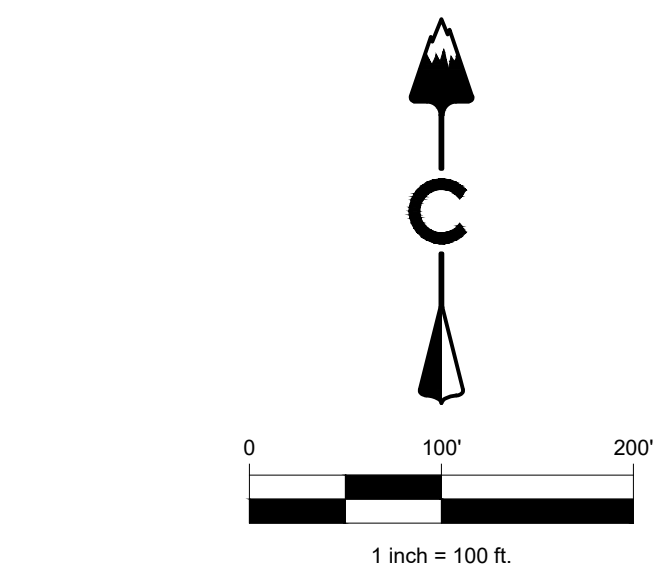
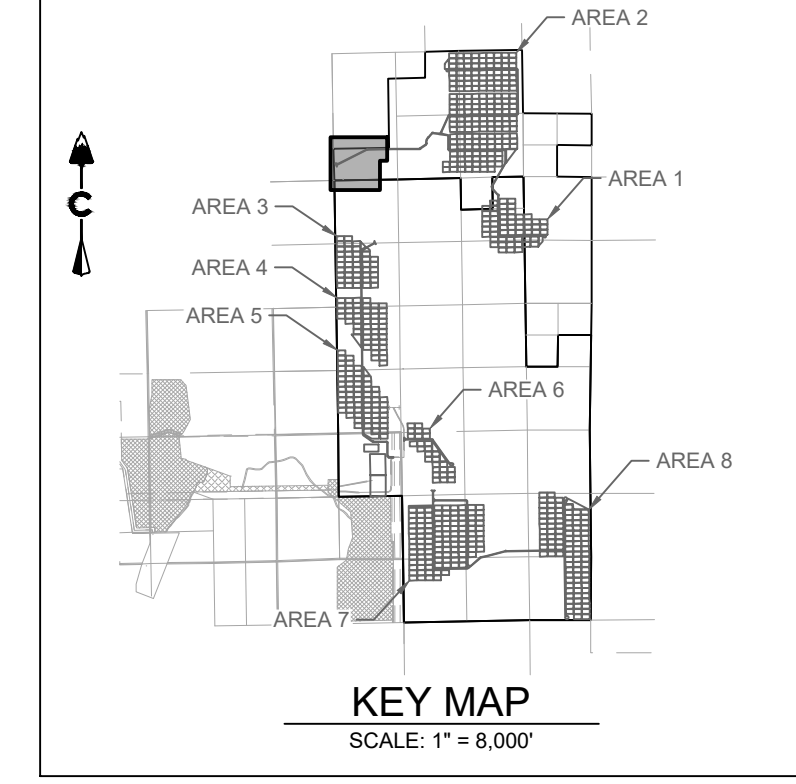


MATCHLINE SHEET 52



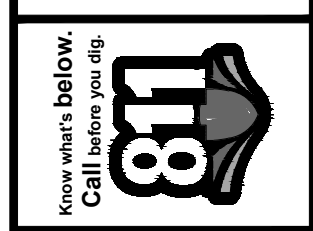
LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	RCD	REINFORCED CHECK DAM
	CWA	CONCRETE WASHOUT AREA
	DD	DIVERSION DITCH
	IP	INLET PROTECTION
	RS	ROCK SOCK
	SB	SEDIMENT BASIN
	OP	OUTLET PROTECTION
	SCL	SEDIMENT CONTROL LOG
	SM	SEEDING
	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
	ST	SEDIMENT TRAP
	TSC	TEMPORARY STREAM CROSSING
	VTC	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
	X	PERMANENT FENCE
		EXISTING SECTION LINE
		POND OVERFLOW ROUTE

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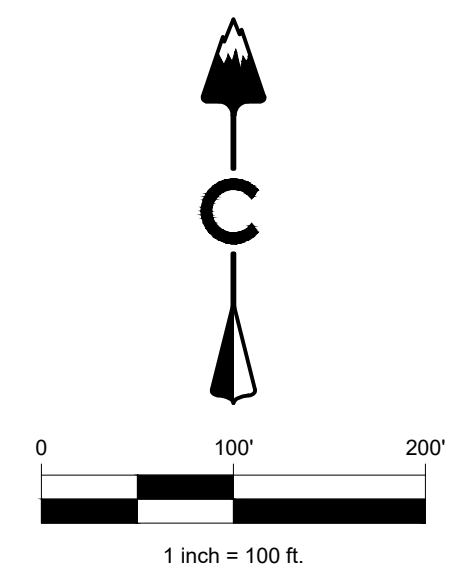
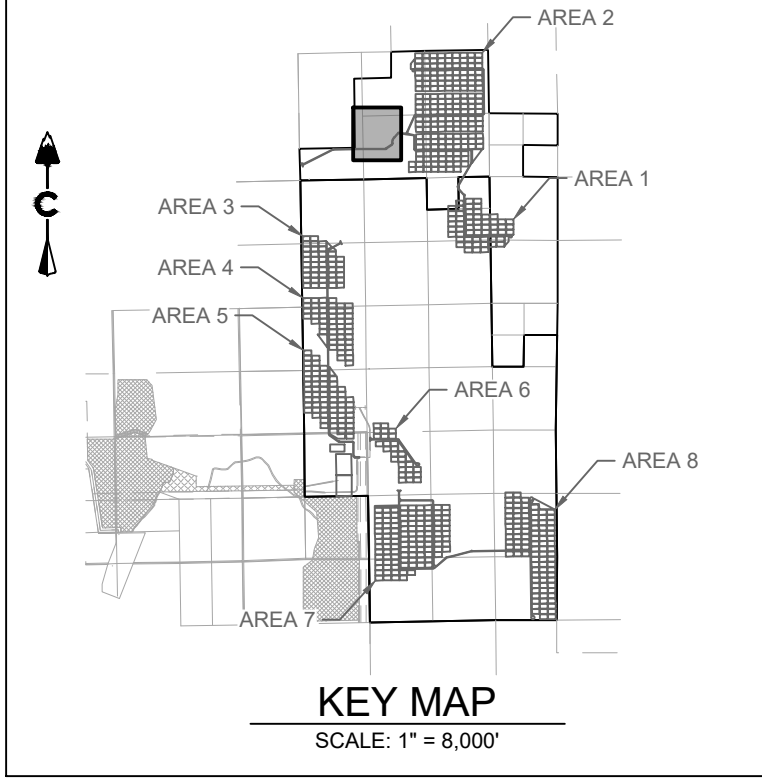
REVISION SET
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PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (1 OF 24)



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

JOB NO.
 20-194
 SHEET
 51 OF 83



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	RCD	REINFORCED CHECK DAM
	CWA	CONCRETE WASHOUT AREA
	DD	DIVERSION DITCH
	IP	INLET PROTECTION
	RS	ROCK SOCK
	SB	SEDIMENT BASIN
	OP	OUTLET PROTECTION
	SCL	SEDIMENT CONTROL LOG
	SM	SEEDING
	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
	ST	SEDIMENT TRAP
	TSC	TEMPORARY STREAM CROSSING
	VTC	VEHICLE TRACKING CONTROL
	PSC	PERMANENT STREAM CROSSING
	AAR	AGREGATE ACCESS ROAD
	PF	PERMANENT FENCE
	POFR	POND OVERFLOW ROUTE

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



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

JOB NO.
20-194
SHEET
52 OF 83

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LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

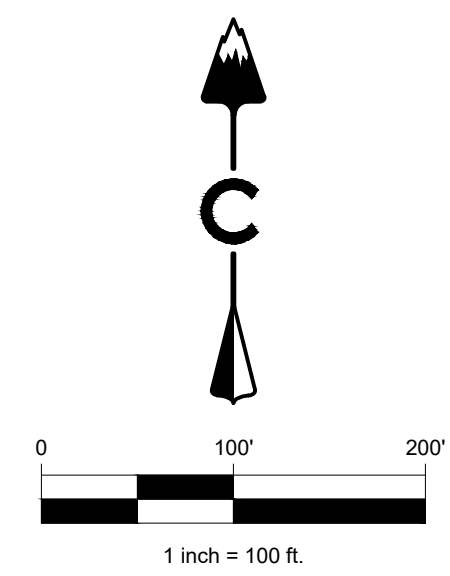
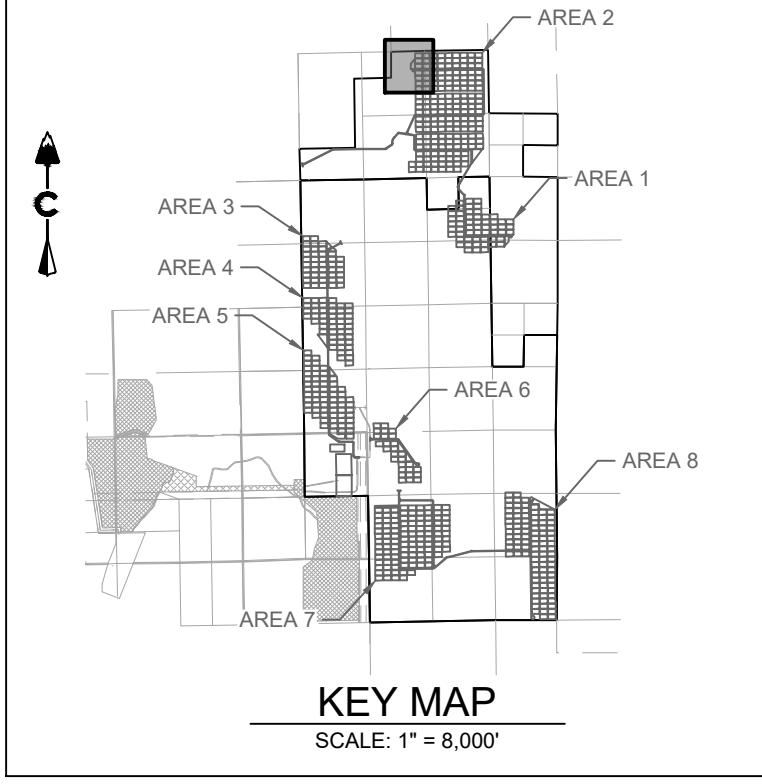




NOT A PART
OWNER: BROADACRE LANDFILL INC
PARCEL: 5600000130

NOT A PART
OWNER: CORUNDUM PROPERTIES V LLC
PARCEL: 5600000153

REMOVE
SE DESIGN
DISTURBED AREA — 15 ACRES
VOLUME — 1,507 CY
CREST — 22"
HOLE DIA. — 1 1/2"
NUMBER OF HOLES — 10
NUMBER OF COLUMNS — 2
SEE SHEET 83 FOR DETAIL



LEGEND

— 5280	PROPOSED MAJOR CONTOUR
— 5279	PROPOSED MINOR CONTOUR
— 5280	EXISTING MAJOR CONTOUR
— 5279	EXISTING MINOR CONTOUR
---	LIMITS OF CONSTRUCTION
---	CUT/FILL BOUNDARY
---	REINFORCED CHECK DAM (RCD)
---	CONCRETE WASHOUT AREA (CWA)
---	DIVERSION DITCH (DD)
---	INLET PROTECTION (IP)
---	ROCK SOCK (RS)
---	SEDIMENT BASIN (SB)
---	OUTLET PROTECTION (OP)
---	SEDIMENT CONTROL LOG (SCL)
---	SEEDING (SM)
---	SILT FENCE (SF)
---	STABILIZED STAGING AREA (SSA)
---	SEDIMENT TRAP (ST)
---	TEMPORARY STREAM CROSSING (TSC)
---	VEHICLE TRACKING CONTROL (VTC)
---	PERMANENT STREAM CROSSING
---	AGREGATE ACCESS ROAD
---	PERMANENT FENCE
---	EXISTING SECTION LINE
---	POND OVERFLOW ROUTE

NOTES:

1. SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES.
2. SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.
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DATE	BY	REVISION
	08/25/21	RH
#	REVISION	DESCRIPTION
	1	SIGNATURE SET

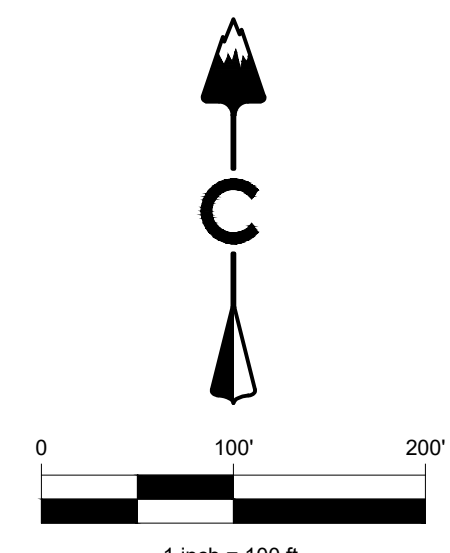
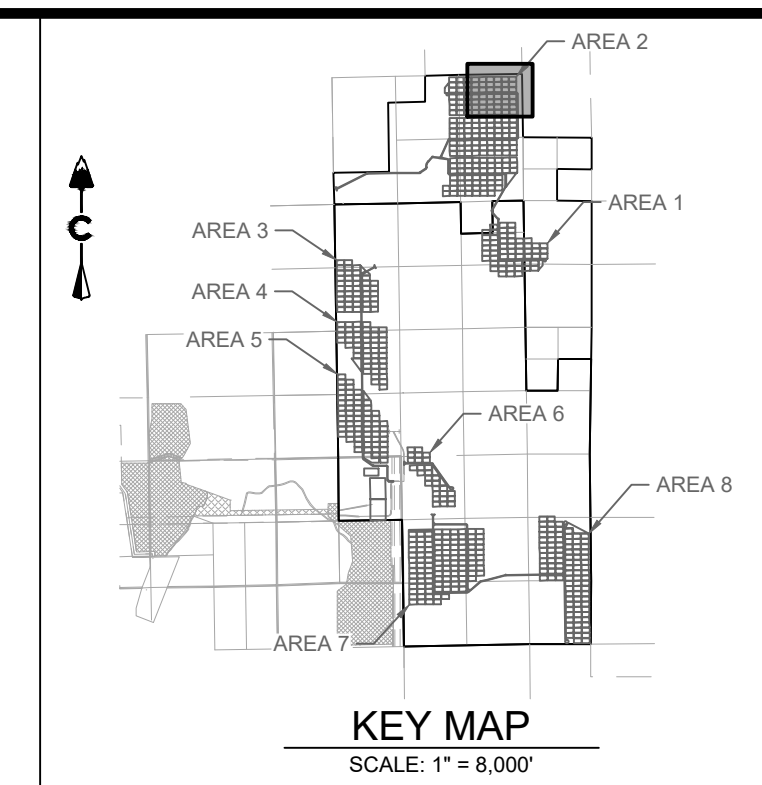
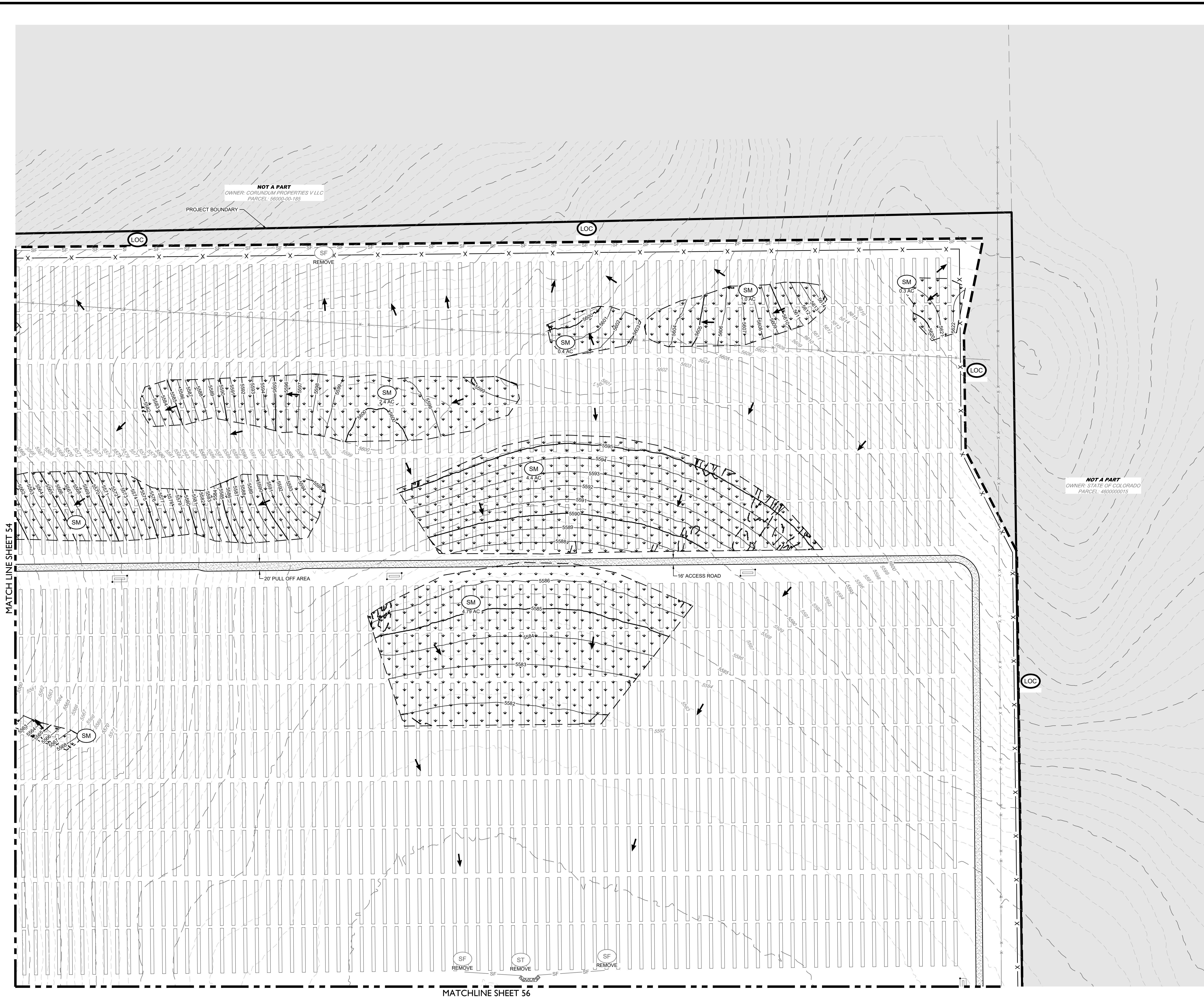
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PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (3 OF 24)



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

JOB NO.
20-194
SHEET
53 OF 83



LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
---	LIMITS OF CONSTRUCTION
---	CUT/FILL 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]	(OP) OUTLET PROTECTION
[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
[Symbol]	PERMANENT STREAM CROSSING
[Symbol]	AGREGATE ACCESS ROAD
[Symbol]	PERMANENT FENCE
[Symbol]	EXISTING SECTION LINE
[Symbol]	POND OVERFLOW ROUTE

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811
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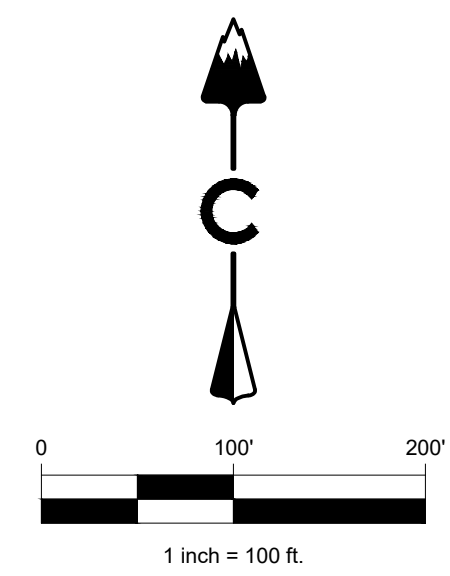
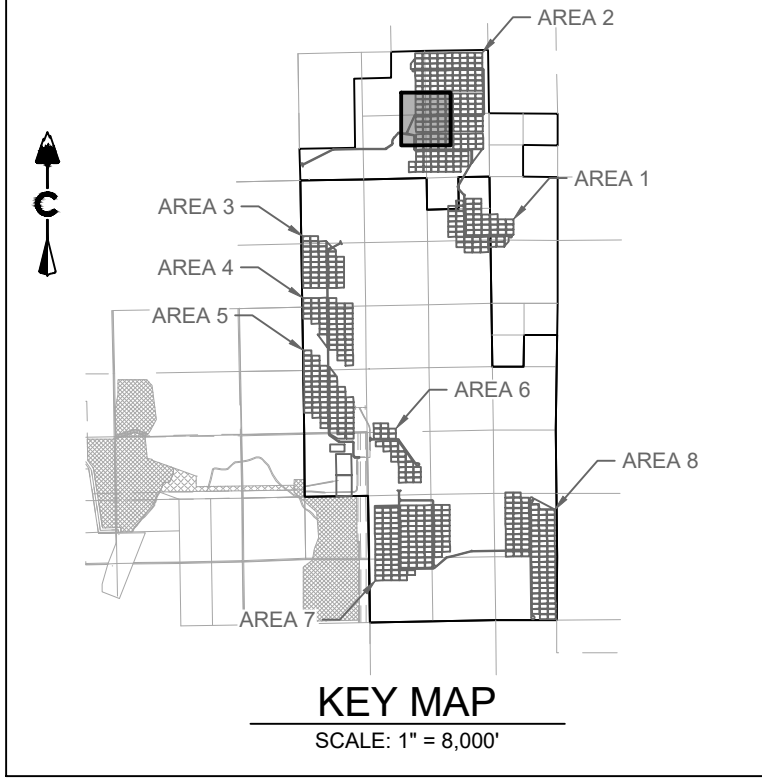
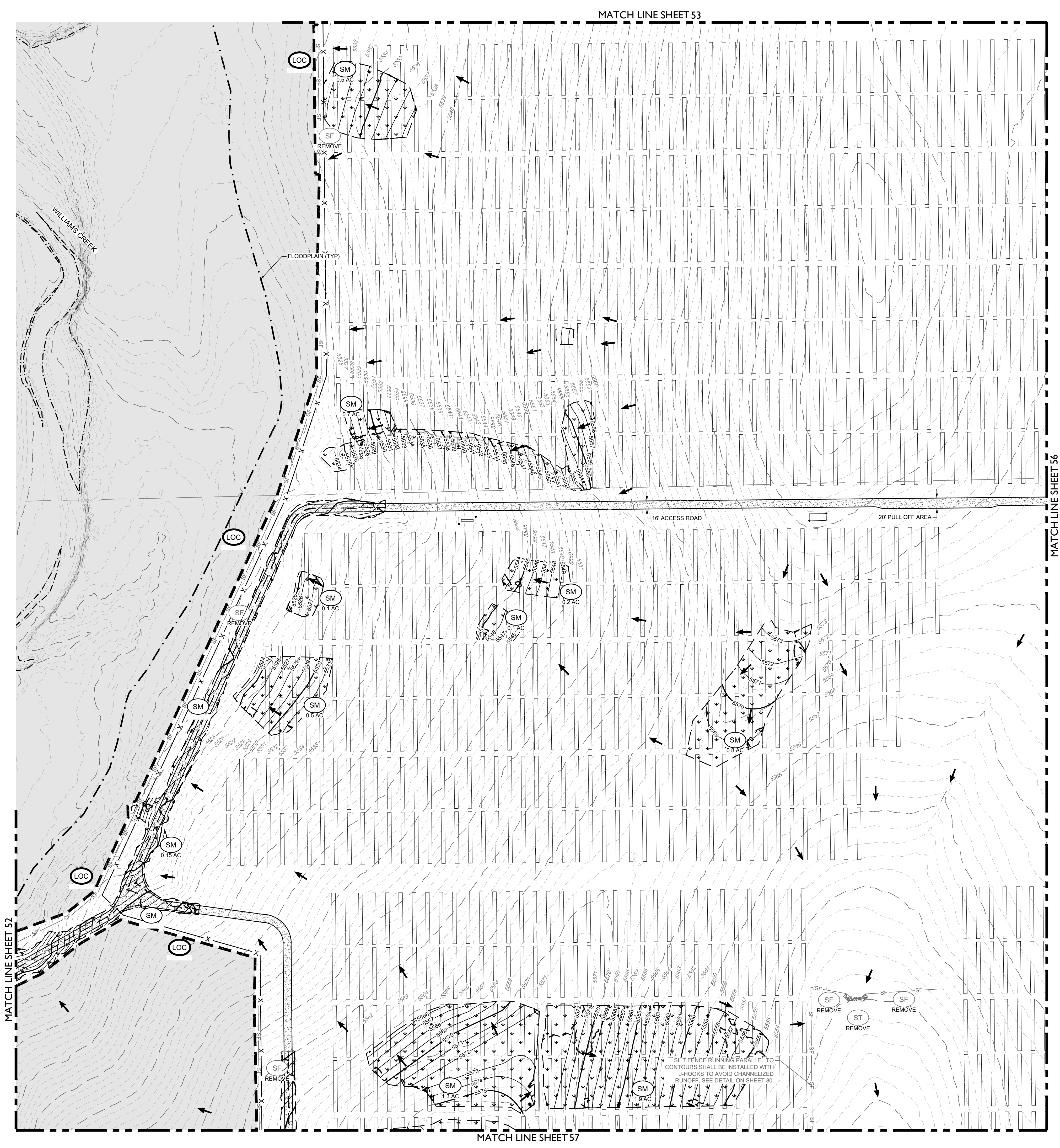
DATE	BY	REVISION DESCRIPTION
08/25/21	RH	1 SIGNATURE SET

PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (4 OF 24)

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

JOB NO. 20-194
SHEET 54 OF 83

PPR-22-008



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	RCD	REINFORCED CHECK DAM
	CWA	CONCRETE WASHOUT AREA
	DD	DIVERSION DITCH
	IP	INLET PROTECTION
	RS	ROCK SOCK
	SB	SEDIMENT BASIN
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	SCL	SEDIMENT CONTROL LOG
	SM	SEEDING
	SF	SILT FENCE
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	ST	SEDIMENT TRAP
	TSC	TEMPORARY STREAM CROSSING
	VTC	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
		PERMANENT FENCE
		POND OVERFLOW ROUTE

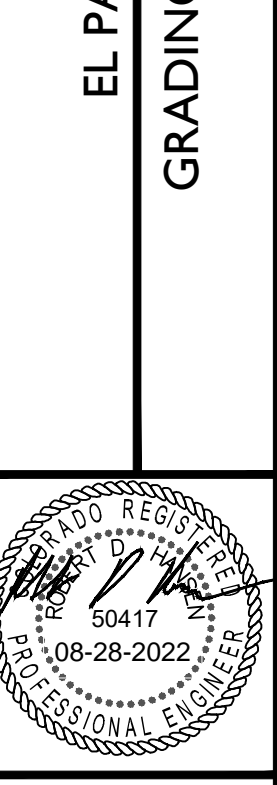
- NOTES:**
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PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (5 OF 24)



DESIGNED BY: BB
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JOB NO.
20-194

SHEET
55 OF 83

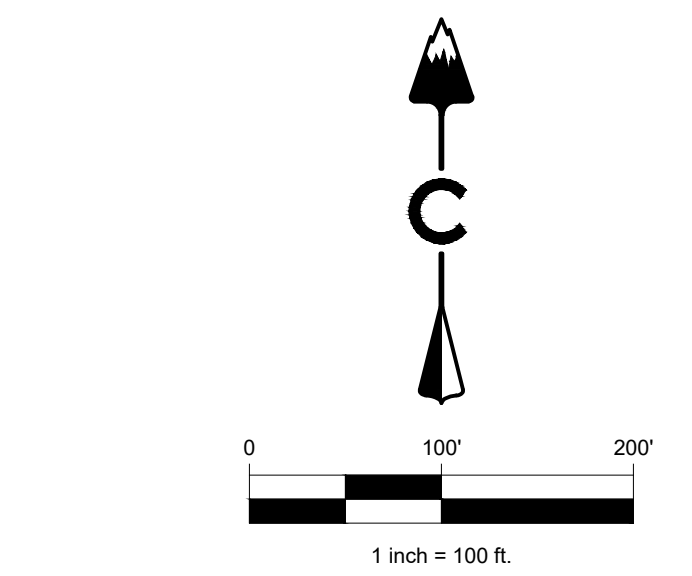
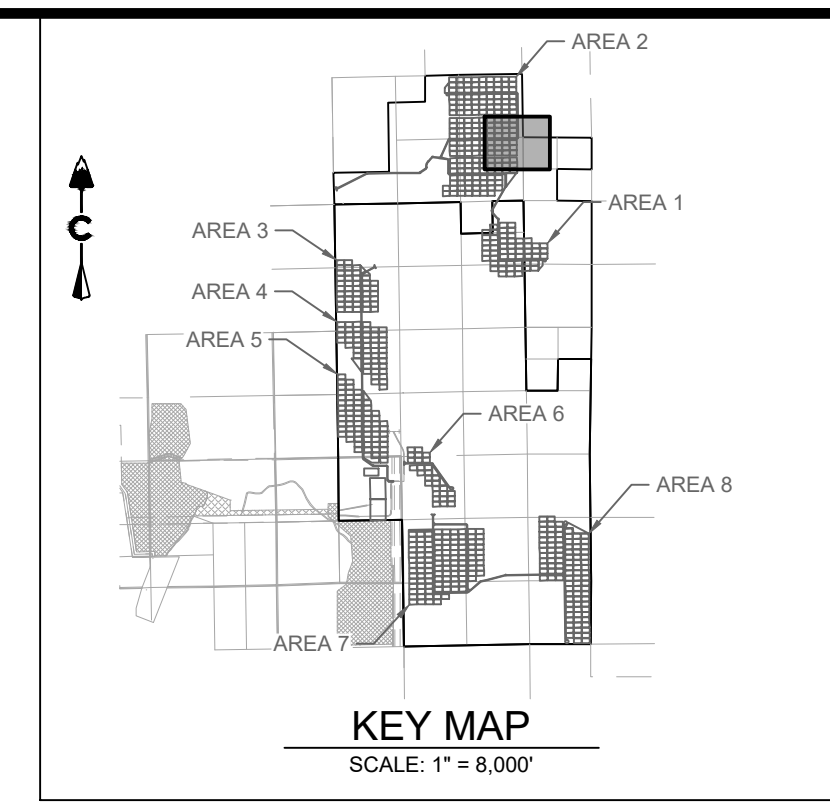
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MATCH LINE SHEET 54



MATCH LINE SHEET 55

MATCH LINE SHEET 58

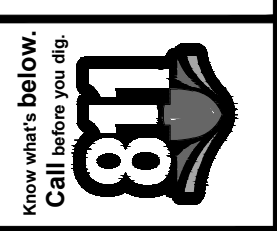


LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
	X	PERMANENT FENCE
		EXISTING SECTION LINE
		POND OVERFLOW ROUTE

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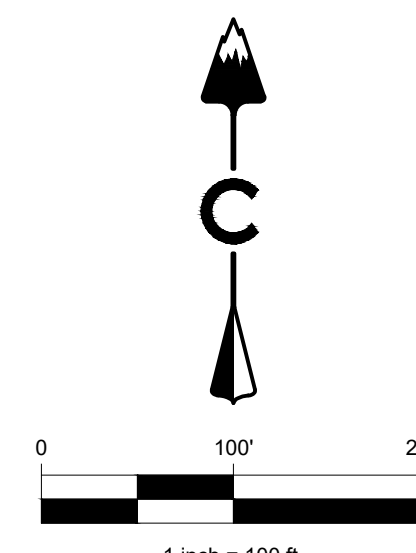
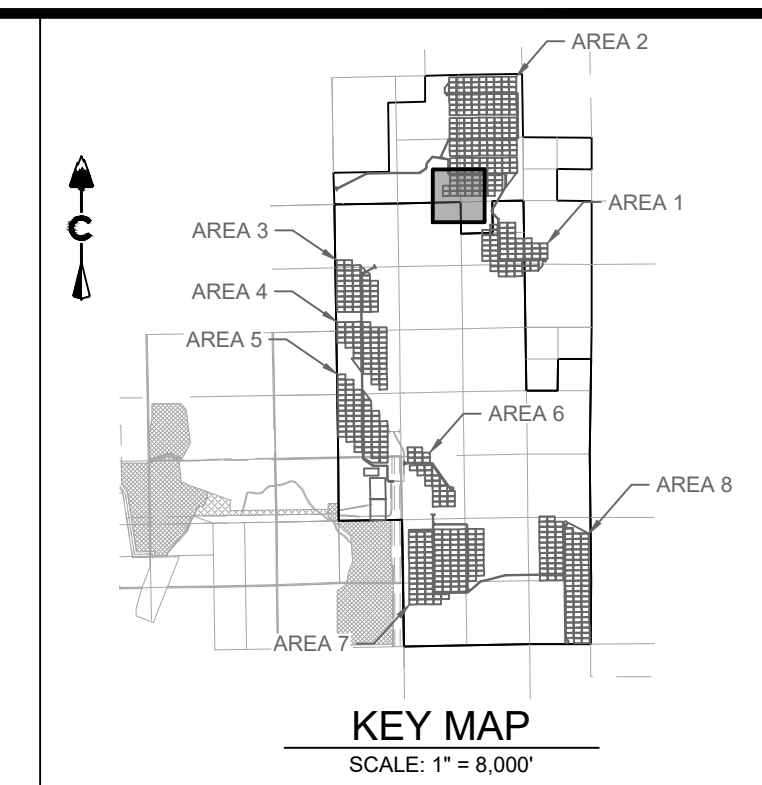
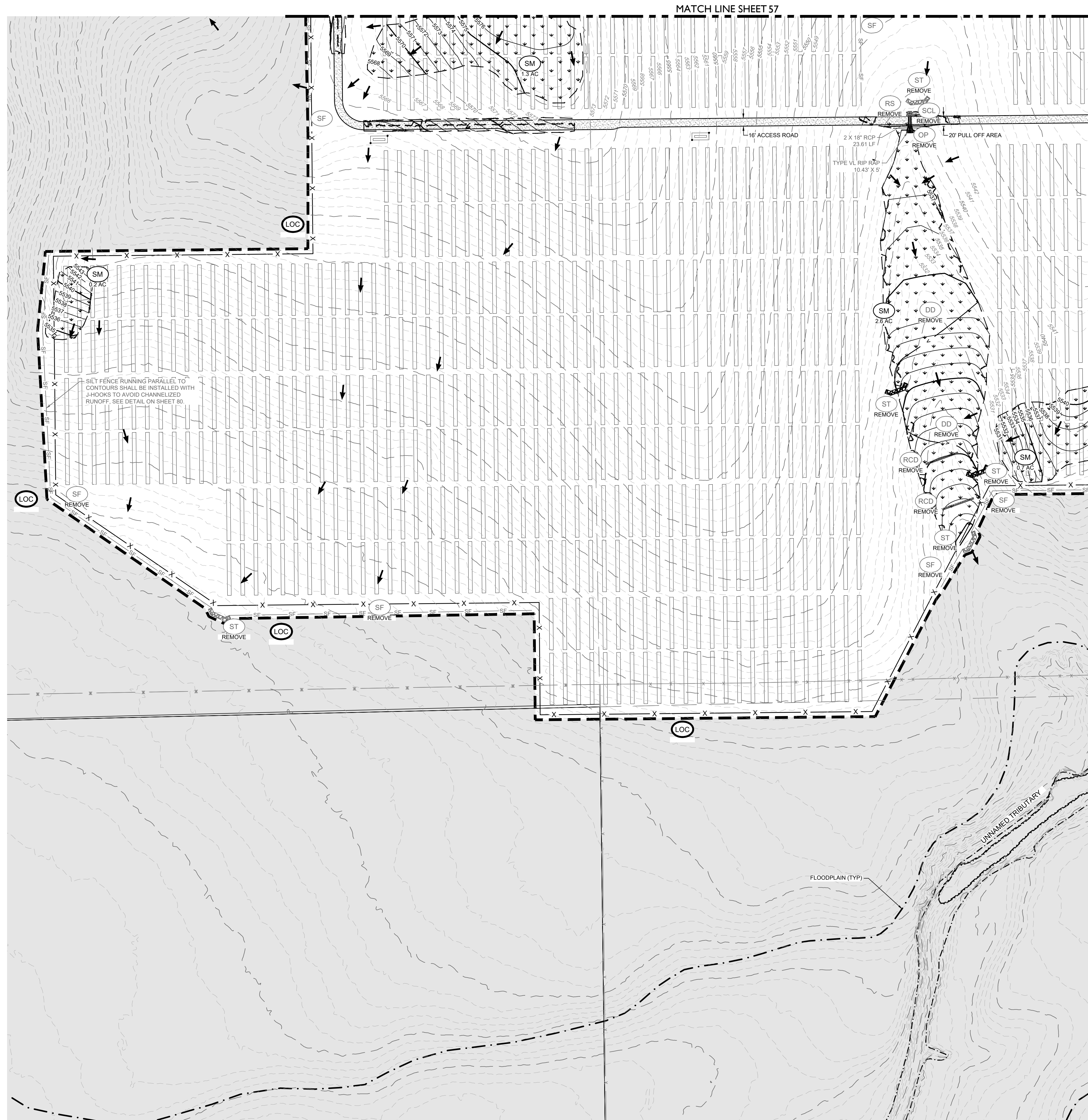
PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (6 OF 24)



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JOB NO.
20-194
SHEET
56 OF 83

PPR-22-008

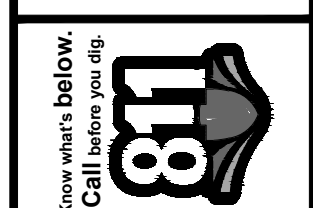


LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
	X	PERMANENT FENCE
		EXISTING SECTION LINE
		POND OVERFLOW ROUTE

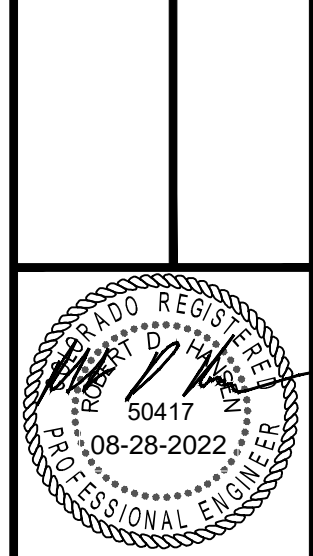
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PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (7 OF 24)



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

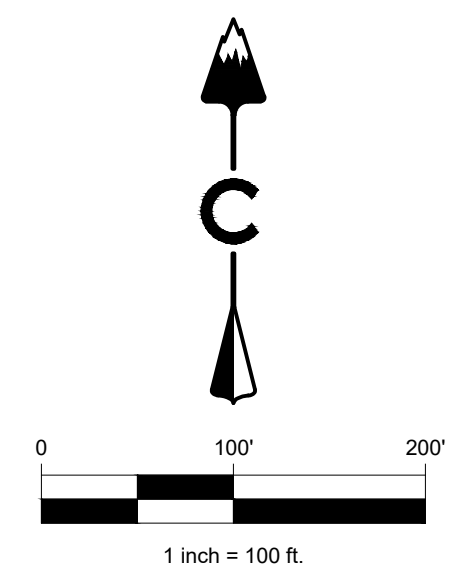
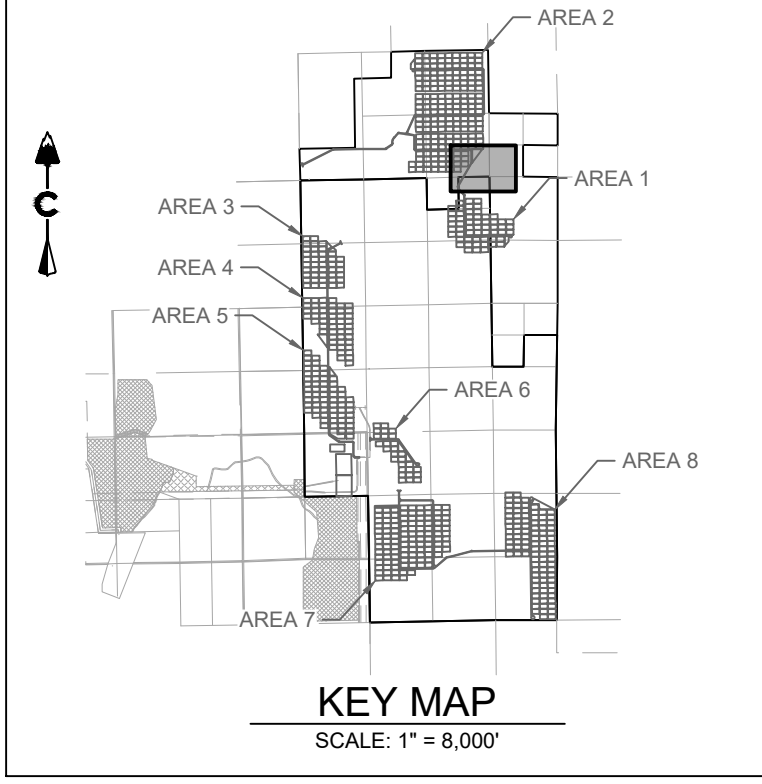
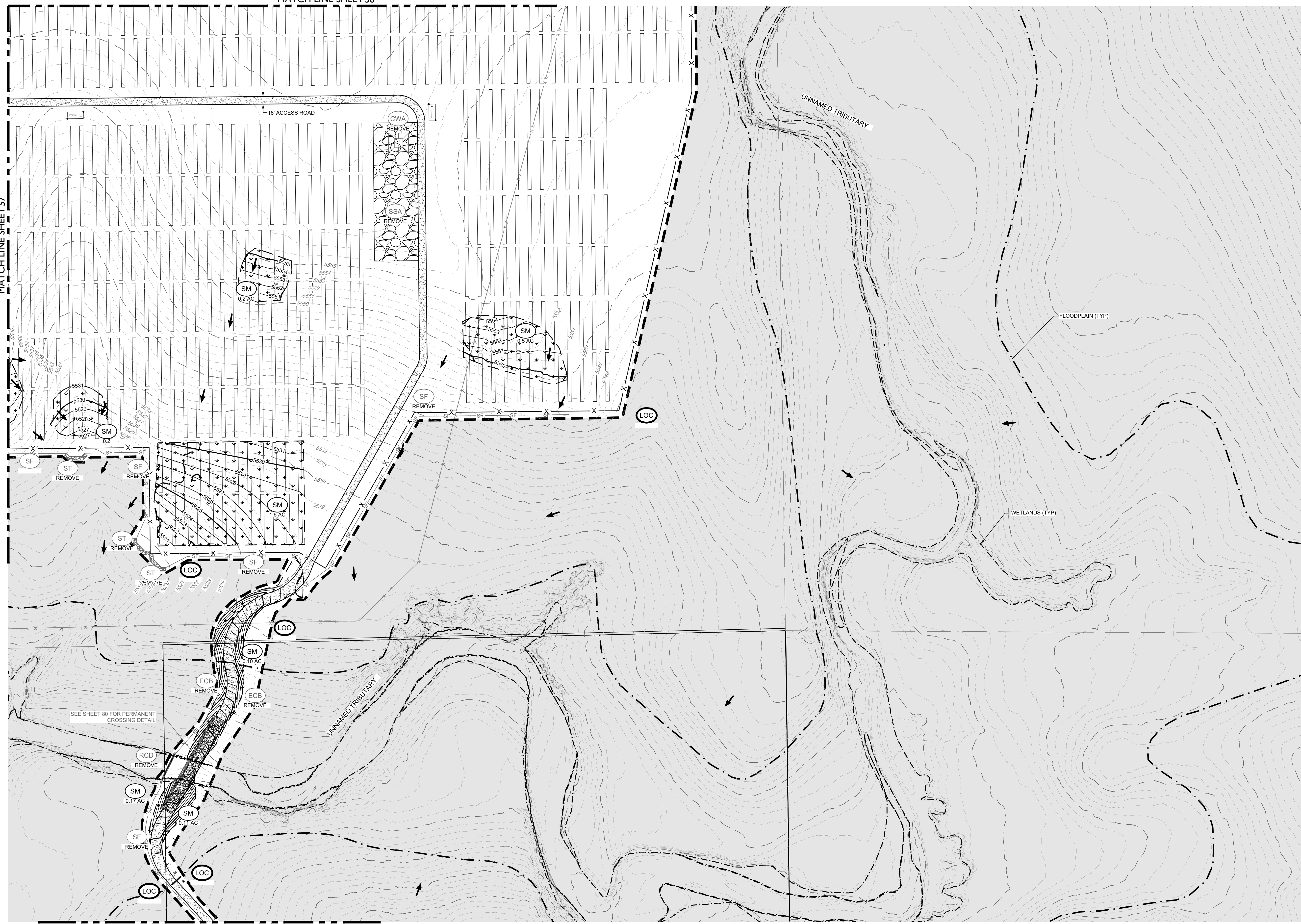
JOB NO.
 20-194
 SHEET
 57 OF 83

02/28/2022 2:03 PM X:\20-194 PIKE SOLAR\CIVIL\CAD\PLANS\FILING\106ESC\GEC PLAN 1 - FINAL.DWG

MATCH LINE SHEET 57

MATCH LINE SHEET 56

MATCH LINE SHEET 59



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
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	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
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		POND OVERFLOW ROUTE

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DATE	BY	REVISION DESCRIPTION
08/25/21	RH	1 SIGNATURE SET

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



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

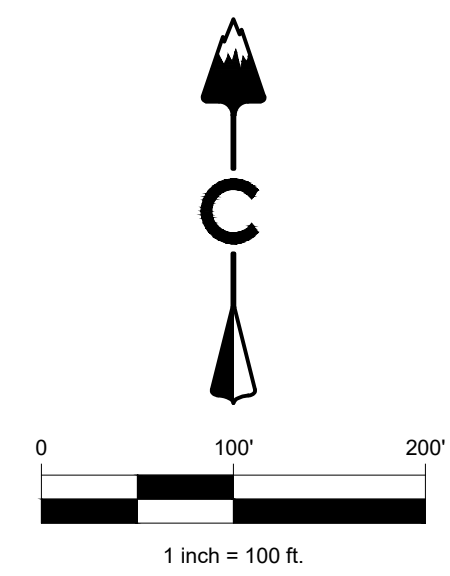
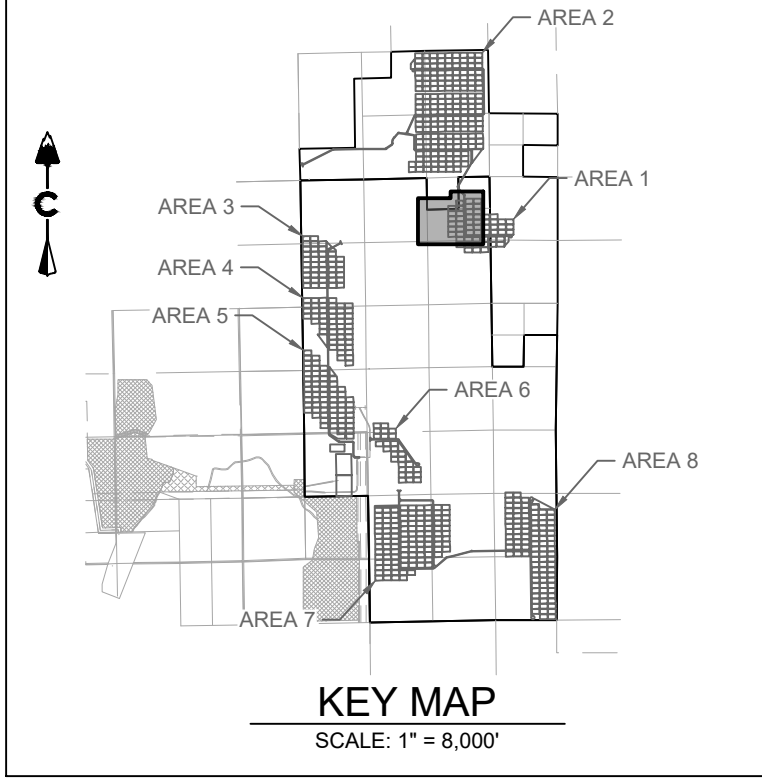
JOB NO.
20-194
 SHEET
58 OF 83

PPR-22-008

MATCH LINE SHEET 58



MATCH LINE SHEET 60



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
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NOTES:

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- SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.
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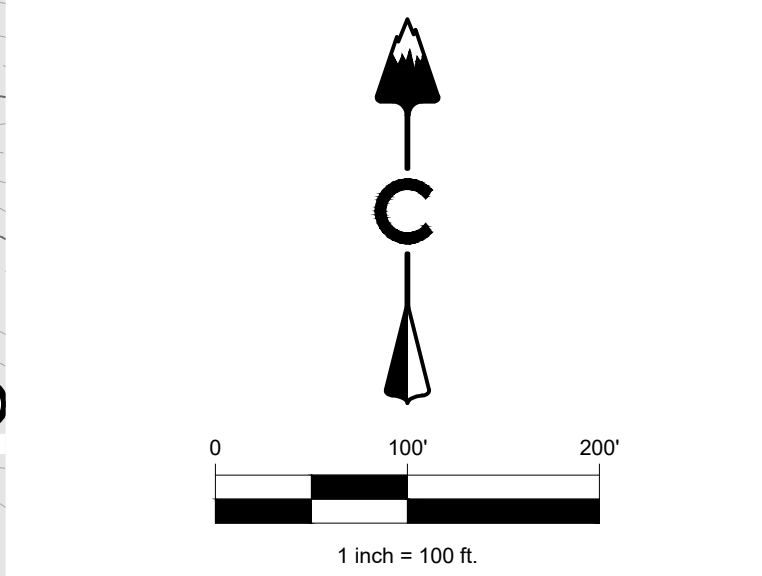
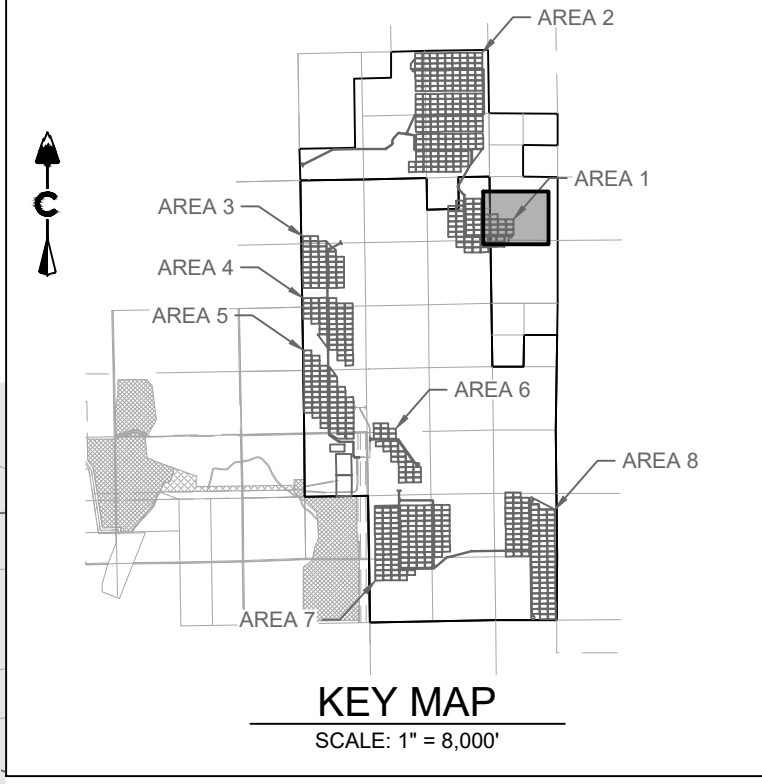
PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (9 OF 24)



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JOB NO.
 20-194
 SHEET
 59 OF 83

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LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
		PERMANENT FENCE
		EXISTING SECTION LINE
		POND OVERFLOW ROUTE

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PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (10 OF 24)

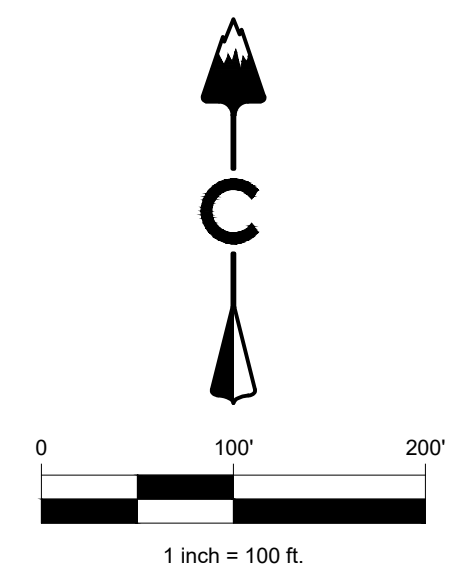
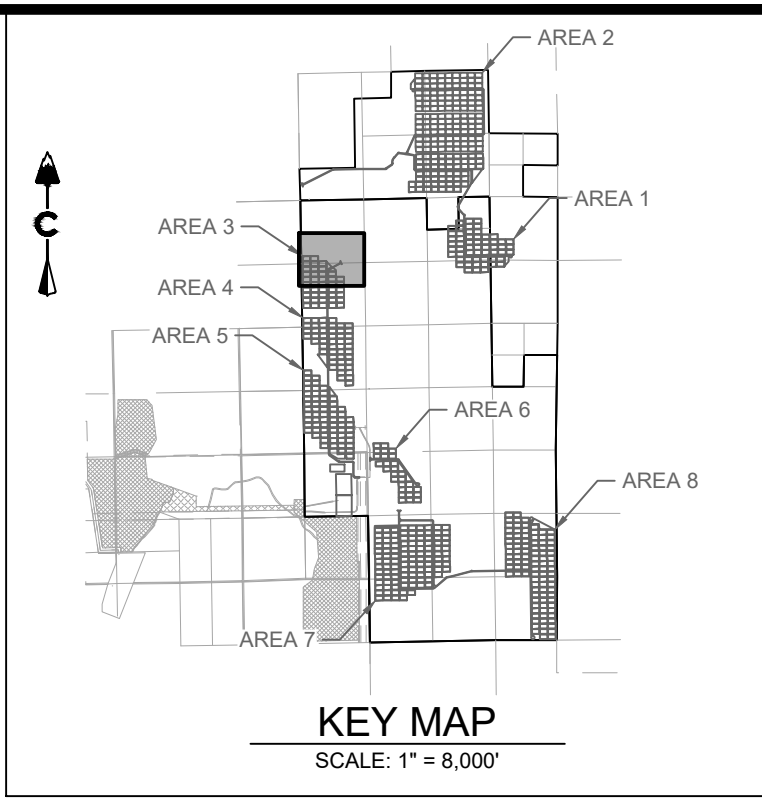


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JOB NO.
20-194
 SHEET
60 OF 83

PPR-22-008

NOT A PART
OWNER: WOODHOOR WATER & SANITATION DISTRICT NO 1
PARCEL: 560000169



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
		PERMANENT FENCE
		EXISTING SECTION LINE
		POND OVERFLOW ROUTE

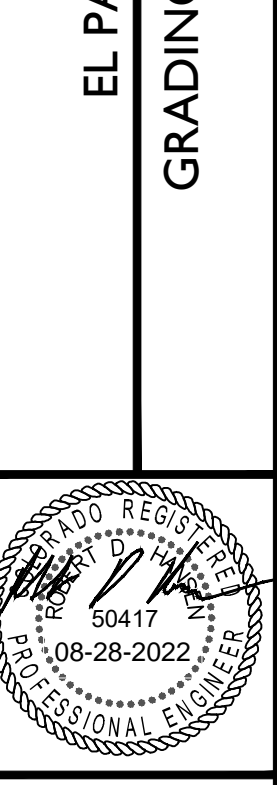
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PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (11 OF 24)



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JOB NO.
20-194
SHEET
61 OF 83

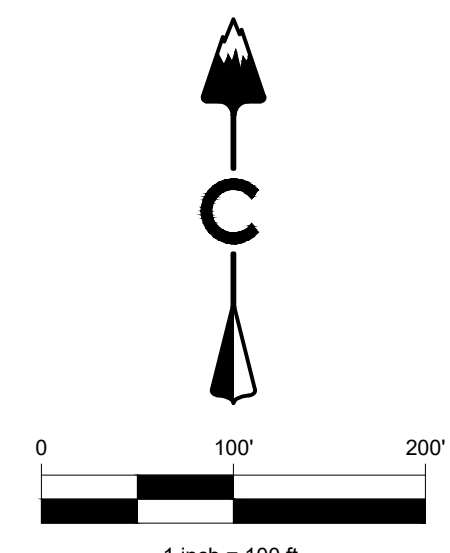
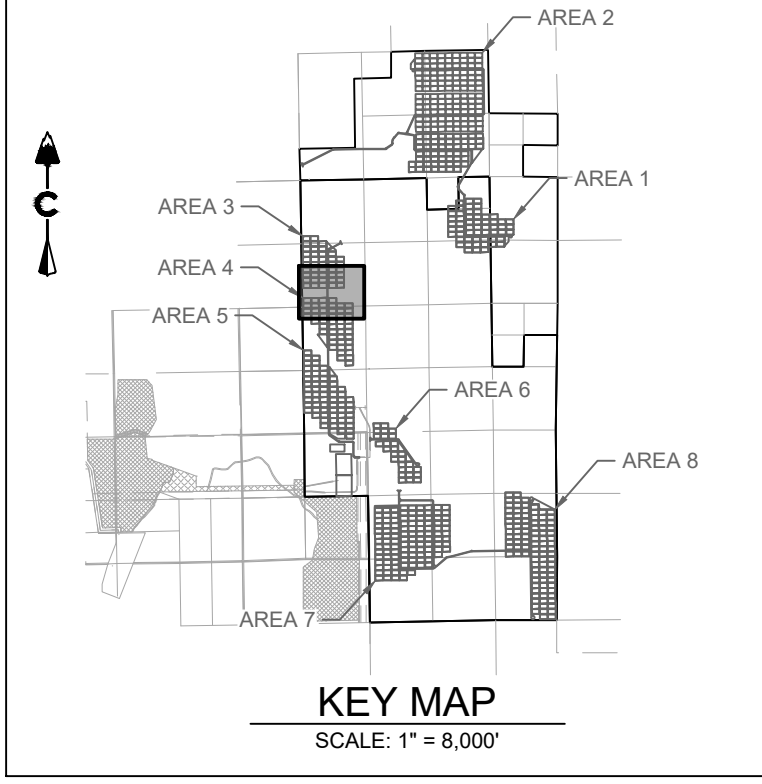
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PPR-22-008



NOT A PART
OWNER: WOODMOOR WATER & SANITATION DISTRICT NO. 1
PARCEL: 060000758

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LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
	X	PERMANENT FENCE
	- - -	EXISTING SECTION LINE
	- - -	POND OVERFLOW ROUTE

NOTES:

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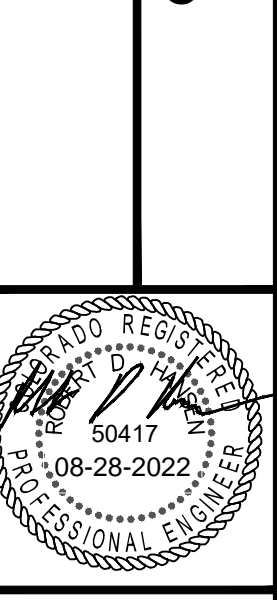
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EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (12 OF 24)



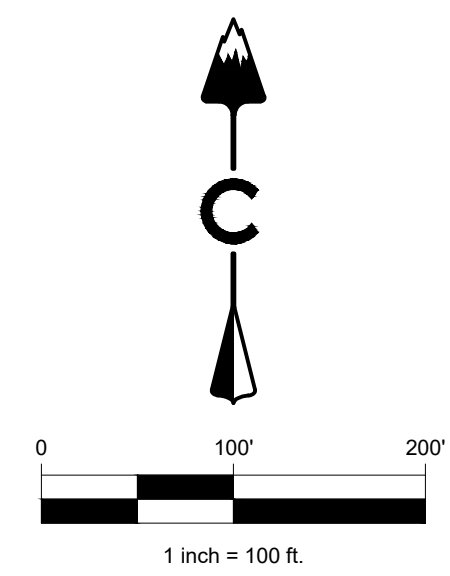
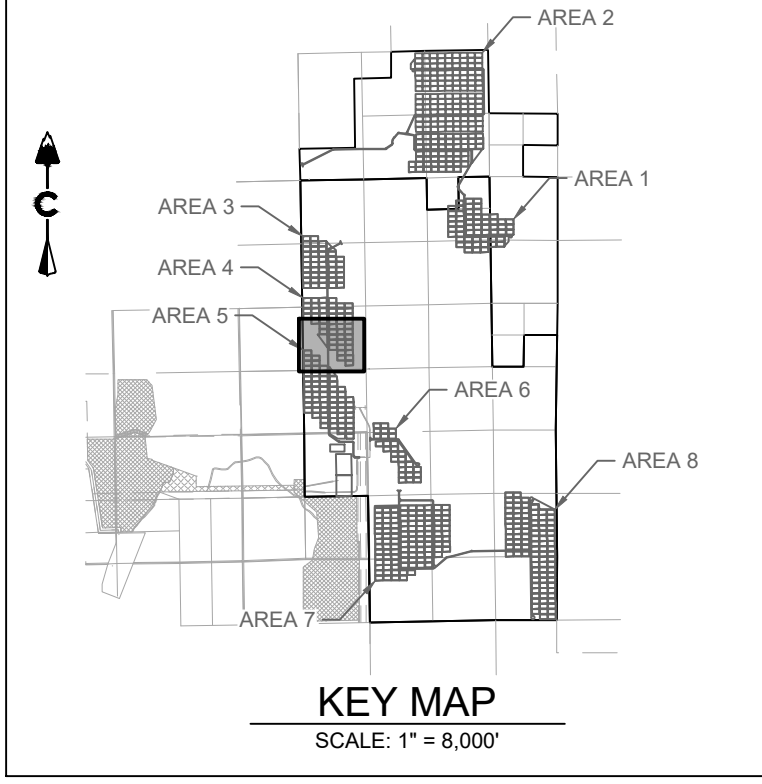
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JOB NO.
20-194
SHEET
62 OF 83

MATCH LINE SHEET 62



MATCH LINE SHEET 64



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
		PERMANENT FENCE
		EXISTING SECTION LINE
		POND OVERFLOW ROUTE

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NOT A PART
OWNER: WOODMOOR WATER & SANITATION DISTRICT NO 1
PARCEL: 590000158

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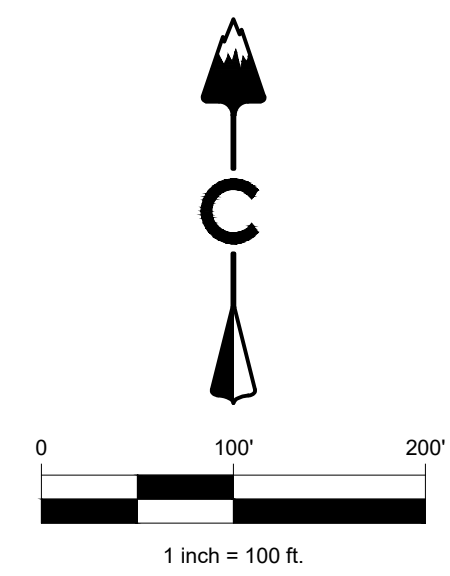
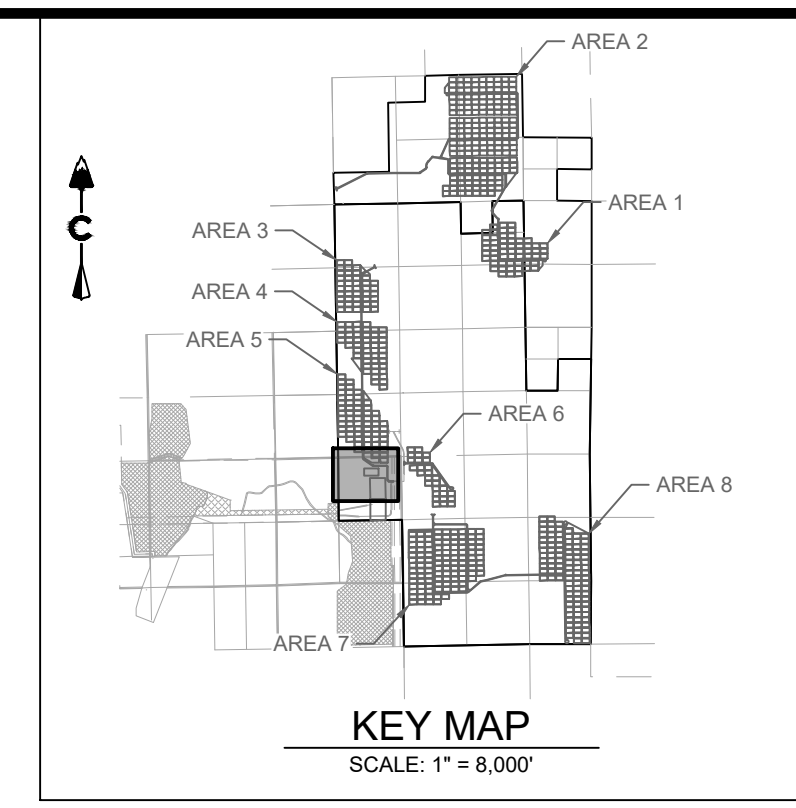
PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (13 OF 24)



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JOB NO.
20-194
SHEET
63 OF 83

NOT A PART
OWNER: WOODMONT
PARCEL: 180000117



LEGEND

	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	LIMITS OF CONSTRUCTION
	CUT/FILL BOUNDARY
	REINFORCED CHECK DAM
	CONCRETE WASHOUT AREA
	DIVERSION DITCH
	INLET PROTECTION
	ROCK SOCK
	SEDIMENT BASIN
	OUTLET PROTECTION
	SEDIMENT CONTROL LOG
	SEEDING
	SILT FENCE
	STABILIZED STAGING AREA
	SEDIMENT TRAP
	TEMPORARY STREAM CROSSING
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	PERMANENT STREAM CROSSING
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	PERMANENT FENCE
	POND OVERFLOW ROUTE

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EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (14 OF 24)

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20-194

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64 OF 83

PPR-22-008

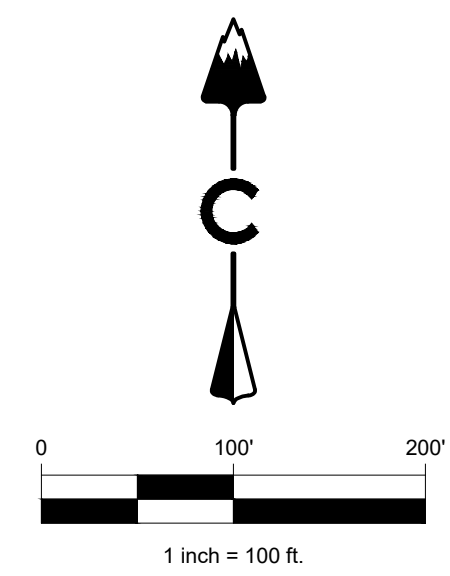
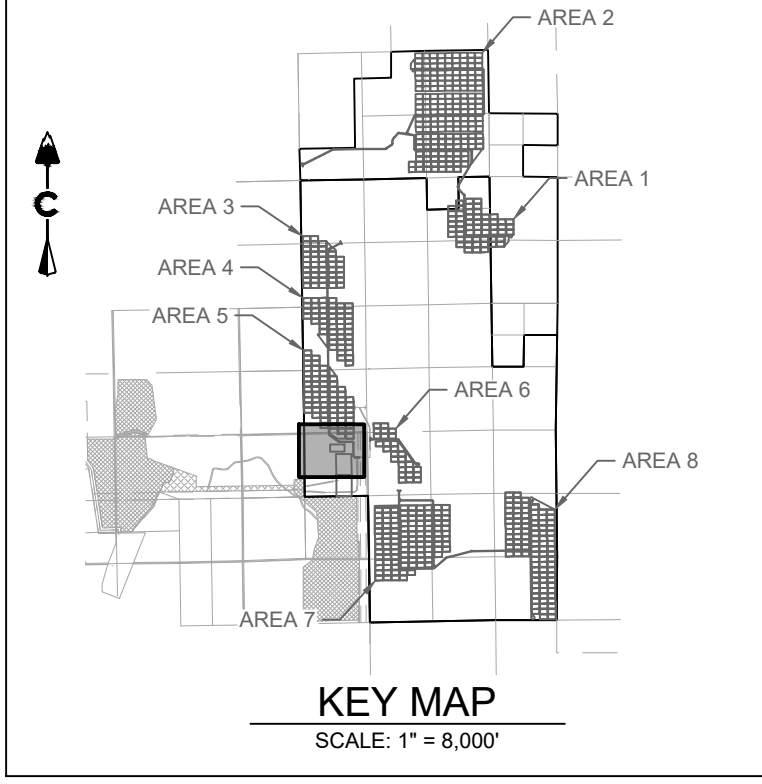


REMOVE SB DESIGN

DISTURBED AREA	10 ACRES
VOLUME	1,008 CY
CREST	15'
HOLE DIA.	36"
NUMBER OF HOLES	1
NUMBER OF COLUMNS	1

SEE SHEET 83 FOR DETAIL

NOT A PART
OWNER: WOODMOOR WATER & SANITATION DISTRICT NO. 7
PARCEL: 660000707



LEGEND

	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	LIMITS OF CONSTRUCTION
	CUT/FILL BOUNDARY
	REINFORCED CHECK DAM
	CONCRETE WASHOUT AREA
	DIVERSION DITCH
	INLET PROTECTION
	ROCK SOCK
	SEDIMENT BASIN
	OUTLET PROTECTION
	SEDIMENT CONTROL LOG
	SEEDING
	SILT FENCE
	STABILIZED STAGING AREA
	SEDIMENT TRAP
	TEMPORARY STREAM CROSSING
	VEHICLE TRACKING CONTROL
	PERMANENT STREAM CROSSING
	AGREGATE ACCESS ROAD
	PERMANENT FENCE
	EXISTING SECTION LINE
	POND OVERFLOW ROUTE

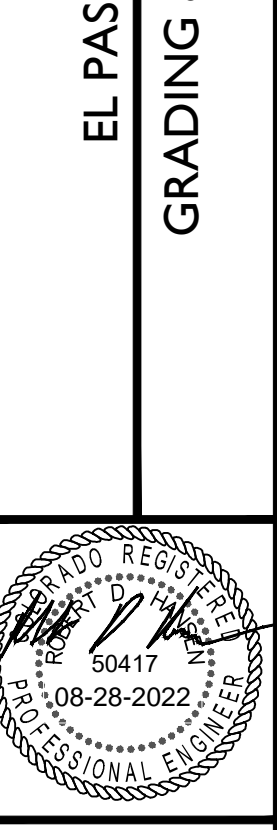
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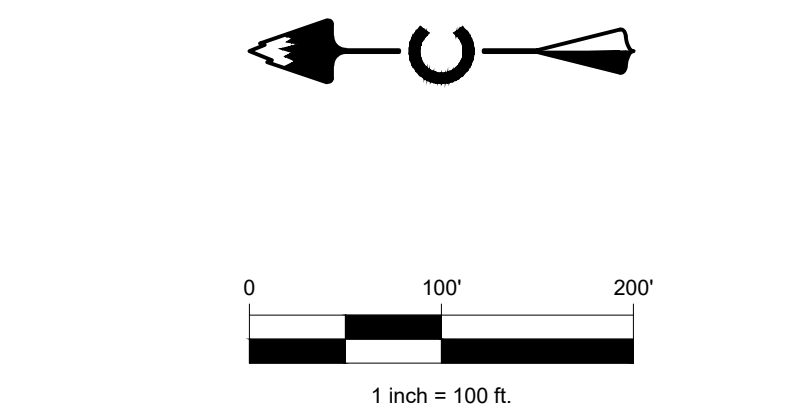
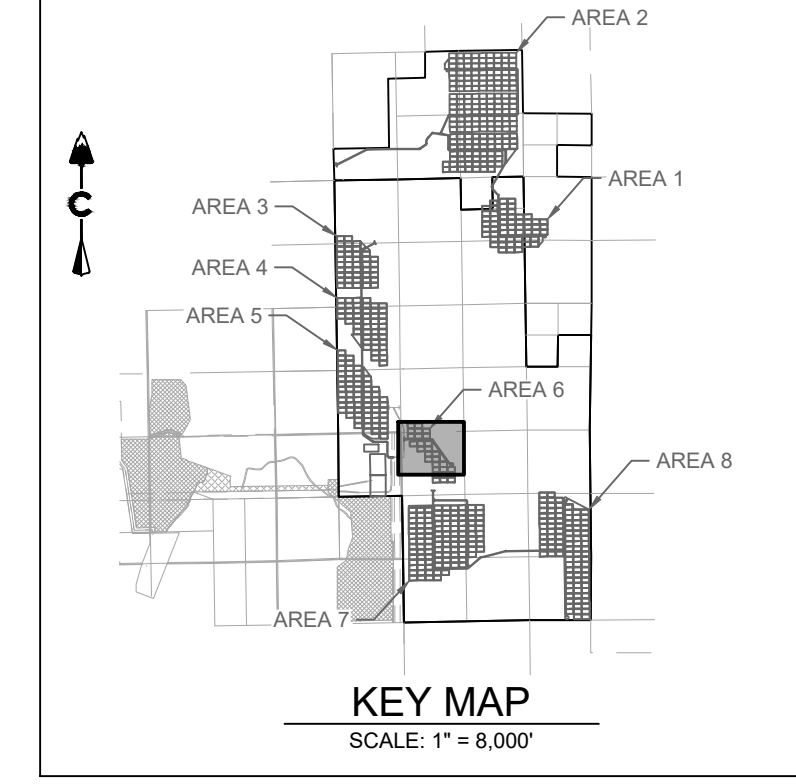
PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (15 OF 24)



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JOB NO.
20-194
SHEET
65 OF 83

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LEGEND

	5280 PROPOSED MAJOR CONTOUR
	5279 PROPOSED MINOR CONTOUR
	5280 EXISTING MAJOR CONTOUR
	5279 EXISTING MINOR CONTOUR
	LIMITS OF CONSTRUCTION
	CUT/FILL BOUNDARY
	(RCD) REINFORCED CHECK DAM
	(CWA) CONCRETE WASHOUT AREA
	(DD) DIVERSION DITCH
	(IP) INLET PROTECTION
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	EXISTING SECTION LINE
	POND OVERFLOW ROUTE

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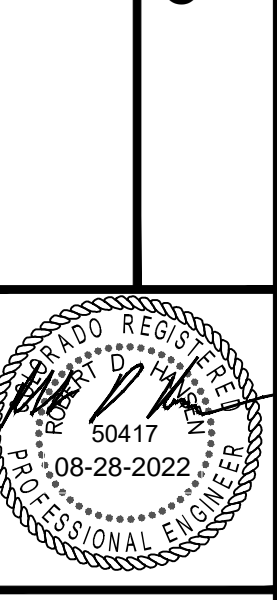
CORE



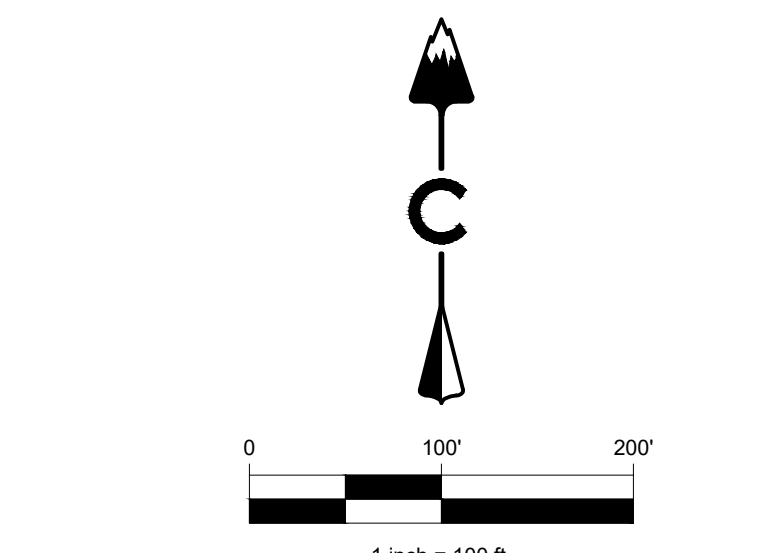
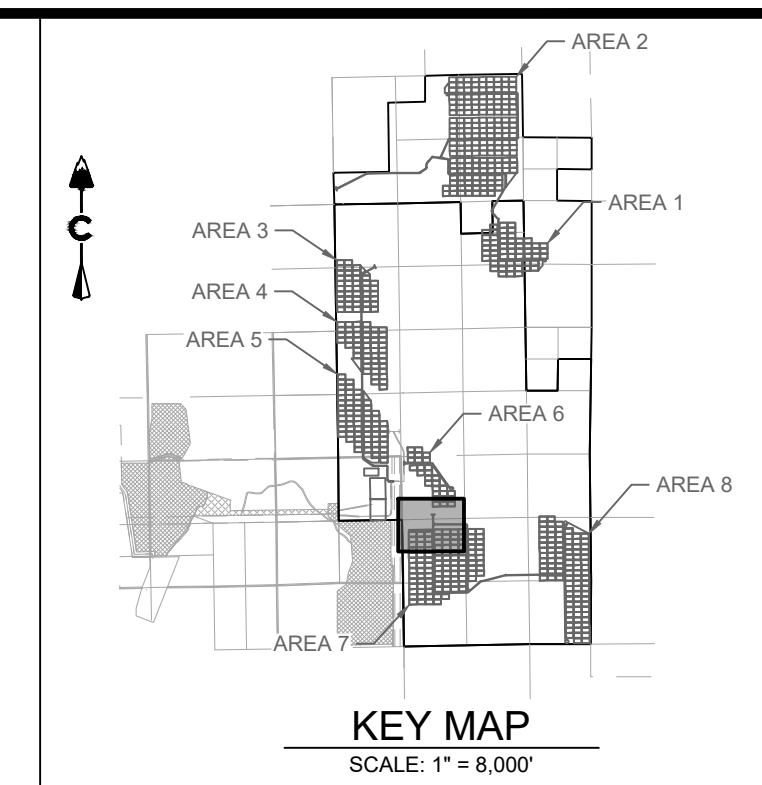
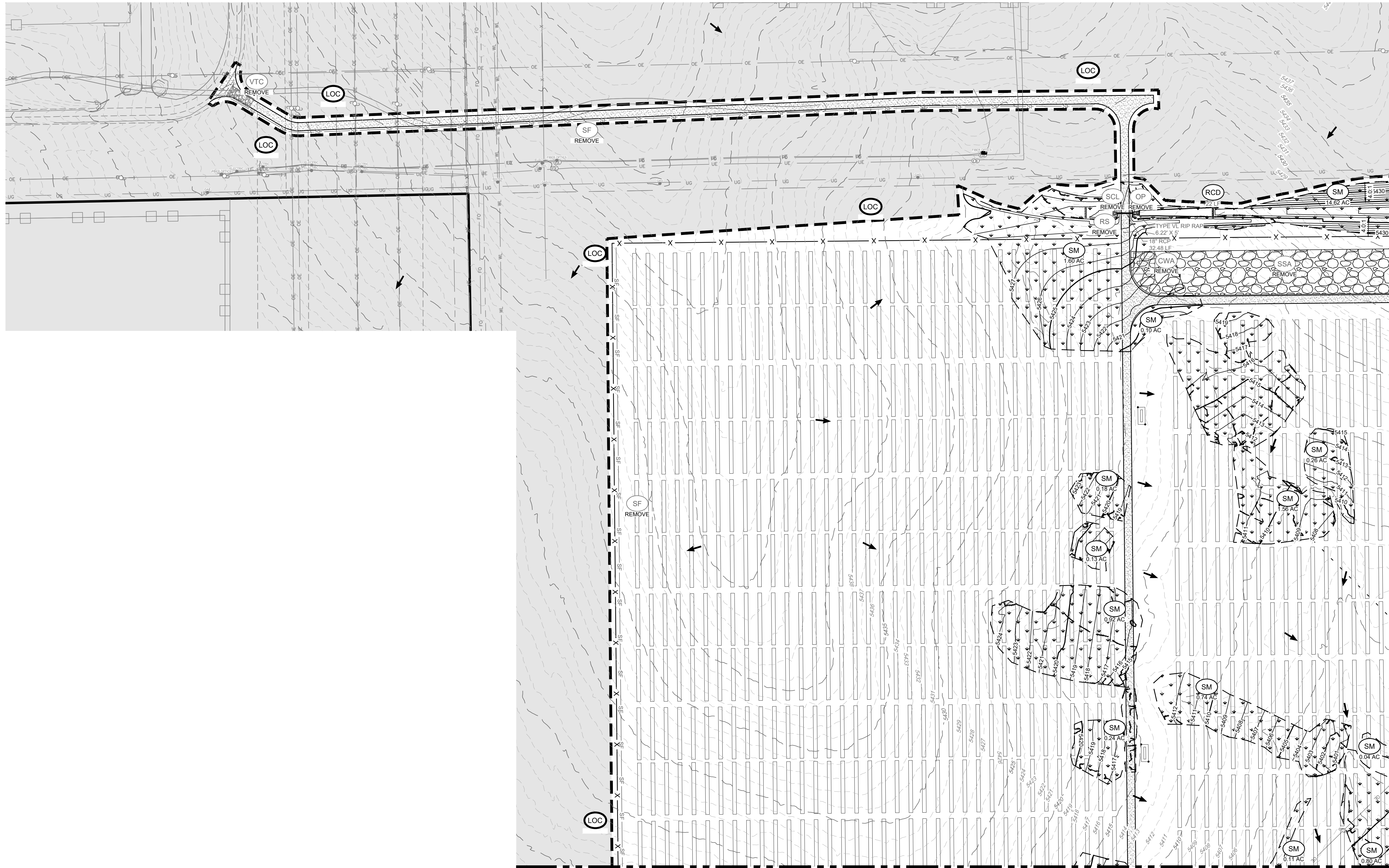
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PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (16 OF 24)

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JOB NO.
20-194
 SHEET
66 OF 83

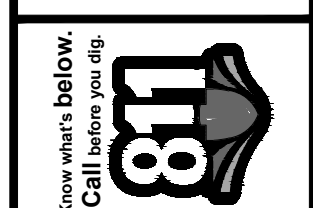


LEGEND

	5280 PROPOSED MAJOR CONTOUR
	5279 PROPOSED MINOR CONTOUR
	5280 EXISTING MAJOR CONTOUR
	5279 EXISTING MINOR CONTOUR
	LIMITS OF CONSTRUCTION
	CUT/FILL BOUNDARY
	RCD REINFORCED CHECK DAM
	CWA CONCRETE WASHOUT AREA
	DD DIVERSION DITCH
	IP INLET PROTECTION
	RS ROCK SOCK
	SB SEDIMENT BASIN
	OP OUTLET PROTECTION
	SCL SEDIMENT CONTROL LOG
	SM SEEDING
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	SSA STABILIZED STAGING AREA
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	VTC VEHICLE TRACKING CONTROL
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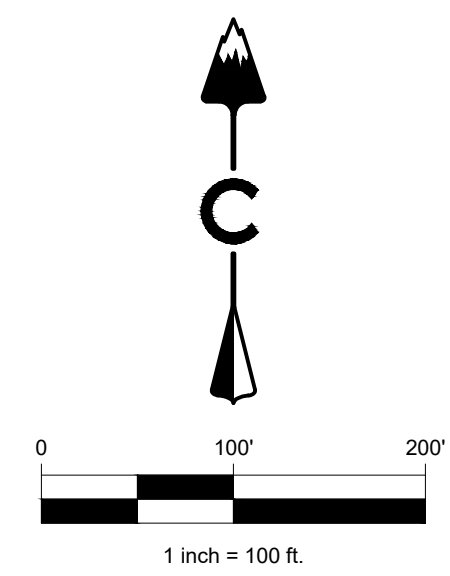
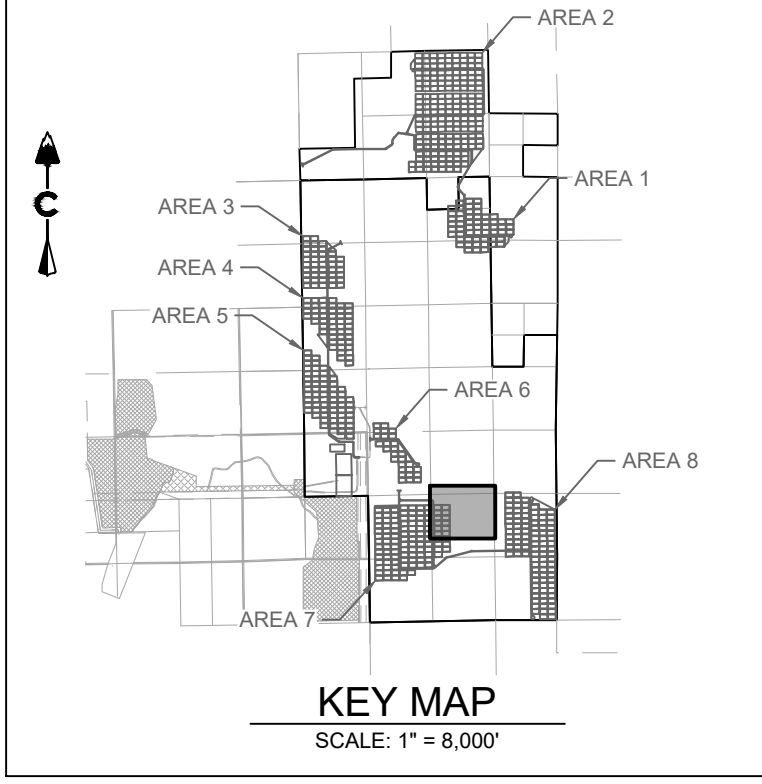
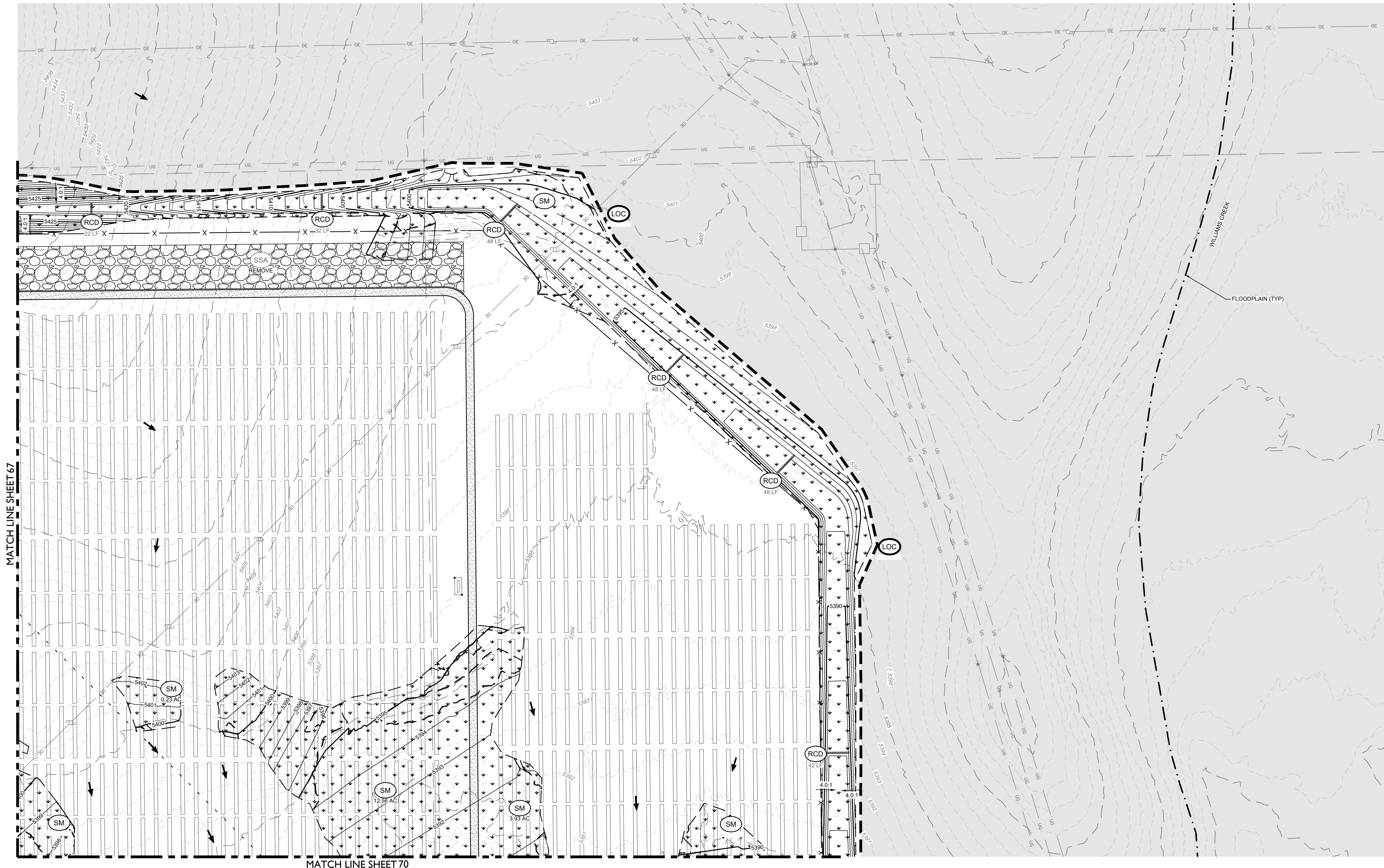
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1	SIGNATURE SET	08/25/21	RH

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



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

JOB NO.
20-194
SHEET
67 OF 83



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
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	RS	ROCK SOCK
	SB	SEDIMENT BASIN
	OP	OUTLET PROTECTION
	SCL	SEDIMENT CONTROL LOG
	SM	SEEDING
	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
	ST	SEDIMENT TRAP
	TSC	TEMPORARY STREAM CROSSING
	VTC	VEHICLE TRACKING CONTROL
	PSC	PERMANENT STREAM CROSSING
	AAR	AGREGATE ACCESS ROAD
	PF	PERMANENT FENCE
	ECL	EXISTING SECTION LINE
	POR	POND OVERFLOW ROUTE

- 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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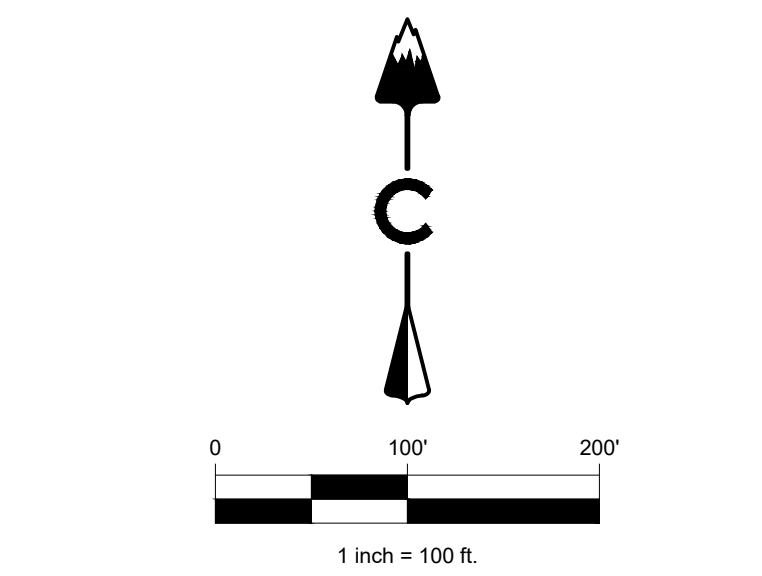
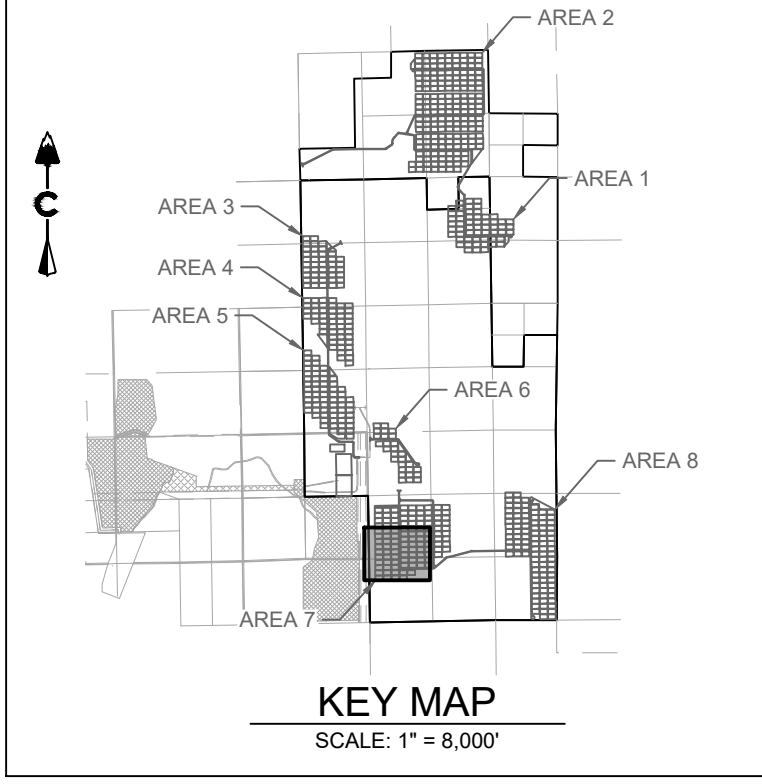
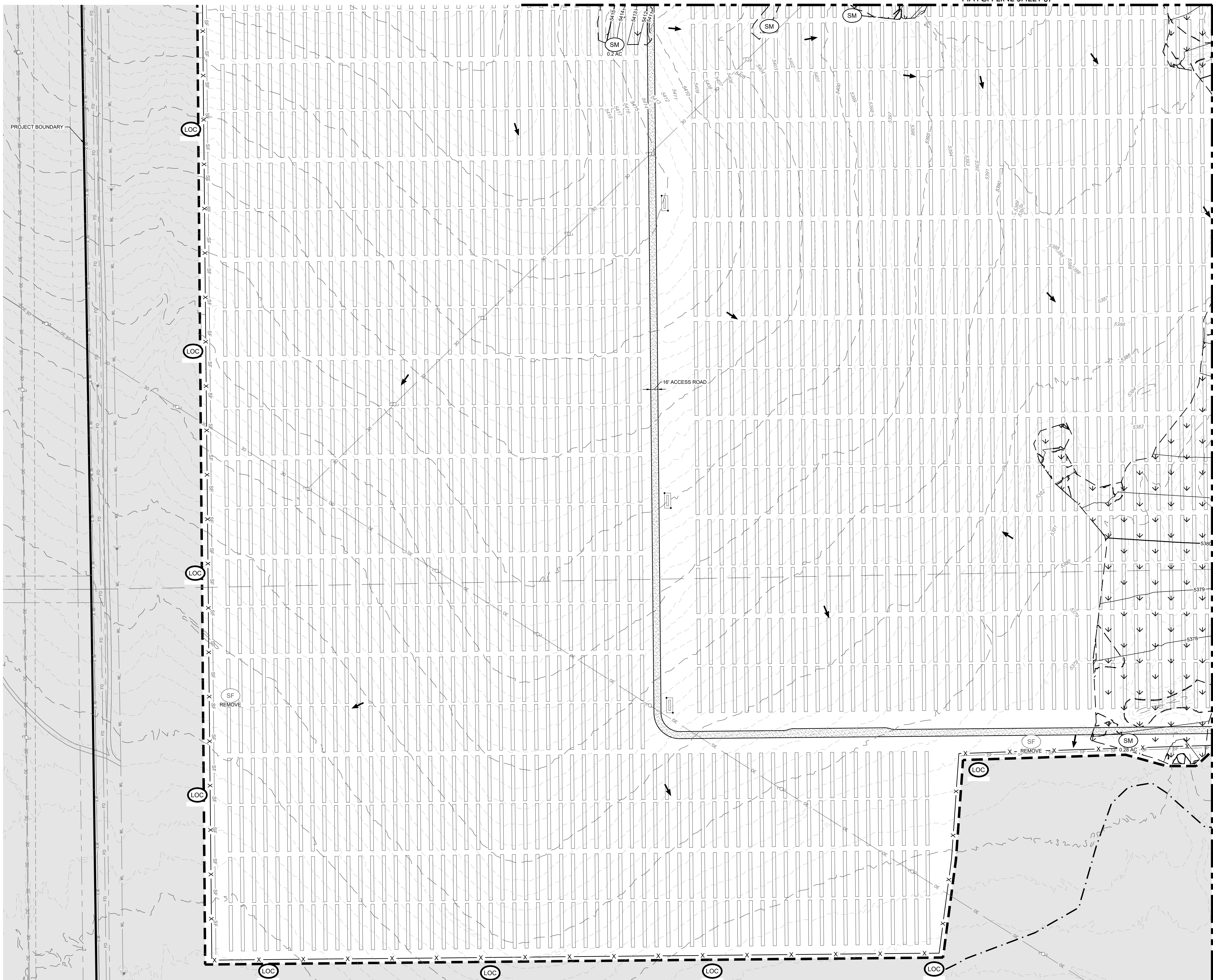
DATE	BY	REVISION DESCRIPTION
08/25/21	RH	1 SIGNATURE SET

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



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

JOB NO.
20-194
 SHEET
68 OF 83



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
		PERMANENT FENCE
		EXISTING SECTION LINE
		POND OVERFLOW ROUTE

- 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.
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#	REVISION DESCRIPTION	DATE	BY
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PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 FINAL (19 OF 24)

DESIGNED BY: BB
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JOB NO. 20-194
 SHEET 69 OF 83

PPR-22-008

02/28/2022 2:11 PM X:\20-194 PIKE SOLAR\CIVIL\CAD\PLANS\FILING\106ESC\ESC PLANS - FINAL.DWG

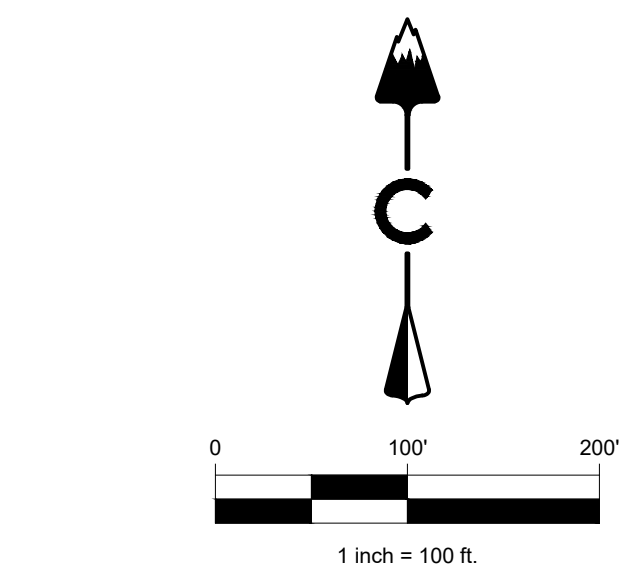
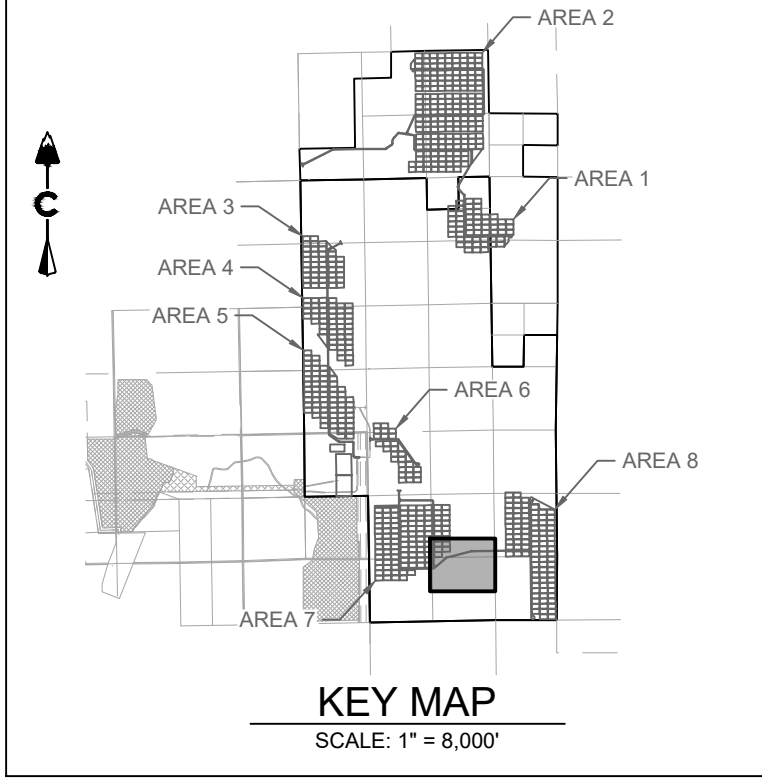
MATCH LINE SHEET 69

MATCH LINE SHEET 68

MATCH LINE SHEET 47



REMOVE
SB DESIGN
DISTURBED AREA 10 ACRES
VOLUME 1,008 CY
CREST -15
HOLE DIA. 18"
NUMBER OF HOLES 5
NUMBER OF COLUMNS 1
SEE SHEET 69 FOR DETAIL



LEGEND

	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	LIMITS OF CONSTRUCTION
	CUTOFFILL BOUNDARY
	REINFORCED CHECK DAM
	CONCRETE WASHOUT AREA
	DIVERSION DITCH
	INLET PROTECTION
	ROCK SOCK
	SEDIMENT BASIN
	OUTLET PROTECTION
	SEDIMENT CONTROL LOG
	SEEDING
	SILT FENCE
	STABILIZED STAGING AREA
	SEDIMENT TRAP
	TEMPORARY STREAM CROSSING
	VEHICLE TRACKING CONTROL
	PERMANENT STREAM CROSSING
	AGREGATE ACCESS ROAD
	PERMANENT FENCE
	EXISTING SECTION LINE
	POND OVERFLOW ROUTE

- NOTES:**
- SEE COVER SHEET FOR EL PASO COUNTY GEC STANDARD NOTES.
 - SEE SHEETS 74-75 FOR EROSION CONTROL DETAILS.
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#	REVISION SET	SIGNATURE SET
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PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (20 OF 24)

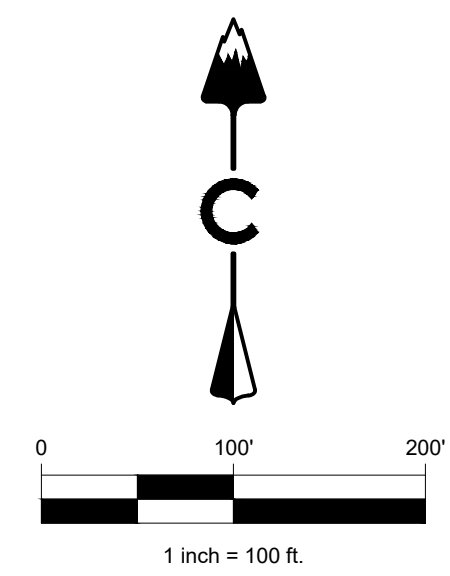
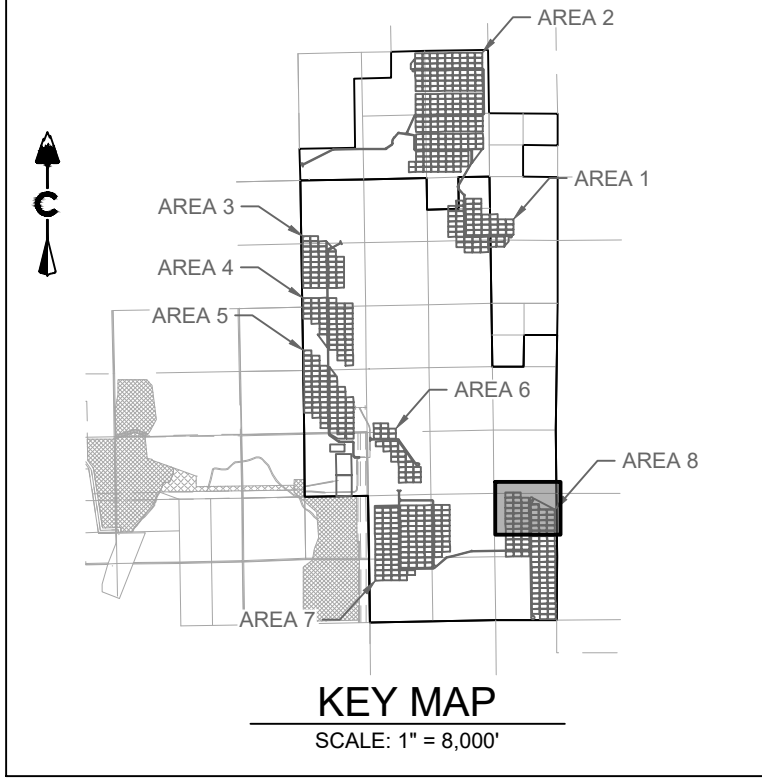


DESIGNED BY: BB
DRAWN BY: SD
CHECKED BY: DB

JOB NO.
20-194
SHEET
70 OF 83



MATCH LINE SHEET 70



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
	X	PERMANENT FENCE
	- - -	EXISTING SECTION LINE
	←	POND OVERFLOW ROUTE

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.
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NOT A PART
OWNER: CITY OF COLORADO SPRINGS
PARCEL: 4600000041

DATE	BY	REVISION DESCRIPTION
	08/25/21	RH
#	REVISION DESCRIPTION	SIGNATURE SET
1		

PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (21 OF 24)



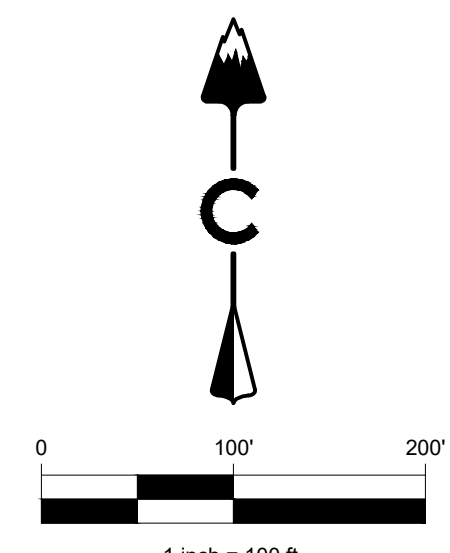
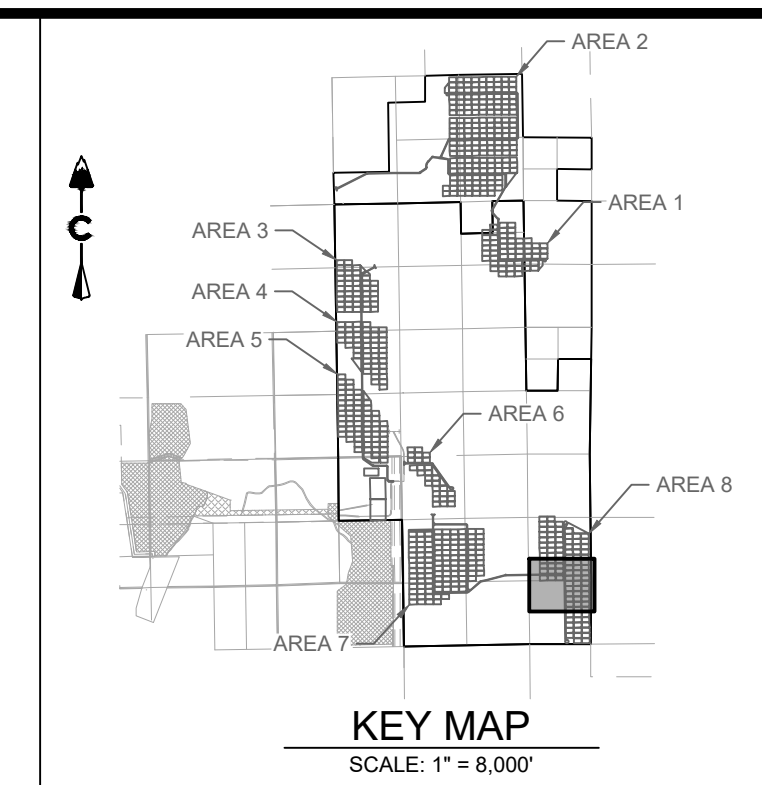
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20-194
SHEET
71 OF 83

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LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE





LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
	X	PERMANENT FENCE
		POND OVERFLOW ROUTE
		EXISTING SECTION LINE
		POND OVERFLOW ROUTE

- 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.
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NOT A PART
OWNER STATE OF COLORADO
PARCEL: 668080848

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DATE	BY	REVISION DESCRIPTION
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PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (22 OF 24)

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JOB NO.
20-194

SHEET
72 OF 83

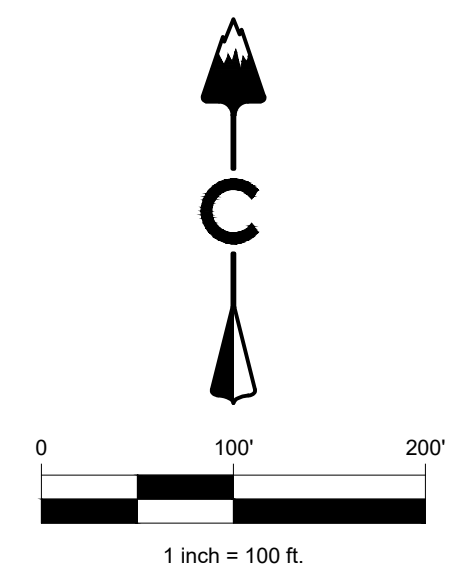
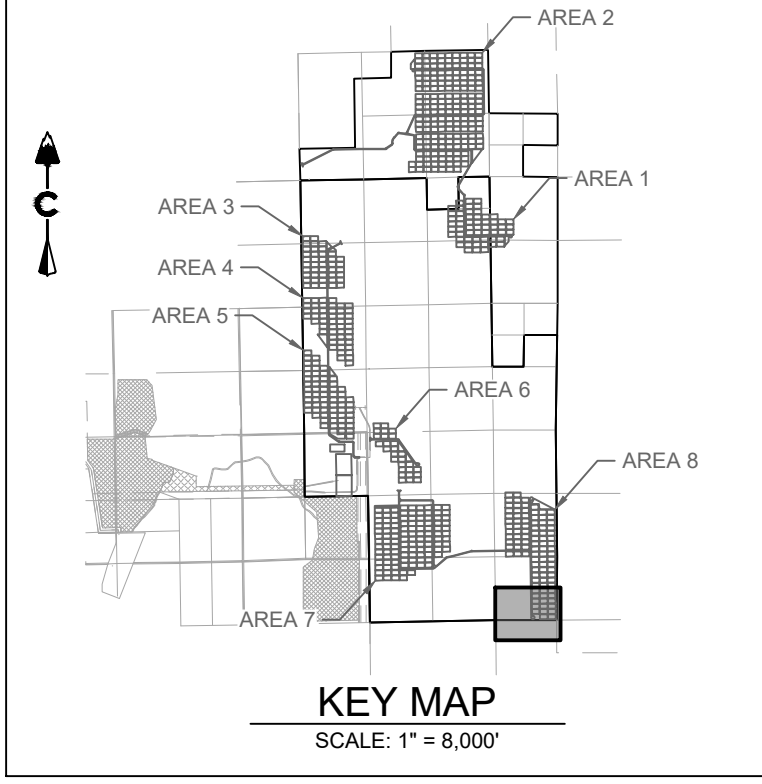
PPR-22-008

MATCH LINE SHEET 72



PROJECT BOUNDARY

NOT A PART
OWNER: STATE OF COLORADO
PARCEL: 460000046



LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUT/FILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
	(SB)	SEDIMENT BASIN
	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
	X	PERMANENT FENCE
	- - -	EXISTING SECTION LINE
	- - -	POND OVERFLOW ROUTE

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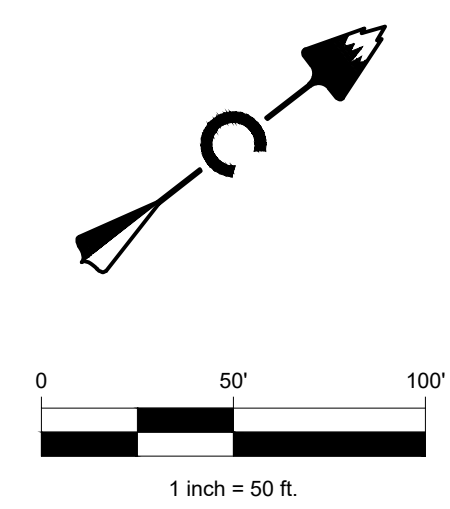
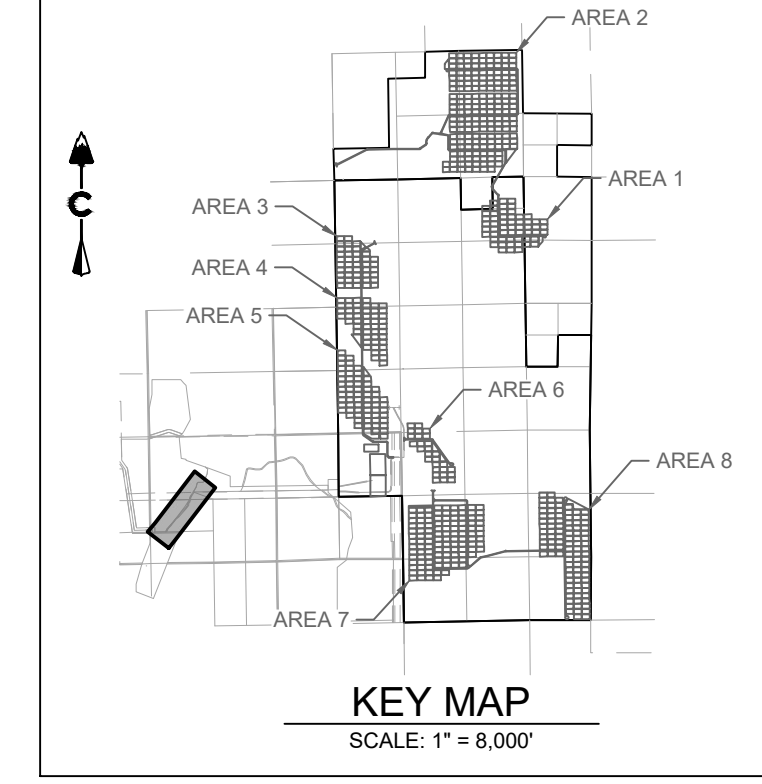
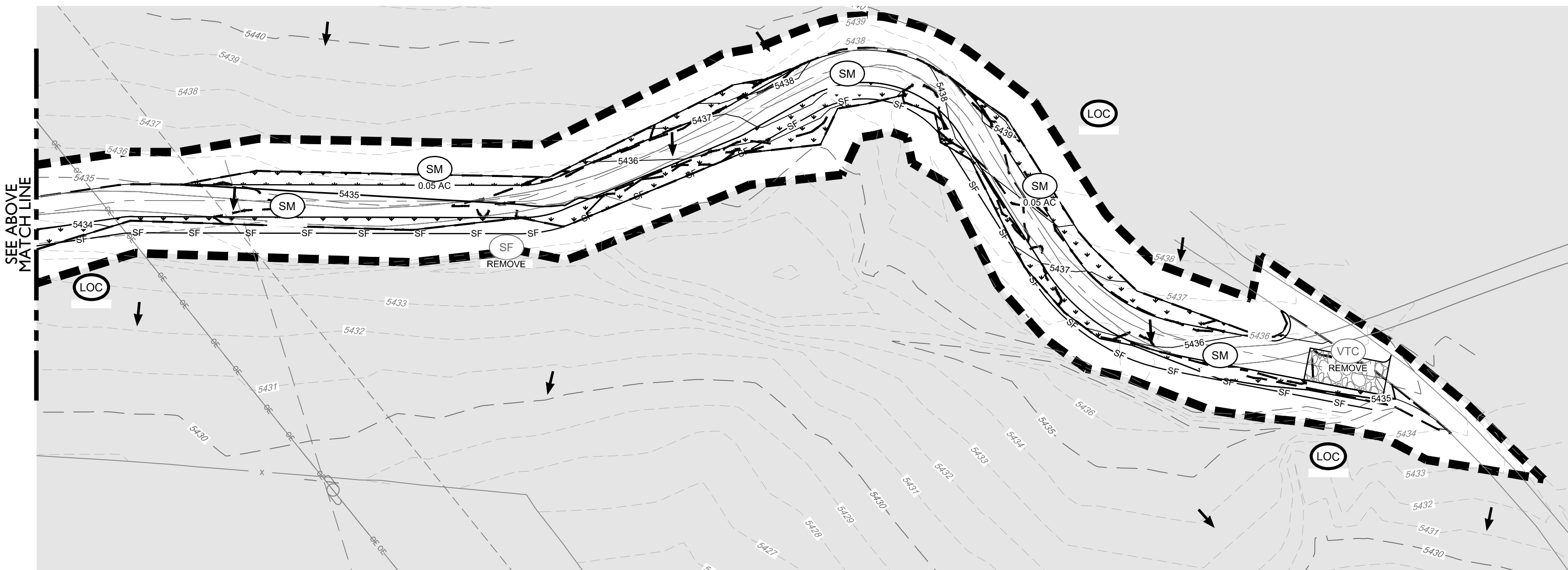
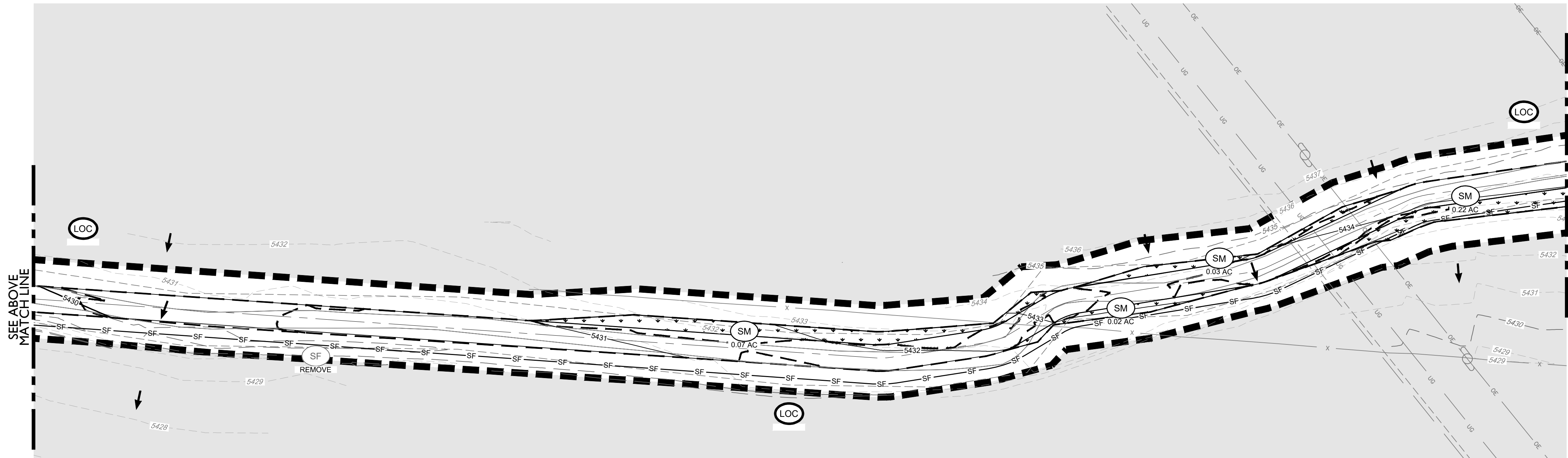
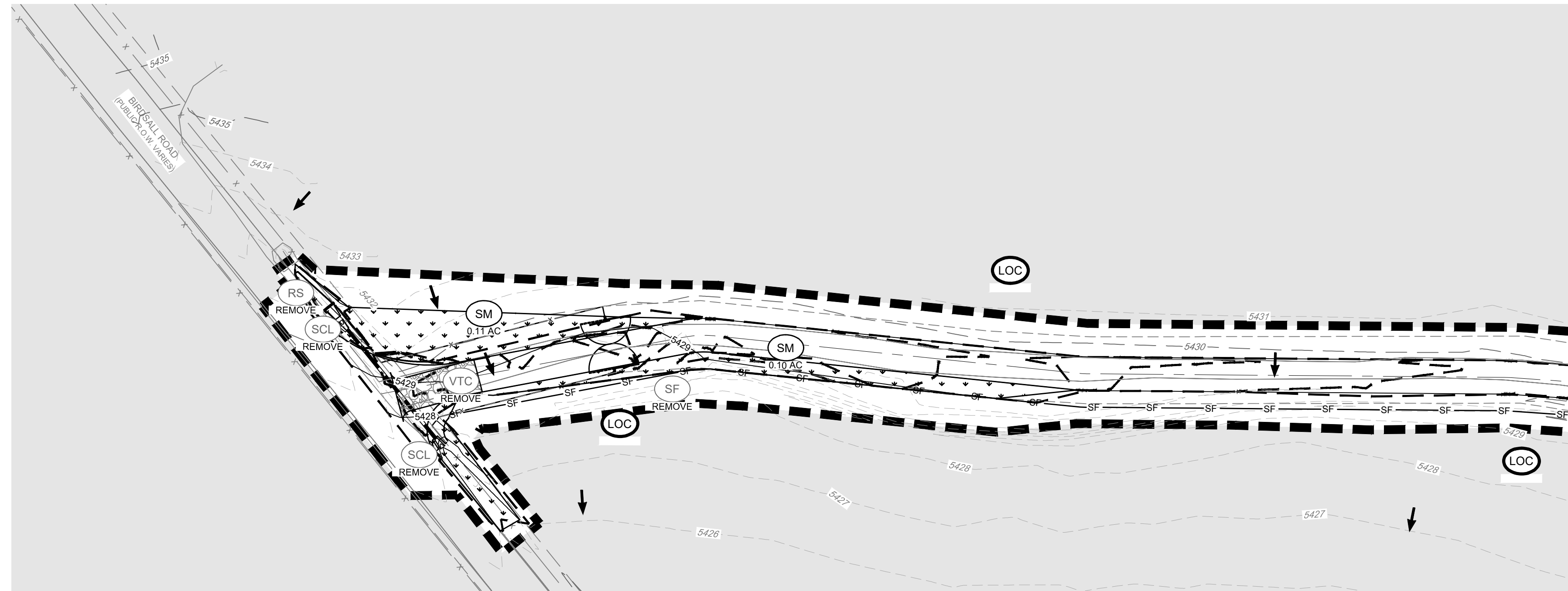
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PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
FINAL (23 OF 24)



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JOB NO.
20-194
SHEET
73 OF 83

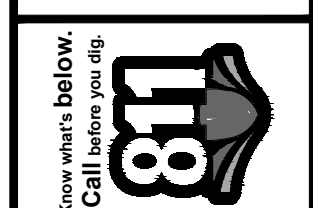
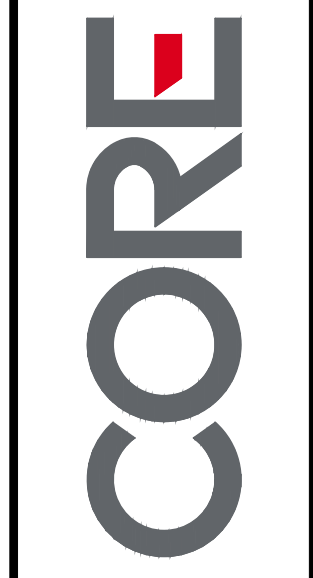


LEGEND

	5280	PROPOSED MAJOR CONTOUR
	5279	PROPOSED MINOR CONTOUR
	5280	EXISTING MAJOR CONTOUR
	5279	EXISTING MINOR CONTOUR
		LIMITS OF CONSTRUCTION
		CUTFILL BOUNDARY
	(RCD)	REINFORCED CHECK DAM
	(CWA)	CONCRETE WASHOUT AREA
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(RS)	ROCK SOCK
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	(OP)	OUTLET PROTECTION
	(SCL)	SEDIMENT CONTROL LOG
	(SM)	SEEDING
	(SF)	SILT FENCE
	(SSA)	STABILIZED STAGING AREA
	(ST)	SEDIMENT TRAP
	(TSC)	TEMPORARY STREAM CROSSING
	(VTC)	VEHICLE TRACKING CONTROL
		PERMANENT STREAM CROSSING
		AGREGATE ACCESS ROAD
	X	PERMANENT FENCE
		EXISTING SECTION LINE
		POND OVERFLOW ROUTE

- 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 INFESABLE. 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.

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

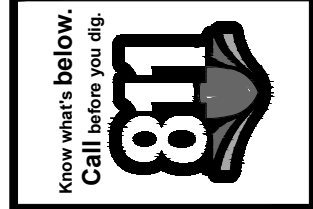
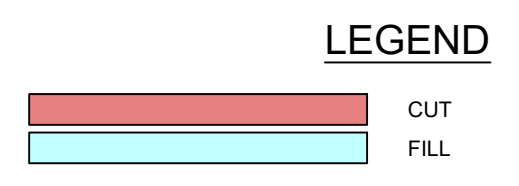
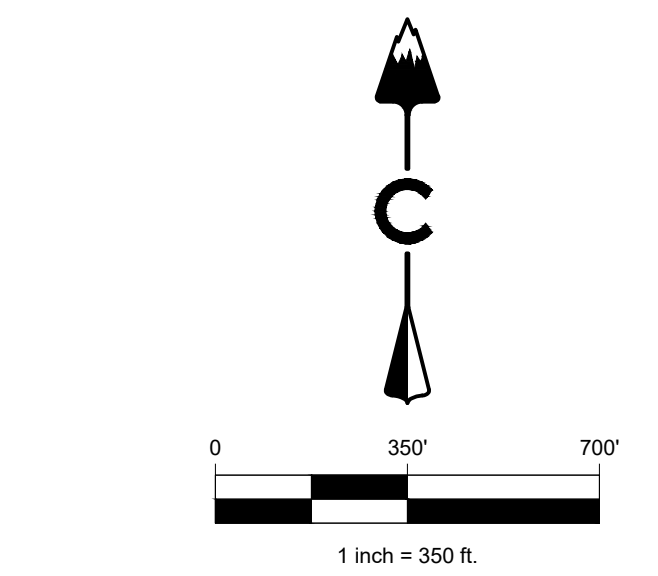
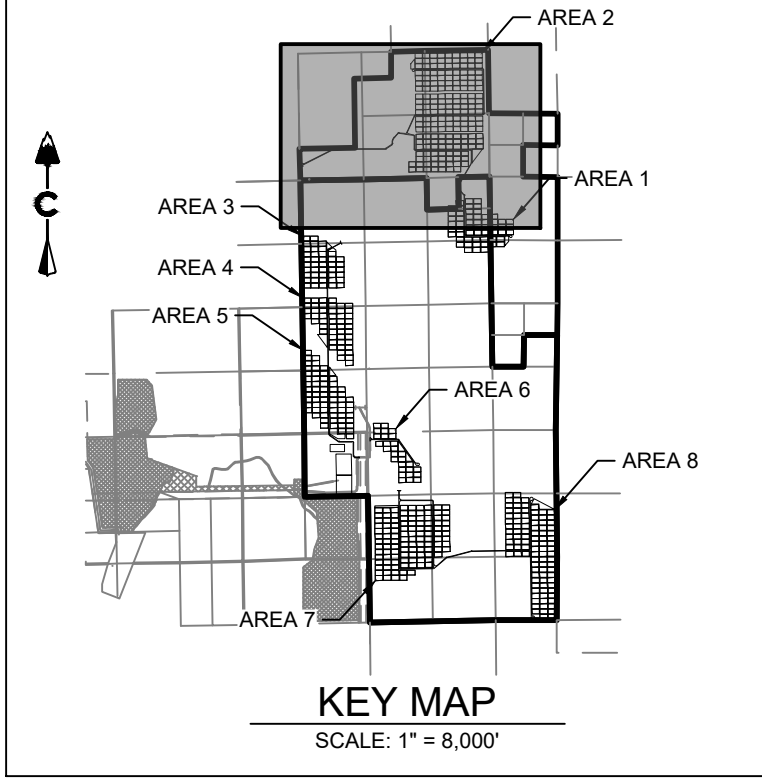
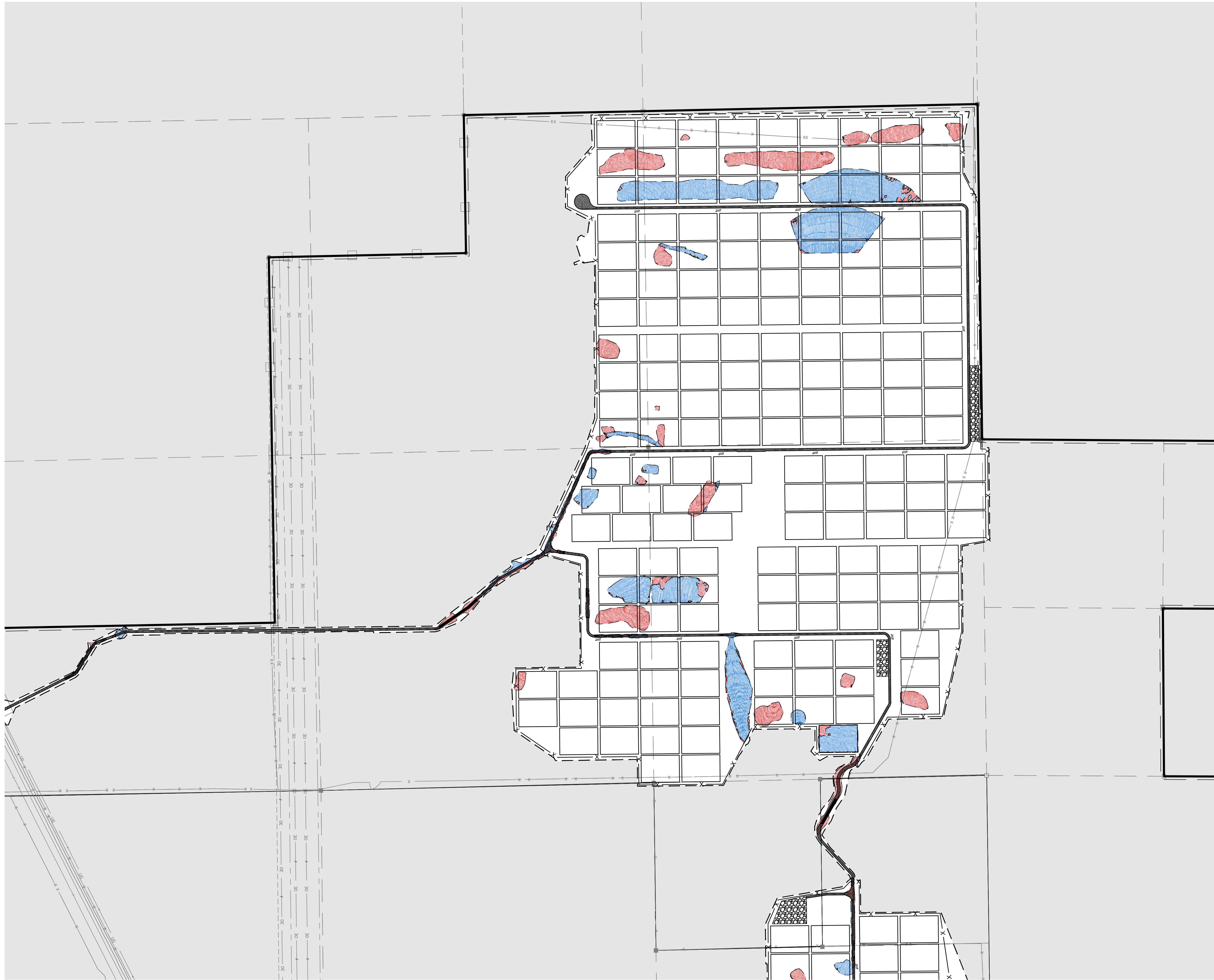


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JOB NO.
 20-194

SHEET
 74 OF 83

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#	REVISION DESCRIPTION	DATE	BY
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PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 CUT-FILL MAP (1 OF 5)



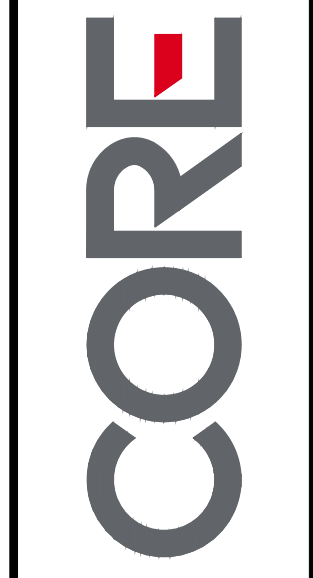
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JOB NO.
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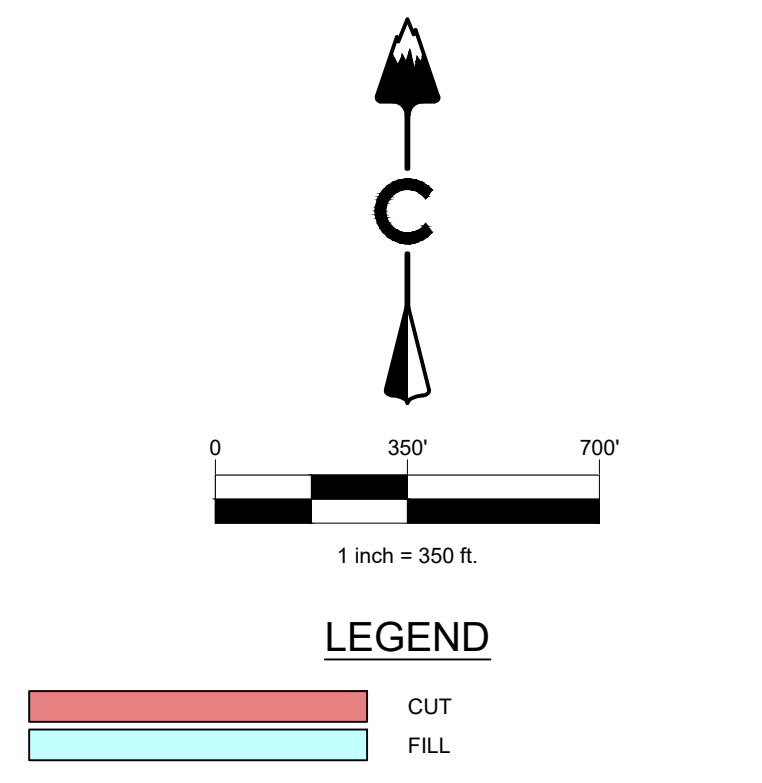
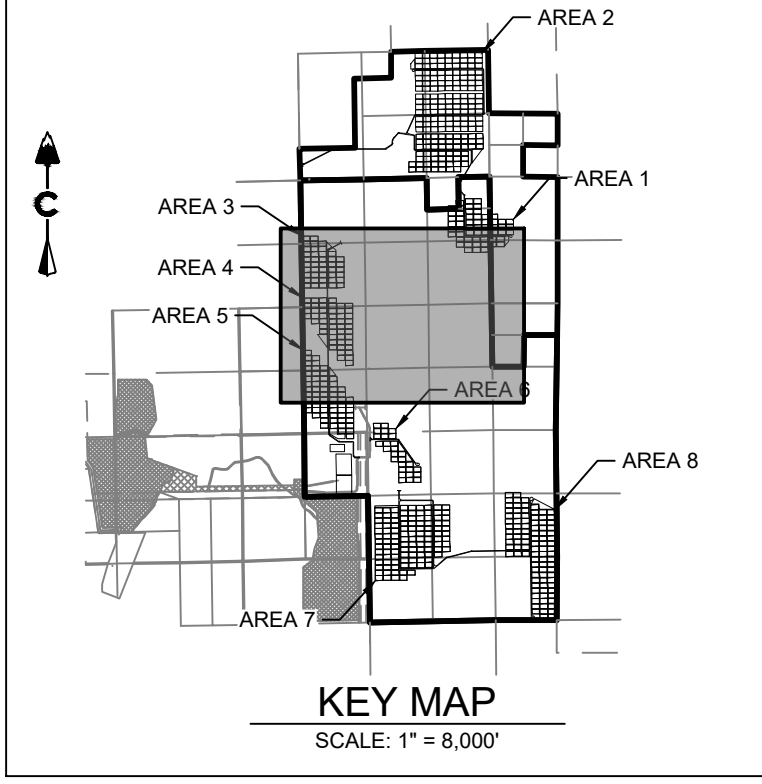
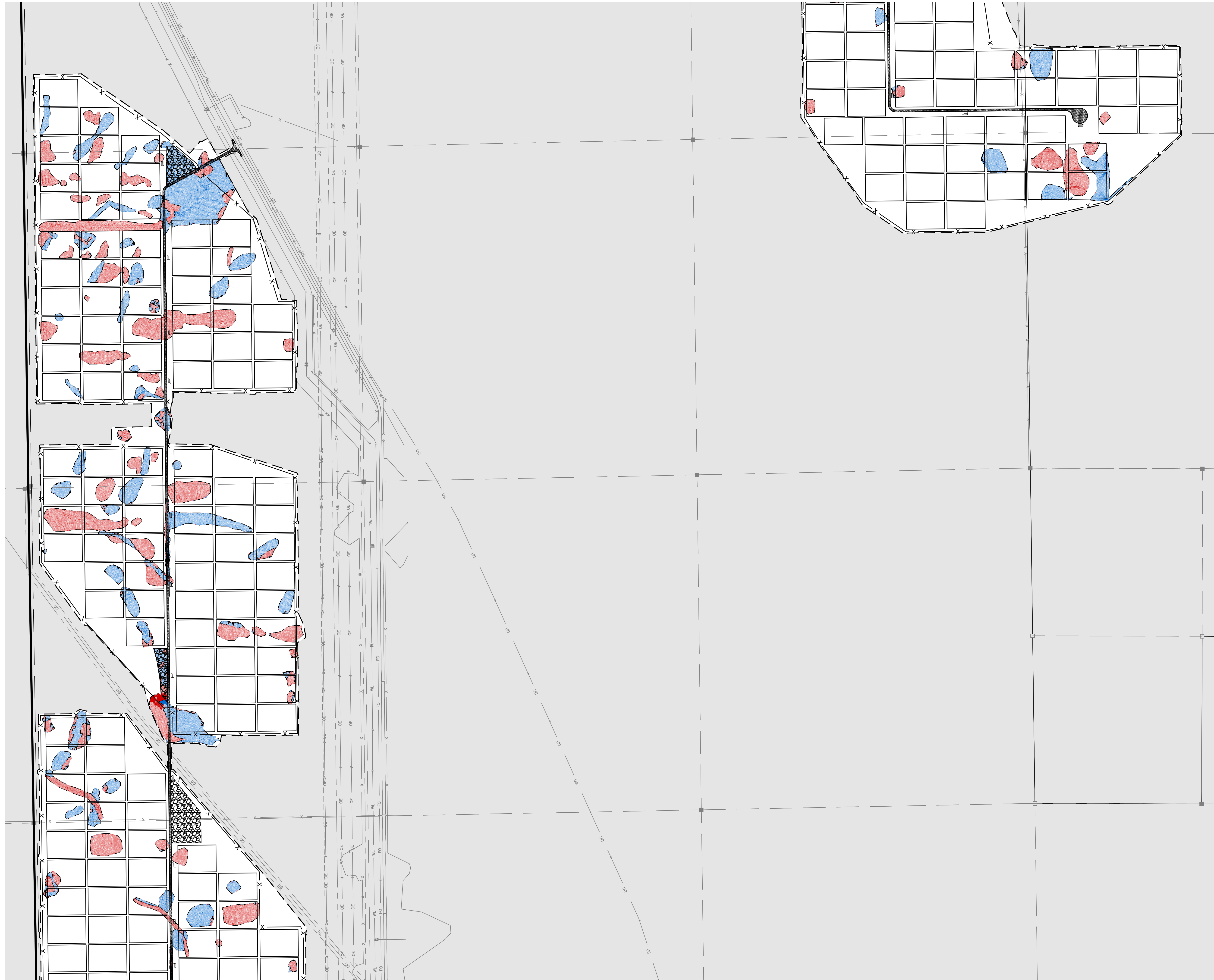
SHEET
 75 OF 83

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LAND DEVELOPMENT
 ENERGY
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#	REVISION DESCRIPTION	DATE	BY
1	SIGNATURE SET	08/25/21	RH

PIKE SOLAR
 EL PASO COUNTY, COLORADO
 GRADING & EROSION CONTROL PLANS
 CUT-FILL MAP (2 OF 5)

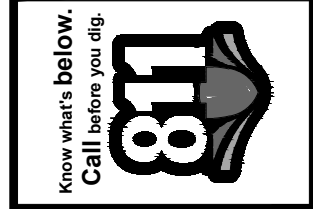


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 DRAWN BY: SD
 CHECKED BY: DB

JOB NO.
 20-194
 SHEET
 76 OF 83

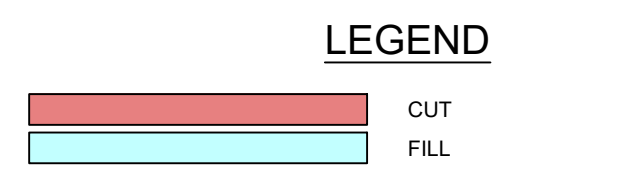
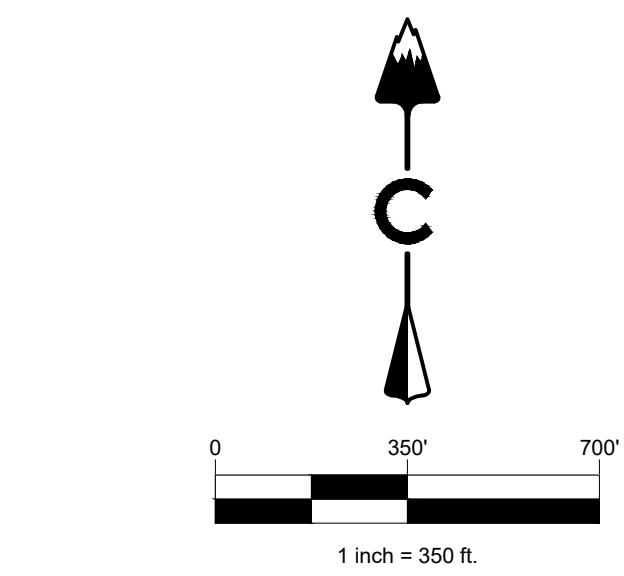
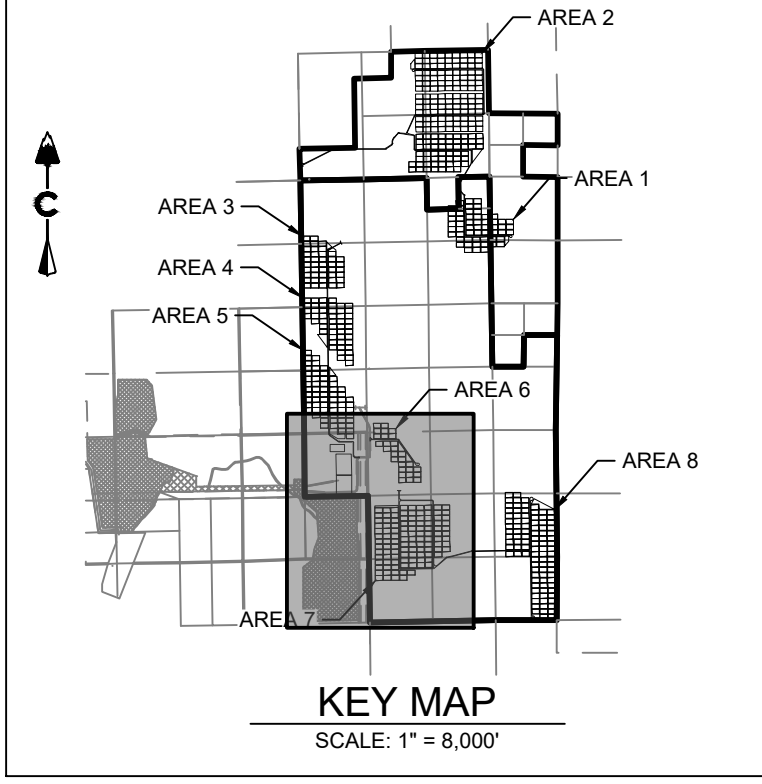
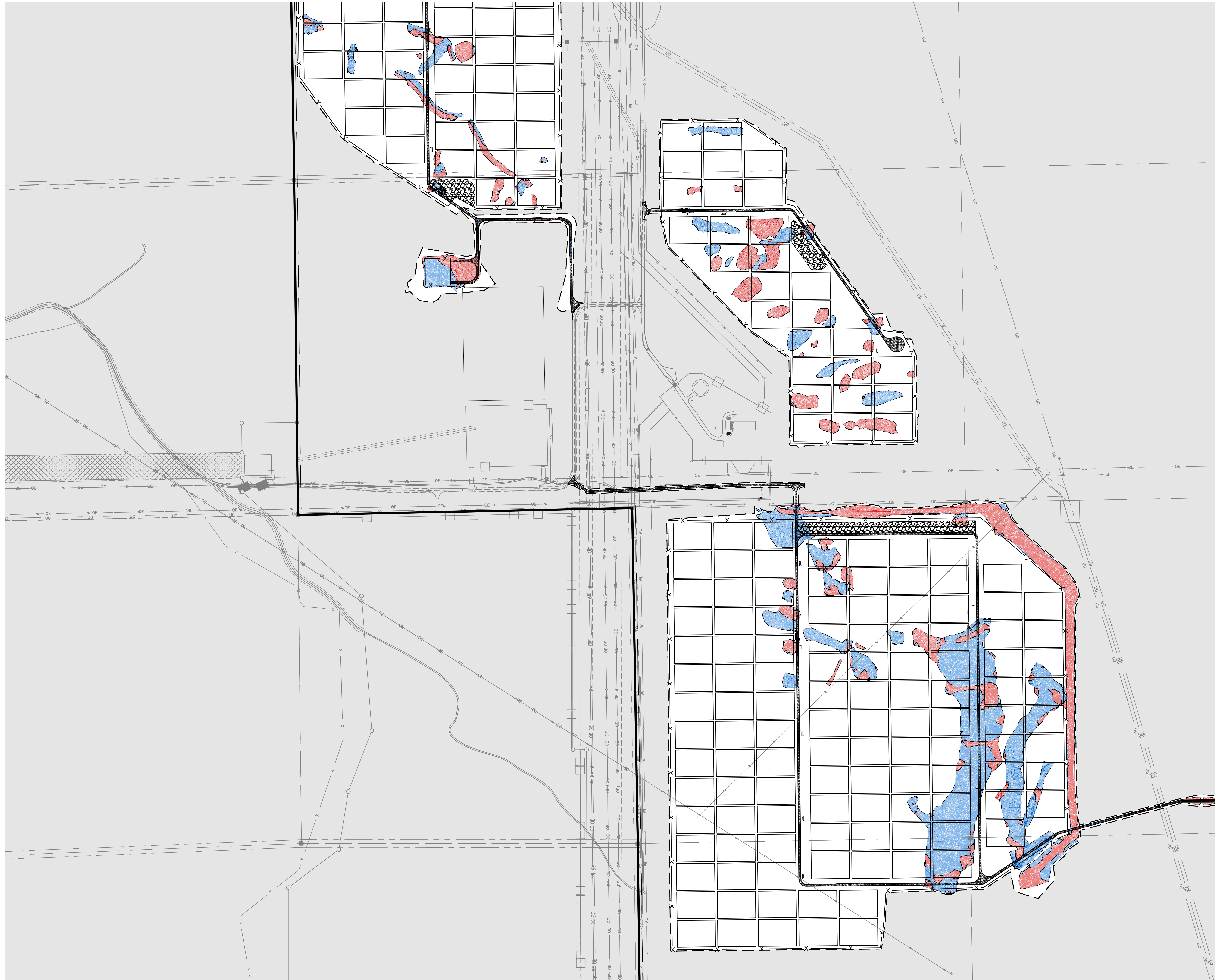
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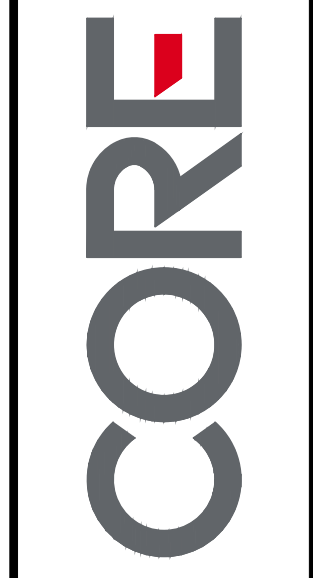
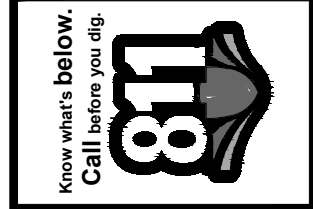
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77 OF 83

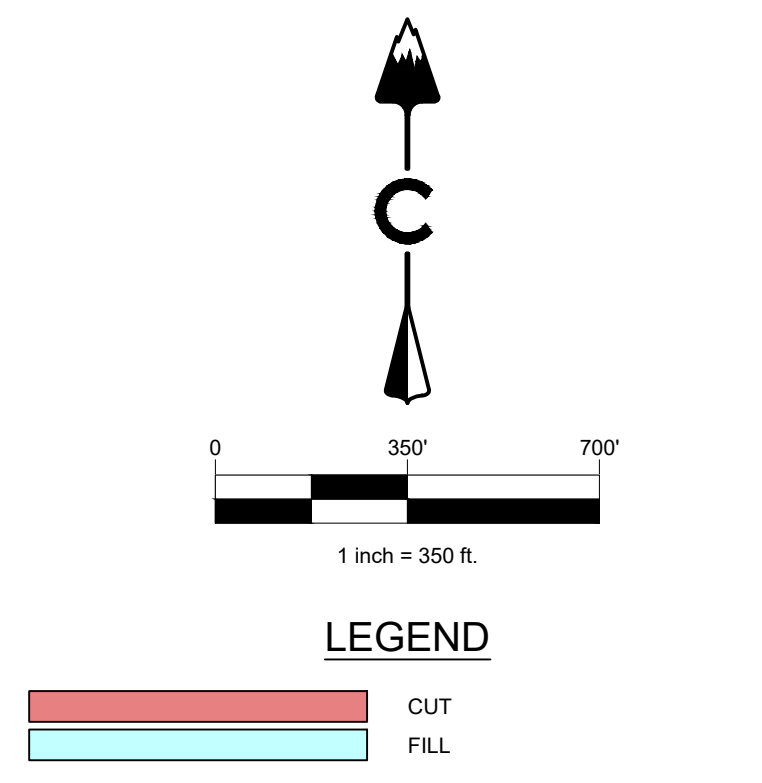
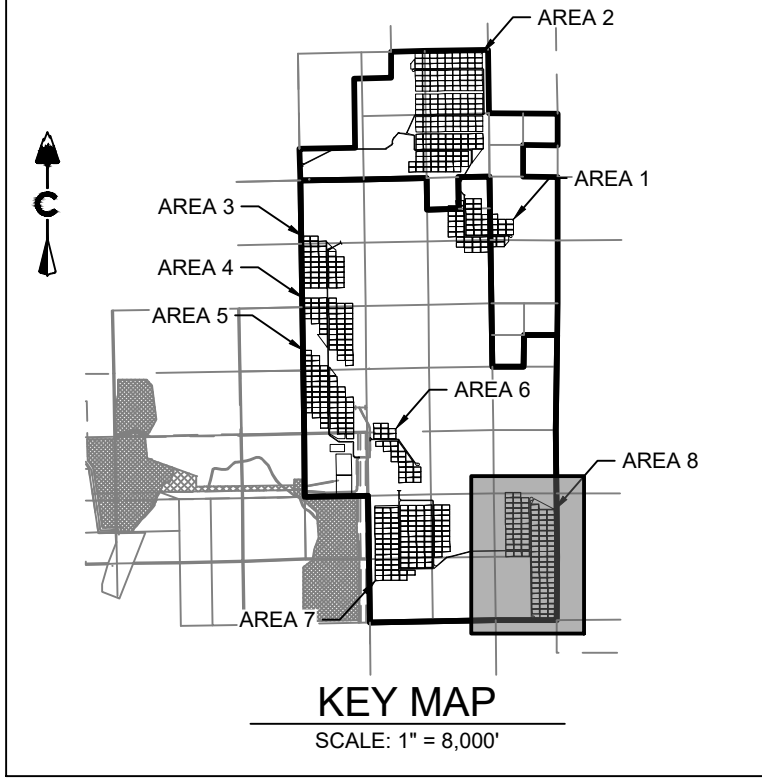
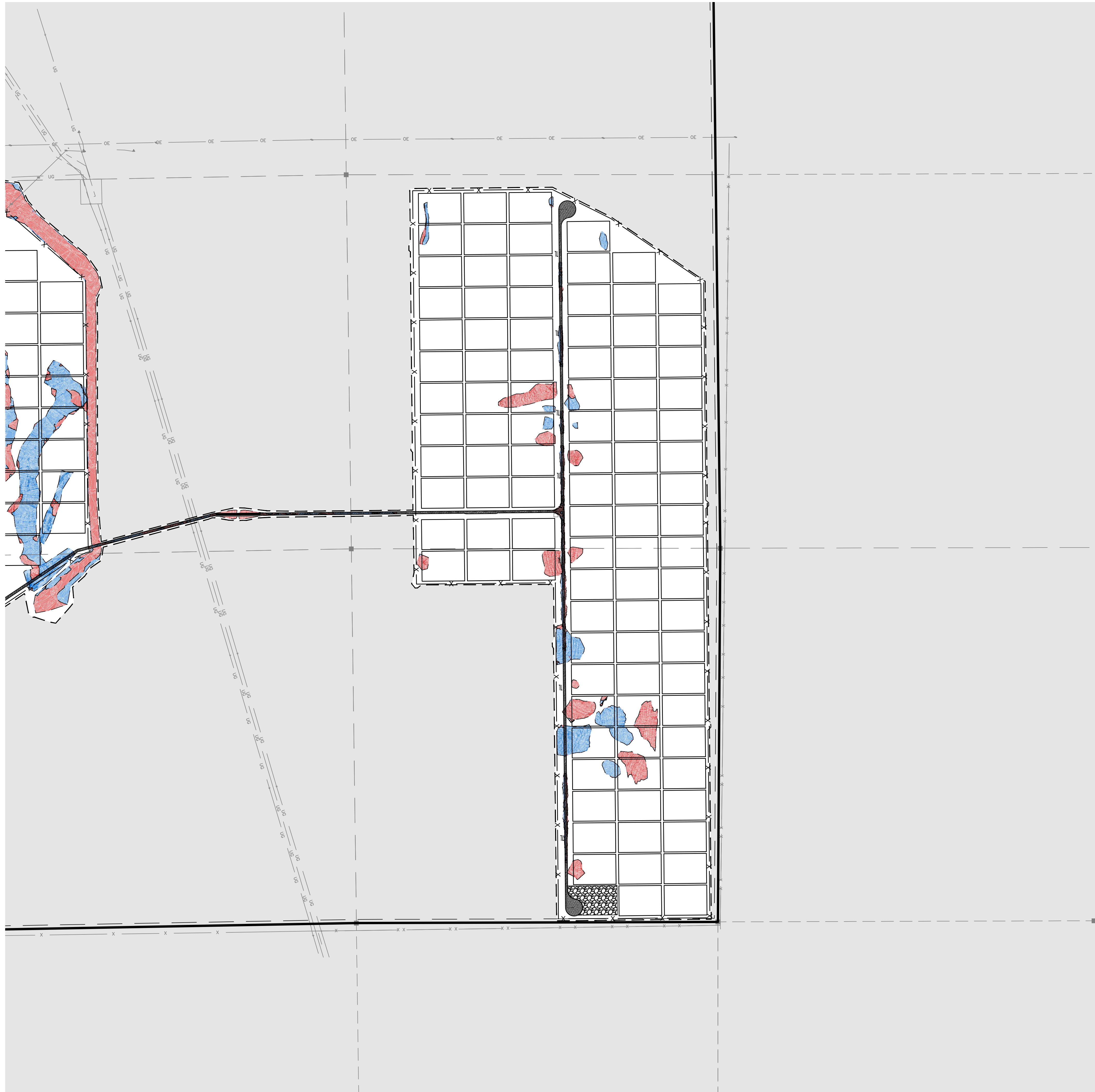
PIKE SOLAR
EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
CUT-FILL MAP (3 OF 5)

#	REVISION DESCRIPTION	DATE	BY
1	SIGNATURE SET	08/25/21	RH



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EL PASO COUNTY, COLORADO
GRADING & EROSION CONTROL PLANS
CUT-FILL MAP (4 OF 5)

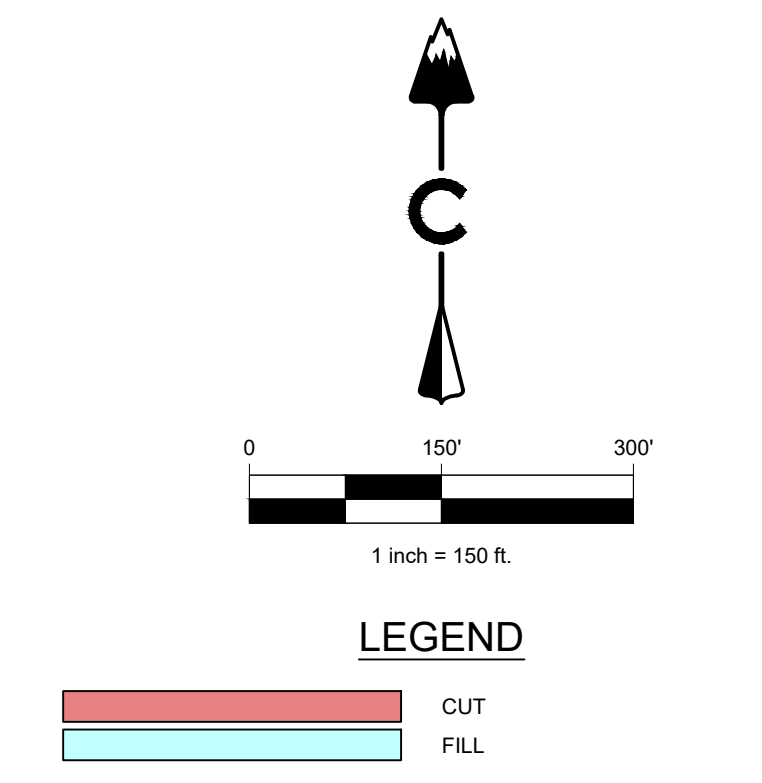
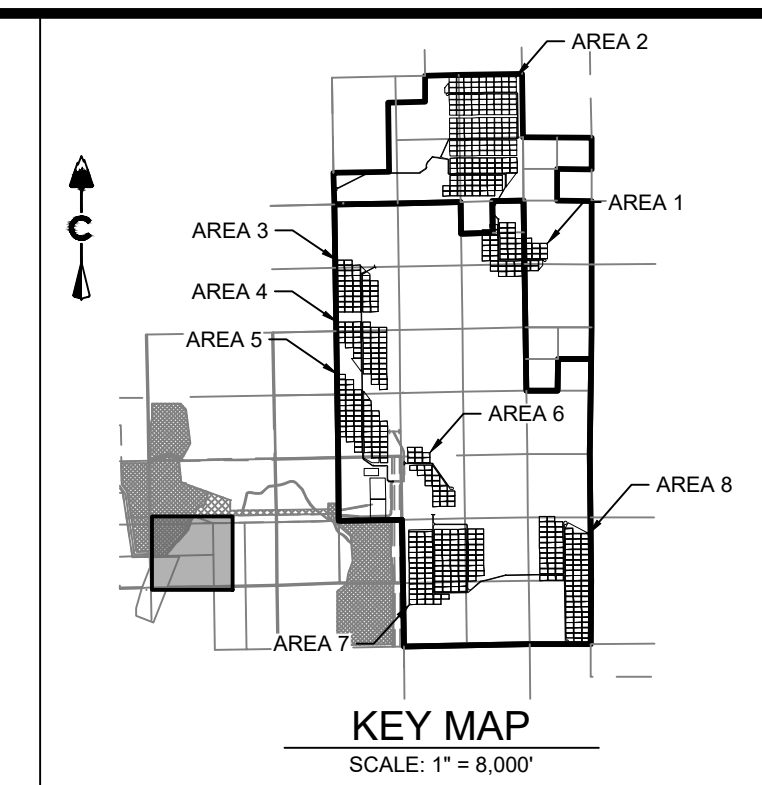
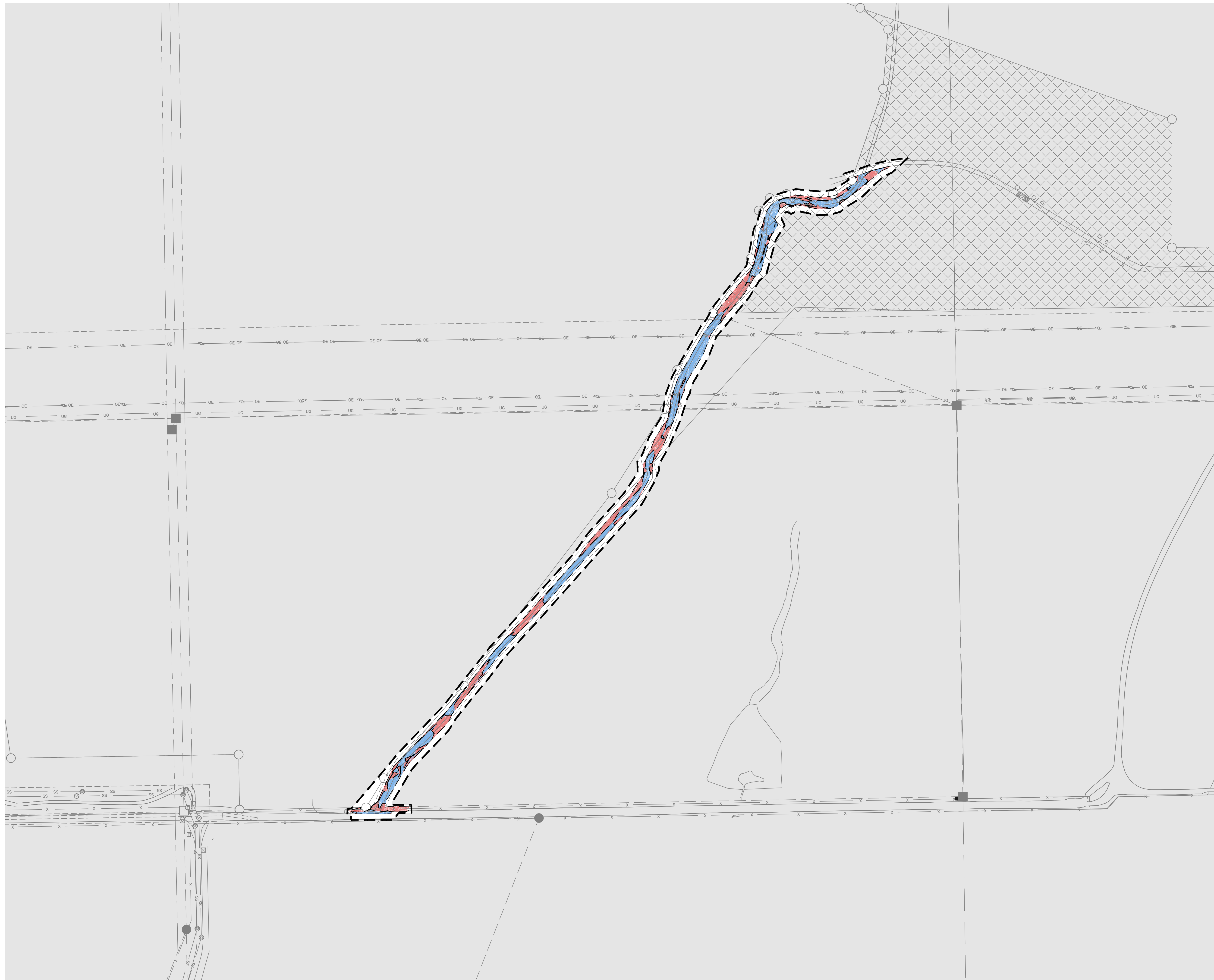
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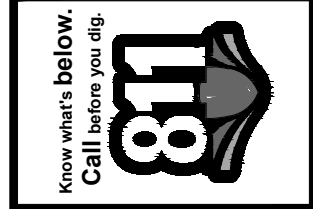
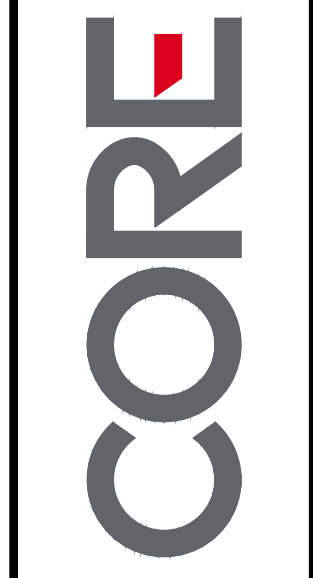
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 GRADING & EROSION CONTROL PLANS
 CUT-FILL MAP (5 OF 5)



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EL PASO COUNTY CONSERVATION DISTRICT
SHOTGUN MIX

Non Irrigated
PLS Rate per acre

Common Name	Recommended Cultivar	% of seed mix	Drill	Broadcast
Bluestem, Big Native	Kaw, Bison, Champ	20.0 %	5.5	11.
Gramma, Blue Native	Lovington, Hachita, Alma	10.0%	1.5	3
Green Needlegrass Native	Lodorm	10.0%	5.0	10
Wheatgrass, Western Native	Amba, Barton	20.0%	8	16
Gramma, Sidecoats Native	Vaughn, Butte, El Reno, Niner	10.0%	4.5	9
Switchgrass Native	Blackwell, Greenville	10%	2	4
Prairie Sandreed Native	Goshen, Pronghorn	10.0%	3.5	7.0
Yellow Indiangrass Native	Cheyenne, Holt, Llano	10.0%	5.0	10

El Paso County Conservation District
5610 Industrial Pl. Suite 100
Colorado Springs, CO 80916

719-600-4706
www.epccd.org

EC-8 Temporary Outlet Protection (TOP)

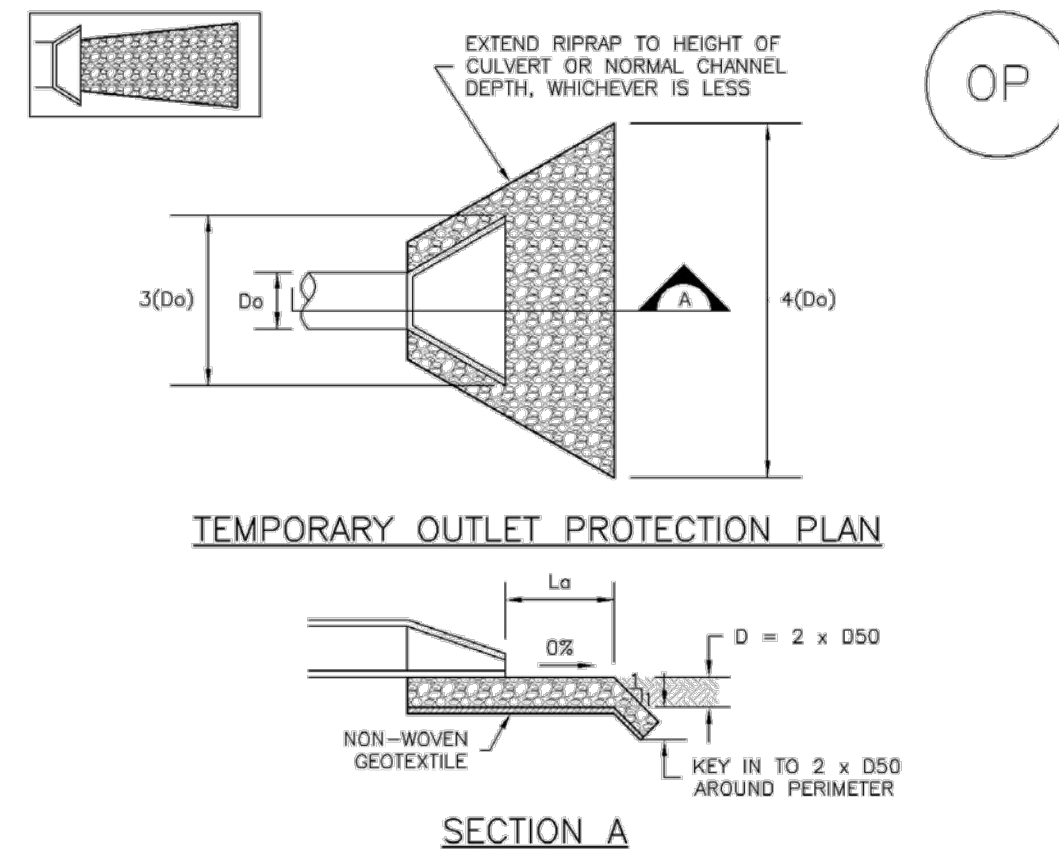


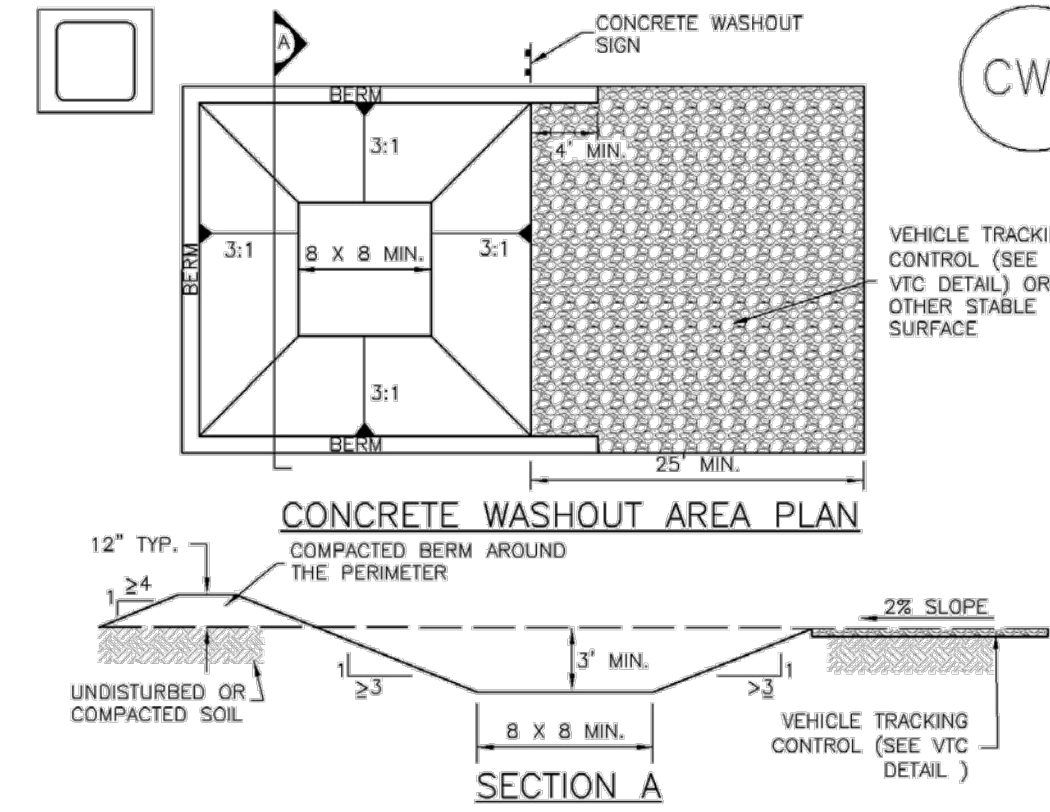
TABLE OP-1. TEMPORARY OUTLET PROTECTION SIZING TABLE

PIPE DIAMETER, D _p (INCHES)	DISCHARGE, Q (CFS)	APRON LENGTH, L _a (FT)	RIPRAP D ₅₀ DIAMETER MIN (INCHES)
8	2.5	5	4
	5	10	6
12	10	10	6
	20	10	6
18	30	23	12
	40	26	16
	30	16	9
	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

Concrete Washout Area (CWA) MM-1

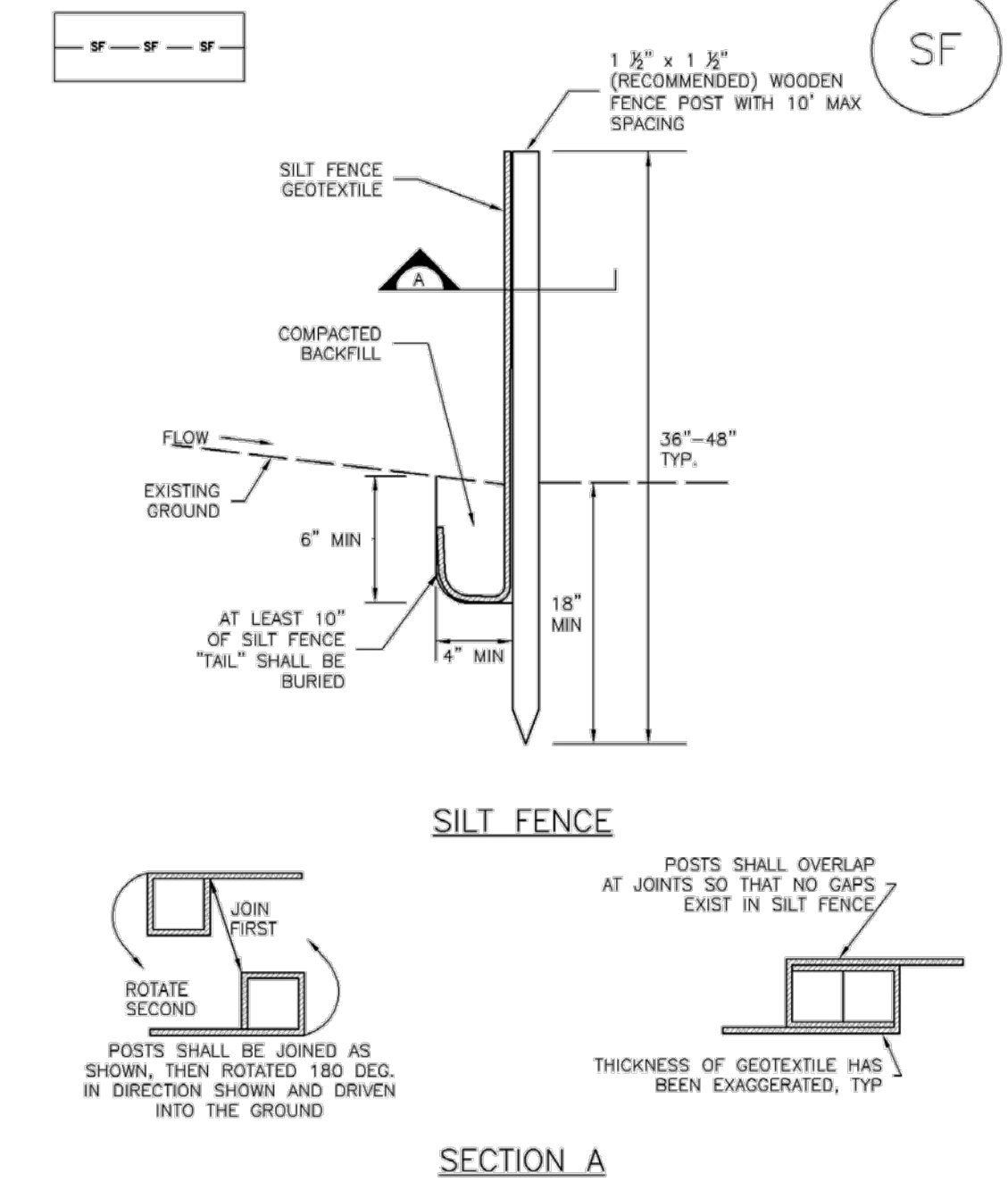


CWA-1. CONCRETE WASHOUT AREA

- 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 1,000' 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 8' 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.

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

Silt Fence (SF) SC-1



SECTION A SF-1. SILT FENCE

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

Temporary Outlet Protection (TOP) EC-8

TEMPORARY OUTLET PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR: -LOCATION OF OUTLET PROTECTION. -DIMENSIONS OF OUTLET PROTECTION.
- DETAIL IS INTENDED FOR PIPES WITH SLOPE \leq 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)

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

Concrete Washout Area (CWA) MM-1

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.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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

Silt Fence (SF) SC-1

SILT FENCE INSTALLATION NOTES

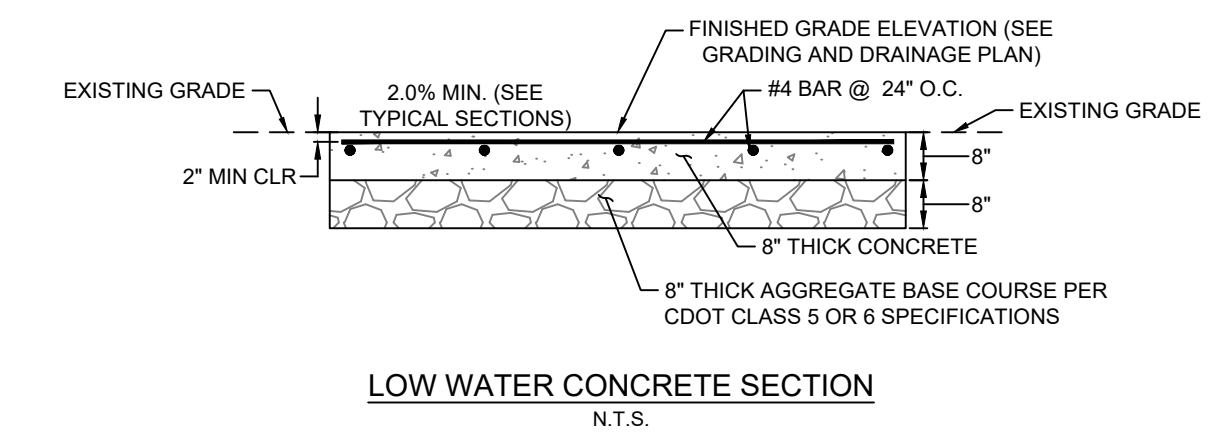
- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
- A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE 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.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, 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.

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



LOW WATER CONCRETE SECTION N.T.S.

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DETAILS (1 OF 4)

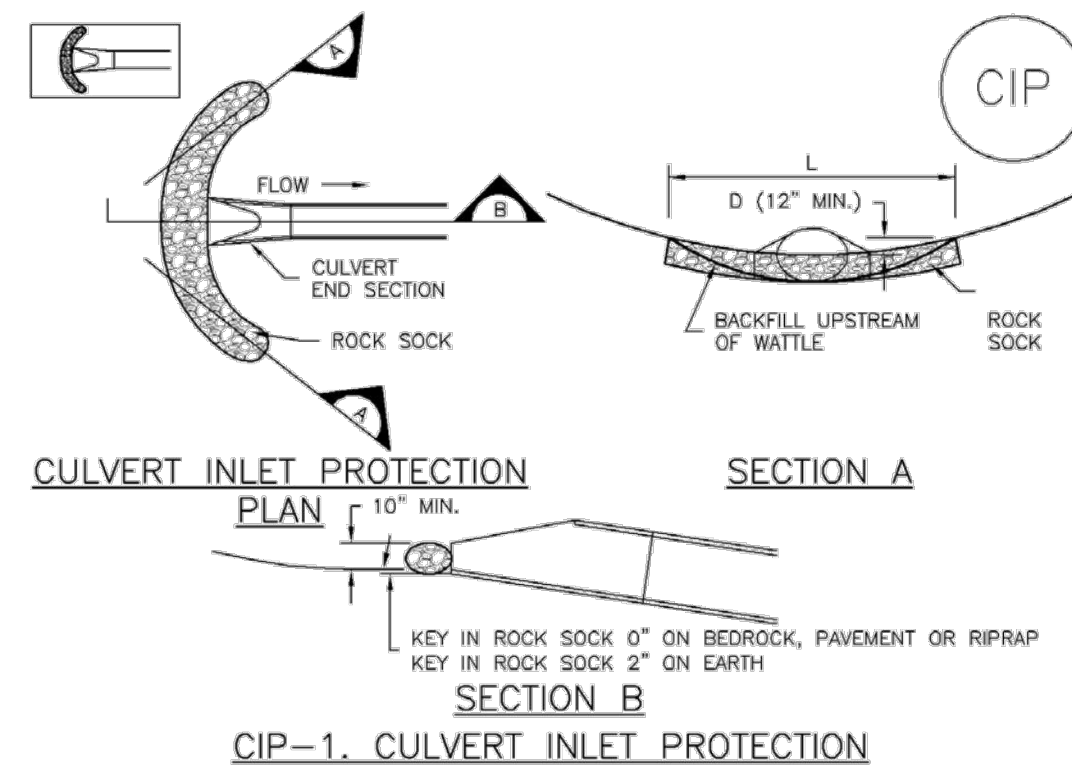
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PROFESSIONAL ENGINEER
NO. 50417
EXPIRES 08-28-2022

JOB NO. 20-194
SHEET 80 OF 83

PPR-22-008

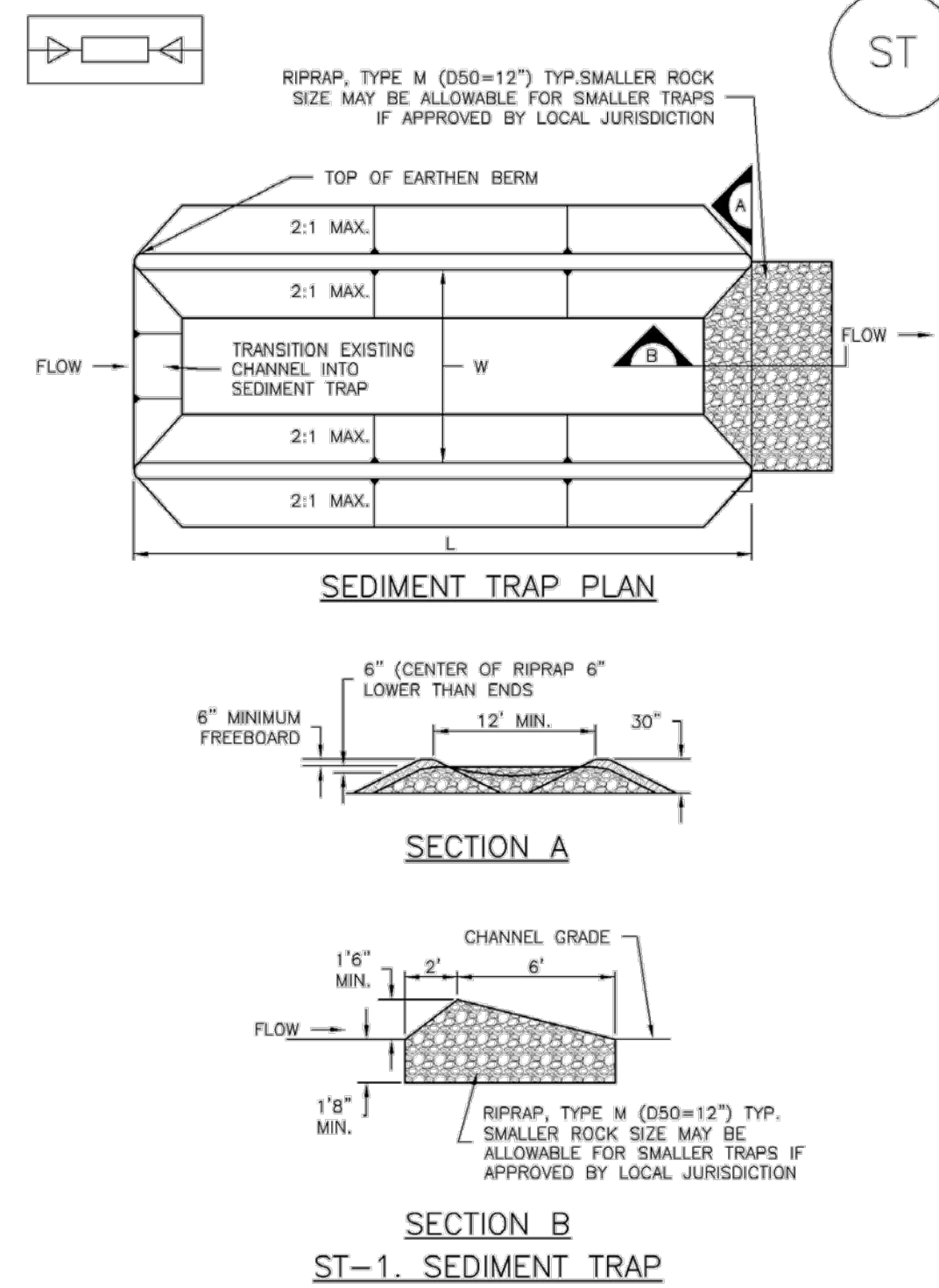
Inlet Protection (IP) SC-6



- 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.

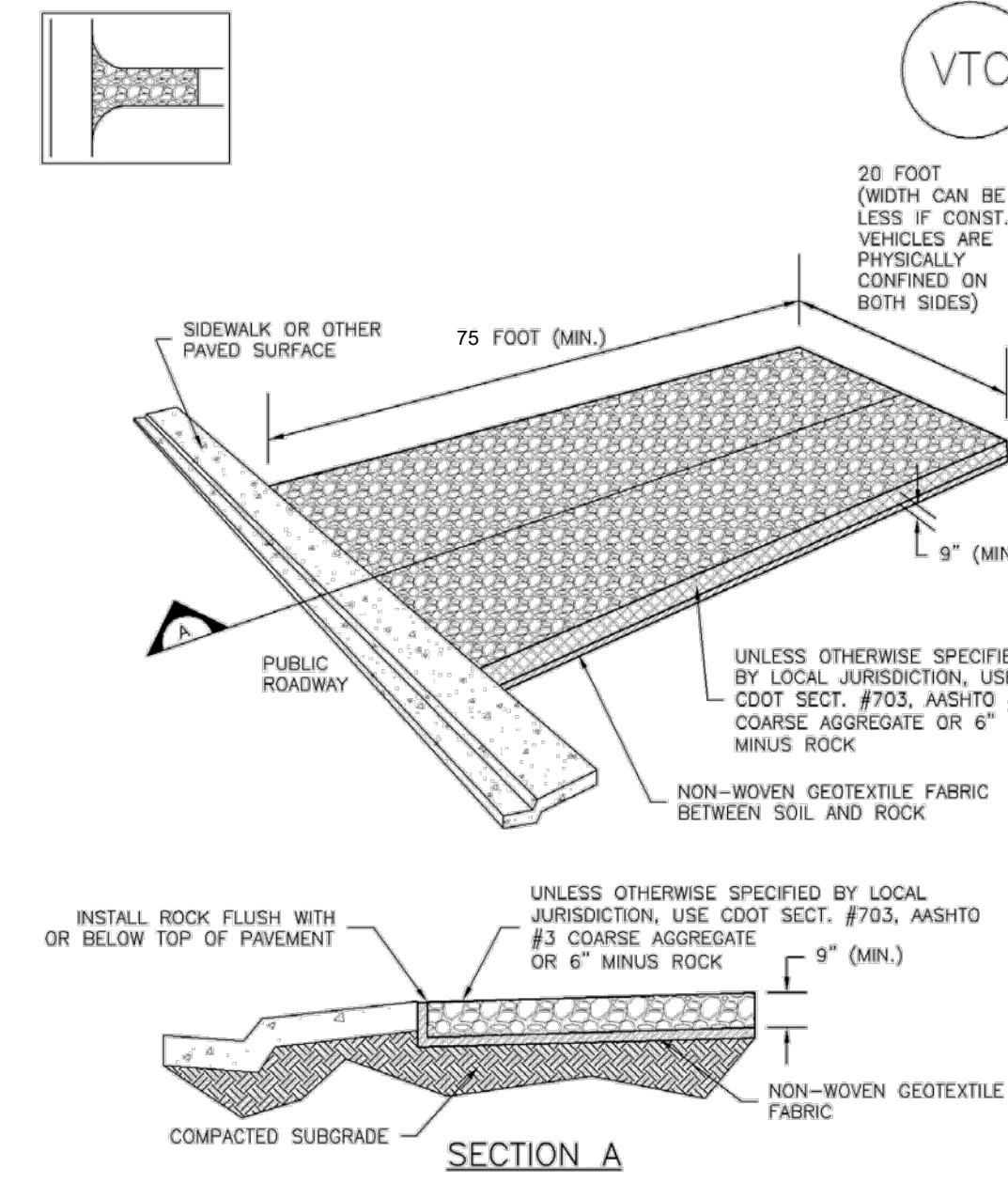
August 2013 Urban Drainage and Flood Control District IP-7
Urban Storm Drainage Criteria Manual Volume 3

SC-8 Sediment Trap (ST)



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

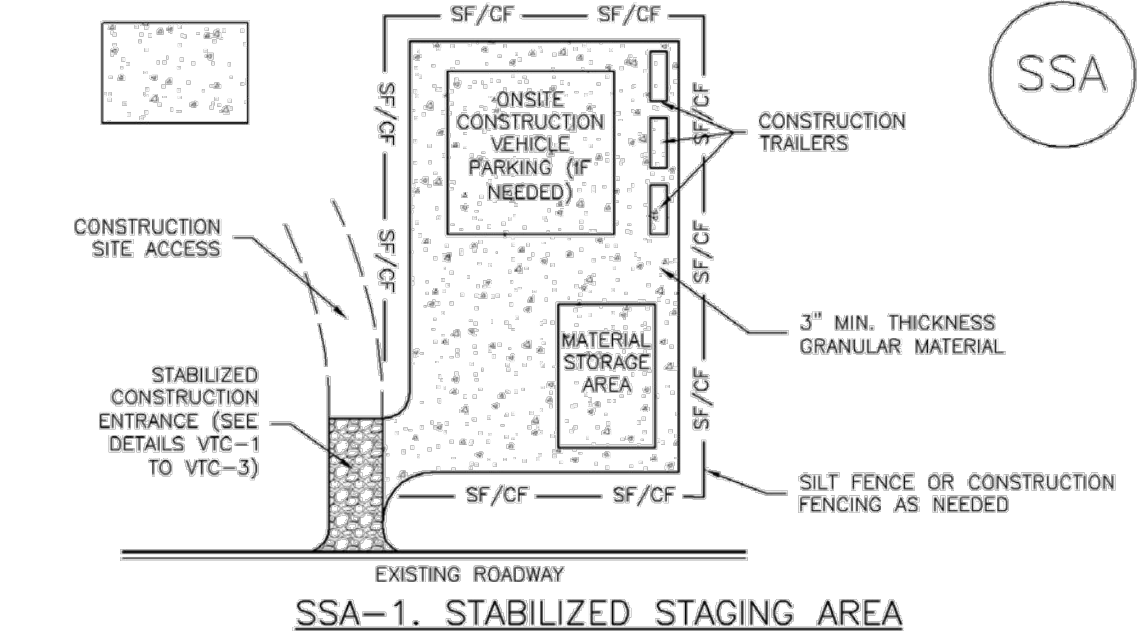
Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

November 2010 Urban Drainage and Flood Control District VTC-3
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.

November 2010 Urban Drainage and Flood Control District SSA-3
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: 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 SWMP 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 Urban Drainage and Flood Control District August 2013
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 UPGRADENT 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 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.

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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. (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District November 2010
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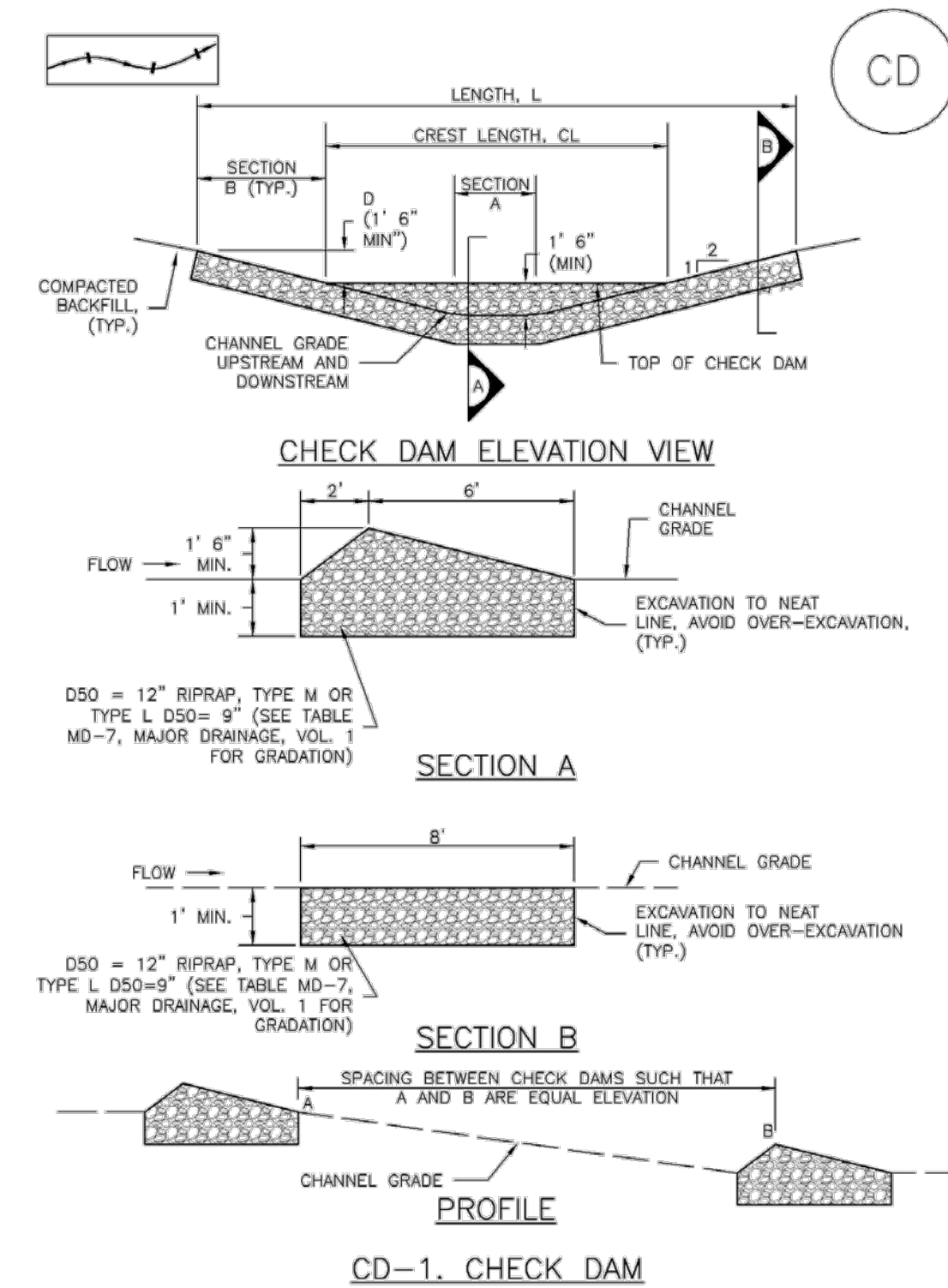
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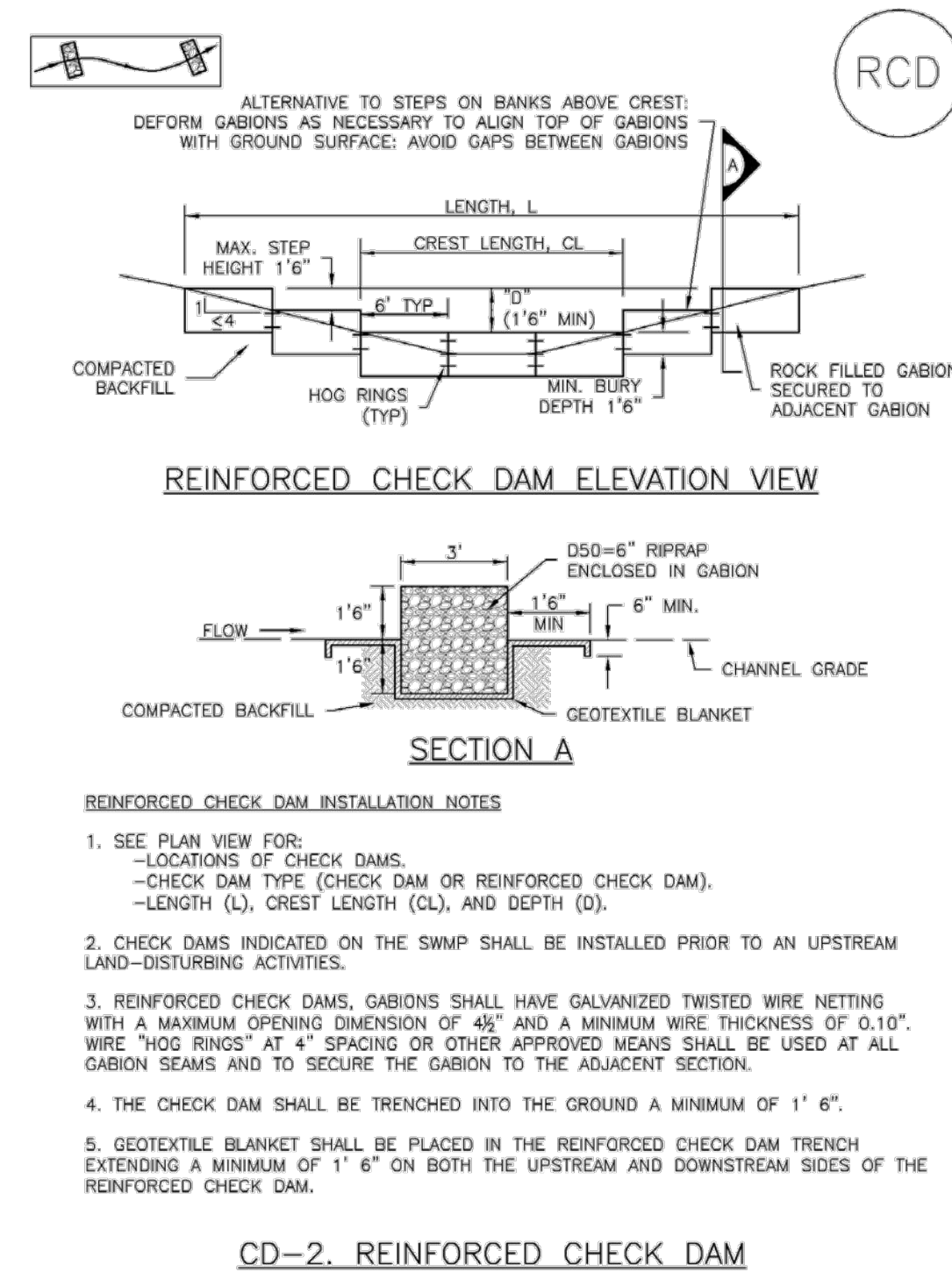
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Check Dams (CD) EC-12



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Check Dams (CD) EC-12



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EC-12 Check Dams (CD)

CHECK DAM INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF CHECK DAMS.
 - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
 - LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).
- CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.
- RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").
- RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'.
- THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.

CHECK DAM 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 CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
 - CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
 - WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE 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.

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

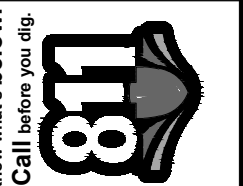
EC-12 Check Dams (CD)

REINFORCED CHECK DAM 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 REINFORCED CHECK DAMS SHALL BE REMOVED AS NEEDED TO MAINTAIN THE EFFECTIVENESS OF BMP, TYPICALLY WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST.
 - REPAIR OR REPLACE REINFORCED CHECK DAMS WHEN THERE ARE SIGNS OF DAMAGE SUCH AS HOLES IN THE GABION OR UNDERCUTTING.
 - REINFORCED CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
 - WHEN REINFORCED CHECK DAMS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, AND COVERED WITH A GEOTEXTILE BLANKET, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAIL ADAPTED FROM DOUGLAS COUNTY, 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.

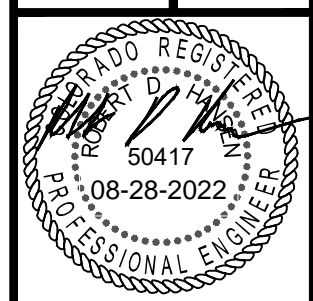
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Sediment Basin (SB)

SC-7

Description

A sediment basin is a temporary pond built on a construction site to capture eroded or disturbed soil transported in storm runoff prior to discharge from the site. Sediment basins are designed to capture site runoff and slowly release it to allow time for settling of sediment prior to discharge. Sediment basins are often constructed in locations that will later be modified to serve as post-construction stormwater basins.



Photograph SB-1. Sediment basin at the toe of a slope. Photo courtesy of WVE.

Appropriate Uses

Most large construction sites (typically greater than 2 acres) will require one or more sediment basins for effective management of construction site runoff. On linear construction projects, sediment basins may be impractical; instead, sediment traps or other combinations of BMPs may be more appropriate.

Sediment basins should not be used as stand-alone sediment controls. Erosion and other sediment controls should also be implemented upstream.

When feasible, the sediment basin should be installed in the same location where a permanent post-construction detention pond will be located.

Design and Installation

The design procedure for a sediment basin includes these steps:

- Basin Storage Volume:** Provide a storage volume of at least 3,600 cubic feet per acre of drainage area. To the extent practical, undisturbed and/or off-site areas should be diverted around sediment basins to prevent "clean" runoff from mixing with runoff from disturbed areas. For undisturbed areas (both on-site and off-site) that cannot be diverted around the sediment basin, provide a minimum of 500 ft³/acre of storage for undeveloped (but stable) off-site areas in addition to the 3,600 ft³/acre for disturbed areas. For stable, developed areas that cannot be diverted around the sediment basin, storage volume requirements are summarized in Table SB-1.
- Basin Geometry:** Design basin with a minimum length-to-width ratio of 2:1 (L:W). If this cannot be achieved because of site space constraints, baffling may be required to extend the effective distance between the inflow point(s) and the outlet to minimize short-circuiting.
- Dam Embankment:** It is recommended that embankment slopes be 4:1 (H:V) or flatter and no steeper than 3:1 (H:V) in any location.

Sediment Basins	
Functions	
Erosion Control	No
Sediment Control	Yes
Site/Material Management	No

Sediment Basin (SB)

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- Inflow Structure:** For concentrated flow entering the basin, provide energy dissipation at the point of inflow.

Table SB-1. Additional Volume Requirements for Undisturbed and Developed Tributary Areas Draining through Sediment Basins

Imperviousness (%)	Additional Storage Volume (ft ³) Per Acre of Tributary Area
Undeveloped	500
10	800
20	1230
30	1600
40	2030
50	2470
60	2980
70	3560
80	4360
90	5300
100	6460

- Outlet Works:** The outlet pipe shall extend through the embankment at a minimum slope of 0.5 percent. Outlet works can be designed using one of the following approaches:
 - Riser Pipe (Simplified Detail):** Detail SB-1 provides a simplified design for basins treating no more than 15 acres.
 - Orifice Plate or Riser Pipe:** Follow the design criteria for Full Spectrum Detention outlets in the EDB Fact Sheet provided in Chapter 4 of this manual for sizing of outlet perforations with an emptying time of approximately 72 hours. In lieu of the trash rack, pack uniformly sized 1½ - to 2-inch gravel in front of the plate or surrounding the riser pipe. This gravel will need to be cleaned out frequently during the construction period as sediment accumulates within it. The gravel pack will need to be removed and disposed of following construction to reclaim the basin for use as a permanent detention facility. If the basin will be used as a permanent extended detention basin for the site, a trash rack will need to be installed once contributing drainage areas have been stabilized and the gravel pack and accumulated sediment have been removed.
 - Floating Skimmer:** If a floating skimmer is used, install it using manufacturer's recommendations. Illustration SB-1 provides an illustration of a Faircloth Skimmer Floating Outlet™, one of the more commonly used floating skimmer outlets. A skimmer should be designed to release the design volume in no less than 48 hours. The use of a floating skimmer outlet can increase the sediment capture efficiency of a basin significantly. A floating outlet continually decants cleanest water off the surface of the pond and releases cleaner water than would discharge from a perforated riser pipe or plate.

Sediment Basin (SB)

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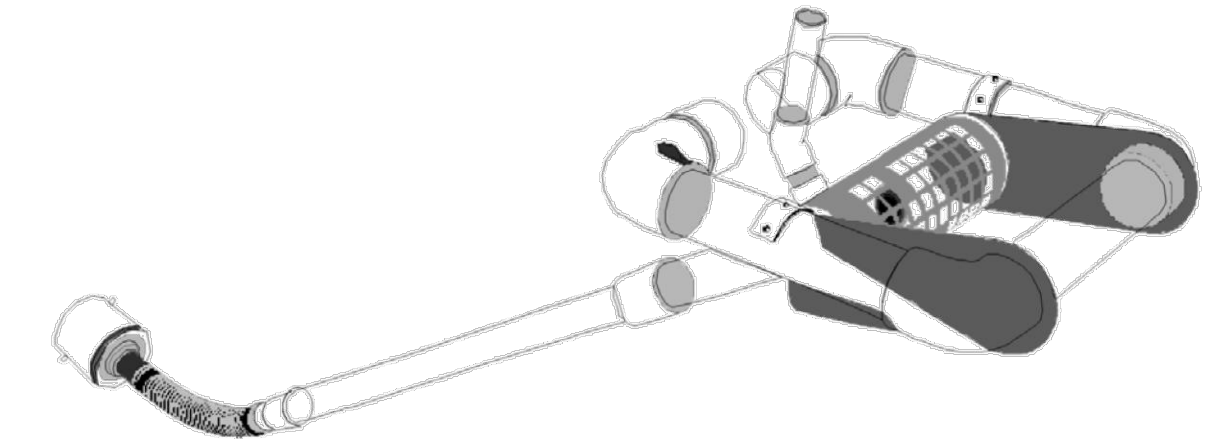


Illustration SB-1. Outlet structure for a temporary sediment basin - Faircloth Skimmer Floating Outlet. Illustration courtesy of J. W. Faircloth & Sons, Inc., FairclothSkimmer.com.

- Outlet Protection and Spillway:** Consider all flow paths for runoff leaving the basin, including protection at the typical point of discharge as well as overtopping.
 - Outlet Protection:** Outlet protection should be provided where the velocity of flow will exceed the maximum permissible velocity of the material of the waterway into which discharge occurs. This may require the use of a riprap apron at the outlet location and/or other measures to keep the waterway from eroding.
 - Emergency Spillway:** Provide a stabilized emergency overflow spillway for rainstorms that exceed the capacity of the sediment basin volume and its outlet. Protect basin embankments from erosion and overtopping. If the sediment basin will be converted to a permanent detention basin, design and construct the emergency spillway(s) as required for the permanent facility. If the sediment basin will not become a permanent detention basin, it may be possible to substitute a heavy polyvinyl membrane or properly bedded rock cover to line the spillway and downstream embankment, depending on the height, slope, and width of the embankments.

Sediment Basin (SB)

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Maintenance and Removal

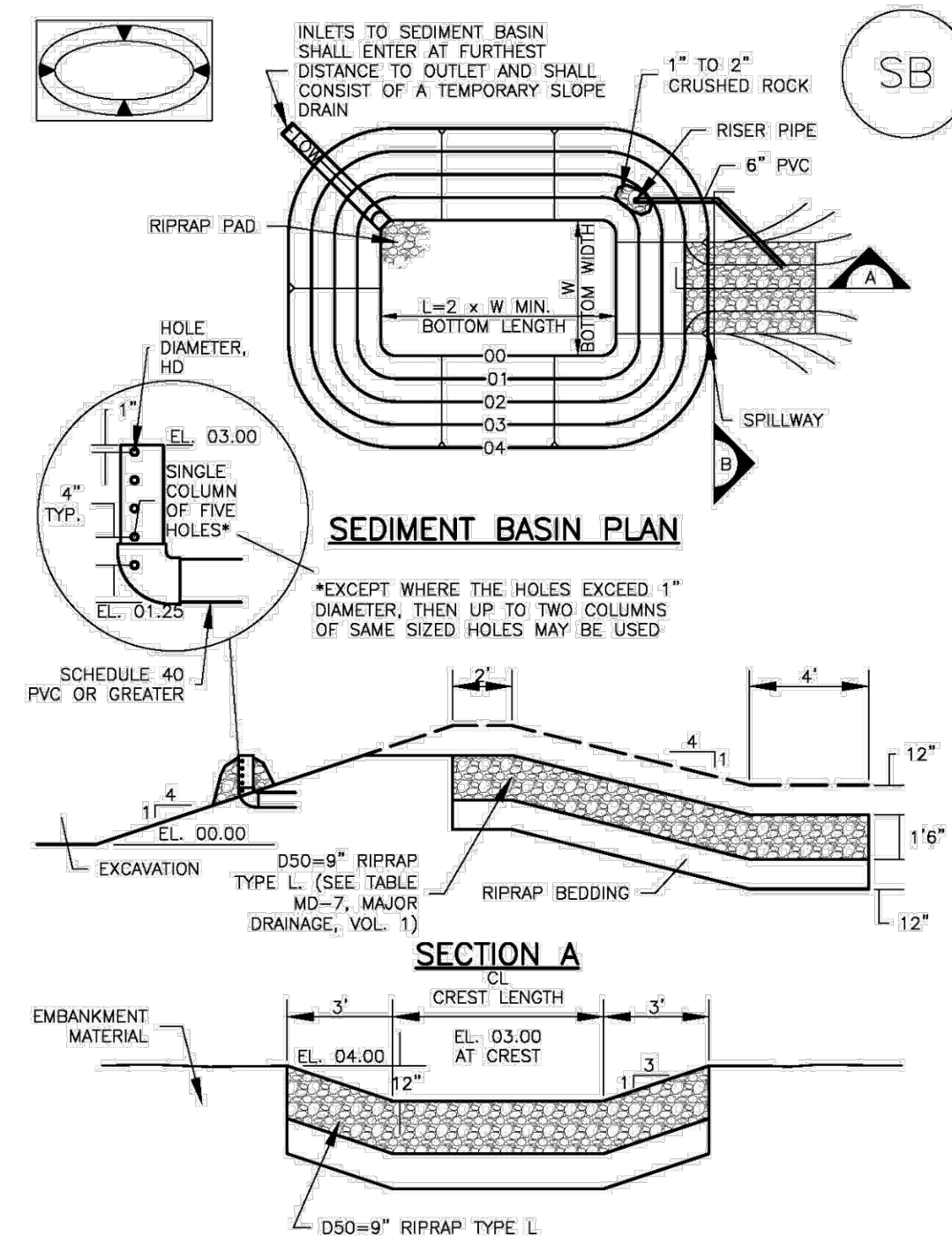
Maintenance activities include the following:

- Dredge sediment from the basin, as needed to maintain BMP effectiveness, typically when the design storage volume is no more than one-third filled with sediment.
- Inspect the sediment basin embankments for stability and seepage.
- Inspect the inlet and outlet of the basin, repair damage, and remove debris. Remove, clean and replace the gravel around the outlet on a regular basis to remove the accumulated sediment within it and keep the outlet functioning.
- Be aware that removal of a sediment basin may require dewatering and associated permit requirements.
- Do not remove a sediment basin until the upstream area has been stabilized with vegetation.

Final disposition of the sediment basin depends on whether the basin will be converted to a permanent post-construction stormwater basin or whether the basin area will be returned to grade. For basins being converted to permanent detention basins, remove accumulated sediment and reconfigure the basin and outlet to meet the requirements of the final design for the detention facility. If the sediment basin is not to be used as a permanent detention facility, fill the excavated area with soil and stabilize with vegetation.

Sediment Basin (SB)

SC-7



Sediment Basin (SB)

SC-7

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 ½	2	¾
2	21	3	1 ¼
3	28	5	1 ¾
4	33 ½	6	2
5	38 ½	8	2 ½
6	43	9	2 ¾
7	47 ½	11	3
8	51	12	3 ½
9	55	13	3 ¾
10	58 ½	15	4
11	61	16	4 ½
12	64	18	5
13	67 ½	19	5 ½
14	70 ½	21	6
15	73 ½	22	6 ½

- SEDIMENT BASIN INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF SEDIMENT BASIN.
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 - FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.
 - FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
 - FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
 - SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS A STORMWATER CONTROL.
 - EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
 - EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
 - PIPE SCH 40 OR GREATER SHALL BE USED.
 - THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

Sediment Basin (SB)

SC-7

- SEDIMENT BASIN 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 IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).
 - SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
 - WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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