICLE TRACKING CONTROL	EA	6

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

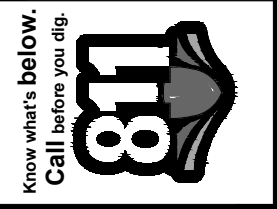
DAVID BACCI P.E.
COLORADO NO. 42104
FOR AND ON BEHALF OF CORE CONSULTANTS INC.

DATE: XX/XXXX

JOB NO. 20-194
SHEET 1 OF 77

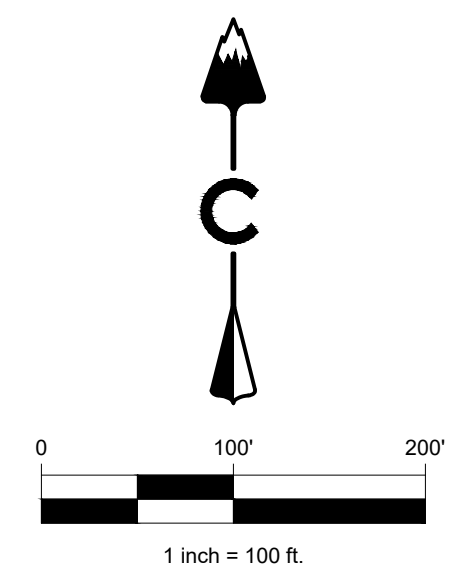
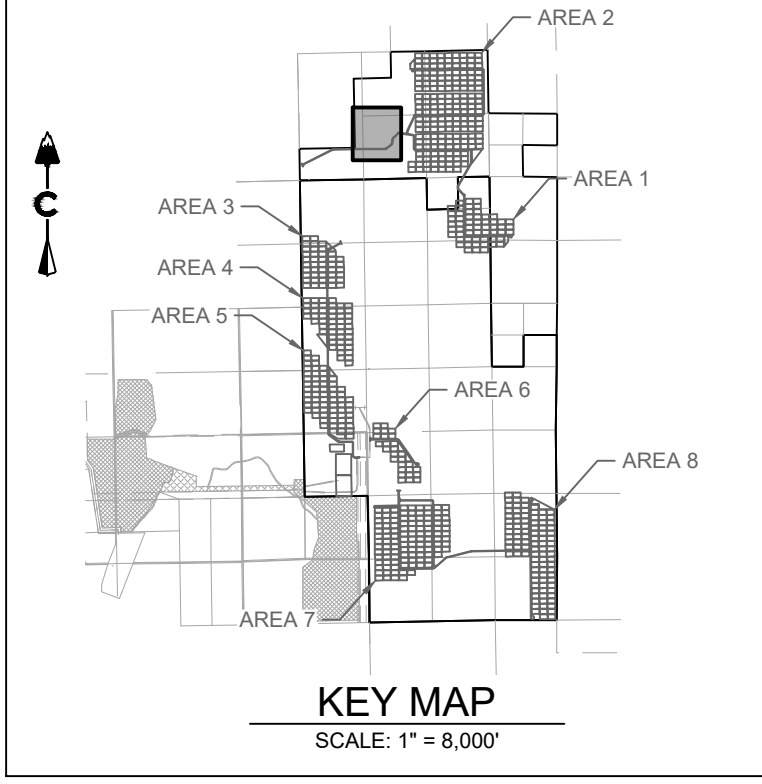
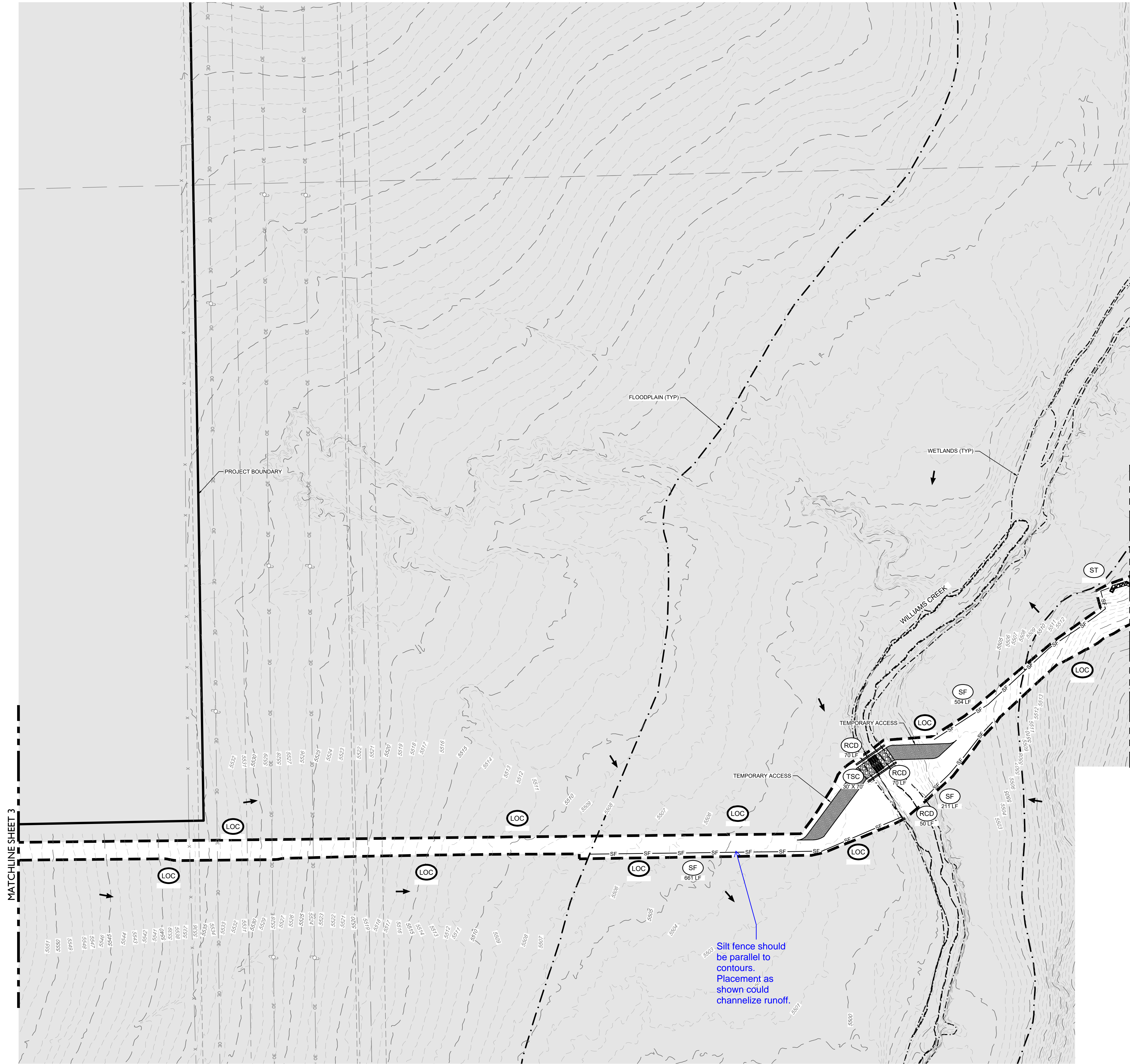
NOT FOR CONSTRUCTION

PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
COVER SHEET



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

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE



LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - -	PHASE BOUNDARY
[Symbol]	RCD REINFORCED CHECK DAM
[Symbol]	CWA CONCRETE WASHOUT AREA
[Symbol]	DD DIVERSION DITCH
[Symbol]	IP INLET PROTECTION
[Symbol]	RS ROCK SOCK
[Symbol]	SB SEDIMENT BASIN
[Symbol]	SCL SEDIMENT CONTROL LOG
[Symbol]	SM SEEDING
[Symbol]	SF SILT FENCE
[Symbol]	SSA STABILIZED STAGING AREA
[Symbol]	ST SEDIMENT TRAP
[Symbol]	TSC TEMPORARY STREAM CROSSING
[Symbol]	VTC VEHICLE TRACKING CONTROL

NOTES:

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

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4473 S. BROADWAY
DENVER, CO 80113
303.703.4444
LIVE@CORE.COM

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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB
2	BID SET	04/07/21	DB

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

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

JOB NO.
20-194

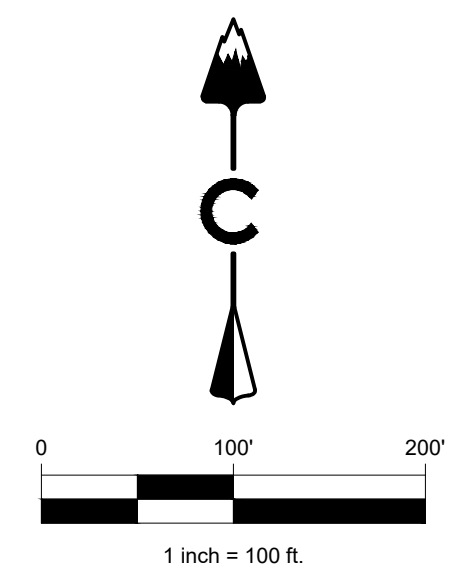
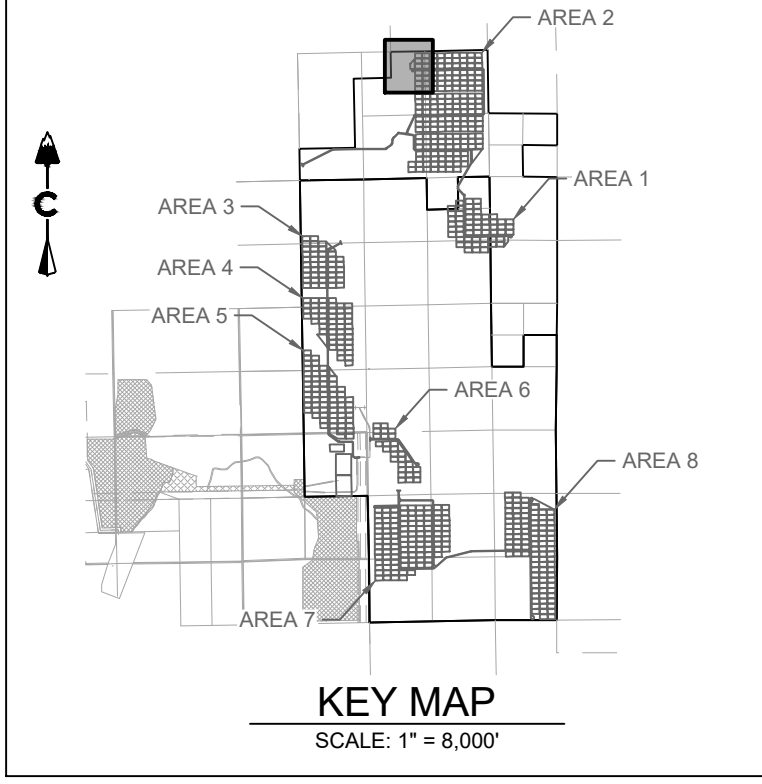
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4 OF 77

NOT FOR CONSTRUCTION

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Sediment traps are not appropriate for this application. Temporary sediment basins should be used for tributaries greater than 1 ac. (typ.)



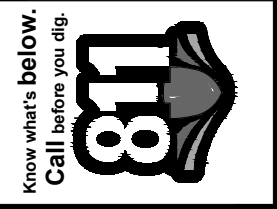
LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
[Symbol]	REINFORCED CHECK DAM
[Symbol]	CONCRETE WASHOUT AREA
[Symbol]	DIVERSION DITCH
[Symbol]	INLET PROTECTION
[Symbol]	ROCK SOCK
[Symbol]	SEDIMENT BASIN
[Symbol]	SEDIMENT CONTROL LOG
[Symbol]	SEEDING
[Symbol]	SILT FENCE
[Symbol]	STABILIZED STAGING AREA
[Symbol]	SEDIMENT TRAP
[Symbol]	TEMPORARY STREAM CROSSING
[Symbol]	VEHICLE TRACKING CONTROL

- NOTES:**
- SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES.
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LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

CORE



#	REVISION DESCRIPTION	DATE	BY	DB
1	1ST SUBMITTAL	02/25/21	DB	
2	BID SET	04/07/21	DB	

PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
INITIAL (3 OF 24)

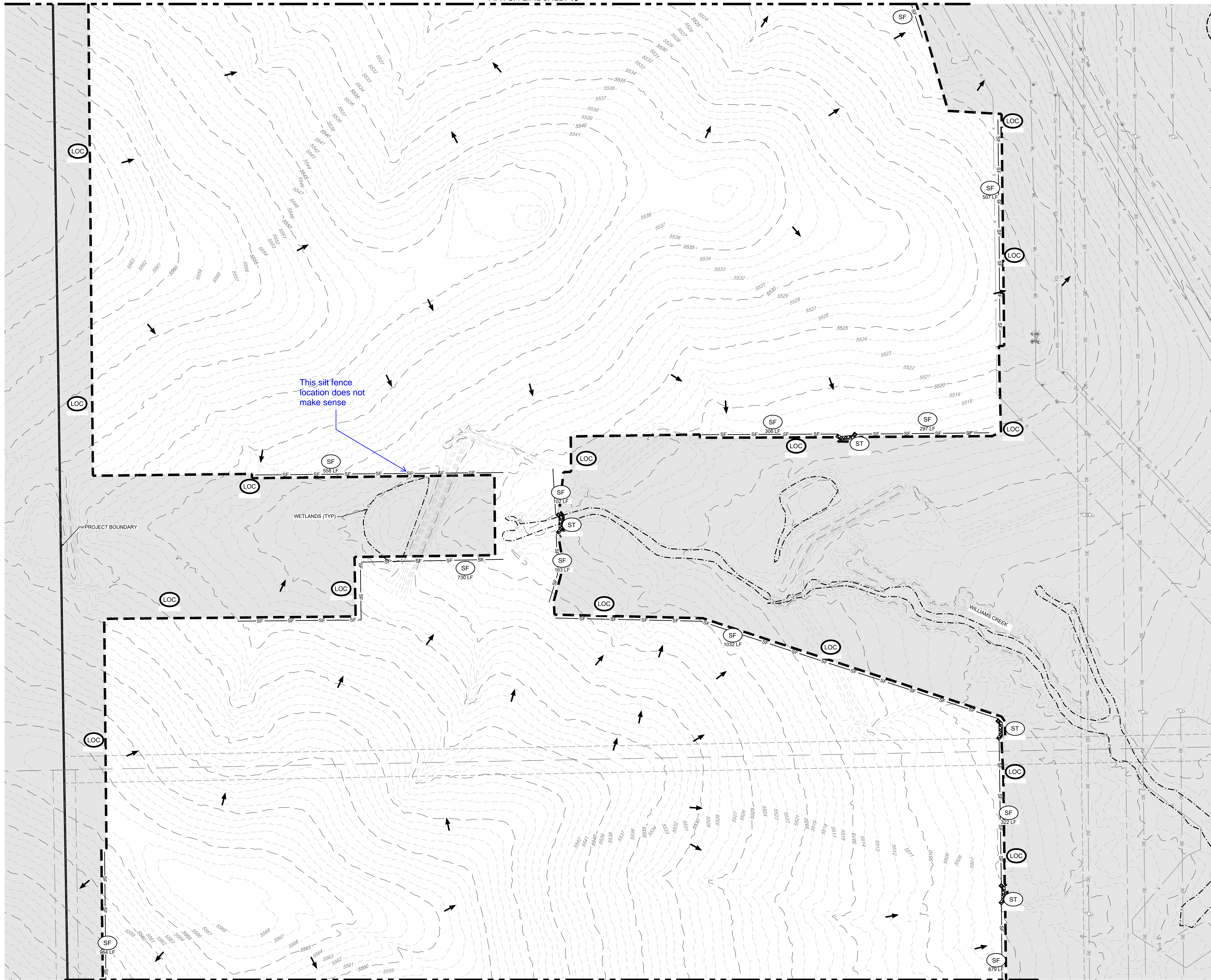
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DRAWN BY: SD
CHECKED BY: DB

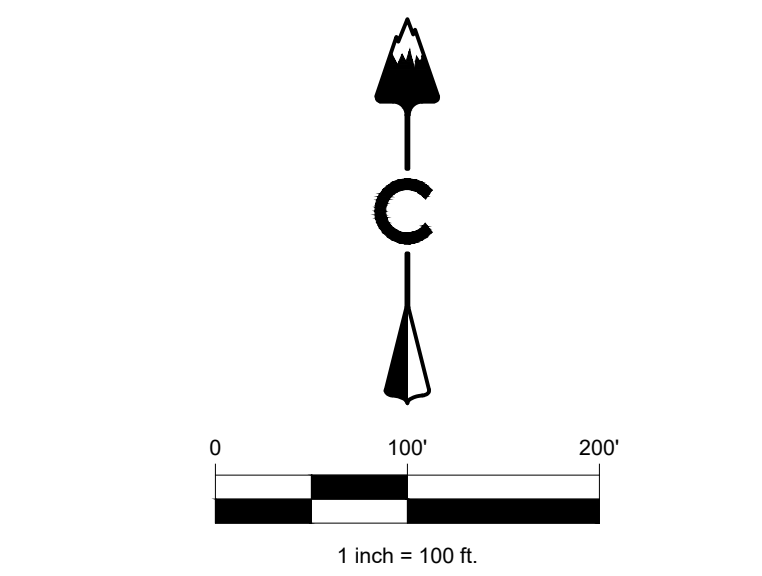
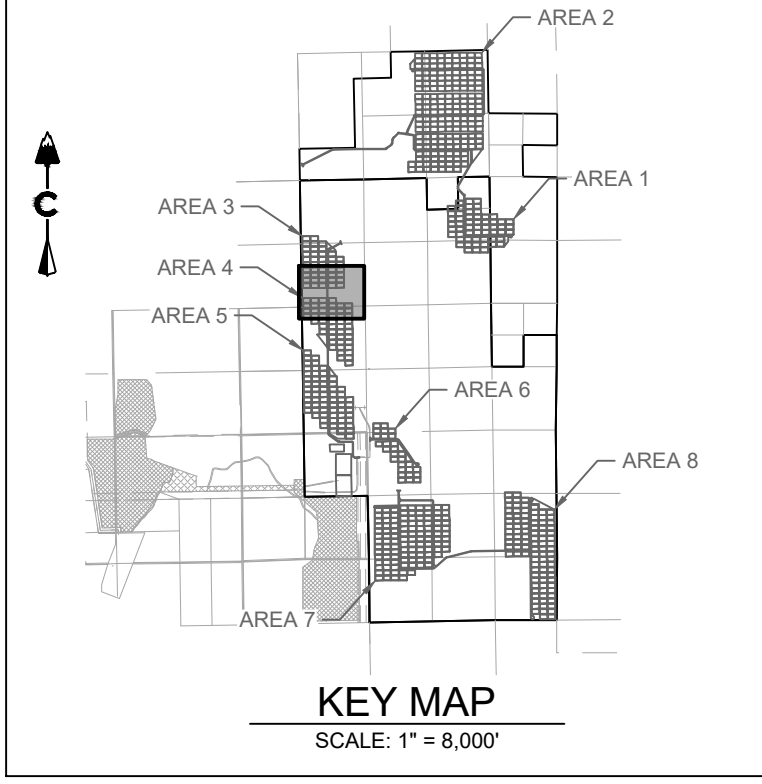
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20-194
SHEET
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MATCH LINE SHEET I3



MATCH LINE SHEET I5



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		PHASE BOUNDARY
	RCB	REINFORCED CHECK DAM
	CWA	CONCRETE WASHOUT AREA
	DD	DIVERSION DITCH
	IP	INLET PROTECTION
	RS	ROCK SOCK
	SB	SEDIMENT BASIN
	SCL	SEDIMENT CONTROL LOG
	SM	SEEDING
	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
	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.

CORE CONSULTANTS, INC.
 3473 S. BROADWAY
 DENVER, CO 80113
 303.703.4444
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Know what's below. Call before you dig.

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB
2	BID SET	04/07/21	DB

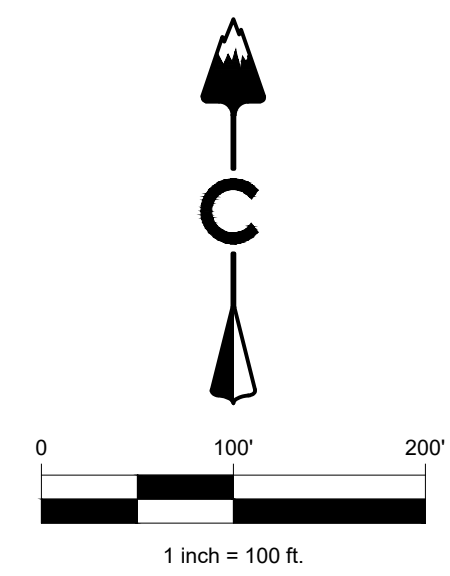
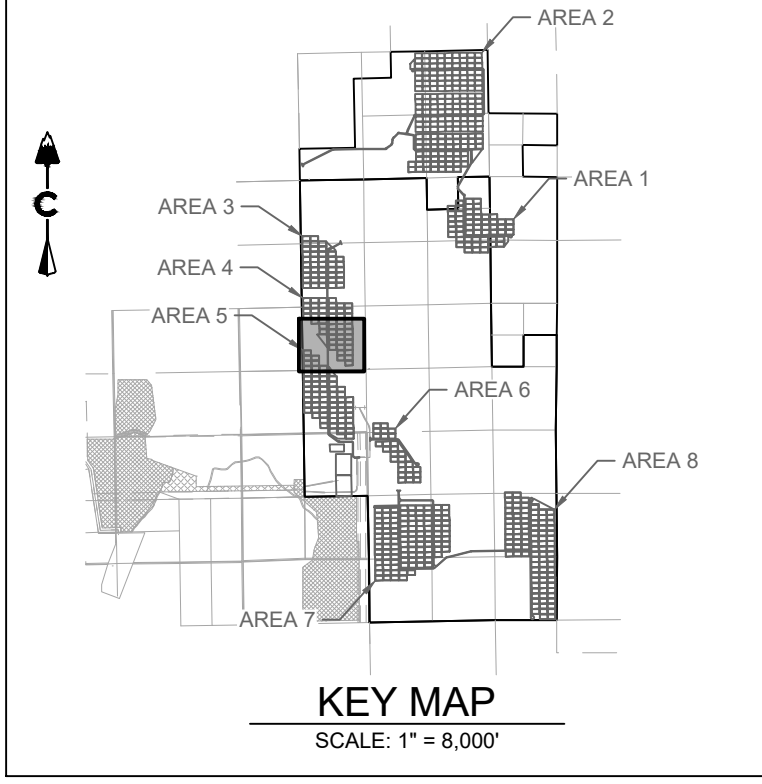
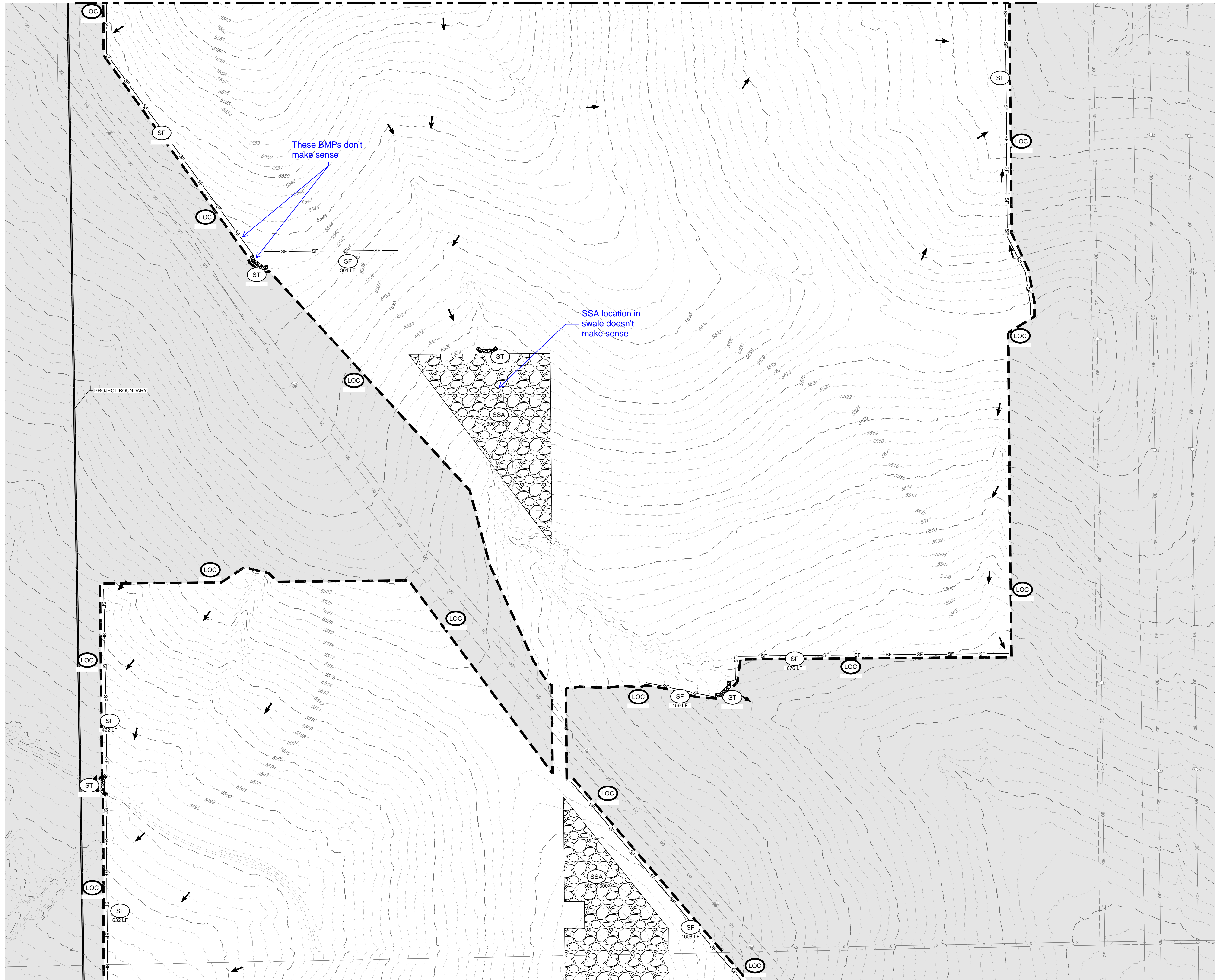
PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 INITIAL (12 OF 24)

NOT FOR CONSTRUCTION

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

JOB NO.
 20-194

SHEET
 14 OF 77



LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
[Symbol]	RCI REINFORCED CHECK DAM
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[Symbol]	DD DIVERSION DITCH
[Symbol]	IP INLET PROTECTION
[Symbol]	RS ROCK SOCK
[Symbol]	SB SEDIMENT BASIN
[Symbol]	SCL SEDIMENT CONTROL LOG
[Symbol]	SM SEEDING
[Symbol]	SF SILT FENCE
[Symbol]	SSA STABILIZED STAGING AREA
[Symbol]	ST SEDIMENT TRAP
[Symbol]	TSC TEMPORARY STREAM CROSSING
[Symbol]	VTC VEHICLE TRACKING CONTROL

NOTES:

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- SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.

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1	1ST SUBMITTAL	02/25/21	DB
2	BID SET	04/07/21	DB

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

NOT FOR CONSTRUCTION

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

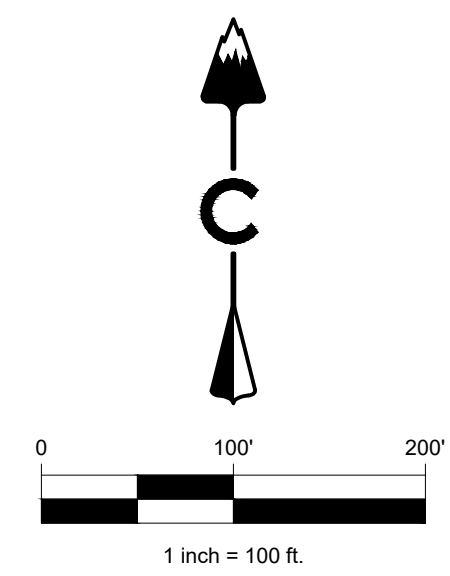
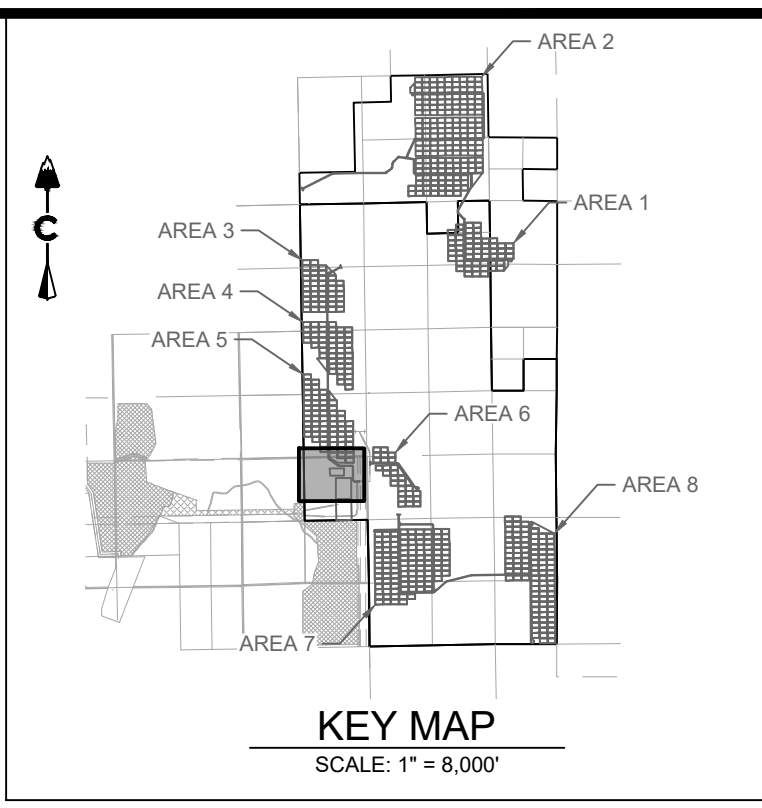
JOB NO. 20-194
 SHEET 15 OF 77

06/20/21 1:51 PM X:\30-194 PIKE SOLAR\CIVIL\CAD\PLANS\PLANS\TIGESCUGESC PLANS - INITIAL.DWG



SB DESIGN
 DISTURBED AREA-10 ACRES
 VOLUME-1,005 CY
 CREST-10"
 HOLE DIA-18"

show DD proposed contours
 and how they tie into existing



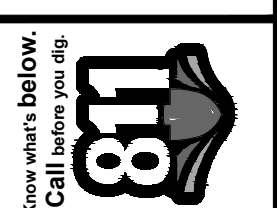
LEGEND

- 5280 PROPOSED MAJOR CONTOUR
- 5279 PROPOSED MINOR CONTOUR
- 5280 EXISTING MAJOR CONTOUR
- 5279 EXISTING MINOR CONTOUR
- PHASE BOUNDARY
- RCI REINFORCED CHECK DAM
- CWA CONCRETE WASHOUT AREA
- DD DIVERSION DITCH
- IP INLET PROTECTION
- RC ROCK SOCK
- SB SEDIMENT BASIN
- SCL SEDIMENT CONTROL LOG
- SM SEEDING
- SF SILT FENCE
- SSA STABILIZED STAGING AREA
- ST SEDIMENT TRAP
- TSC TEMPORARY STREAM CROSSING
- VTC VEHICLE TRACKING CONTROL

NOTES:

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PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 INITIAL (15 OF 24)

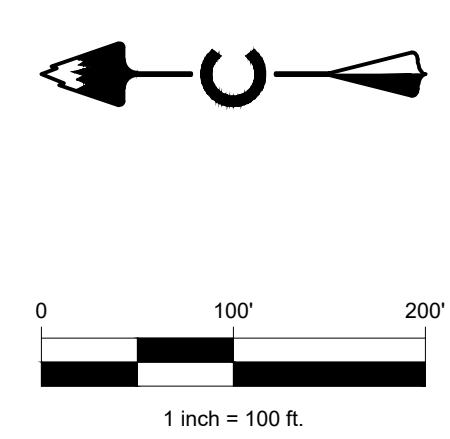
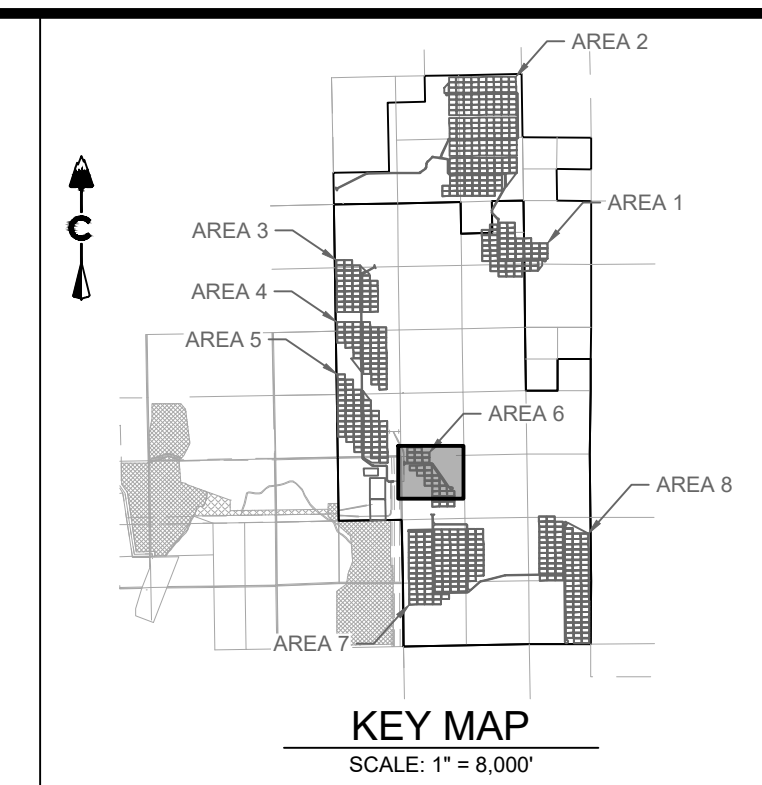
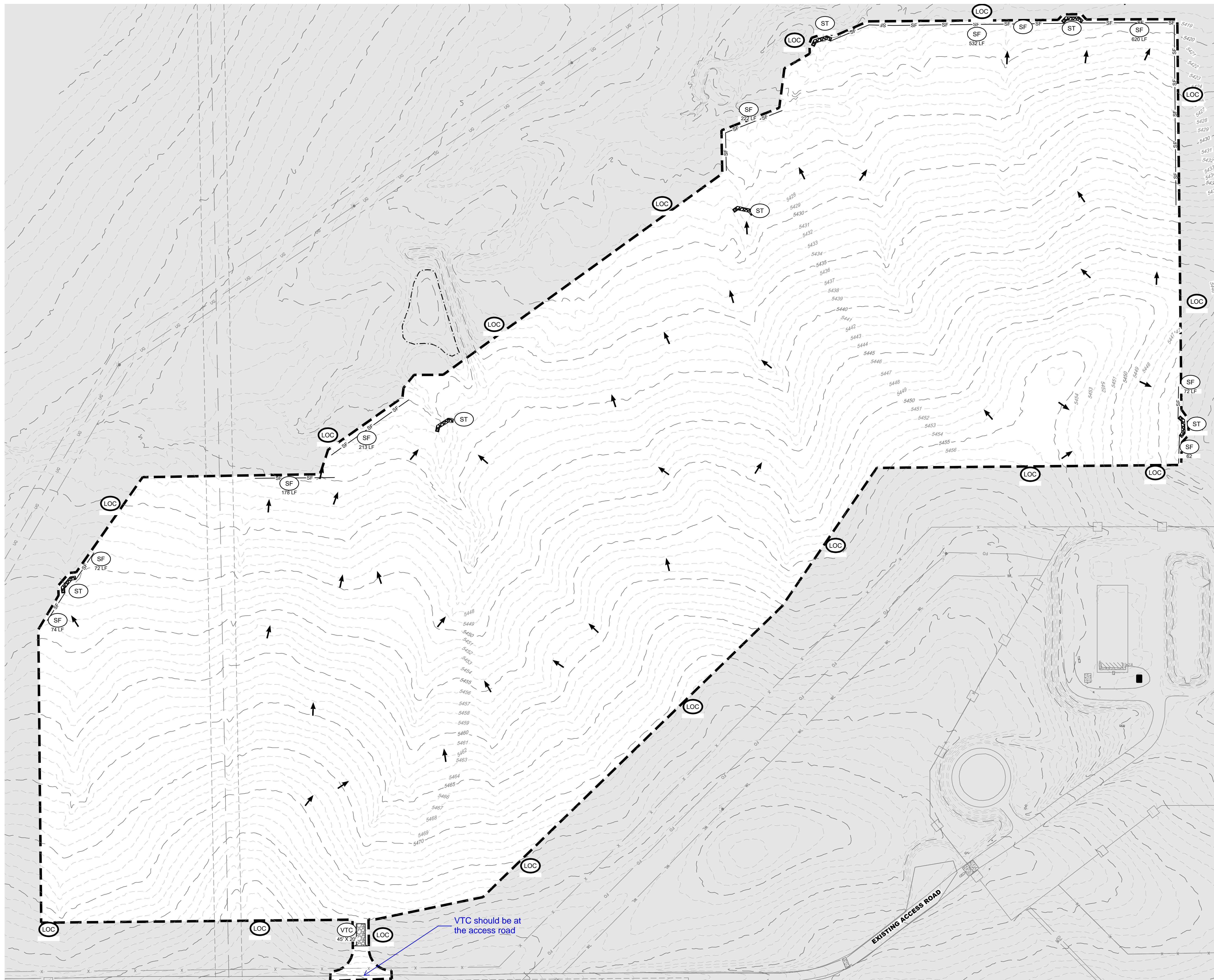
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JOB NO.
 20-194
 SHEET
 17 OF 77

POD 5 / BESS / SUBSTATION EARTHWORK
 CUT: 6,778 CY
 FILL: 6,705 CY
 TOTAL: 73 CY (CUT)

06/20/21 1:51 PM X:\20-194 PIKE SOLAR\CIVIL\CAD\PLANS\PLANS\TIGES\GEC\PLAN17 - INITIAL.DWG



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		PHASE BOUNDARY
	RCB	REINFORCED CHECK DAM
	CWA	CONCRETE WASHOUT AREA
	DD	DIVERSION DITCH
	IP	INLET PROTECTION
	RS	ROCK SOCK
	SB	SEDIMENT BASIN
	SCL	SEDIMENT CONTROL LOG
	SM	SEEDING
	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
	ST	SEDIMENT TRAP
	TSC	TEMPORARY STREAM CROSSING
	VTC	VEHICLE TRACKING CONTROL

NOTES:

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POD 6 EARTHWORK
CUT: 3,778 CY
FILL: 3,837 CY
TOTAL: 59 CY (FILL)

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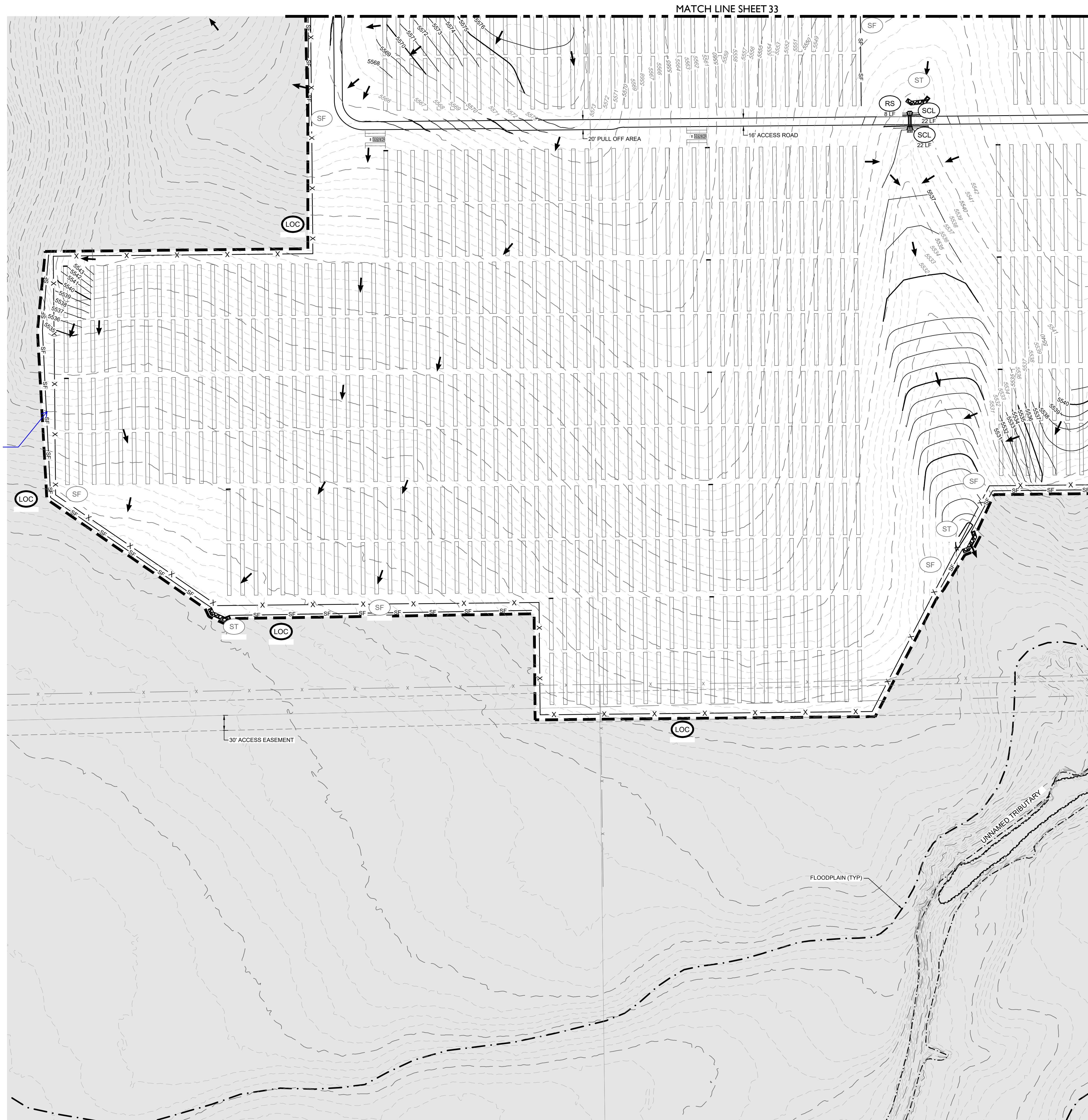
PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 INITIAL (16 OF 24)

DESIGNED BY: BB
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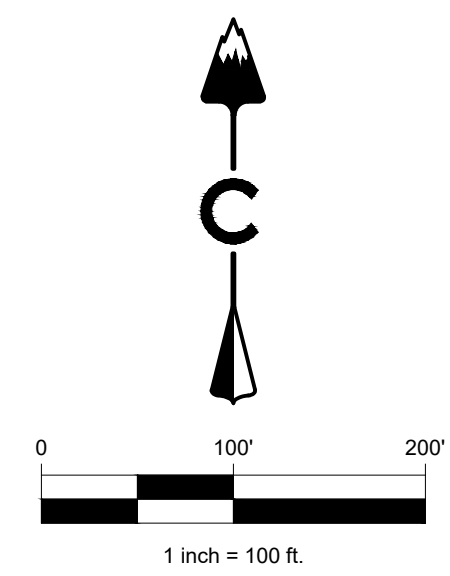
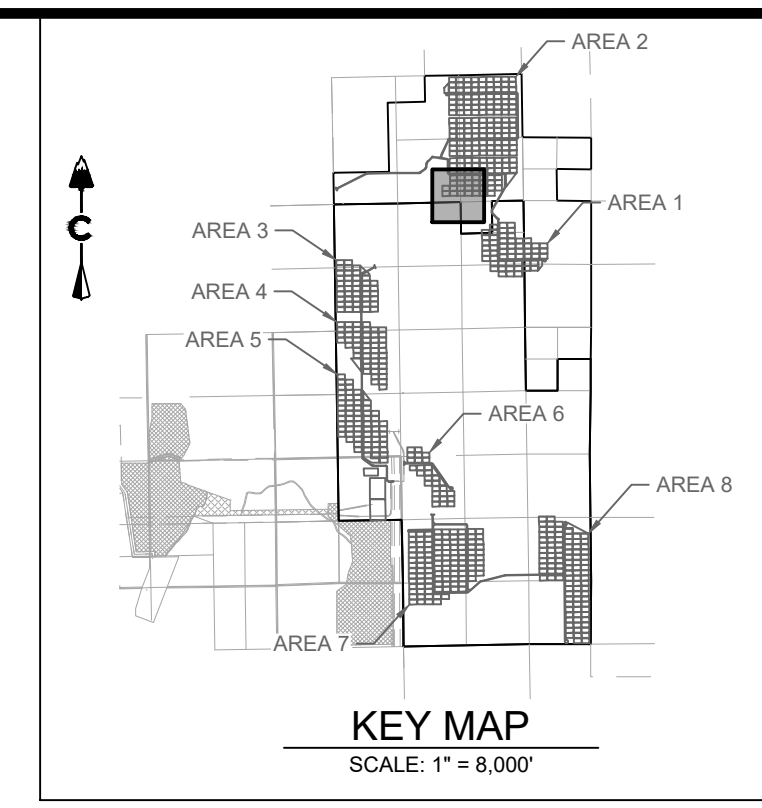
JOB NO.
 20-194
 SHEET
 18 OF 77

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Silt fence with J-hooks? (flow along silt fence is going to be channelized)



LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
[Symbol]	REINFORCED CHECK DAM (RCD)
[Symbol]	CONCRETE CHECKOUT AREA (CWA)
[Symbol]	DIVERSION DITCH (DD)
[Symbol]	INLET PROTECTION (IP)
[Symbol]	ROCK SOCK (RS)
[Symbol]	SEDIMENT BASIN (SB)
[Symbol]	SEDIMENT CONTROL LOG (SCL)
[Symbol]	SEEDING (SM)
[Symbol]	SILT FENCE (SF)
[Symbol]	STABILIZED STAGING AREA (SSA)
[Symbol]	SEDIMENT TRAP (ST)
[Symbol]	TEMPORARY STREAM CROSSING (TSC)
[Symbol]	VEHICLE TRACKING CONTROL (VTC)

NOTES:

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04/07/21	DB	

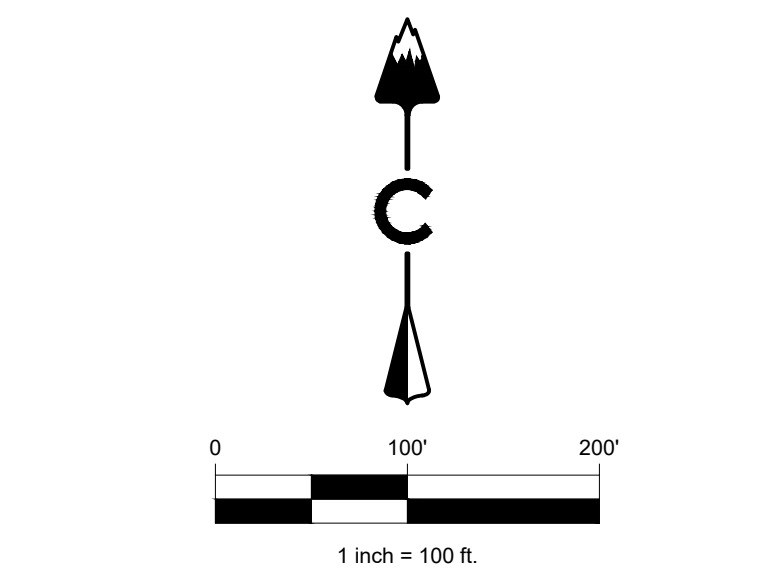
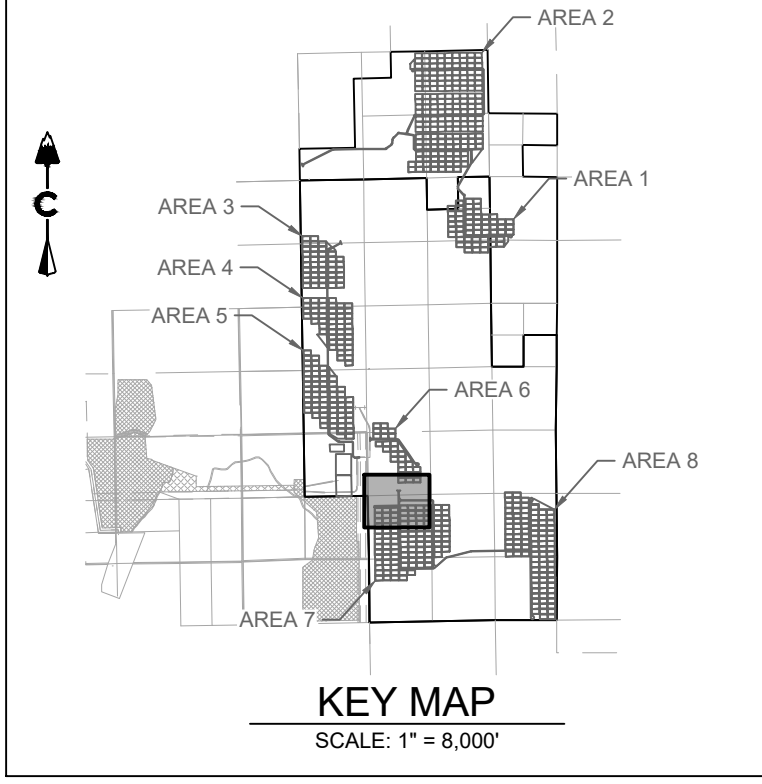
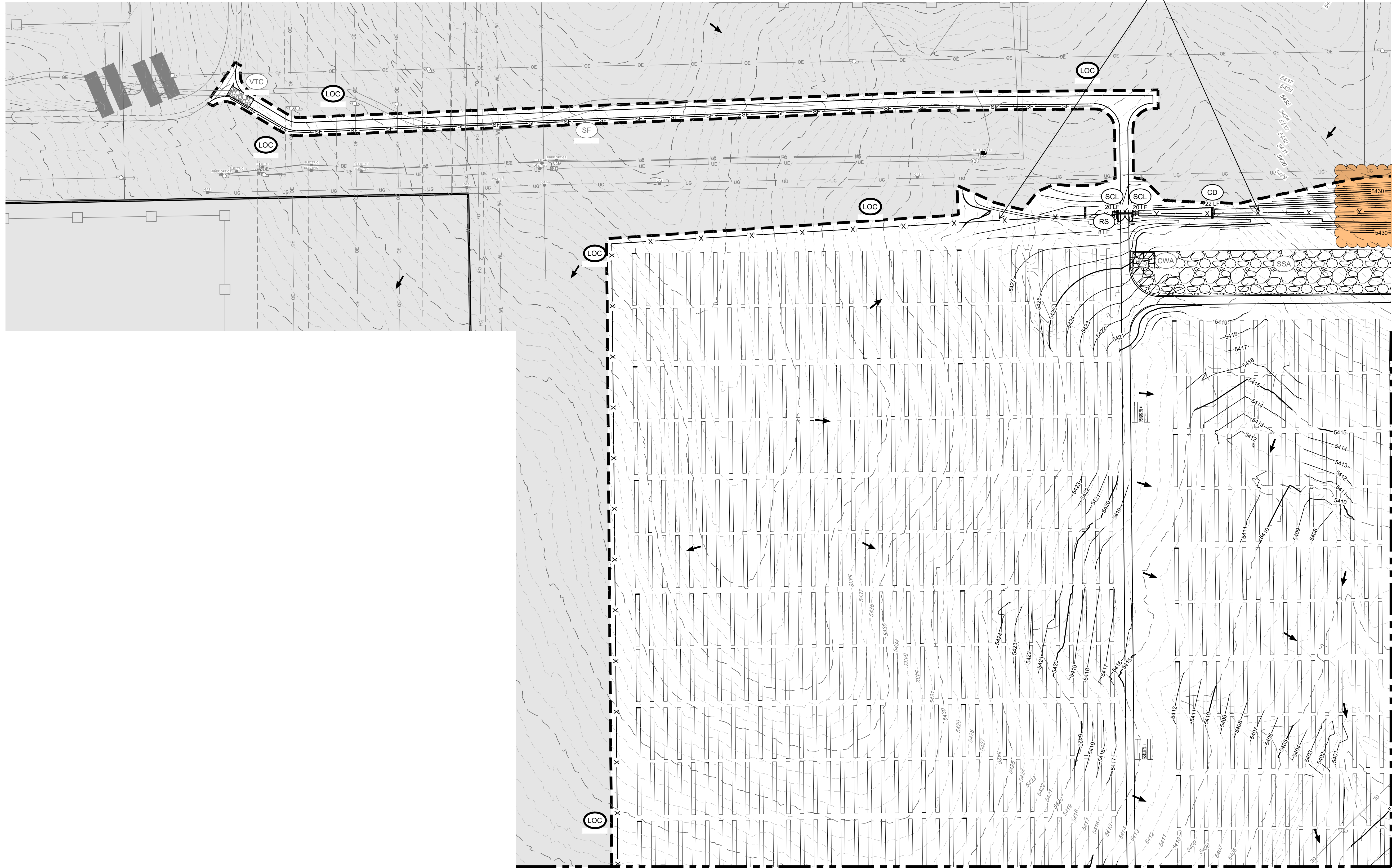
#	REVISION DESCRIPTION
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2	BID SET

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

NOT FOR CONSTRUCTION

DESIGNED BY: BB
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 CHECKED BY: DB

JOB NO.
 20-194
 SHEET
 33 OF 77



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		PHASE BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL

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PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
INTERIM (17 OF 24)

NOT FOR CONSTRUCTION

DESIGNED BY: BB
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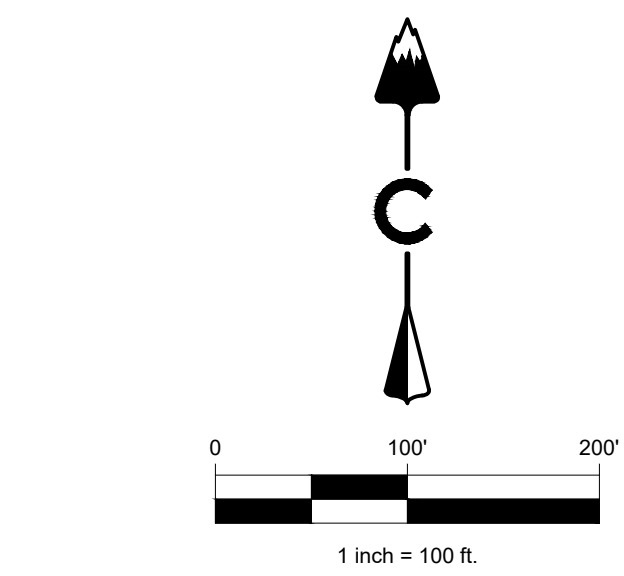
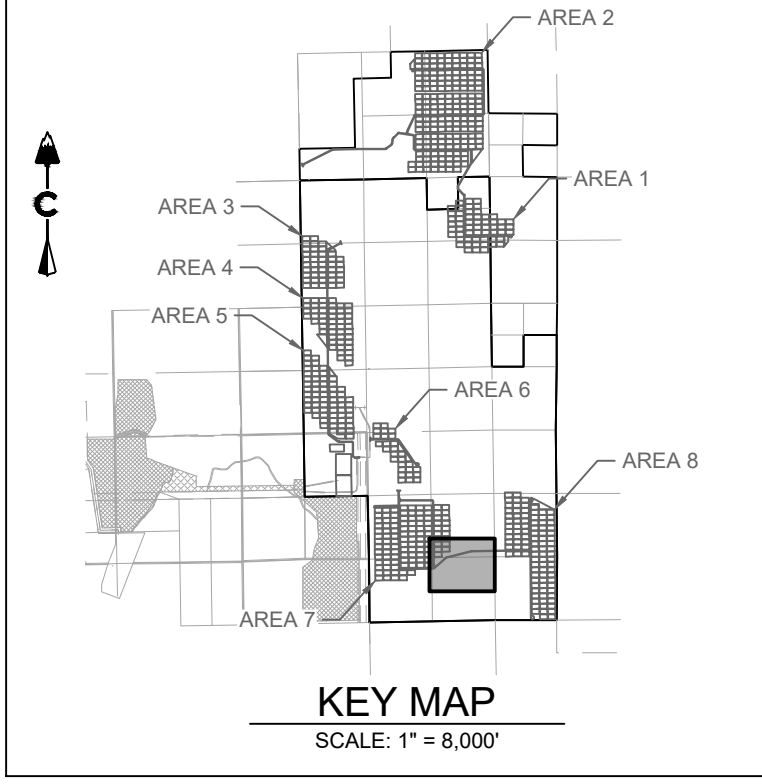
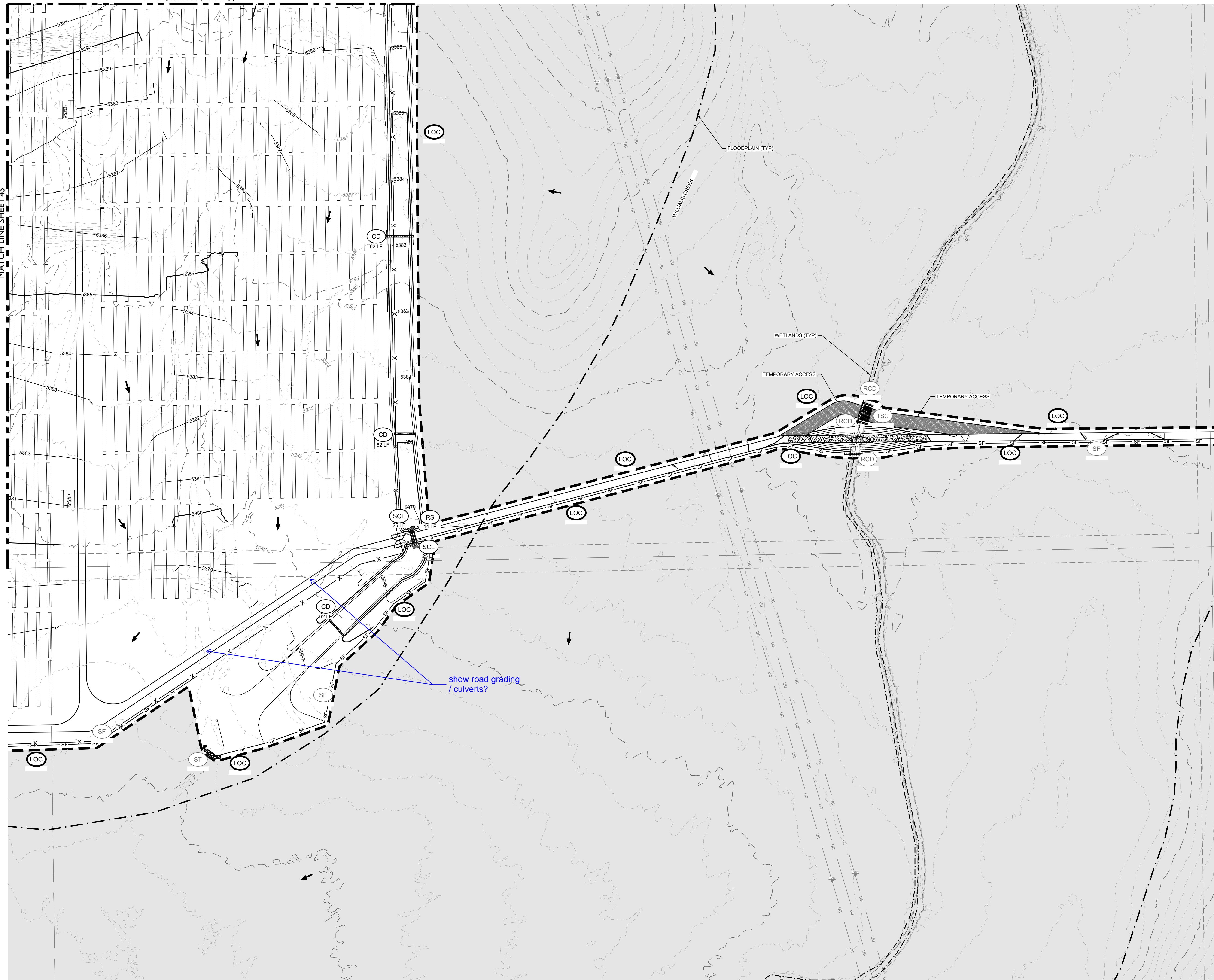
JOB NO.
20-194
SHEET
43 OF 77

06/20/21 2:04 PM X:\20-194 PIKE SOLAR\CIVIL\CAD\PLANS\PLANS\IGES\IGES\CPLAN\PLANS - INTERIM.DWG

MATCH LINE SHEET 45

MATCH LINE SHEET 44

MATCH LINE SHEET 47



LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
[Symbol]	RCD REINFORCED CHECK DAM
[Symbol]	CWA CONCRETE WASHOUT AREA
[Symbol]	DD DIVERSION DITCH
[Symbol]	IP INLET PROTECTION
[Symbol]	RS ROCK SOCK
[Symbol]	SB SEDIMENT BASIN
[Symbol]	SCL SEDIMENT CONTROL LOG
[Symbol]	SM SEEDING
[Symbol]	SF SILT FENCE
[Symbol]	SSA STABILIZED STAGING AREA
[Symbol]	ST SEDIMENT TRAP
[Symbol]	TSC TEMPORARY STREAM CROSSING
[Symbol]	VTC VEHICLE TRACKING CONTROL

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02/25/21	DB	1 1ST SUBMITTAL
04/07/21	DB	2 BID SET

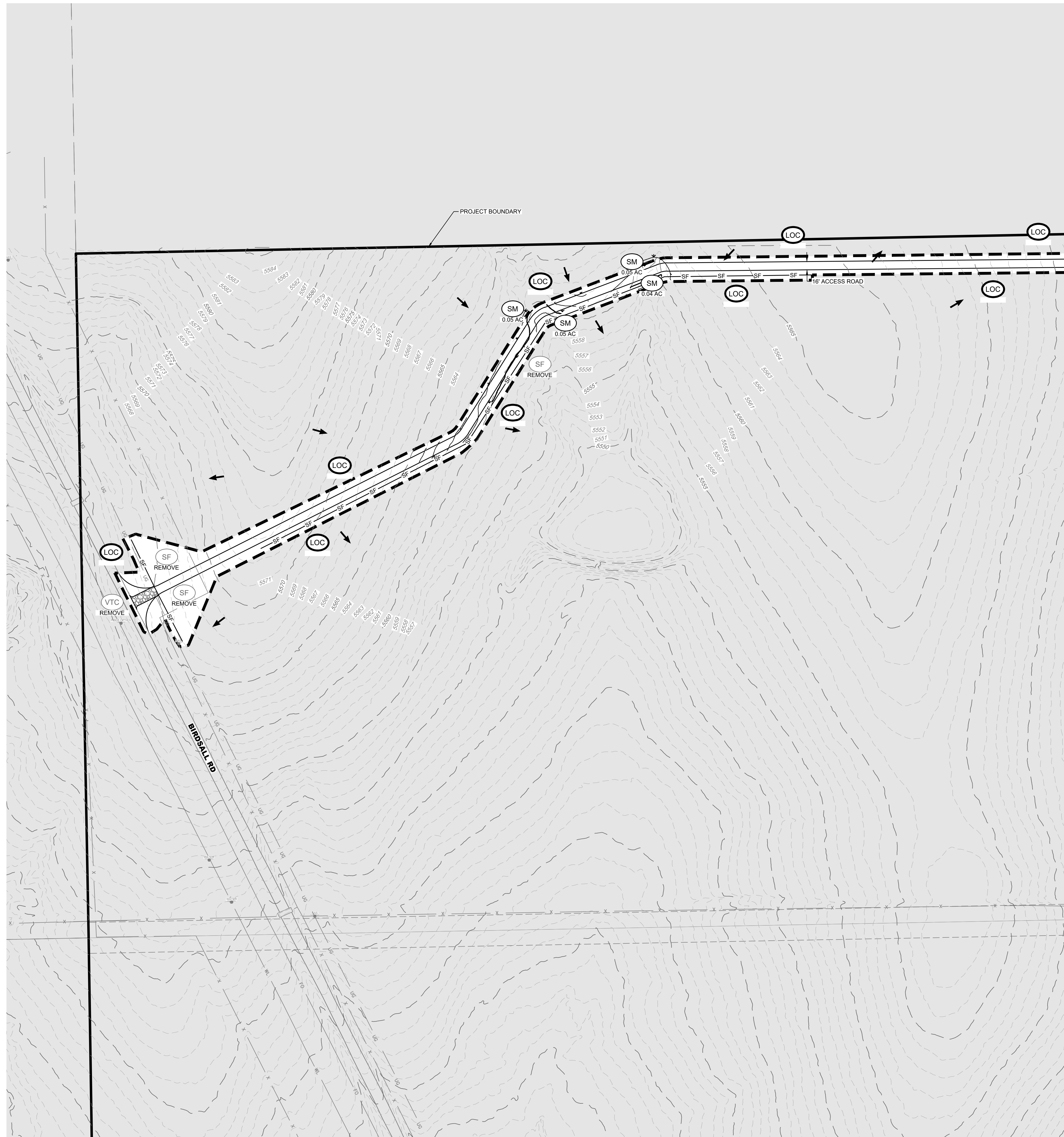
PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 INTERIM (20 OF 24)

NOT FOR CONSTRUCTION

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

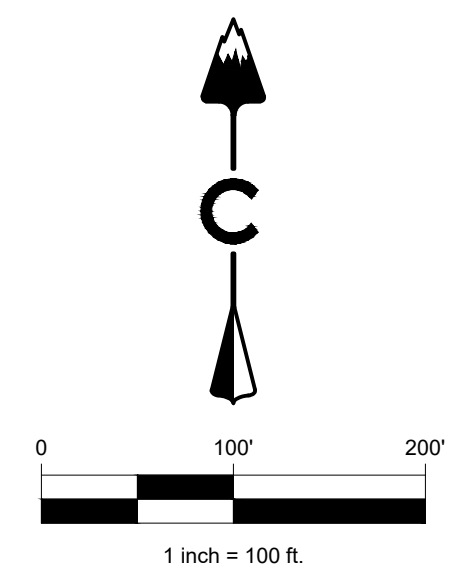
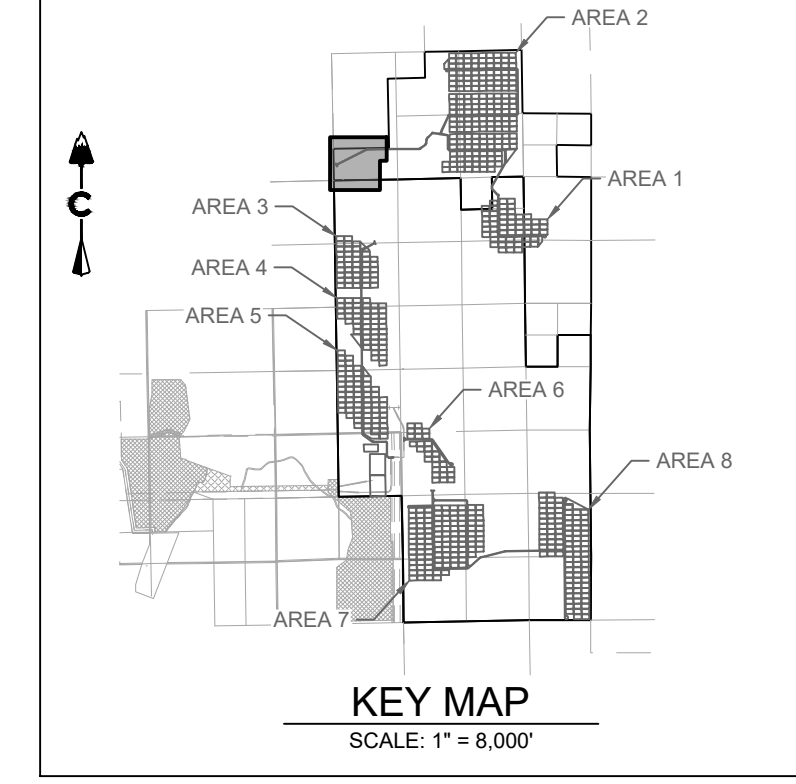
JOB NO.
20-194

SHEET
46 OF 77



Do not show temporary BMPs on Final sheets or make symbols on sheets gray like text

show permanent seeding/mulching areas, areas to be paved, gravel areas to remain, etc. with hatching



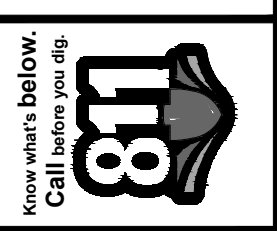
LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
[Symbol]	RCR REINFORCED CHECK DAM
[Symbol]	CWA CONCRETE WASHOUT AREA
[Symbol]	DD DIVERSION DITCH
[Symbol]	IP INLET PROTECTION
[Symbol]	RC ROCK SOCK
[Symbol]	SB SEDIMENT BASIN
[Symbol]	SCL SEDIMENT CONTROL LOG
[Symbol]	SM SEEDING
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[Symbol]	SSA STABILIZED STAGING AREA
[Symbol]	ST SEDIMENT TRAP
[Symbol]	TSC TEMPORARY STREAM CROSSING
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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	02/25/21	DB
2	BID SET	04/07/21	DB

PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (1 OF 24)

NOT FOR CONSTRUCTION

DESIGNED BY: BB
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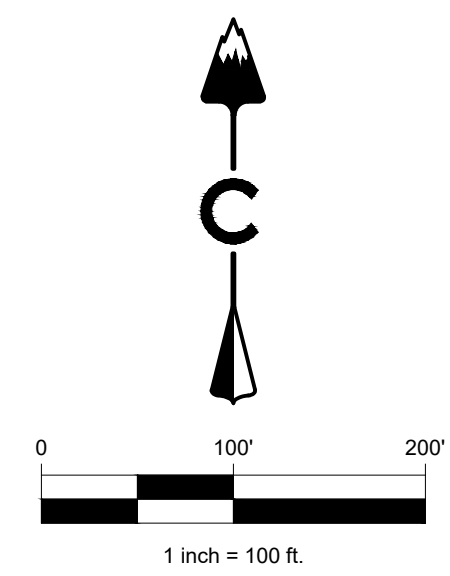
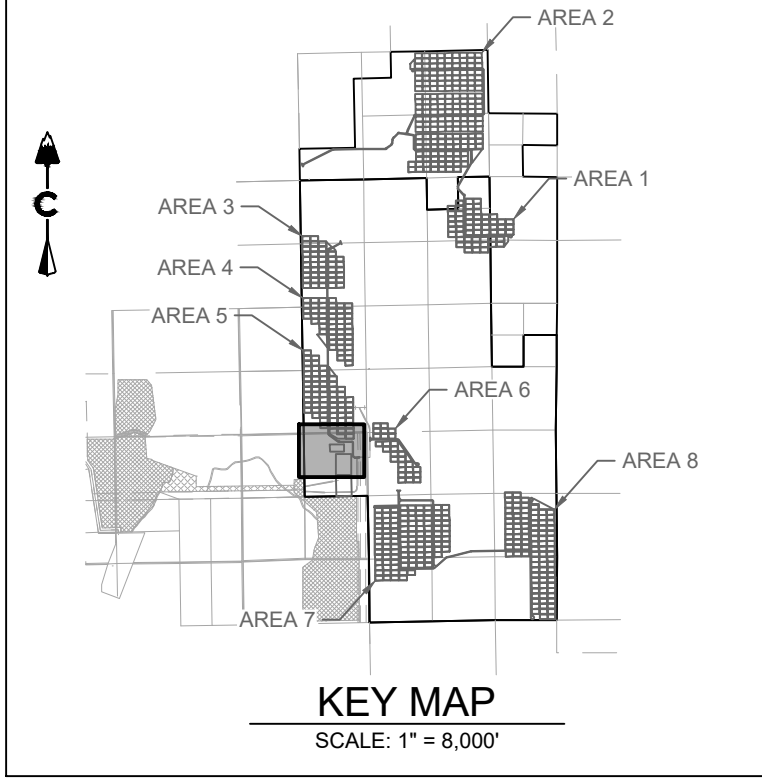
JOB NO.
20-194

SHEET
51 OF 77



SB DESIGN
 DISTURBED AREA-10 ACRES
 VOLUME 1,005 CY
 CREST 10"
 HOLE DIA. 18"

remove and seed/mulch area

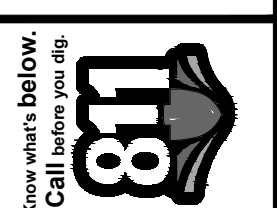


LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - -	PHASE BOUNDARY
[Symbol]	RCR REINFORCED CHECK DAM
[Symbol]	CWA CONCRETE WASHOUT AREA
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PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (15 OF 24)

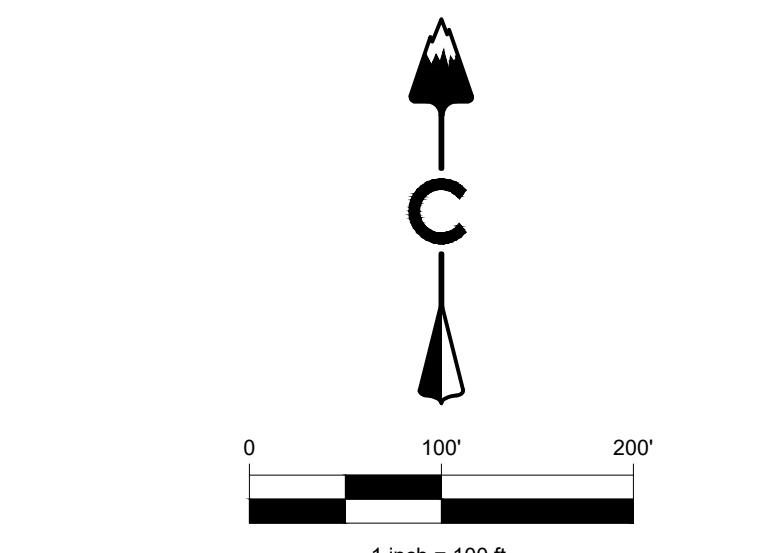
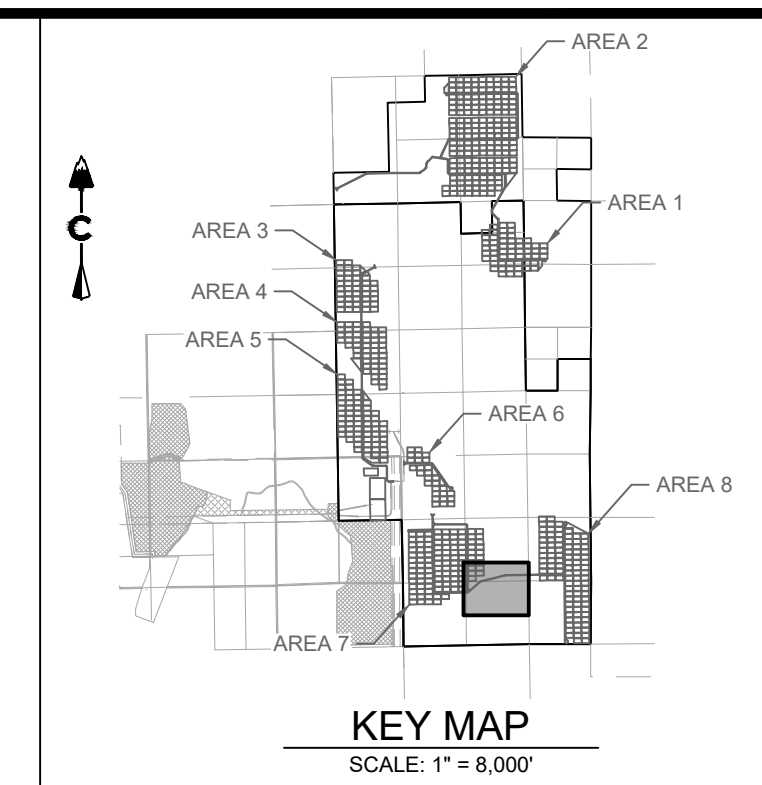
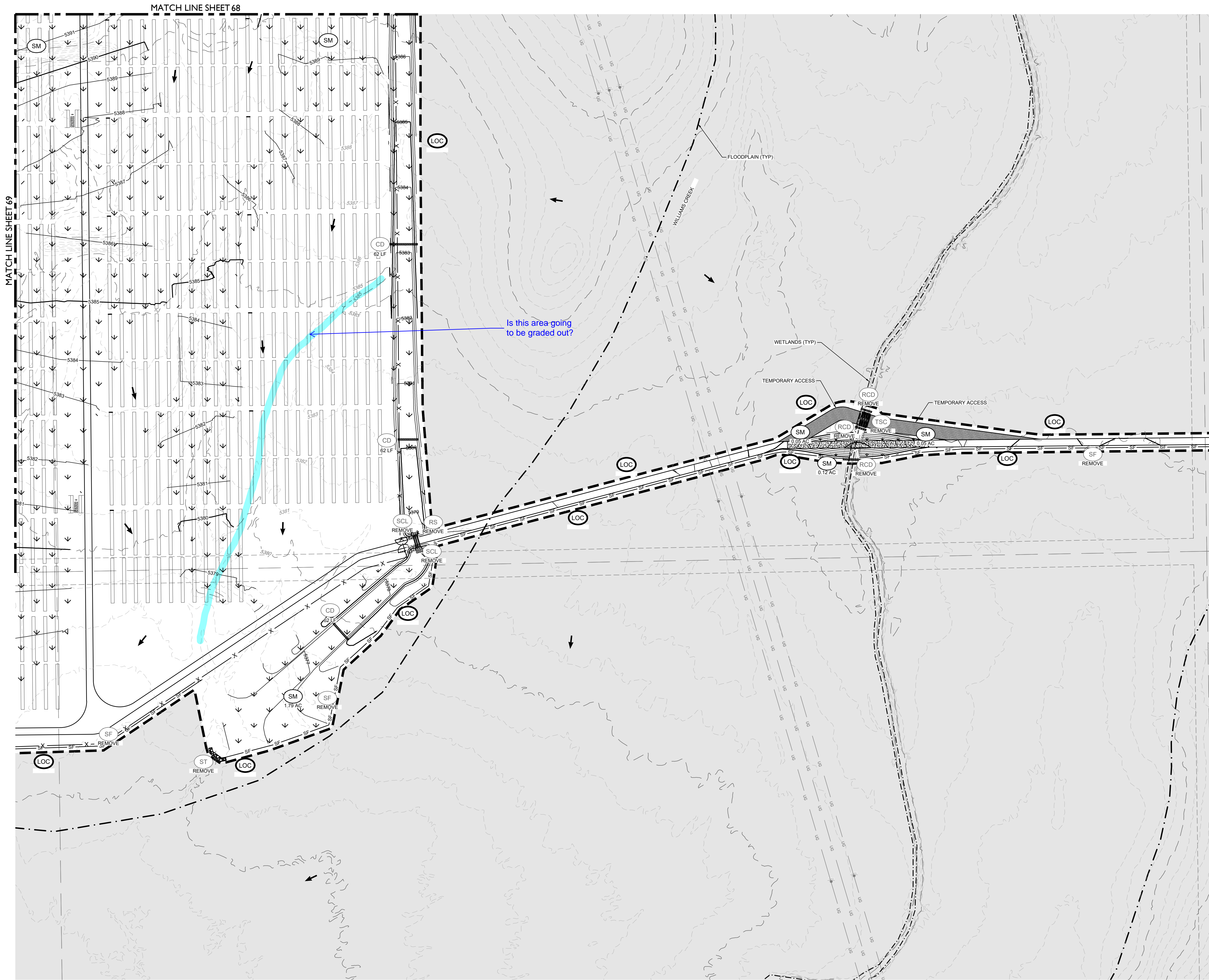
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DESIGNED BY: BB
 DRAWN BY: SD
 CHECKED BY: DB

JOB NO.
 20-194

SHEET
 65 OF 77

05/20/21 2:16 PM X:\20-194 PIKE SOLAR\CIVIL\CAD\PLANS\PLANS\TIGES\GEC\PLANS-FINAL.DWG



LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
- - - - -	PHASE BOUNDARY
[Symbol]	RCD REINFORCED CHECK DAM
[Symbol]	CWA CONCRETE WASHOUT AREA
[Symbol]	DD DIVERSION DITCH
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PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (20 OF 24)

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

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20-194
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70 OF 77

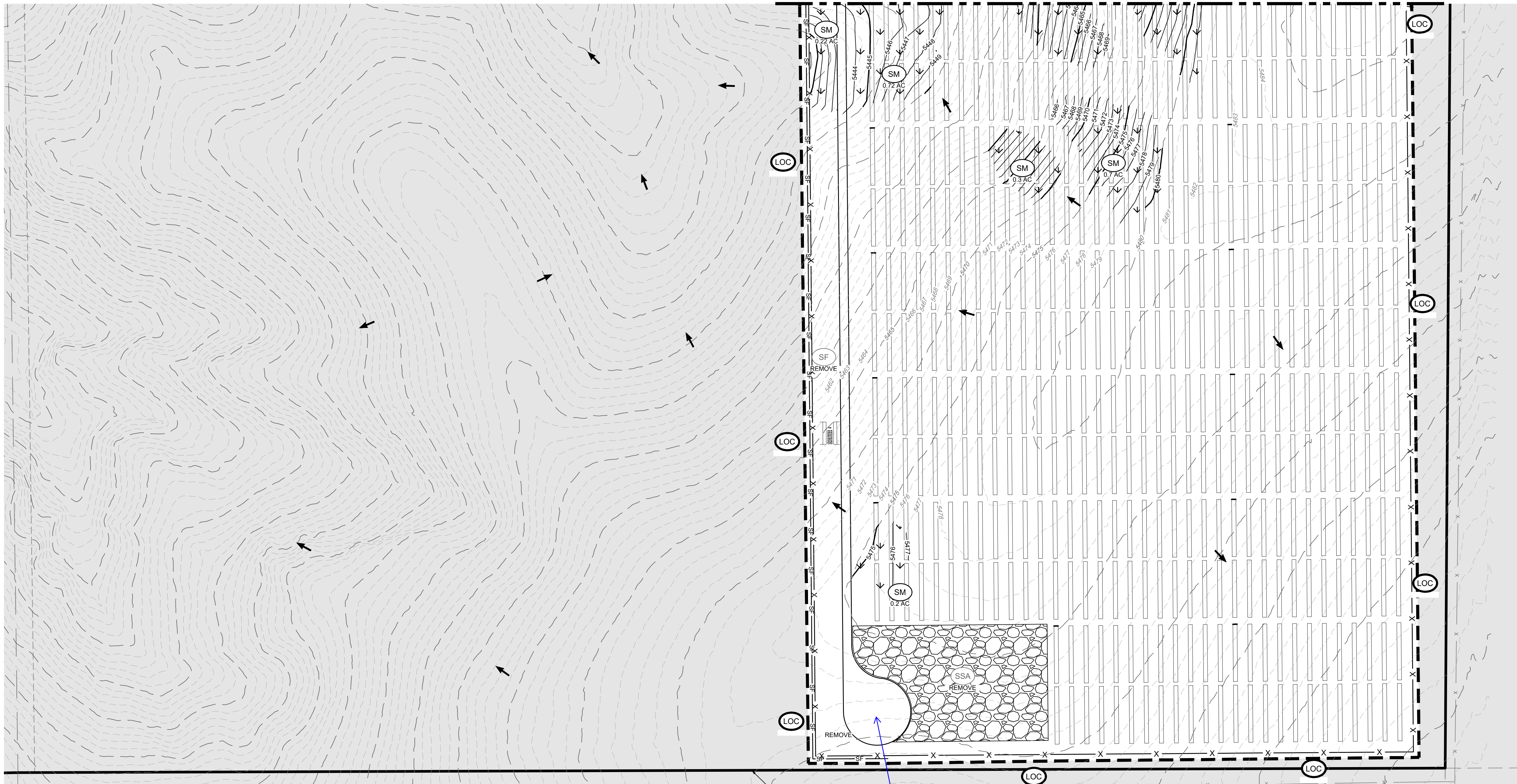
LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

DATE BY
02/25/21 DB
04/07/21 DB

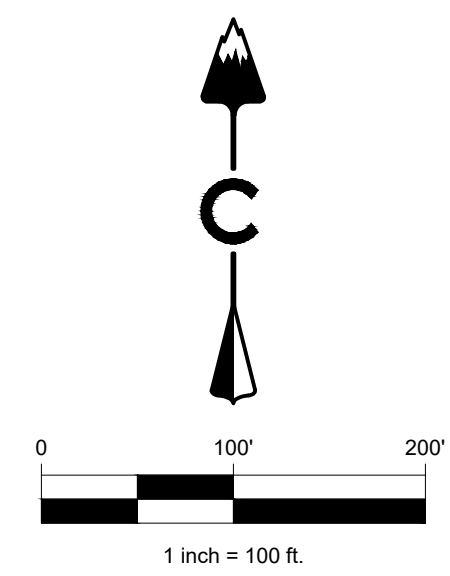
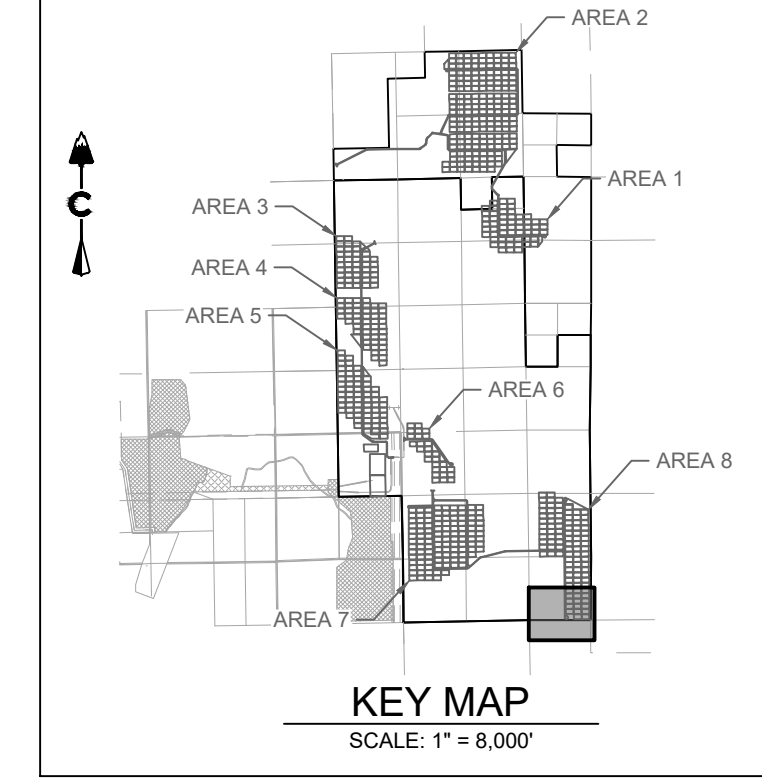
REVISION DESCRIPTION
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MATCH LINE SHEET 72



Please provide hatching for permanent access roads



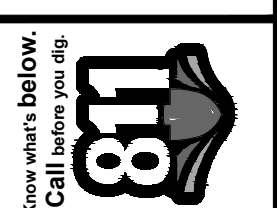
LEGEND

- 5280 PROPOSED MAJOR CONTOUR
- 5279 PROPOSED MINOR CONTOUR
- 5280 EXISTING MAJOR CONTOUR
- 5279 EXISTING MINOR CONTOUR
- PHASE BOUNDARY
- RCD REINFORCED CHECK DAM
- CWA CONCRETE WASHOUT AREA
- DD DIVERSION DITCH
- IP INLET PROTECTION
- RC ROCK SOCK
- SB SEDIMENT BASIN
- SCL SEDIMENT CONTROL LOG
- SM SEEDING
- SF SILT FENCE
- SSA STABILIZED STAGING AREA
- 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.
3. 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.
4. SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.

CORE CONSULTANTS, INC.
 3473 S. BROADWAY
 DENVER, CO 80113
 303.703.4444
 LIVEYOURCORE.COM



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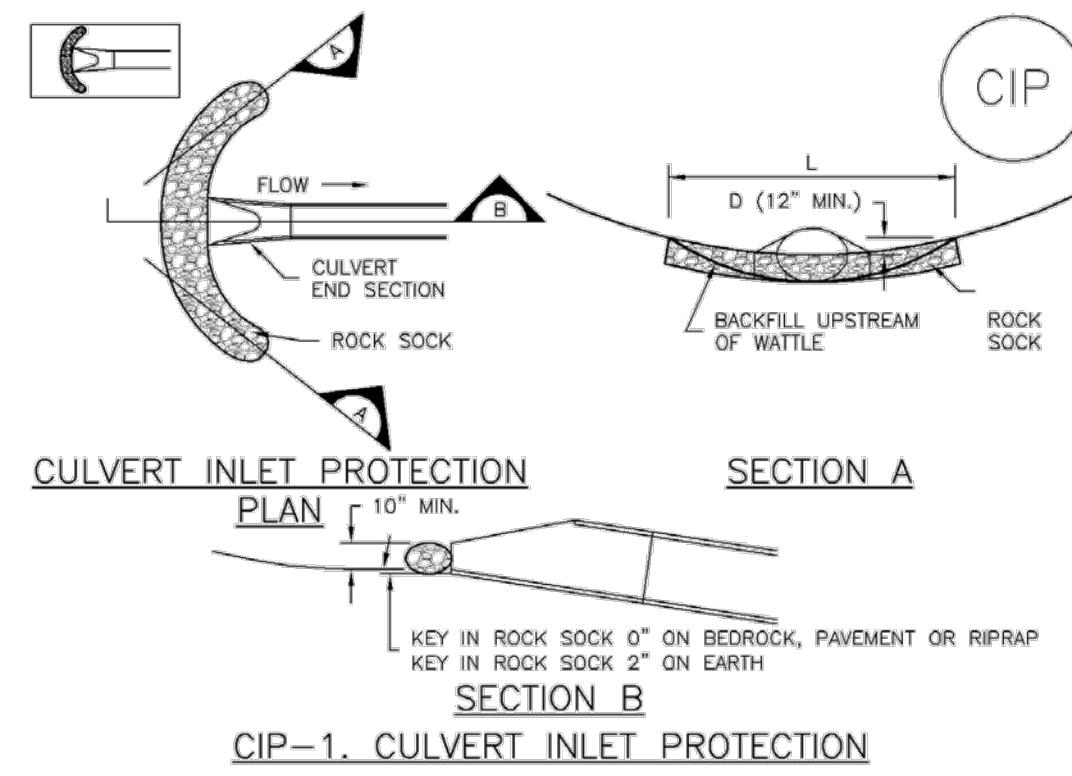
PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (23 OF 24)

NOT FOR CONSTRUCTION

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

JOB NO.
20-194
 SHEET
73 OF 77

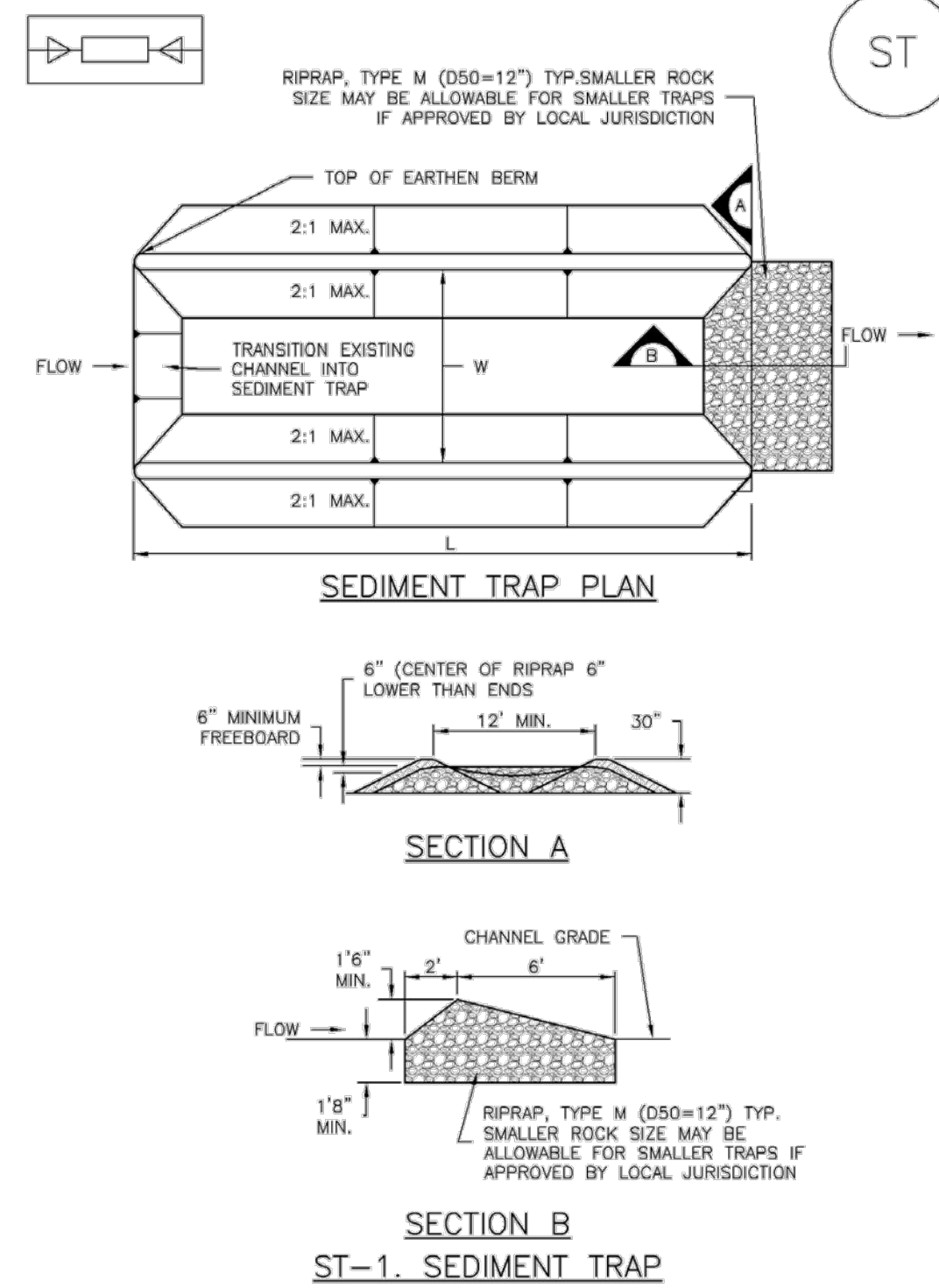
Inlet Protection (IP) SC-6



- 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 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.

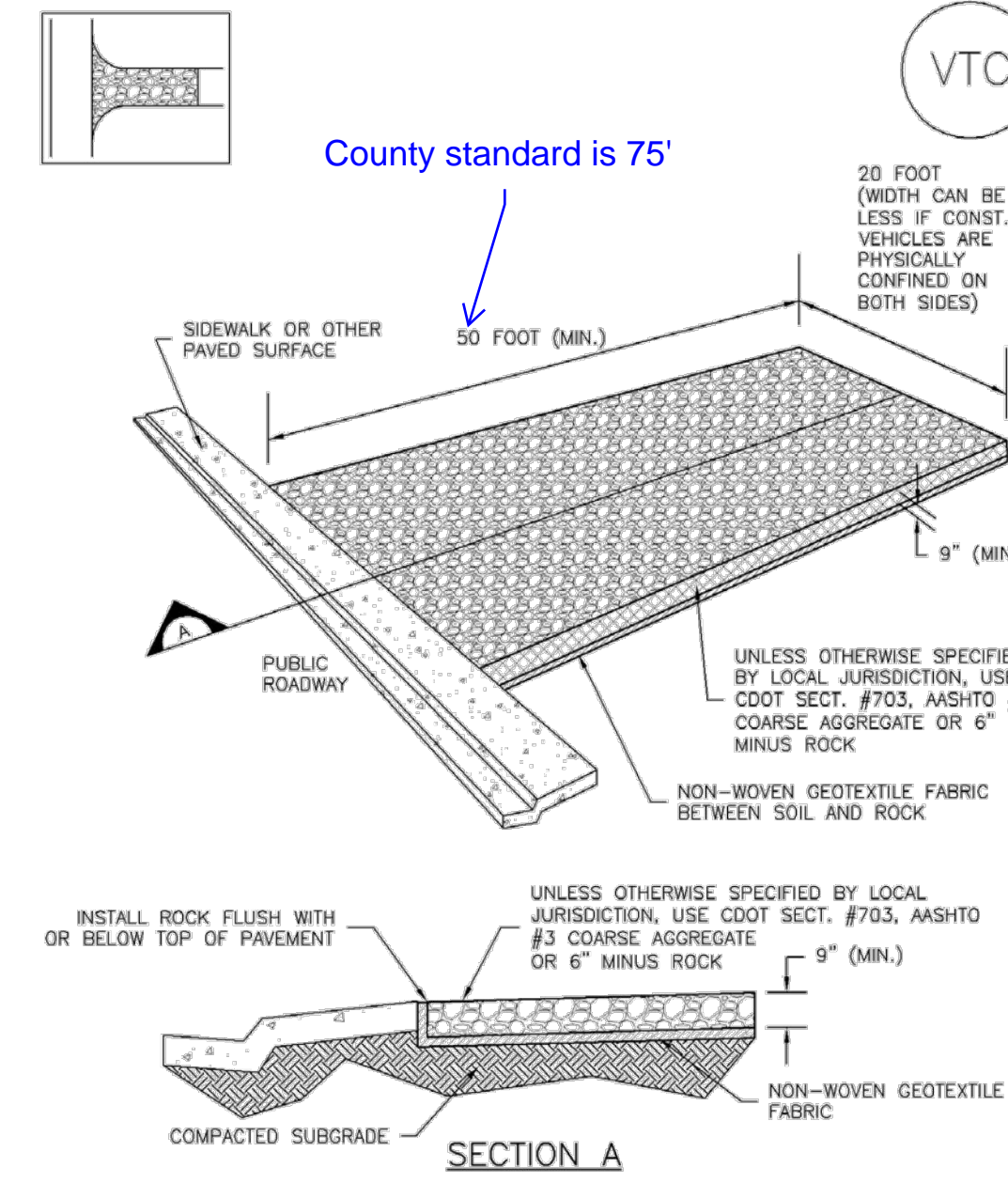
August 2013 Urban Drainage and Flood Control District IP-7
Urban Storm Drainage Criteria Manual Volume 3

SC-8 Sediment Trap (ST)



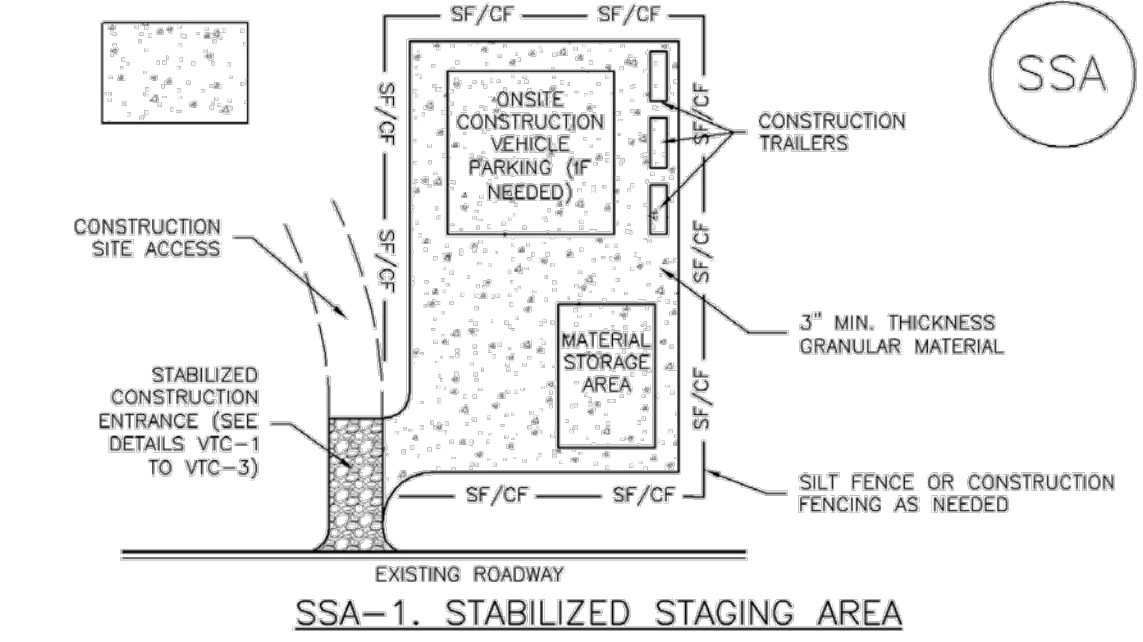
ST-2 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

Vehicle Tracking Control (VTC) SM-4



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

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

SC-6 Inlet Protection (IP)

- GENERAL INLET PROTECTION INSTALLATION NOTES**
- SEE PLAN VIEW FOR: -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 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.
- NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SNMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.
- NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

IP-8 August 2013 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

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 UPWARD-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 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.

ST-3 November 2010 Urban Drainage and Flood Control District
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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)

VTC-6 November 2010 Urban Drainage and Flood Control District
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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)
- Provide details of temporary sediment basin including riser pipe perforation sizing, number of rows, required volume, location of outlet and spillway, and tributary area to the sediment basin.

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

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