

# Kansas Sky Energy Center

## Douglas County, Kansas

Project Number: 09100007

# Conditional Use Permit Plans

PREPARED FOR:

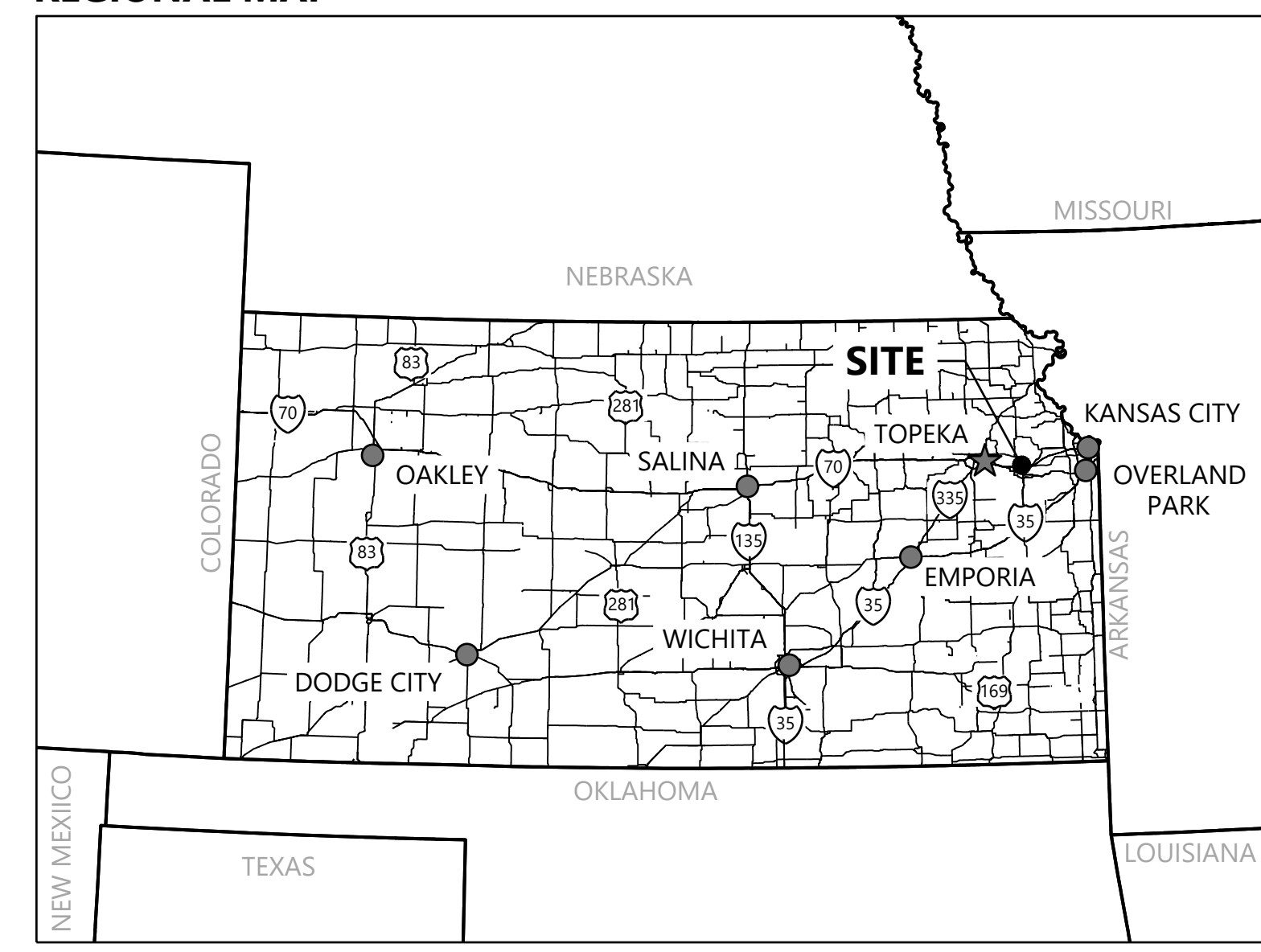
**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

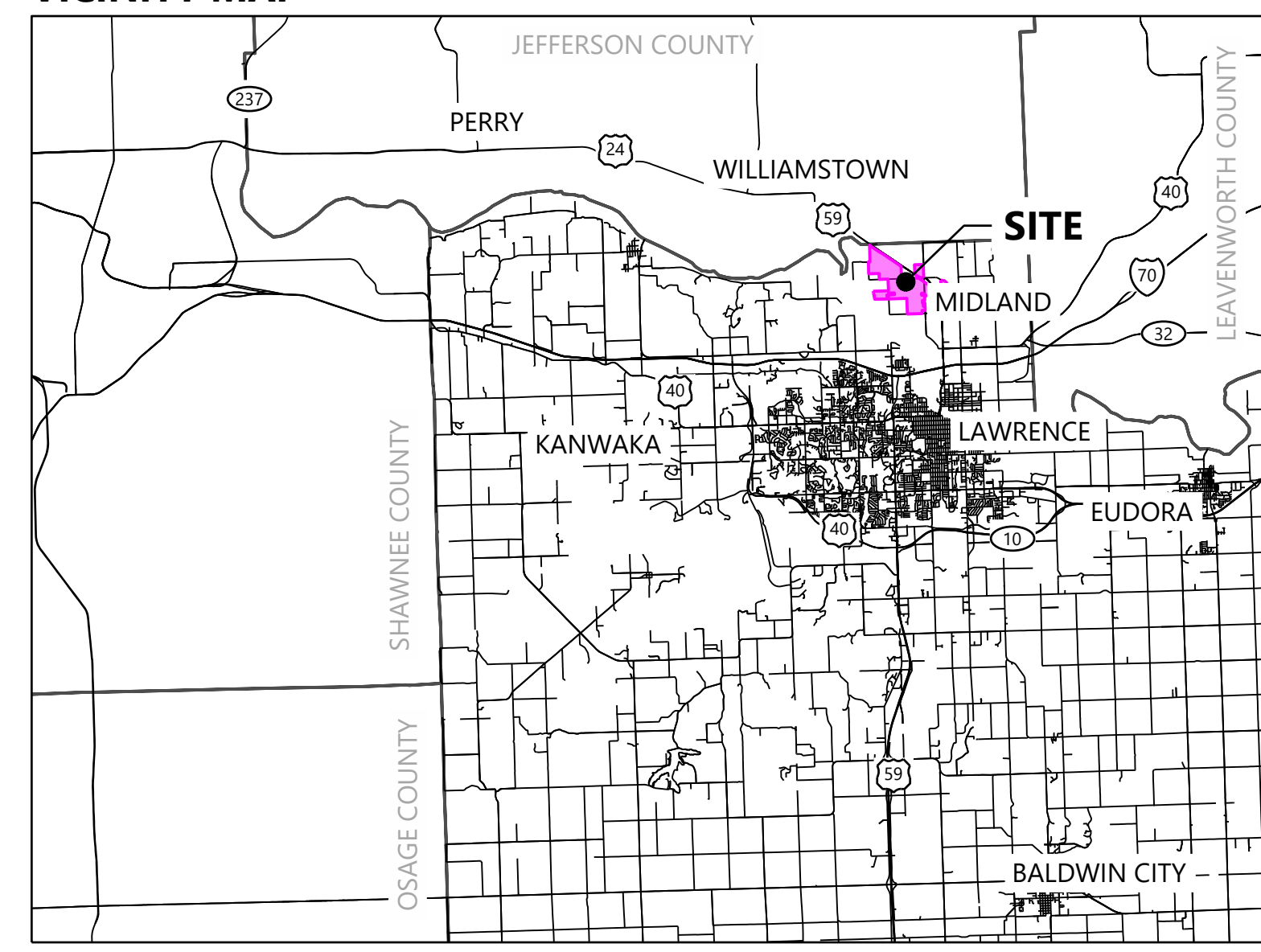
REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	08/14/23	Permitting Site Plans	SJM	EFE	RIG
B	11/02/23	Permitting Site Plans	SJM	EFE	RIG
C	11/10/23	Permitting Site Plans	CRS	EFE	RIG
D	11/13/23	Permitting Site Plans	CRS	EFE	RIG

**REGIONAL MAP**



**VICINITY MAP**



SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C001	Cover
C100	Existing Conditions
C101	Existing Conditions
C102	Existing Conditions
C103	Existing Conditions
C104	Existing Conditions
C105	Parcel Descriptions
C106	Special Exceptions
C200	Overall Setbacks Plan
C201	Overall Site Plan of Proposed Conditions
C300	Grading and Drainage Plans
C301	Grading and Drainage Plans
C302	Grading and Drainage Plans
C303	Grading and Drainage Plans
C304	Grading and Drainage Plans
C305	Grading and Drainage Plans
C306	Grading and Drainage Plans
C307	Grading and Drainage Plans
C308	Grading and Drainage Plans
C309	Grading and Drainage Plans

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C310	Grading and Drainage Plans
C311	Grading and Drainage Plans
C312	Grading and Drainage Plans
C313	Grading and Drainage Plans
C314	Grading and Drainage Plans
C315	Grading and Drainage Plans
C316	Grading and Drainage Plans
C317	Grading and Drainage Plans
C318	Grading and Drainage Plans
C319	Grading and Drainage Plans
C320	Grading and Drainage Plans
C321	Grading and Drainage Plans
C322	Grading and Drainage Plans
C323	Grading and Drainage Plans
C400	Erosion and Sediment Control Plans
C401	Erosion and Sediment Control Plans
C402	Erosion and Sediment Control Plans
C403	Erosion and Sediment Control Plans
C404	Erosion and Sediment Control Plans
C405	Erosion and Sediment Control Plans
C406	Erosion and Sediment Control Plans
C407	Erosion and Sediment Control Plans

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C408	Erosion and Sediment Control Plans
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C410	Erosion and Sediment Control Plans
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C418	Erosion and Sediment Control Plans
C419	Erosion and Sediment Control Plans
C420	Erosion and Sediment Control Plans
C421	Erosion and Sediment Control Plans
C422	Erosion and Sediment Control Plans
C423	Erosion and Sediment Control Plans
C500	Typical Details
C501	Typical Details
C502	Typical Details
C503	Typical Details
C504	Typical Details

CONTACT INFORMATION				
	COMPANY	CONTACT	PHONE	ADDRESS
PROJECT OWNER	FREE STATE SOLAR PROJECT, LLC	BRIANNA BACA	(531) 203-0181	422 ADMIRAL BLVD., KANSAS CITY, MO 64106
PROJECT DEVELOPER	FREE STATE SOLAR PROJECT, LLC	BRIANNA BACA	(531) 203-0181	422 ADMIRAL BLVD., KANSAS CITY, MO 64106
PROJECT OPERATOR	FREE STATE SOLAR PROJECT, LLC	BRIANNA BACA	(531) 203-0181	422 ADMIRAL BLVD., KANSAS CITY, MO 64106
PROJECT MANAGER	WESTWOOD PROFESSIONAL SERVICES	LEVI MITCHELL	(608) 621-6602	8401 GREENWAY BLVD., SUITE 400 MIDDLETON, WI 53562
PROJECT CIVIL ENGINEER	WESTWOOD PROFESSIONAL SERVICES	ERIK ELLIOTT	(984) 202-7498	8401 GREENWAY BLVD., SUITE 400 MIDDLETON, WI 53562

DATA SET INFORMATION			
COORDINATE SYSTEM: KANSAS STATE PLANES NORTH ZONE, NAD83, US FOOT			
DATA TYPE	FILE NAME	PROVIDER	DATE
AERIAL IMAGE	1.5.1 2022-08-24-FREESTATE_DOUGLAS_CO-SAM-ALTA-SURVEY(AERIAL)(PRELIM)	SAM LLC	08/24/2022
LAND CONTROL	2022_10_17_FreeState_Boundary.shp	SAVION	10/17/2022
ALTA SURVEY	1.5.1 2022-08-24-FREESTATE_DOUGLAS_CO-SAM-ALTA-SURVEY(AERIAL)(PRELIM)	SAM LLC	08/24/2022
TOPOGRAPHY	1.5.1 2022-08-24-FREESTATE_DOUGLAS_CO-SAM-ALTA-SURVEY(AERIAL)(PRELIM)	SAM LLC	08/24/2022
WETLAND	1.8.4 2022-09-01_FreeState_BMcD_RevISED_WDR	BURNS & MCDONNELL	09/01/2022
CULTURAL	1.8.5 2022-09-06_FreeState_BMcD_Cultural Report	BURNS & MCDONNELL	09/06/2022
BIOLOGICAL	1.8.3 2022-09-01_FreeState_BMcD_RevISED_HA	BURNS & MCDONNELL	09/01/2022
GEOTECHNICAL	1.6.2 DEN22R141162_Free State Solar Goetechnical Engineering Study_FINAL	KLEINFELDER	09/01/2022

**Kansas Sky Energy Center**  
Douglas County, Kansas

Cover

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023  
SHEET: C001  
REV: D

PREPARED FOR:  
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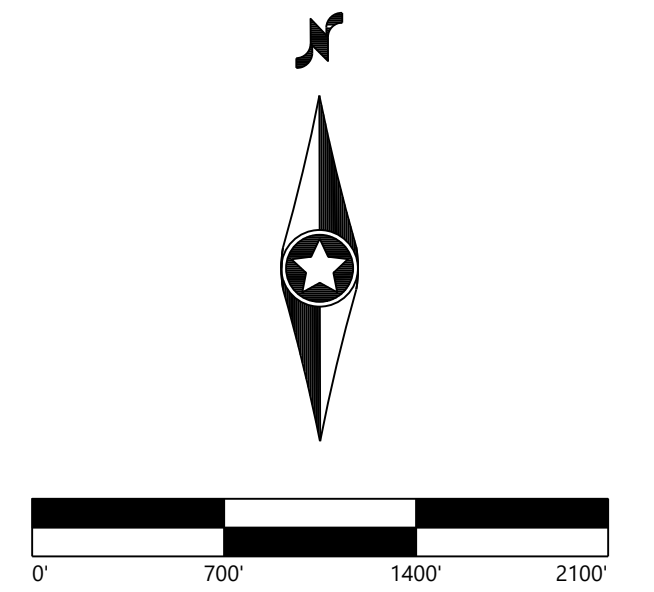
**LEGEND:**

- PROJECT AREA BOUNDARY
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. 5' INDEX CONTOUR
- EX. 1' INTERVAL CONTOUR
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. RAIL LINE
- EX. FENCE
- EX. OVERHEAD POWER
- EX. FIBER OPTIC LINE
- EX. GAS PIPELINE
- EX. TELEPHONE LINE
- EX. WATER LINE
- EX. WETLAND
- LEVEE CRITICAL ZONE
- FEMA FLOOD ZONE A
- PROPOSED MODULE AREA PERIMETER FENCE
- PROPOSED SUBSTATION SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED MODULE AREA BOUNDARIES
- PROPOSED ACCESS ROAD
- PROPOSED INVERTER SKID
- PROPOSED BASIN LOCATION
- PROPOSED PROJECT FACILITIES
- PROPOSED TEMPORARY LAYDOWN YARD
- PROPOSED WILDLIFE CORRIDOR
- PROPOSED TRACKING SOLAR ARRAY
- FLOOD DEPTH: 1-2'
- FLOOD DEPTH: 2-3'
- FLOOD DEPTH: 3+'

- NOTES:**
- FLOOD MODELING OF EXISTING 100 YR. 24-HR STORM PROVIDED BY WESTWOOD.
  - TOTAL SITE AREA: 631 ACRES
  - MV ROUTING SHOWN FOR REFERENCE ONLY

**PRELIMINARY ELECTRICAL DATA**

MODULES PER STRING	29
NUMBER OF STRINGS	10,565
NUMBER OF MODULES	306,385
MODULE TYPE	CANADIAN SOLAR CS7N-670TB-AG MODULE
MODULE SIZE	670 W
RACKING TYPE	NEXTRACKER

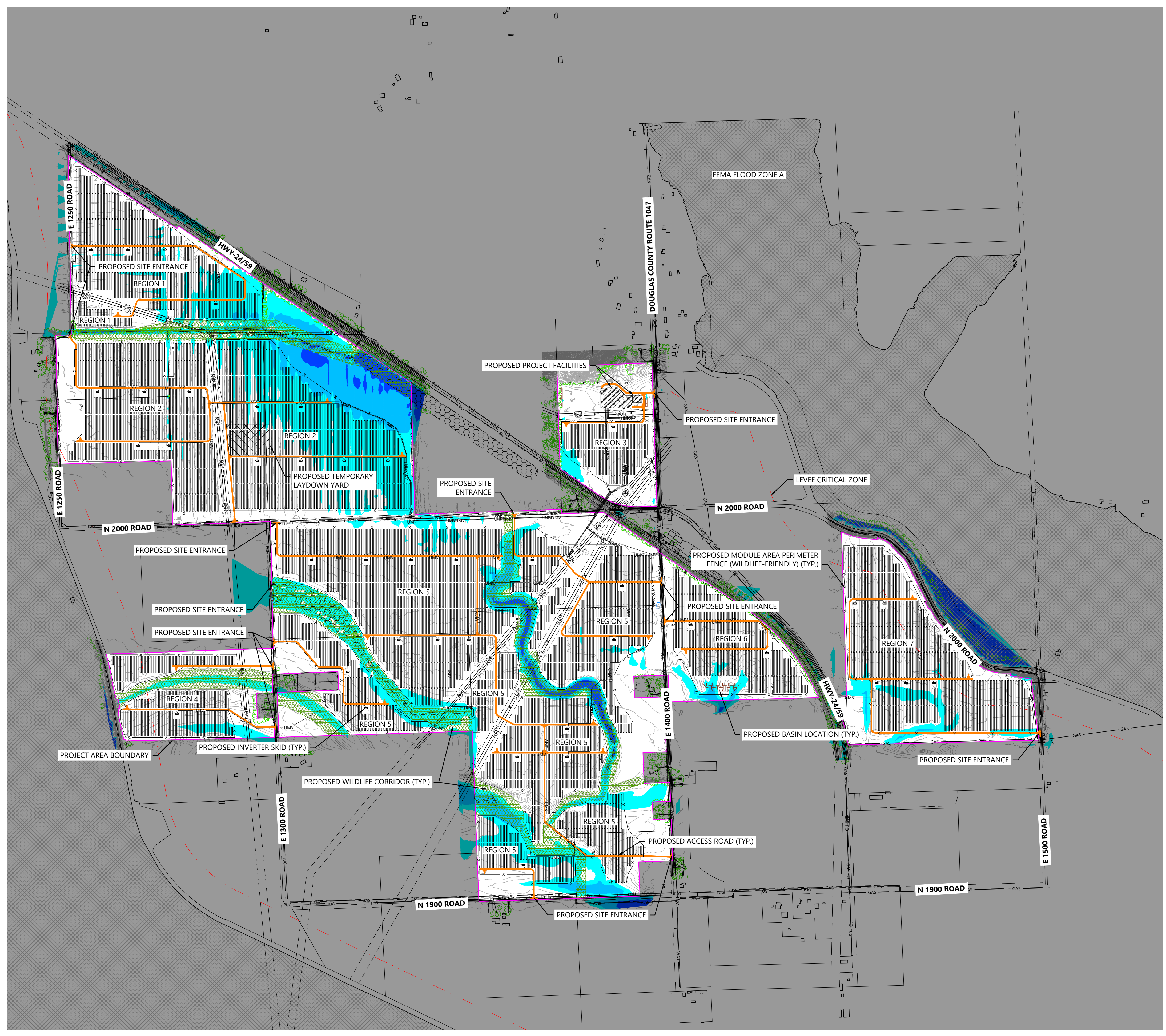


**Kansas Sky Energy Center**  
Douglas County, Kansas

Overall Site Plan of Proposed Conditions

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV:  
SHEET: C201 D



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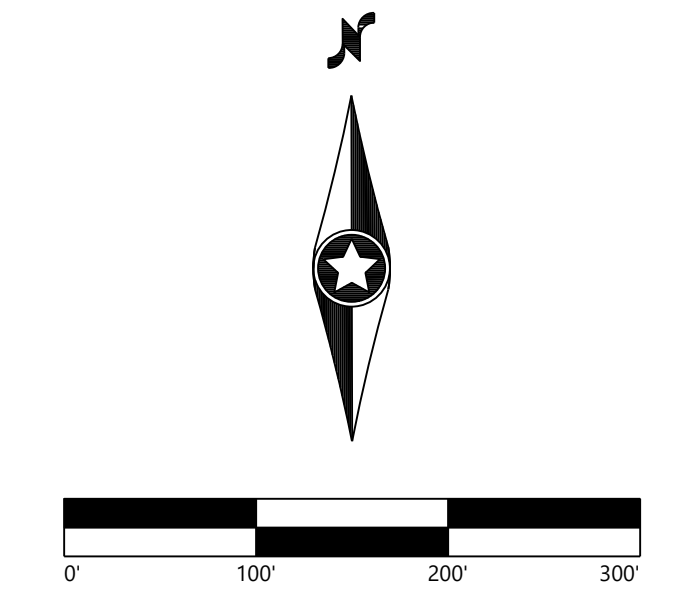
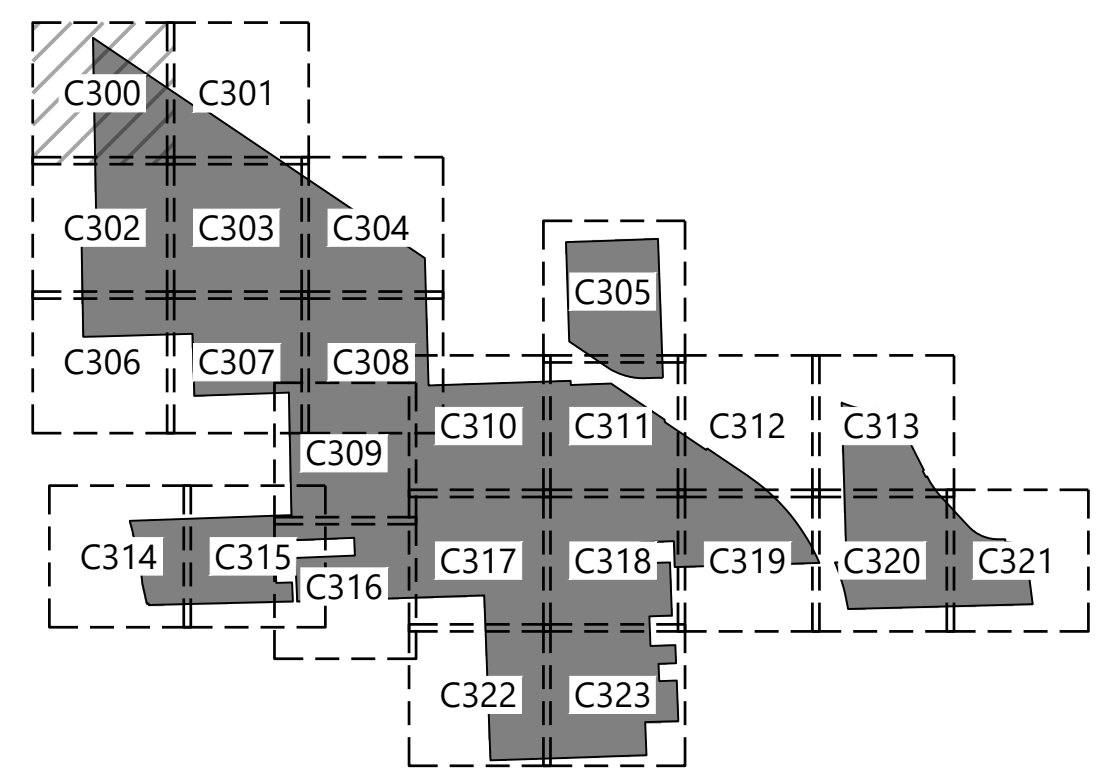
- PROJECT AREA BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SETBACK LINES
- EX. INDEX CONTOUR
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- EX. TREELINE
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- PROPOSED MODULE AREA PERIMETER FENCE (WILDLIFE-FRIENDLY)
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- PROPOSED LANDSCAPE BUFFER
- PROPOSED BASIN
- PROPOSED WILDLIFE CORRIDOR
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED DRAINAGE CROSSING
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED MODULE AREA BOUNDARIES
- PROPOSED DISTURBANCE LIMITS
- PROPOSED GRADING LIMITS
- 1.0' TO 2.0' OF CUT
- 0.0' TO 1.0' OF CUT
- 0.0' TO 1.0' OF FILL
- 1.0' TO 2.0' OF FILL

PRELIMINARY ARRAY GRADING CRITERIA	
RACK	SINGLE AXIS TRACKER
GRADING REVEAL WINDOW	2'
MAXIMUM E-W SLOPE	10.0%
MAXIMUM N-S SLOPE	6.1%

PRELIMINARY ARRAY GRADING QUANTITIES	
SITE AREA (ACRES)	604
TOTAL GRADING AREA (ACRES)	1.1
TOTAL GRADING AREA PERCENT	0.2%
TOTAL CUT (CY)	550
TOTAL FILL (CY)	550

- NOTES:
- THE QUANTITIES SHOWN WERE DETERMINED USING THE ANTICIPATED GRADES AND ARE FOR ESTIMATING PURPOSES ONLY.
  - GRADING VALUES ONLY ACCOUNT FOR THE SITE'S ARRAY GRADING BASED ON ASSUMED PILE LOCATIONS.
  - GRADING DOES NOT INCLUDE ACCESS ROADS, SUBSTATION, OR SWITCHYARD GRADING.
  - MINOR SURFACE SMOOTHING MAY BE REQUIRED FOR WORKER SAFETY AND/OR RACKING INSTALLATION.
  - PER DOUGLAS COUNTY SOLAR REGULATIONS, GRADING OF PRIME FARMLAND AND FARMLAND OF STATEWIDE IMPORTANCE SHALL NOT EXCEED 5% OF THE SITE AREA. TOTAL ARRAY GRADING IS ESTIMATED TO BE 0.2% OF THE SITE AREA.
  - FOR ADDITIONAL DETAILS ON VEGETATIVE SCREENING, REFER TO THE LANDSCAPING PLAN.
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**KEYMAP:**

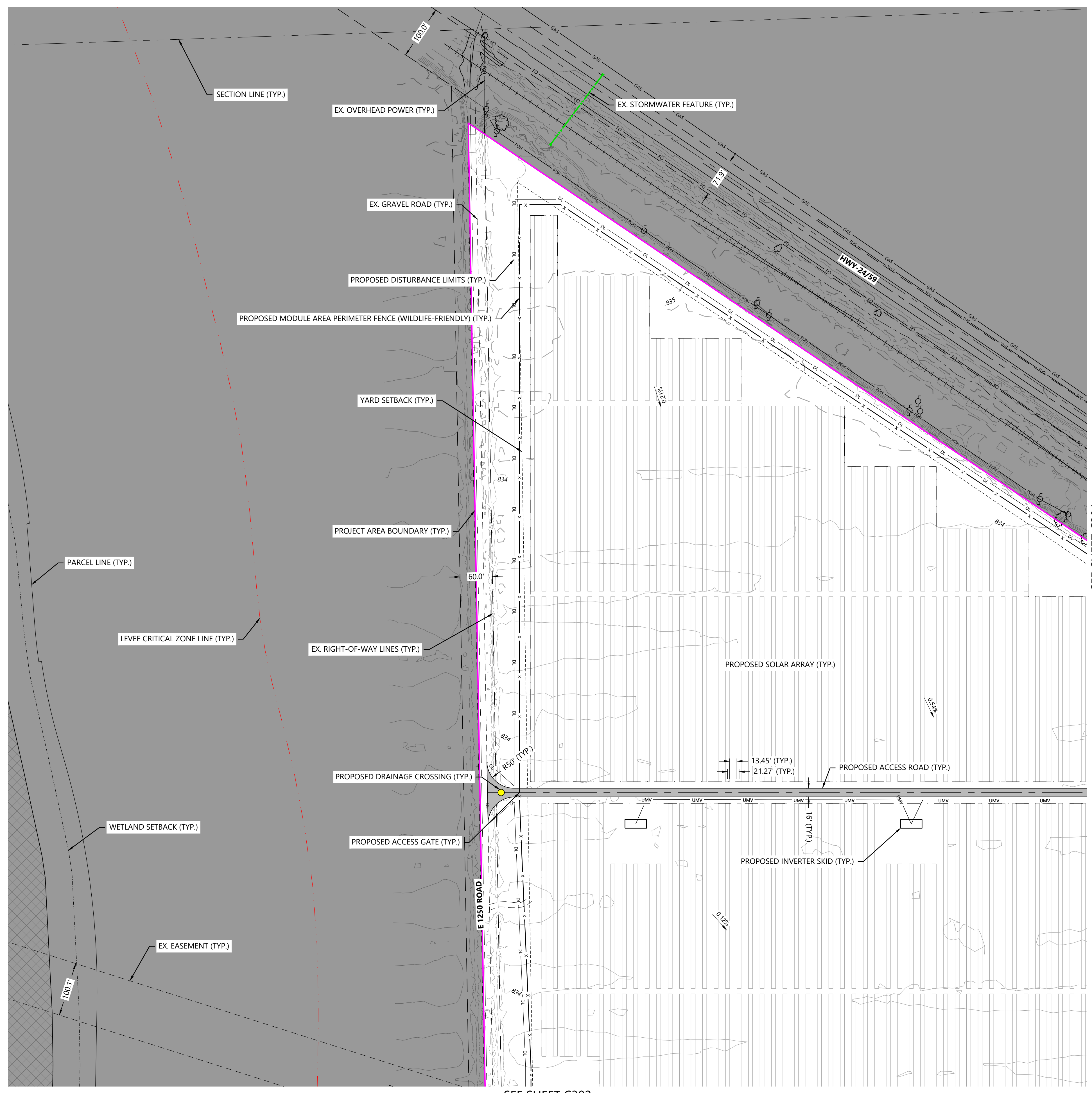


**Kansas Sky Energy Center**  
Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C300



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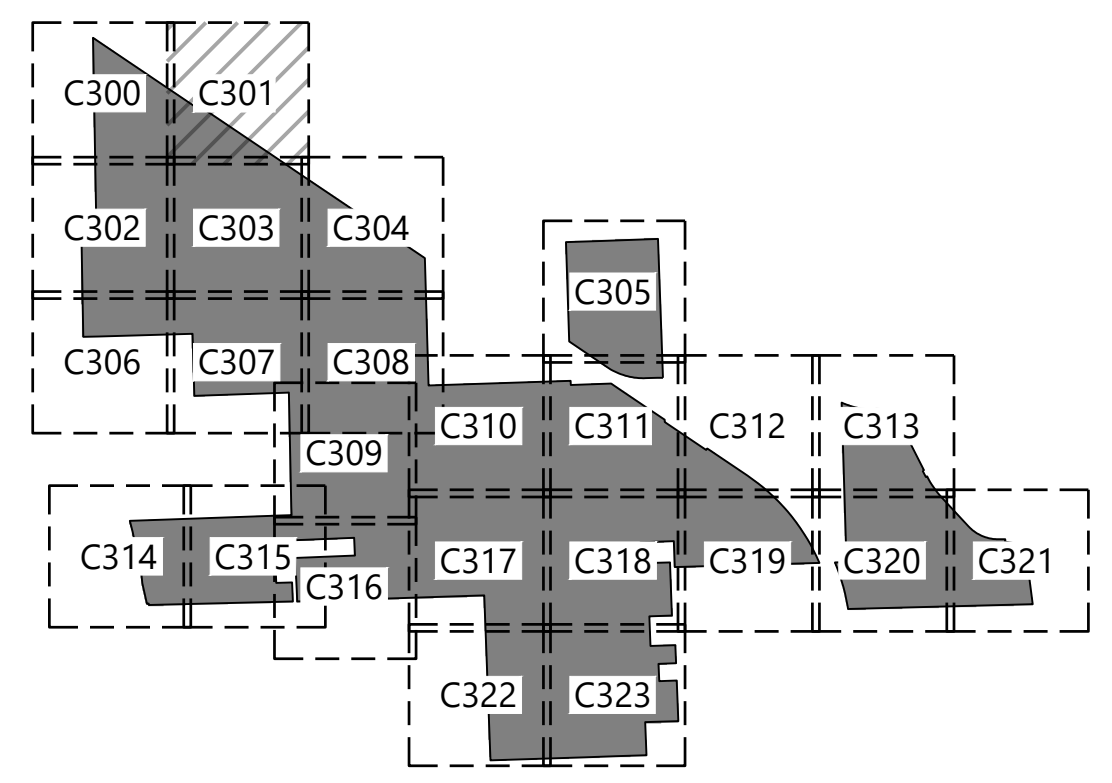
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RACK	SINGLE AXIS TRACKER
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ITEM	VALUE
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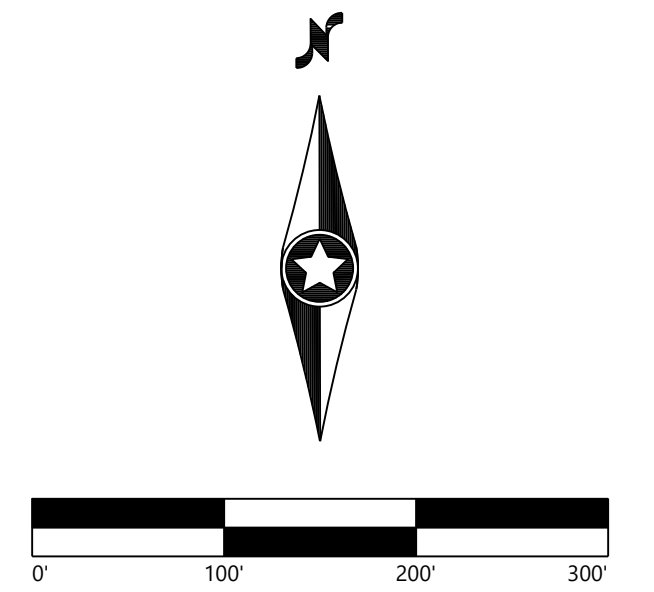
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**KEYMAP:**



SEE SHEET C300

SEE SHEET C303



**Kansas Sky Energy Center**  
Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C301

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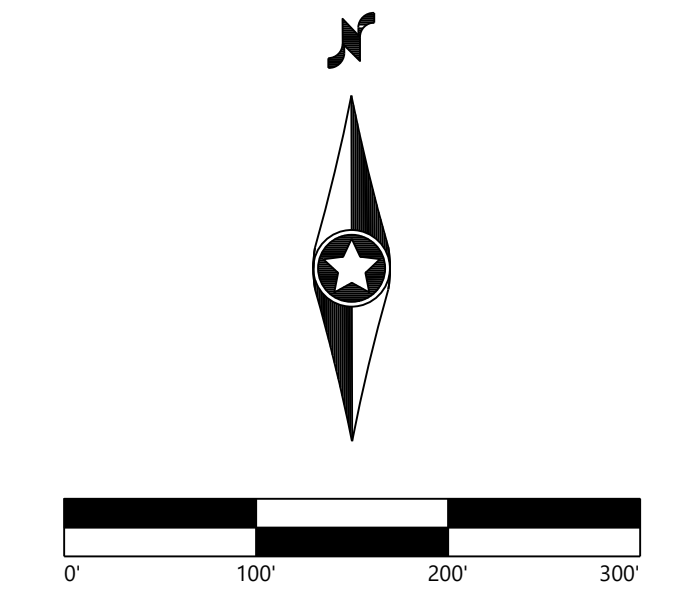
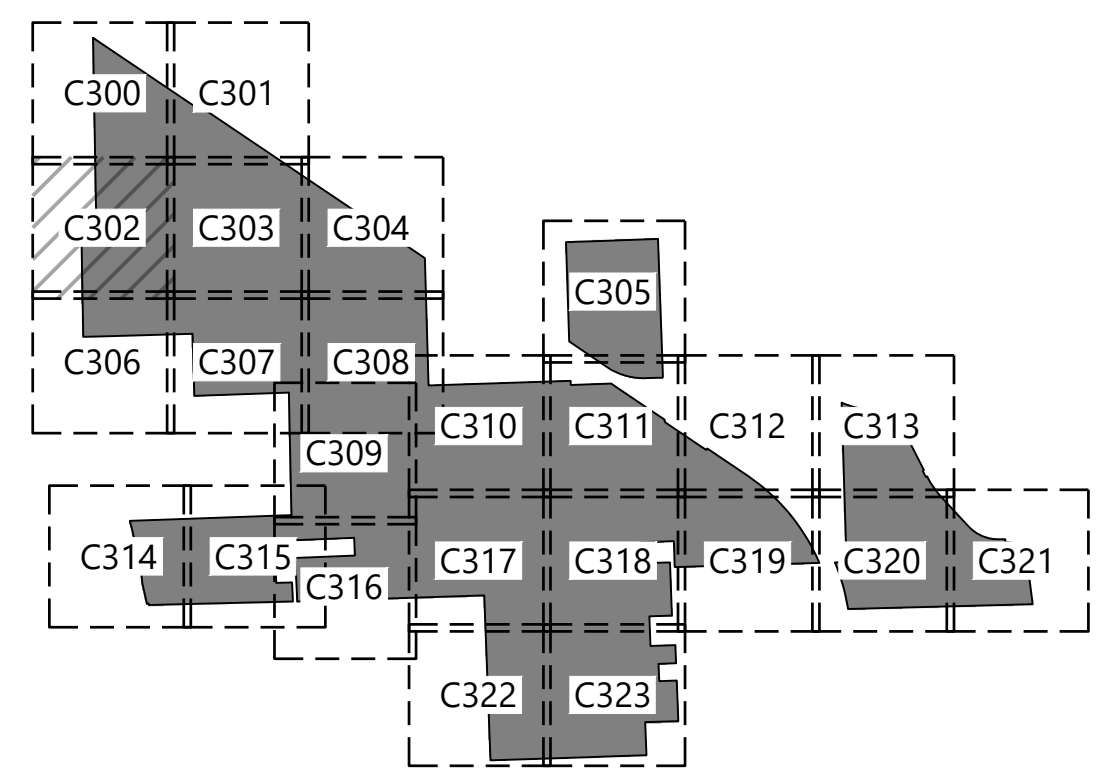
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**KEYMAP:**



**Kansas Sky Energy Center**

Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C302

SEE SHEET C300

SEE SHEET C306

SEE SHEET C303



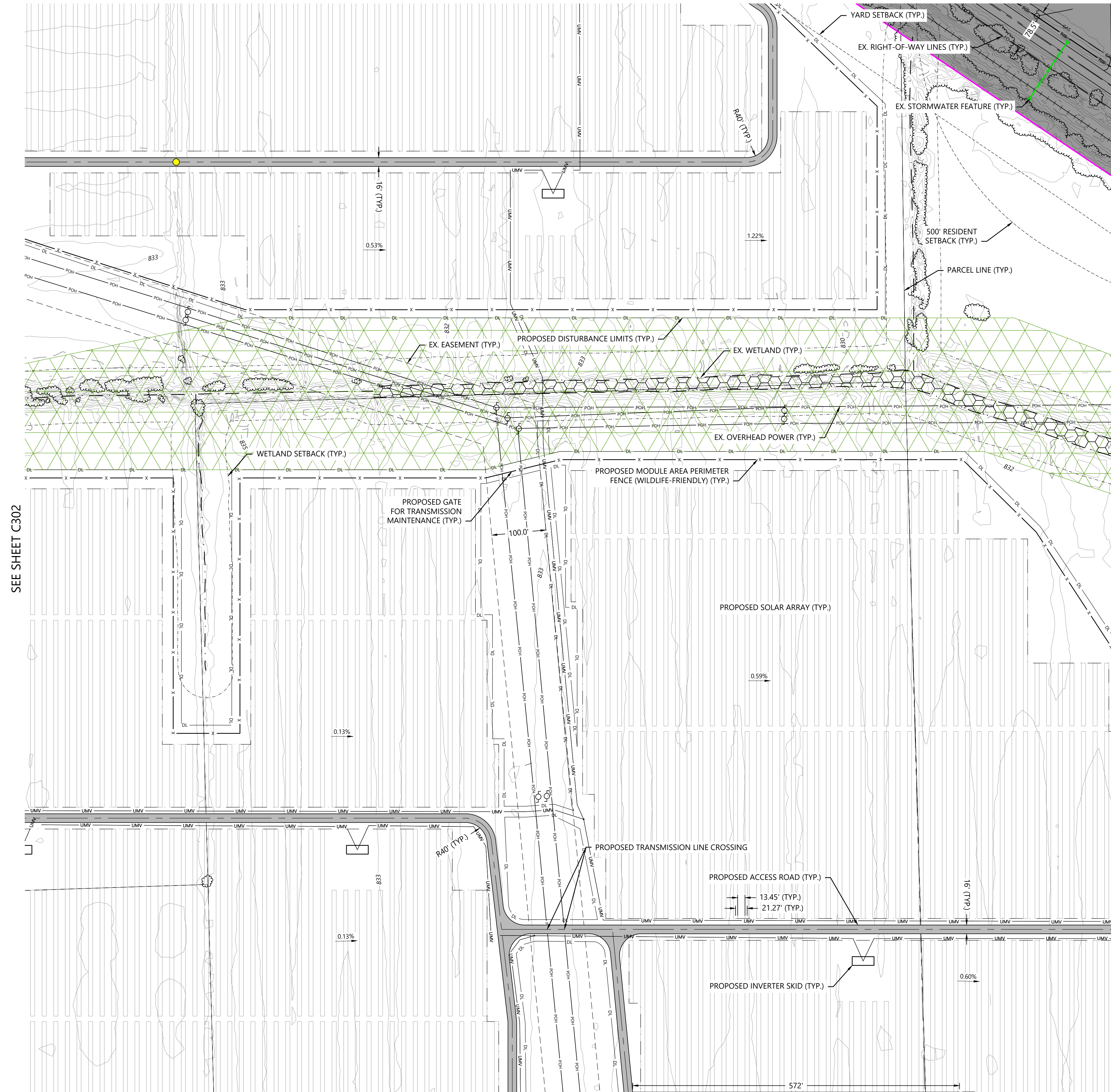
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SEE SHEET C301

SEE SHEET C307

SEE SHEET C302

SEE SHEET C304



LEGEND:

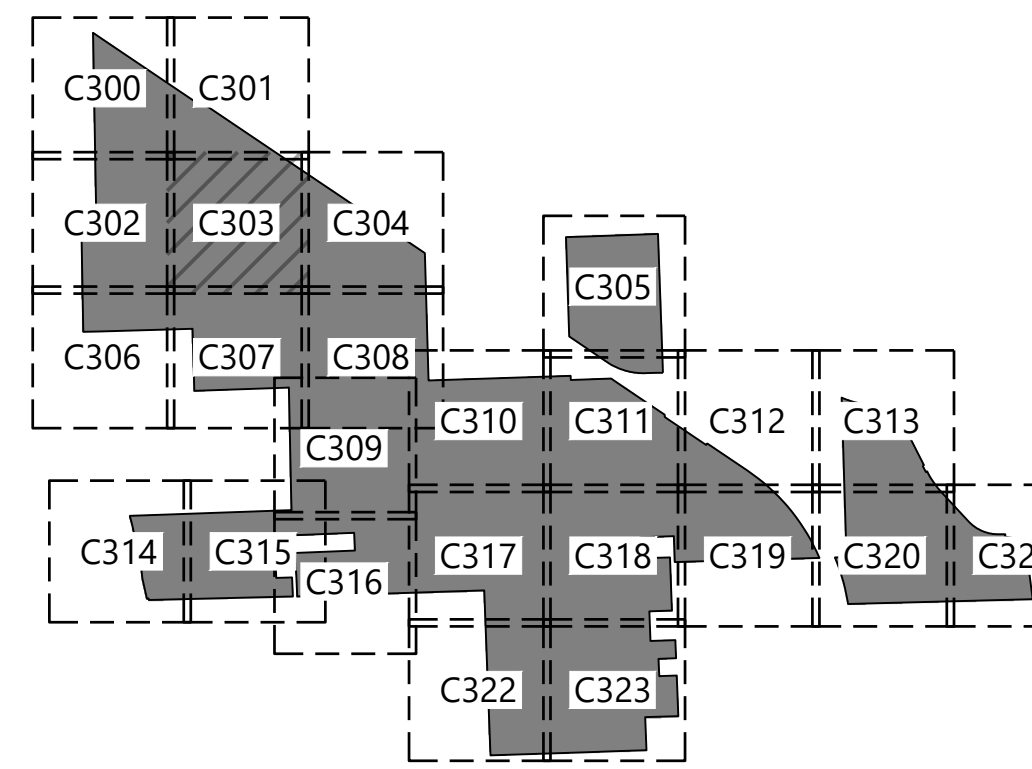
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PRELIMINARY ARRAY GRADING CRITERIA table with columns for RACK and SINGLE AXIS TRACKER, rows for GRADING REVEAL WINDOW, MAXIMUM E-W SLOPE, and MAXIMUM N-S SLOPE.

PRELIMINARY ARRAY GRADING QUANTITIES table with columns for SITE AREA (ACRES), TOTAL GRADING AREA (ACRES), TOTAL GRADING AREA PERCENT, TOTAL CUT (CY), and TOTAL FILL (CY).

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KEYMAP:



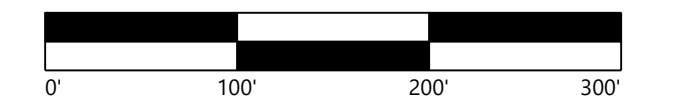
PREPARED FOR:

FREE STATE SOLAR PROJECT, LLC.

422 Admiral Blvd, Kansas City, MO 64106

REVISIONS:

Table with columns: #, DATE, COMMENT, BY, CHK. Lists revisions A through D.



Kansas Sky Energy Center

Douglas County, Kansas

Grading and Drainage Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023

SHEET: C303 D

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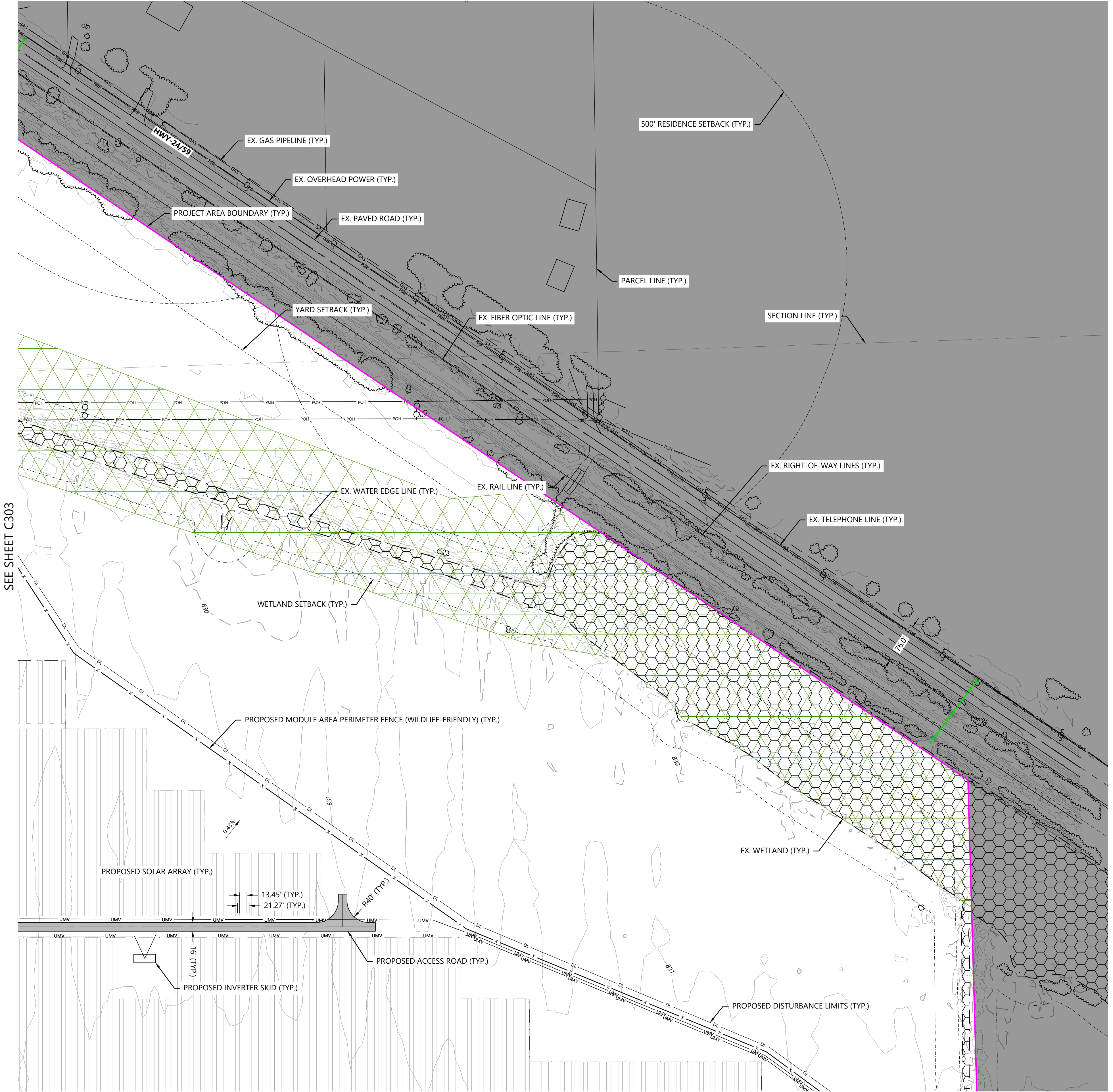
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**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

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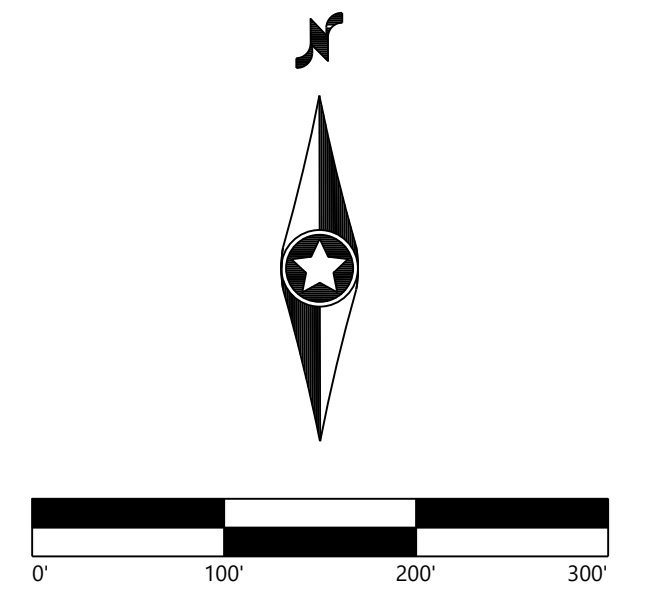
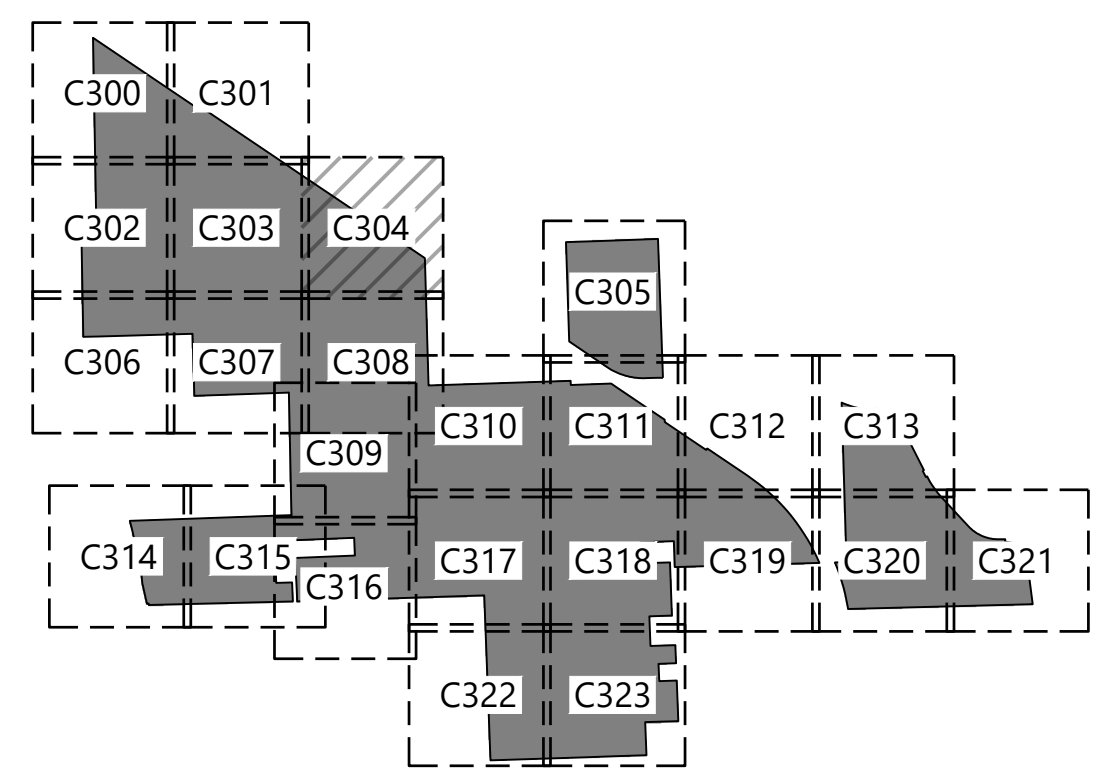
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PRELIMINARY ARRAY GRADING CRITERIA	
RACK	SINGLE AXIS TRACKER
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**Kansas Sky Energy Center**  
Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C304

SEE SHEET C303

SEE SHEET C308

I:\Projects\2023\11\13\2023\_237\_PAK\_GenSite\Drawings\11/13/2023\_237\_PAK\_GenSite\Drawings\11/13/2023\_237\_PAK\_GenSite.dwg, 11/13/2023, 2:57 PM, GenSite.dwg

PREPARED FOR:

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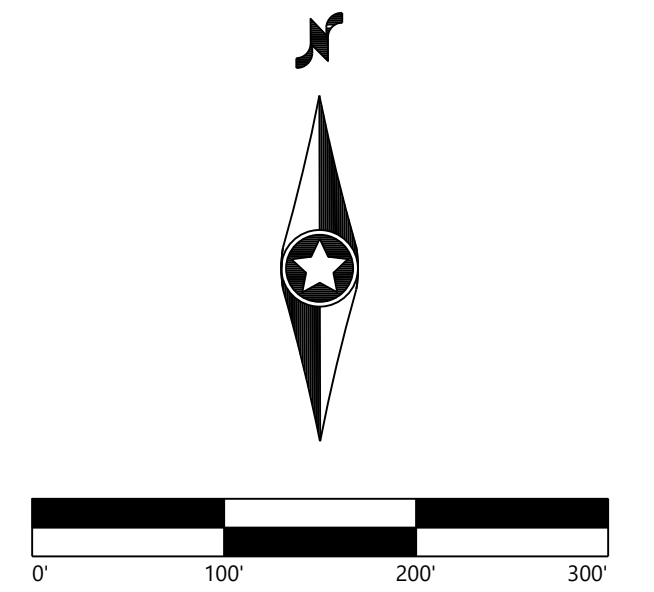
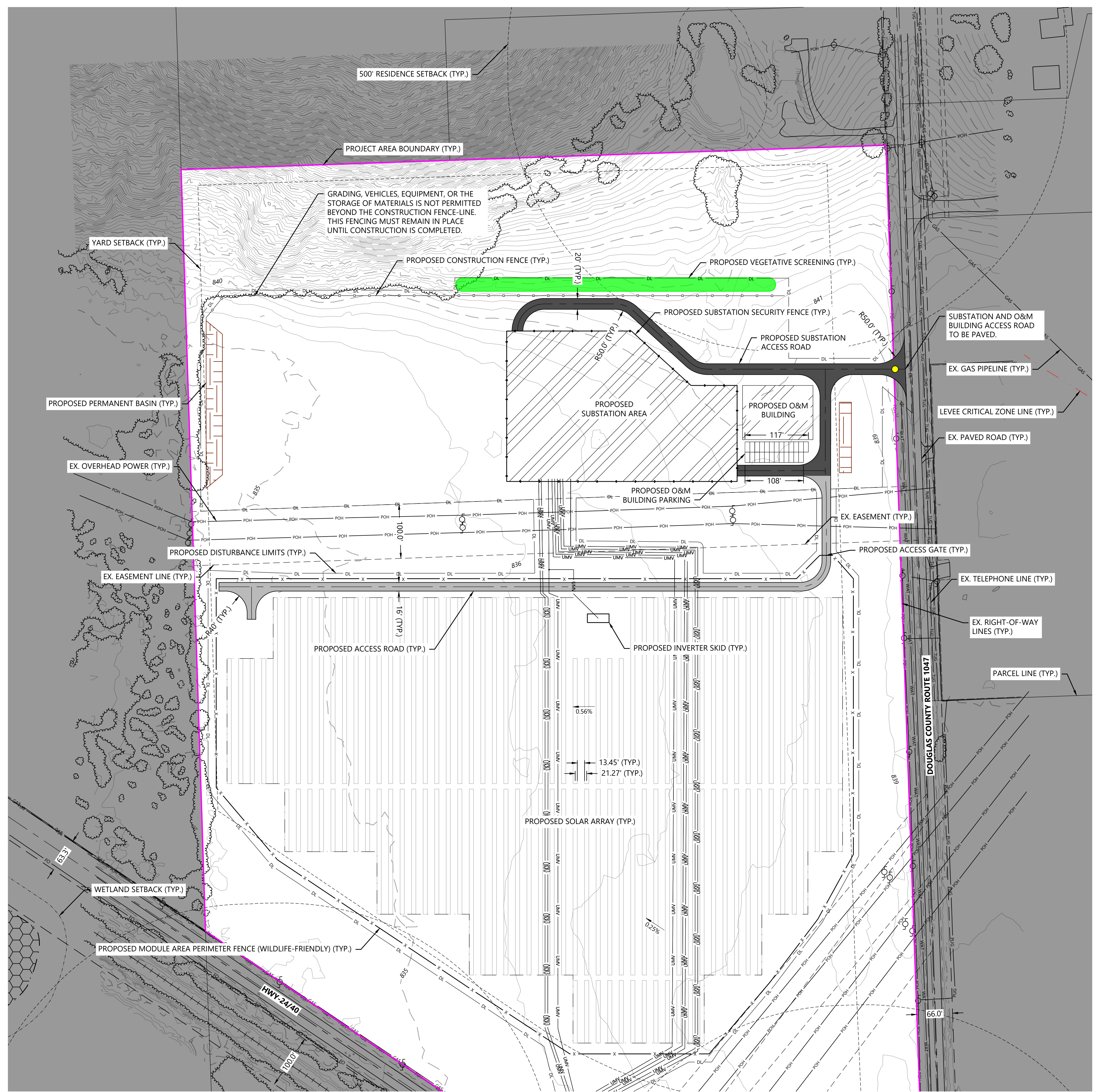
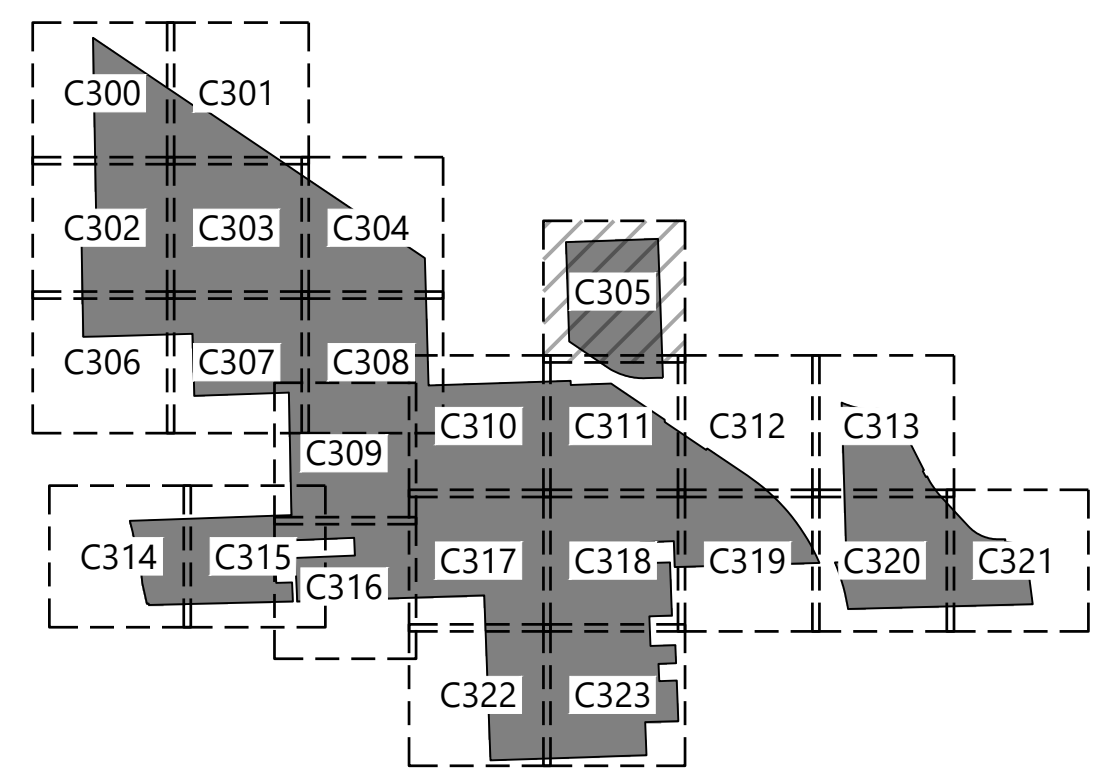
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**KEYMAP:**



**Kansas Sky Energy Center**

Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C305

I:\Projects\2023\11\13\2023\_257\_PAK\_General\Submittal\0421\_4.00\_GAD\_Civil\0421\_4.00.dwg, 11/13/2023, 2:57 PM, Gennaro Stortzak



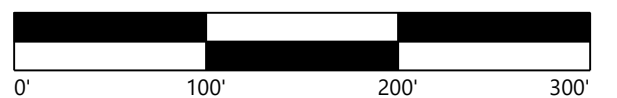
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422 Admiral Blvd,  
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Kansas Sky Energy Center

Douglas County, Kansas

Grading and Drainage Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023

SHEET: C306 D

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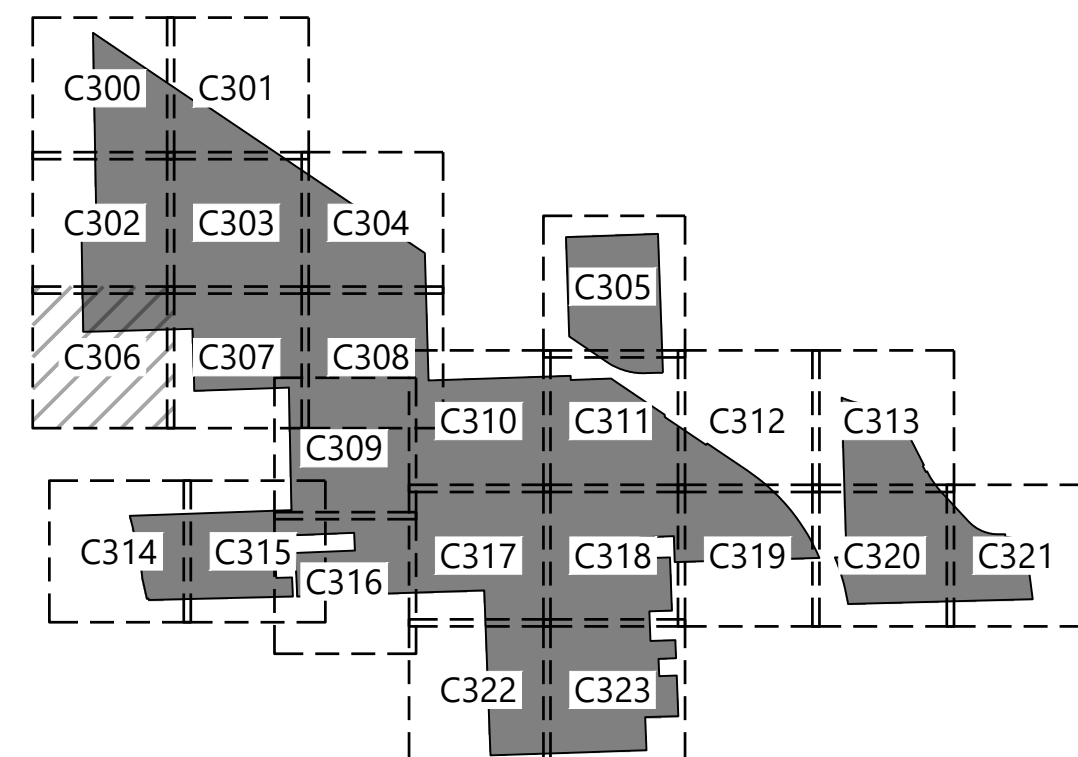
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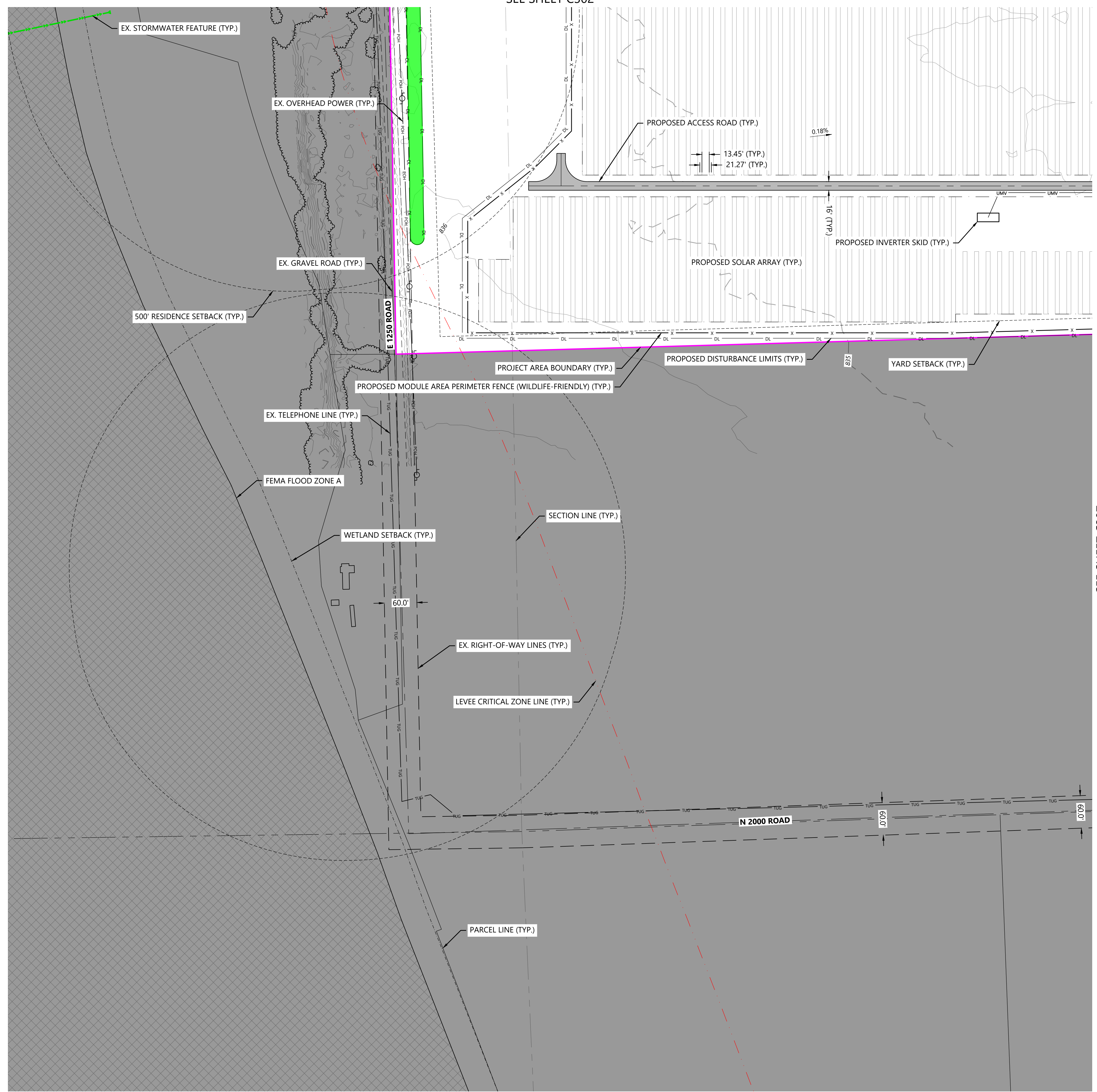
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KEYMAP:



SEE SHEET C307

SEE SHEET C302



\\westwoodps.com\planning\cadd\projects\2023\11\13\2023\_257\_Plan\_General\_Solar.dwg 11/13/2023 2:57 PM Gates-Bostrick

PREPARED FOR:

**FREE STATE SOLAR  
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422 Admiral Blvd,  
Kansas City, MO 64106

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SEE SHEET C303



**LEGEND:**

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**PRELIMINARY ARRAY GRADING CRITERIA**

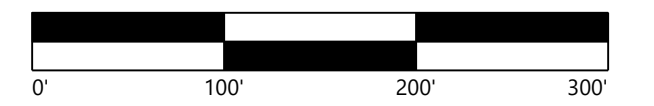
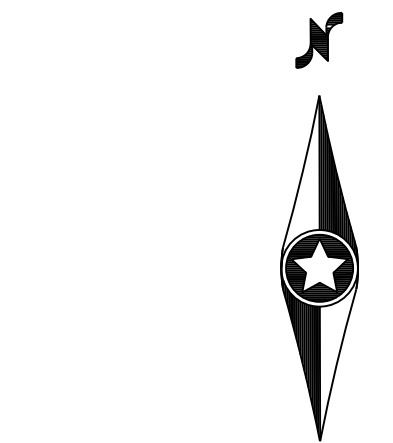
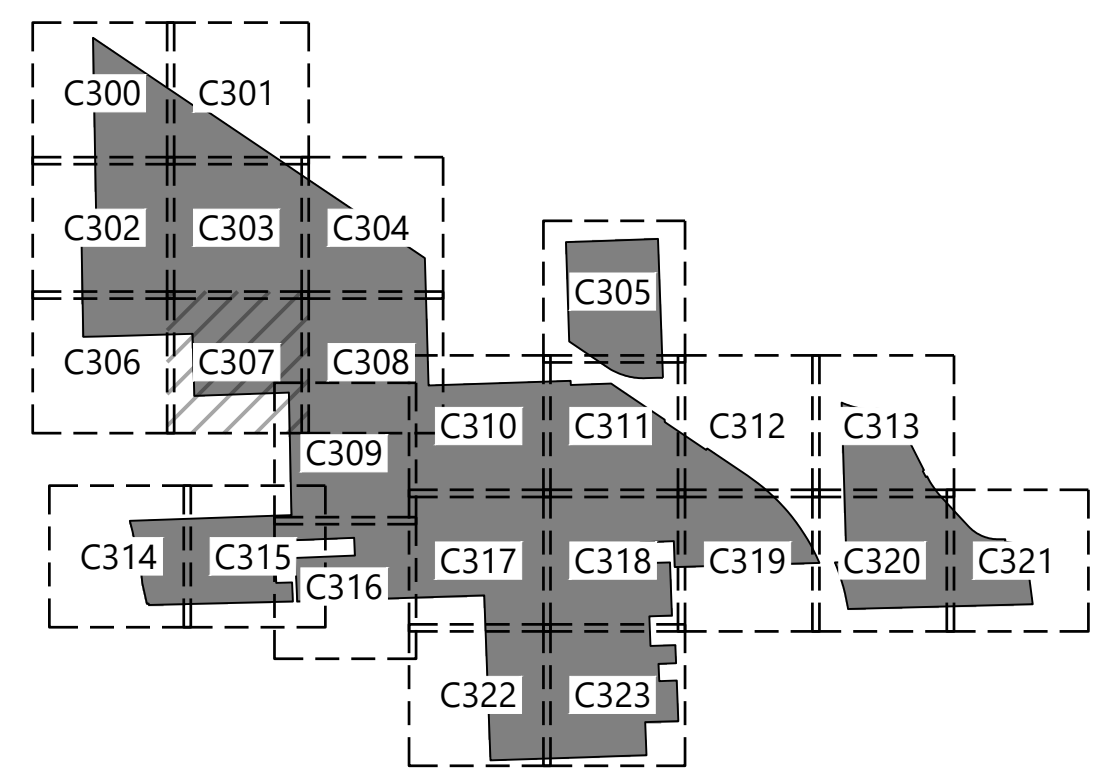
RACK	SINGLE AXIS TRACKER
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Douglas County, Kansas

**Grading and Drainage  
Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV:  
SHEET: C307 D

SEE SHEET C306

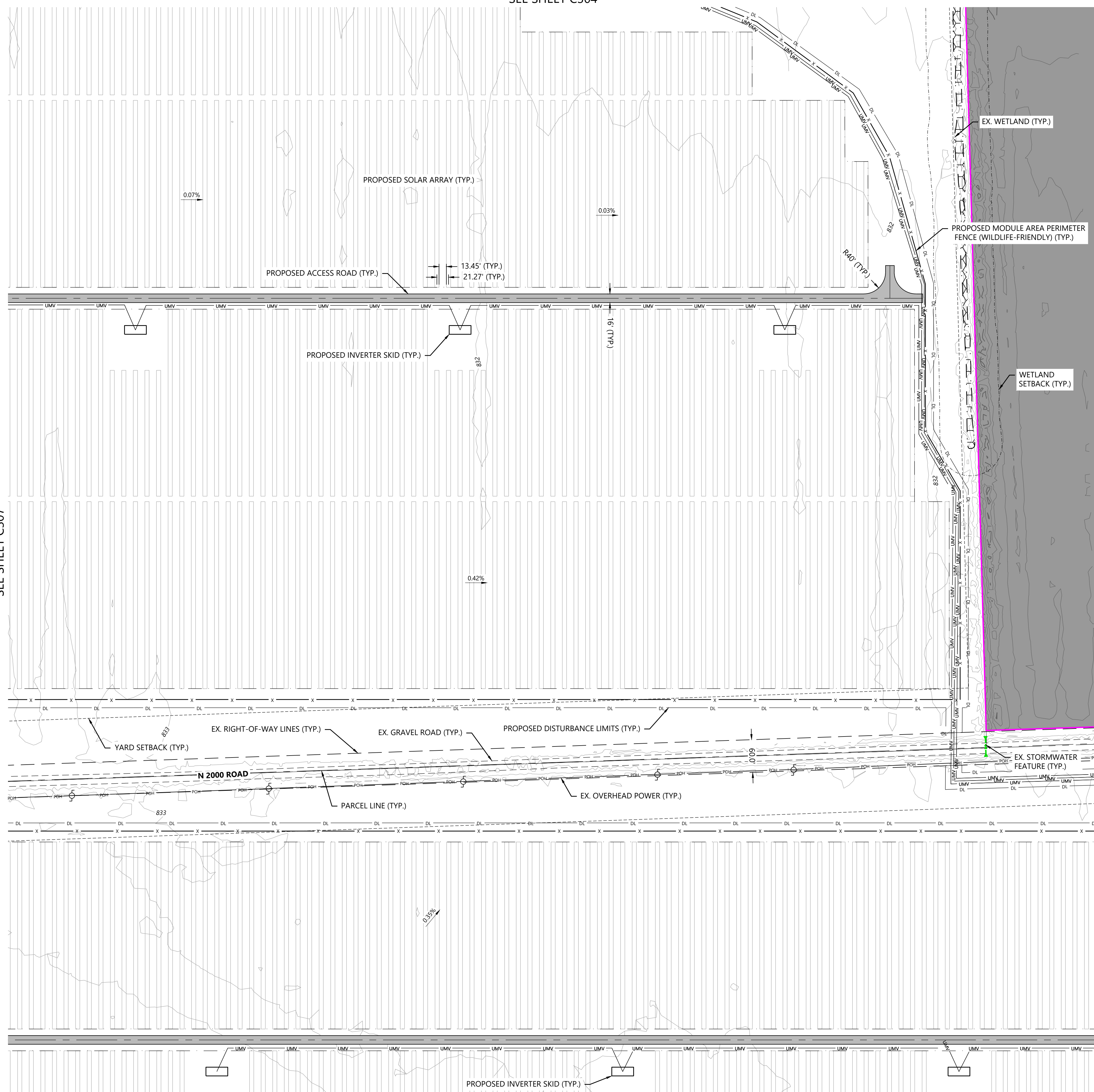
SEE SHEET C308

SEE SHEET C304

SEE SHEET C307

SEE SHEET C310

SEE SHEET C309



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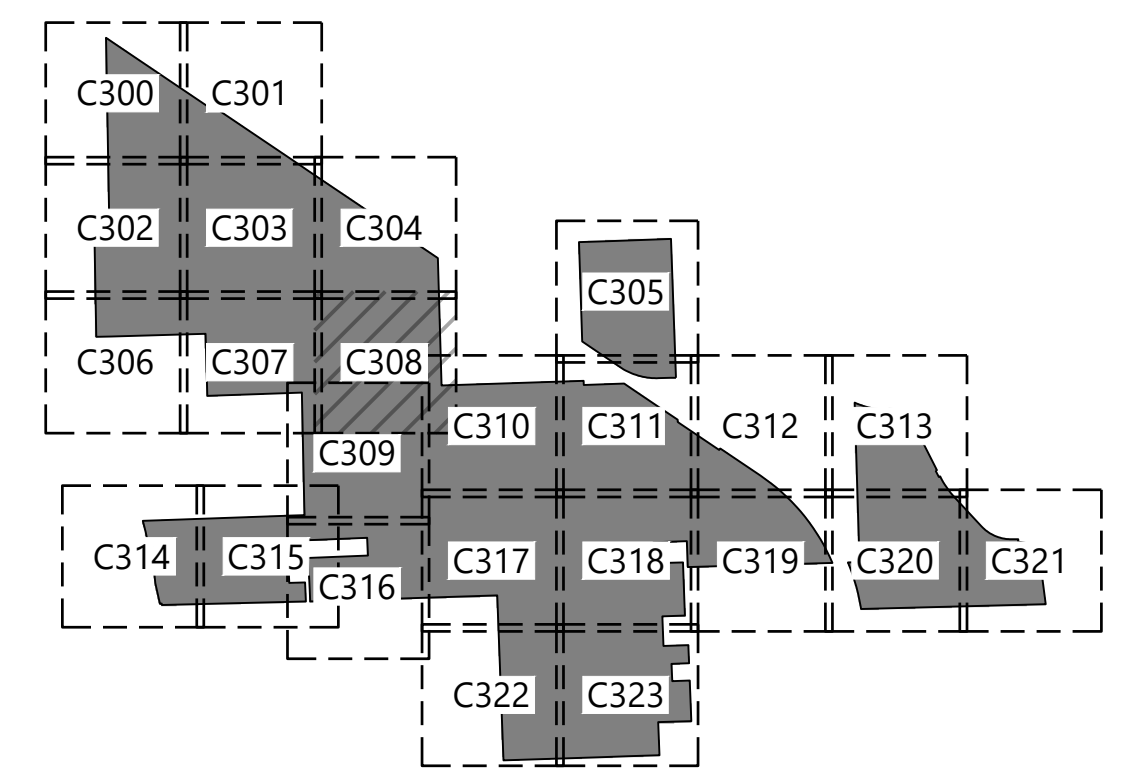
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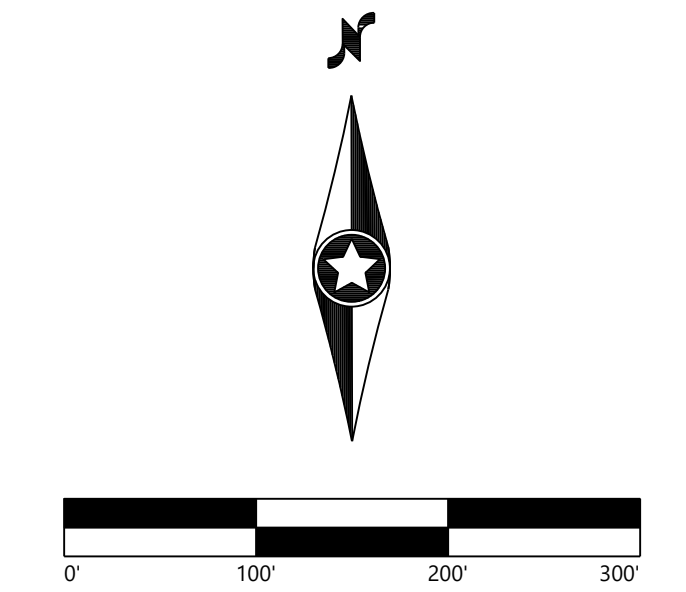


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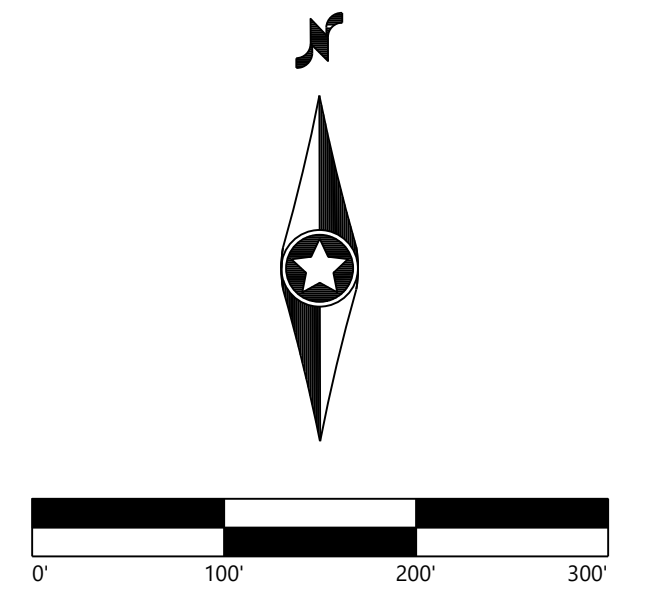
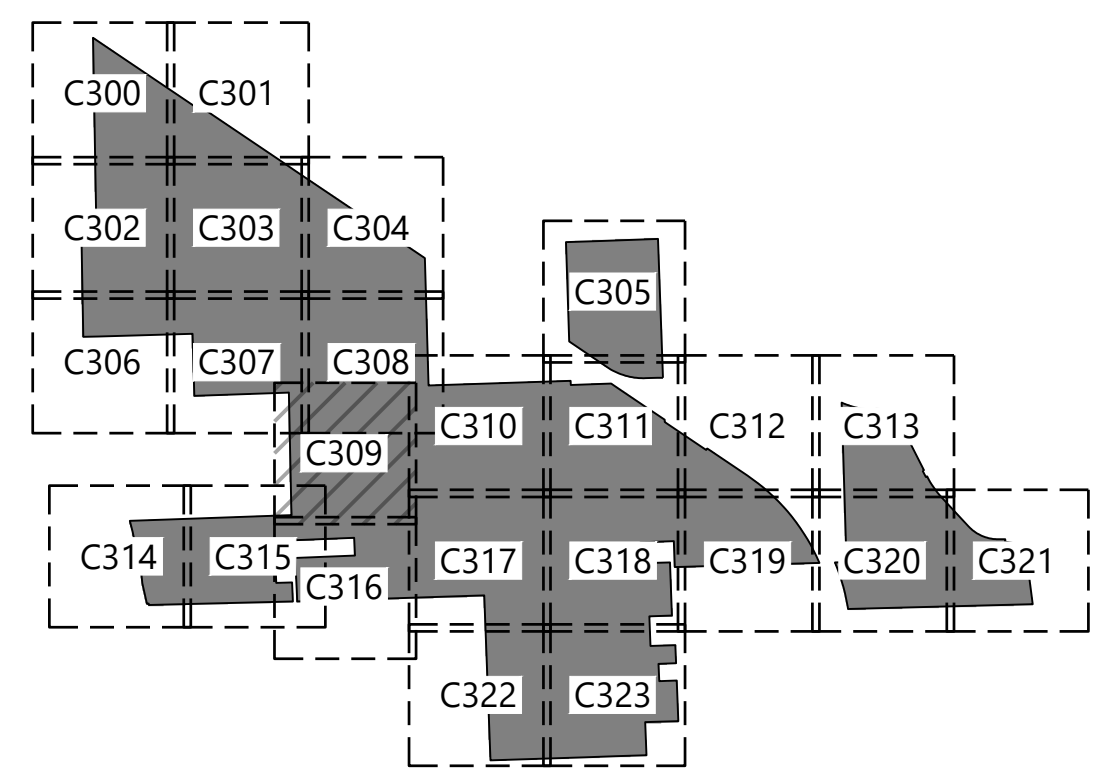
- PROJECT AREA BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SETBACK LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. TREELINE
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- EX. WATER LINE
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- PROPOSED PROJECT FACILITIES
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- 1.0' TO 2.0' OF CUT
- 0.0' TO 1.0' OF CUT
- 0.0' TO 1.0' OF FILL
- 1.0' TO 2.0' OF FILL

RACK	SINGLE AXIS TRACKER
GRADING REVEAL WINDOW	2'
MAXIMUM E-W SLOPE	10.0%
MAXIMUM N-S SLOPE	6.1%

SITE AREA (ACRES)	604
TOTAL GRADING AREA (ACRES)	1.1
TOTAL GRADING AREA PERCENT	0.2%
TOTAL CUT (CY)	550
TOTAL FILL (CY)	550

- NOTES:
- THE QUANTITIES SHOWN WERE DETERMINED USING THE ANTICIPATED GRADES AND ARE FOR ESTIMATING PURPOSES ONLY.
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**KEYMAP:**



**Kansas Sky Energy Center**  
Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C309

I:\Projects\2023\11-13-2023\231113-0001-0001.dwg, 11/13/2023, 2:57 PM, G:\Users\jstark

PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	08/14/23	Permitting Site Plans	SJM	EFE	RIG
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C	11/10/23	Permitting Site Plans	CRS	EFE	RIG
D	11/13/23	Permitting Site Plans	CRS	EFE	RIG



**LEGEND:**

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**PRELIMINARY ARRAY GRADING CRITERIA**

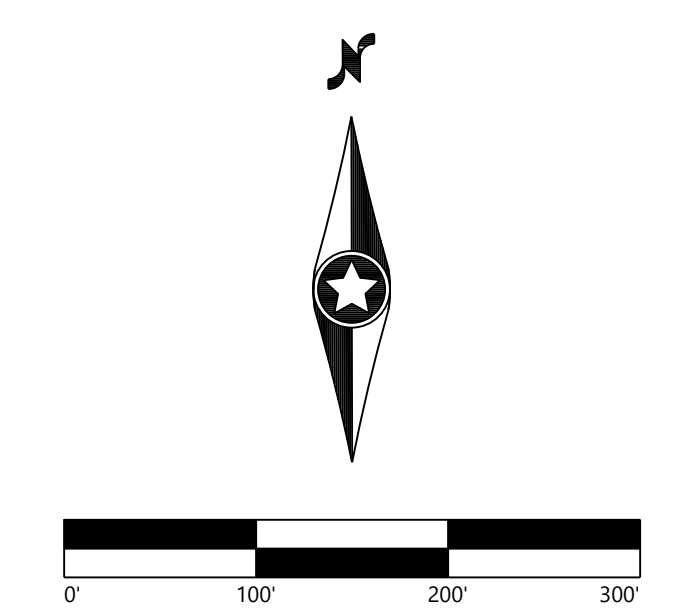
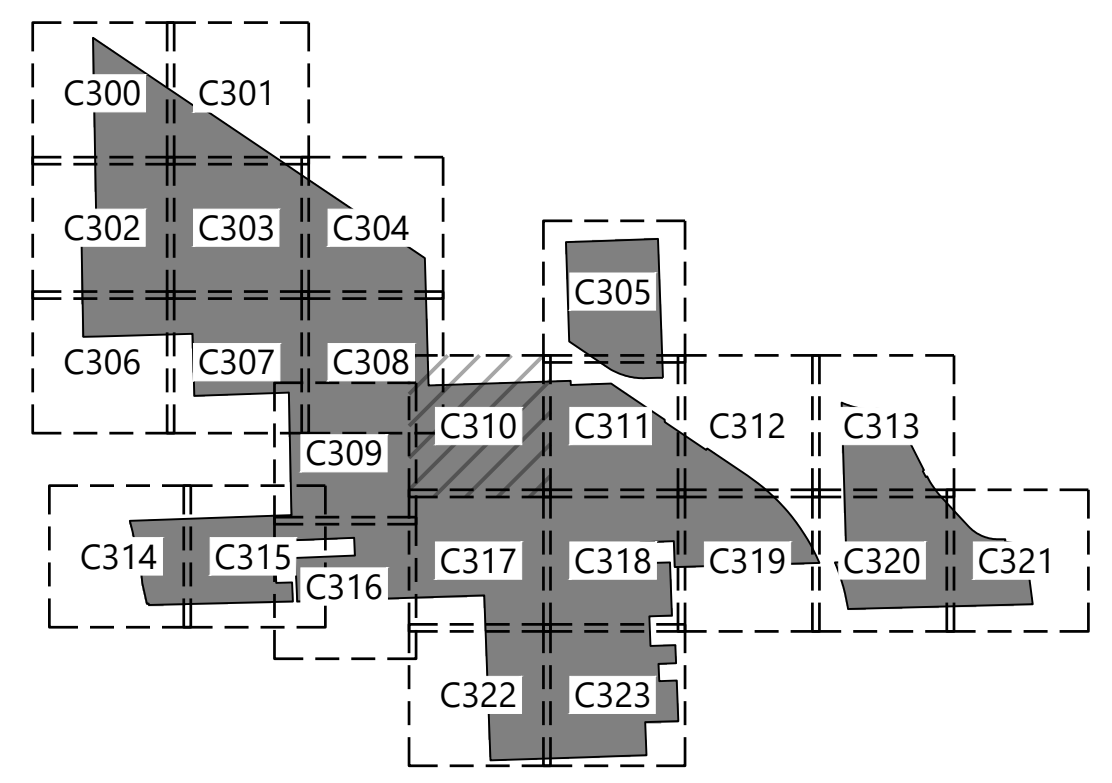
RACK	SINGLE AXIS TRACKER
GRADING REVEAL WINDOW	2'
MAXIMUM E-W SLOPE	10.0%
MAXIMUM N-S SLOPE	6.1%

**PRELIMINARY ARRAY GRADING QUANTITIES**

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**KEYMAP:**



**Kansas Sky Energy Center**  
Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C310

SEE SHEET C309

SEE SHEET C311

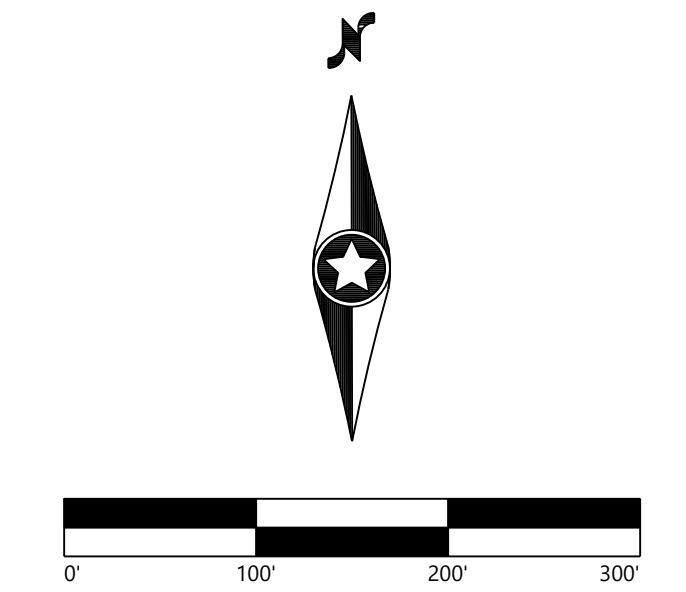
SEE SHEET C317

PREPARED FOR:  
**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

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D	11/13/23	Permitting Site Plans	CRS	EFE	RIG



**Kansas Sky Energy Center**  
Douglas County, Kansas

Grading and Drainage Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C311

**LEGEND:**

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- SECTION LINES
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**PRELIMINARY ARRAY GRADING CRITERIA**

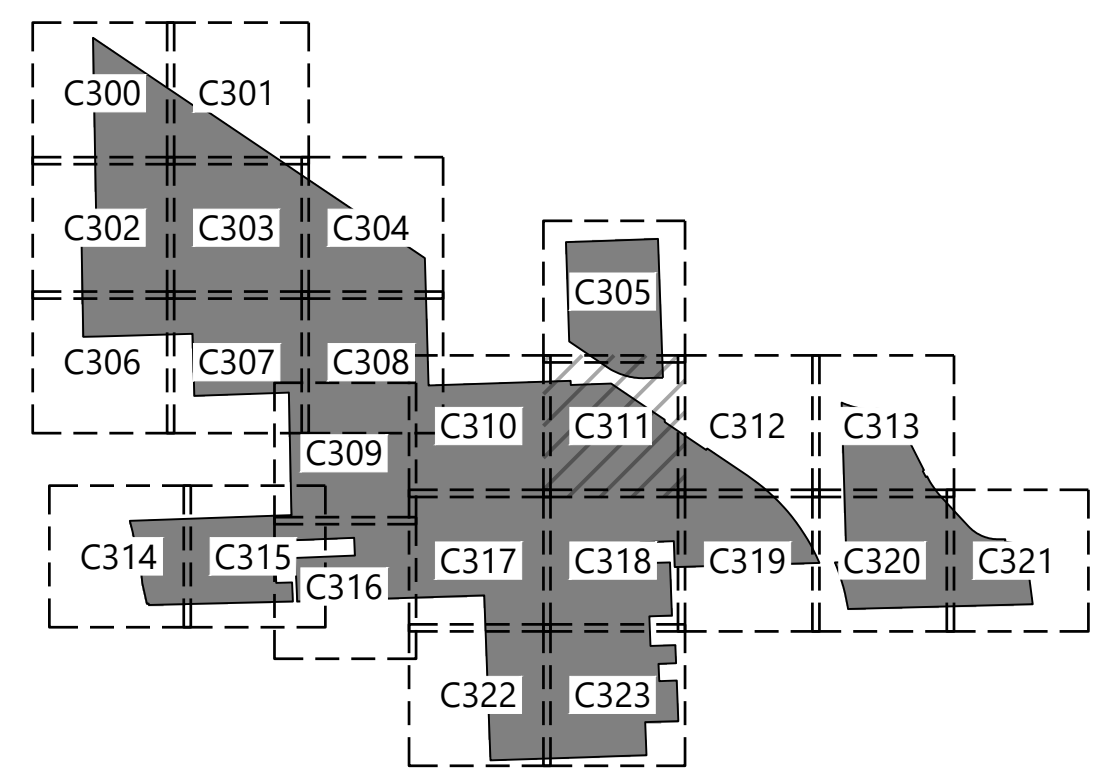
RACK	SINGLE AXIS TRACKER
GRADING REVEAL WINDOW	2'
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**PRELIMINARY ARRAY GRADING QUANTITIES**

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**KEYMAP:**



SEE SHEET C318

SEE SHEET C305

SEE SHEET C310

SEE SHEET C312

I:\Projects\2023\11\13\2023\_231\_Plan\_Grading\Drawings\DWG\_C311.dwg, 11/13/2023, 2:57 PM, C:\Users\jstewart

PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

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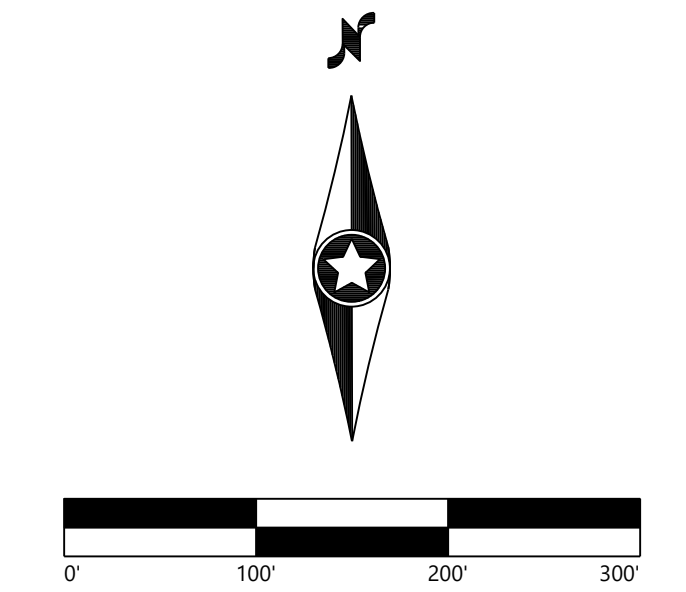
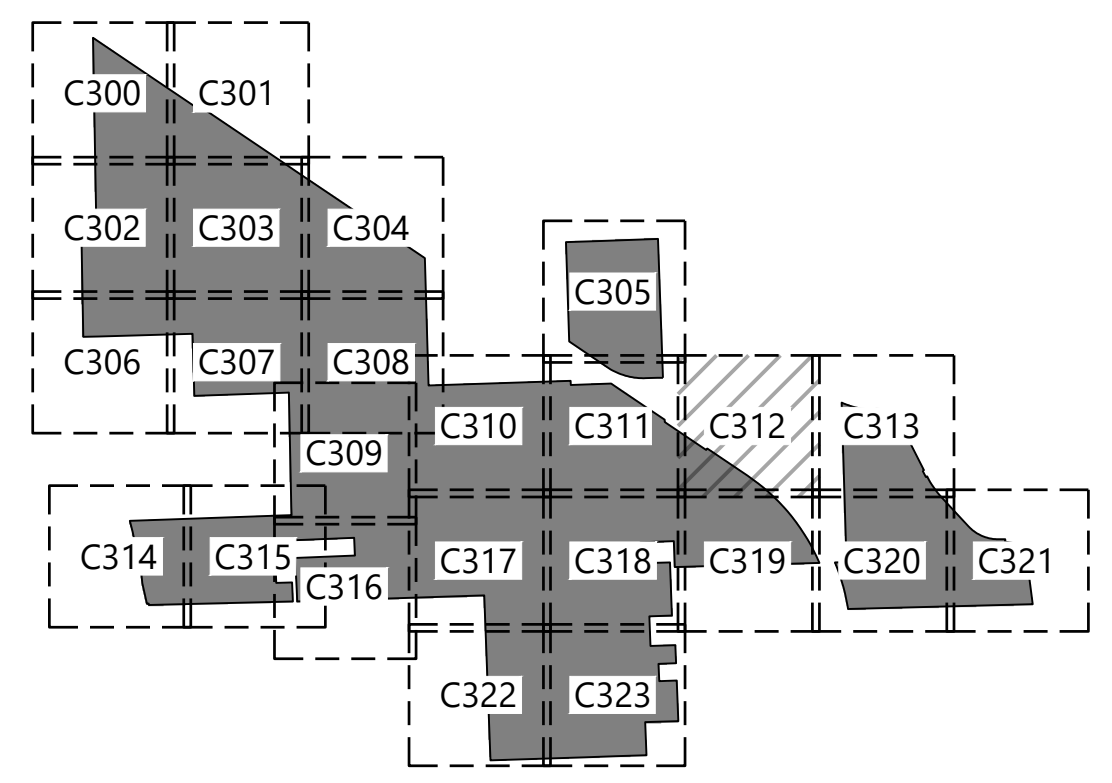
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GRADING REVEAL WINDOW	2'
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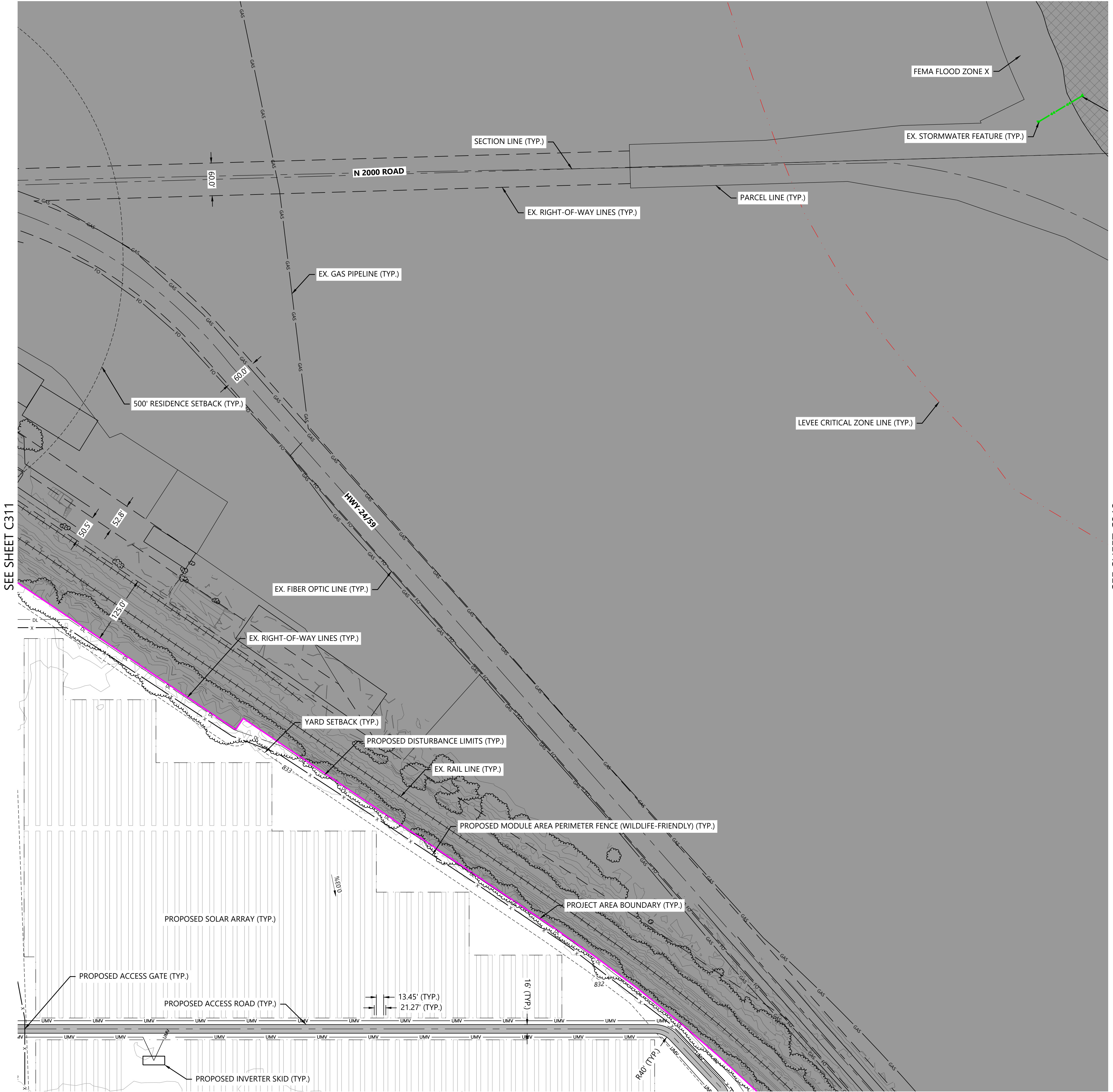
**Kansas Sky Energy Center**

Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C312



SEE SHEET C311

SEE SHEET C313

SEE SHEET C319

I:\Projects\2023\11\13\2023\_257\_Plan\_General\20231114\_09:40:14.dwg, 11/13/2023, 2:57 PM, GAD, Civil/3D/2023/11/13/2023\_257\_Plan\_General

PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

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C	11/10/23	Permitting Site Plans	CRS	EFE	RIG
D	11/13/23	Permitting Site Plans	CRS	EFE	RIG

SEE SHEET C312



SEE SHEET C320

**LEGEND:**

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- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SETBACK LINES
- EX. INDEX CONTOUR
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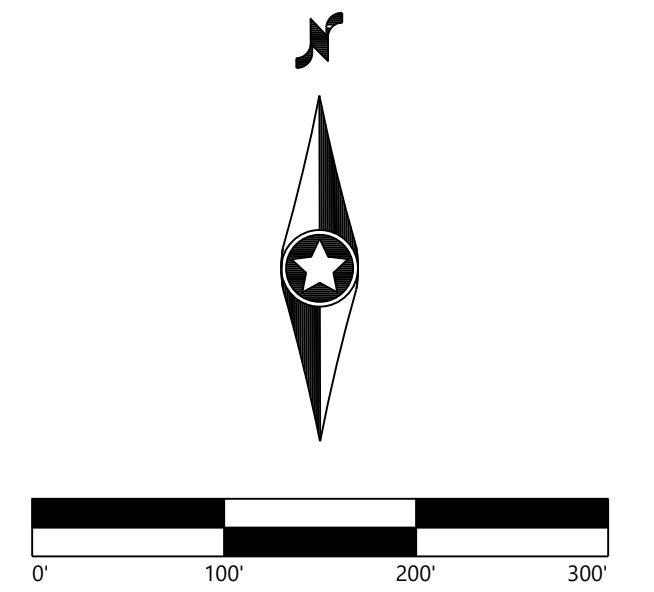
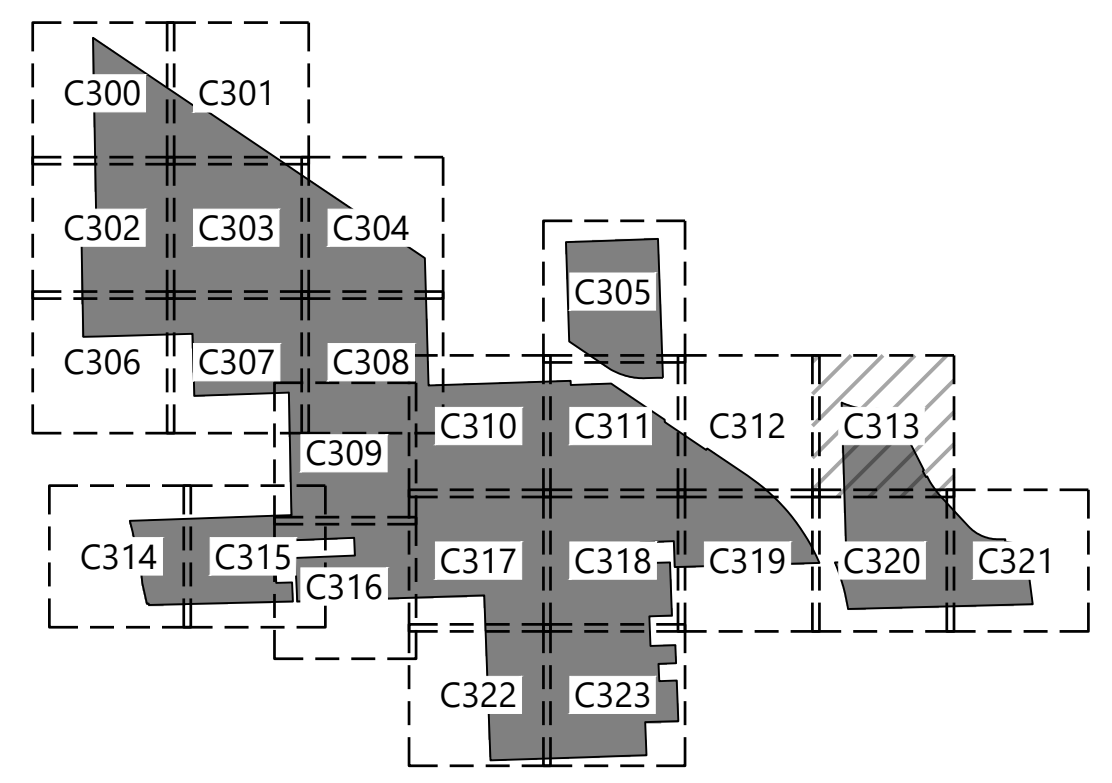
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**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

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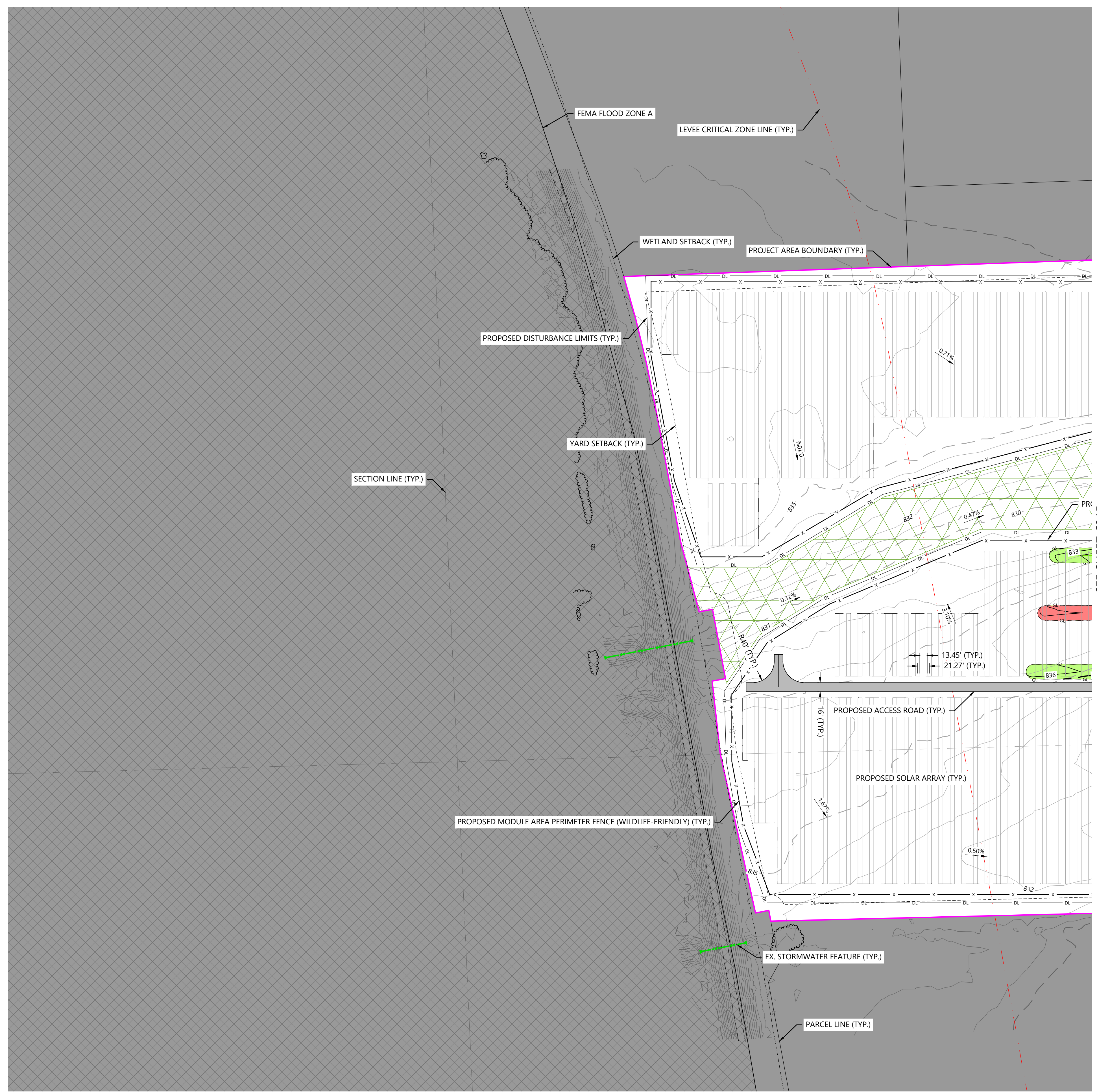
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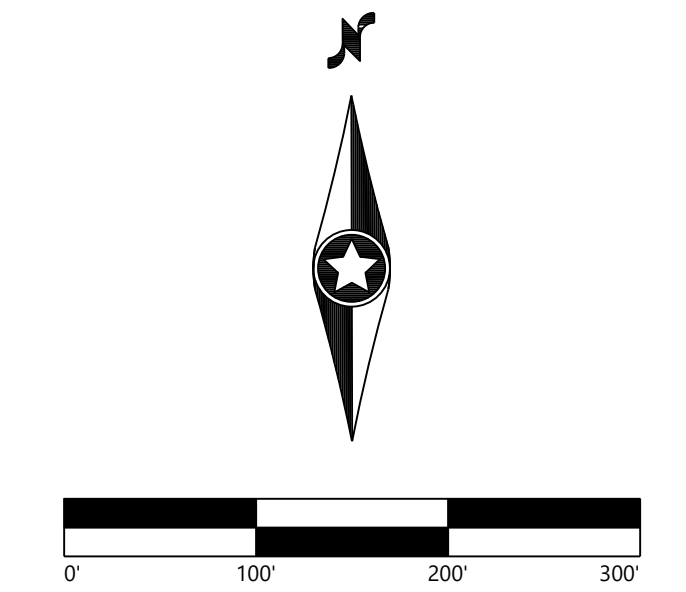
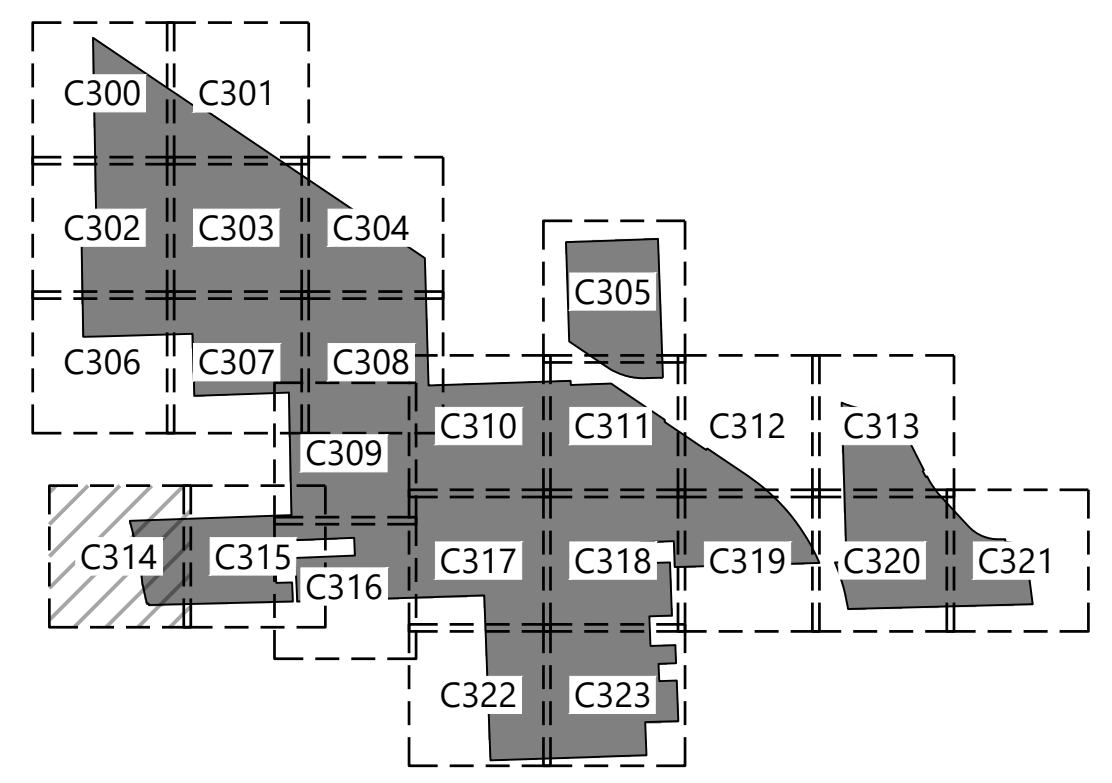
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**KEYMAP:**



**Kansas Sky Energy Center**  
Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C314

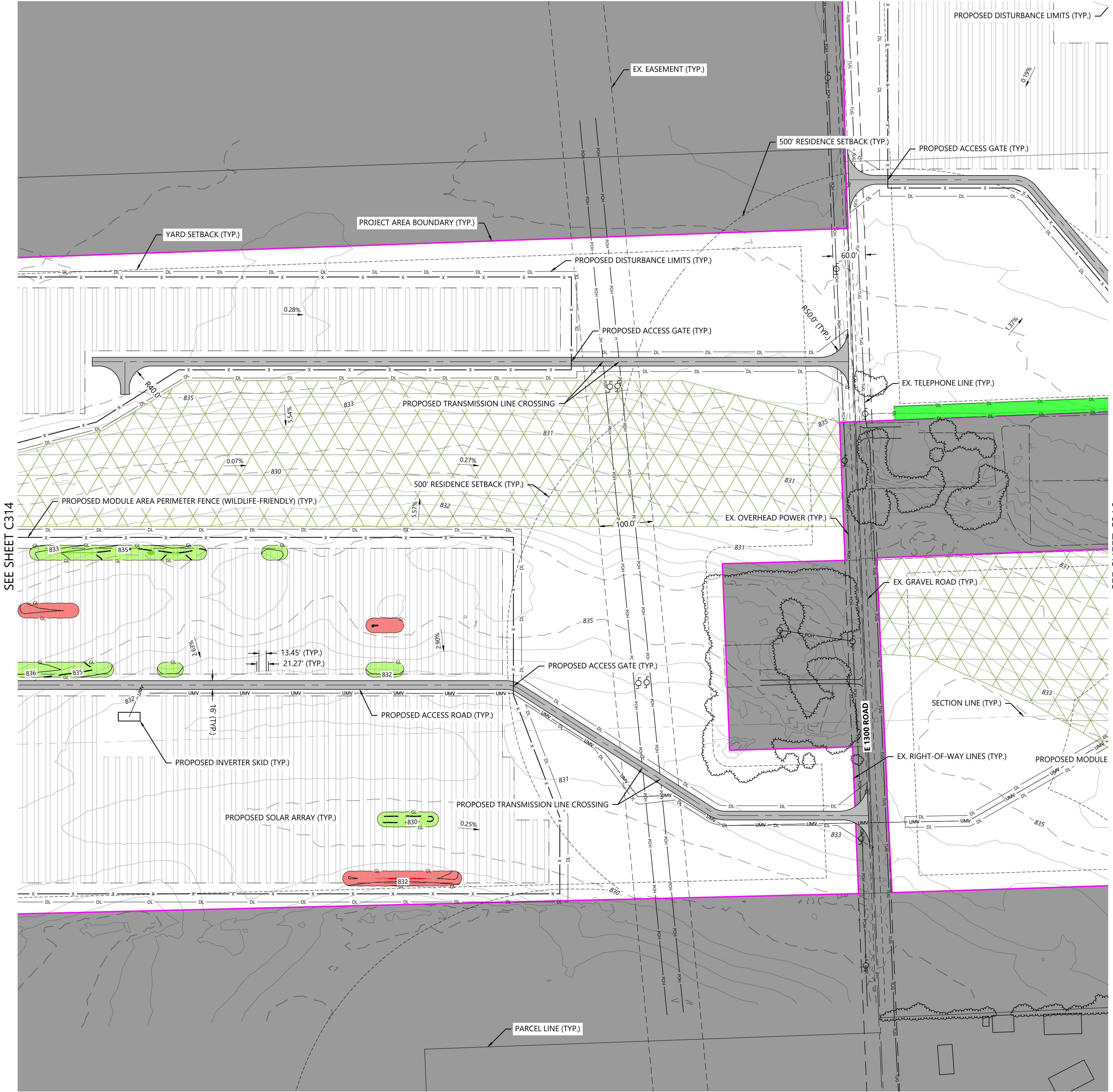
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PREPARED FOR:  
**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	08/14/23	Permitting Site Plans	SJM	EFE	RIG
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C	11/10/23	Permitting Site Plans	CRS	EFE	RIG
D	11/13/23	Permitting Site Plans	CRS	EFE	RIG



**LEGEND:**

- PROJECT AREA BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SETBACK LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. TREELINE
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. RAIL LINE
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**PRELIMINARY ARRAY GRADING CRITERIA**

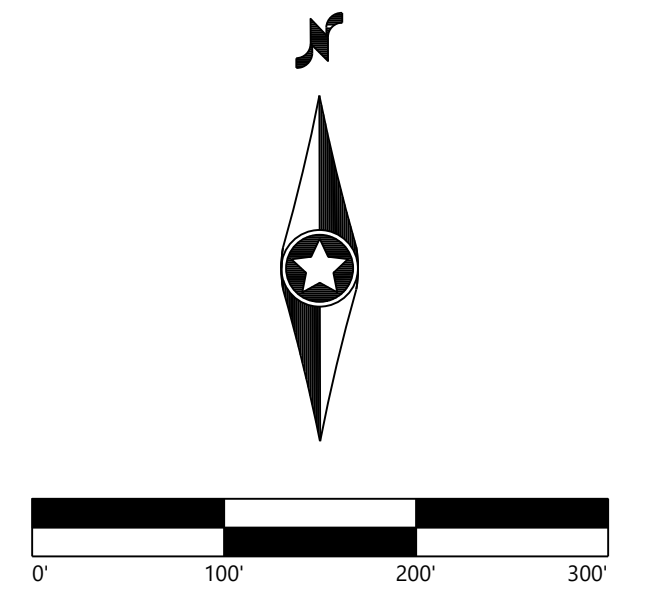
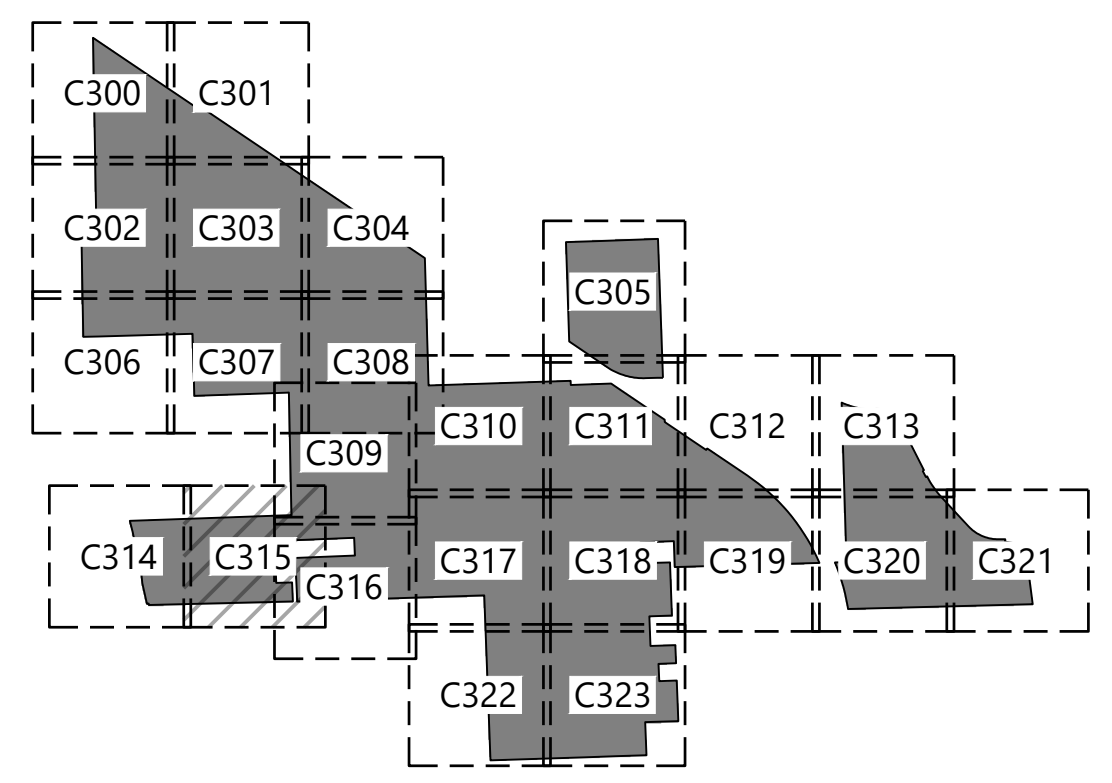
RACK	SINGLE AXIS TRACKER
GRADING REVEAL WINDOW	2'
MAXIMUM E-W SLOPE	10.0%
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**PRELIMINARY ARRAY GRADING QUANTITIES**

SITE AREA (ACRES)	604
TOTAL GRADING AREA (ACRES)	1.1
TOTAL GRADING AREA PERCENT	0.2%
TOTAL CUT (CY)	550
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**Kansas Sky Energy Center**  
Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C315

I:\Projects\2023\11\13\2023\_238\_Plan\_Grading\_Solar.mxd, 11/13/2023 2:58 PM, G:\D:\C:\Users\jgibson\Documents\2023\11\13\2023\_238\_Plan\_Grading\_Solar.mxd

PREPARED FOR:

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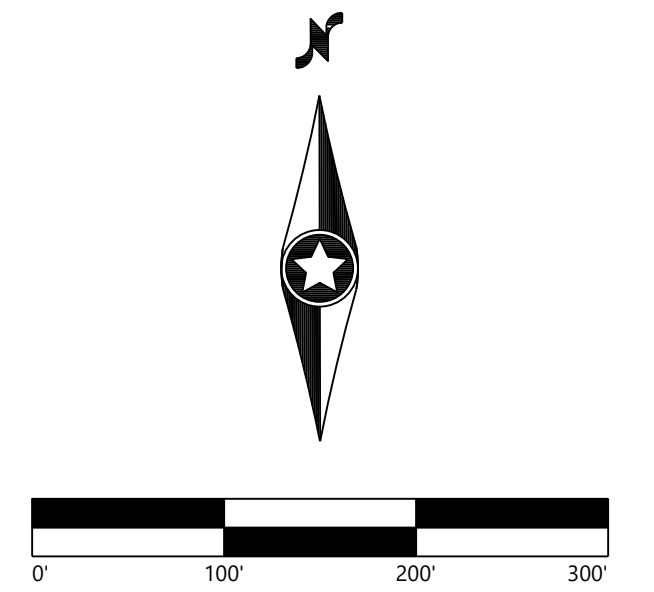
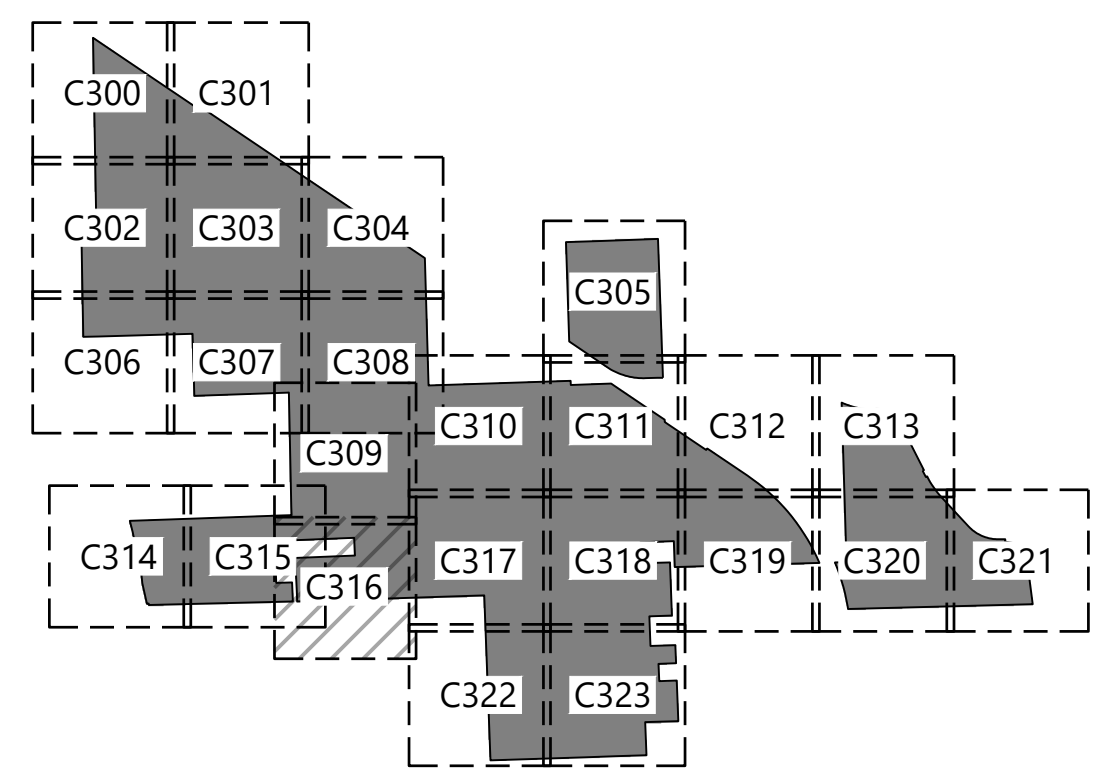
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Douglas County, Kansas

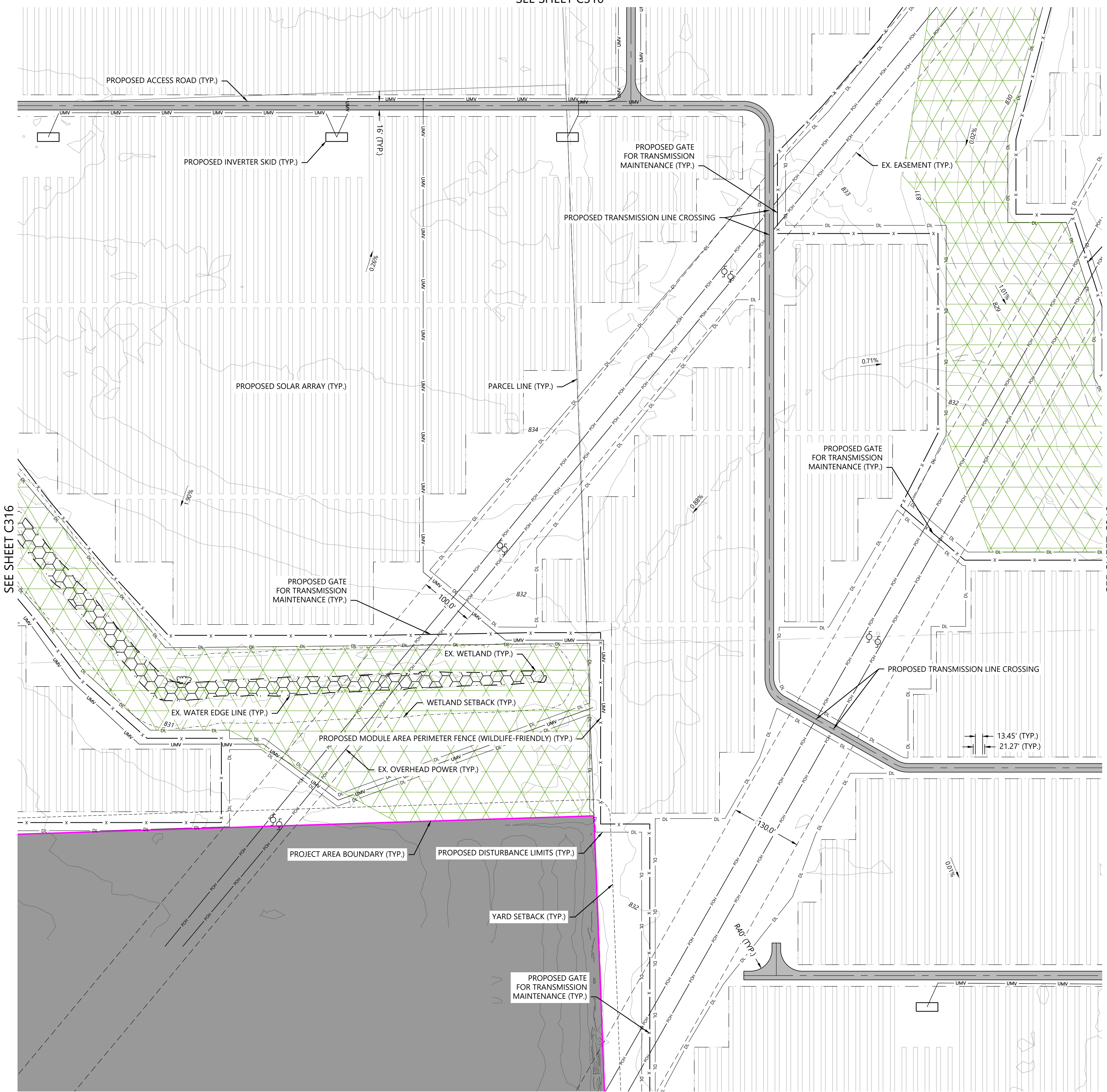
**Grading and Drainage  
Plan**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV:   
 SHEET: C316 D

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SEE SHEET C310



SEE SHEET C322

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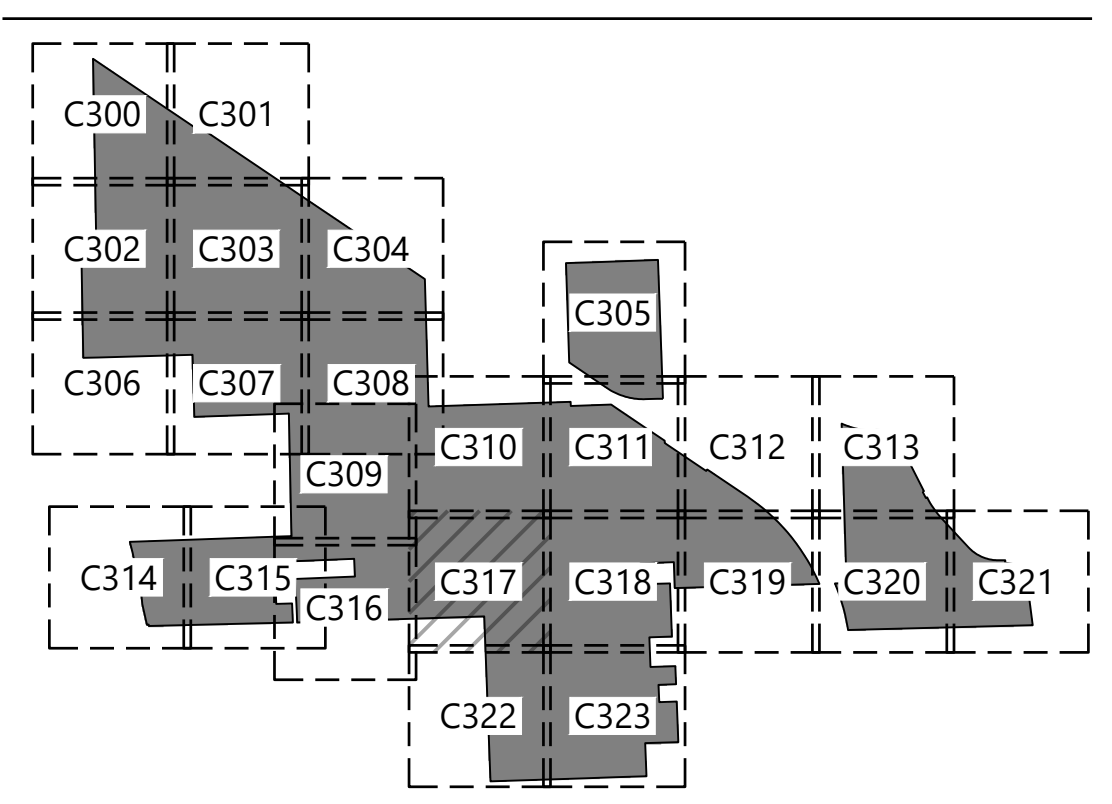
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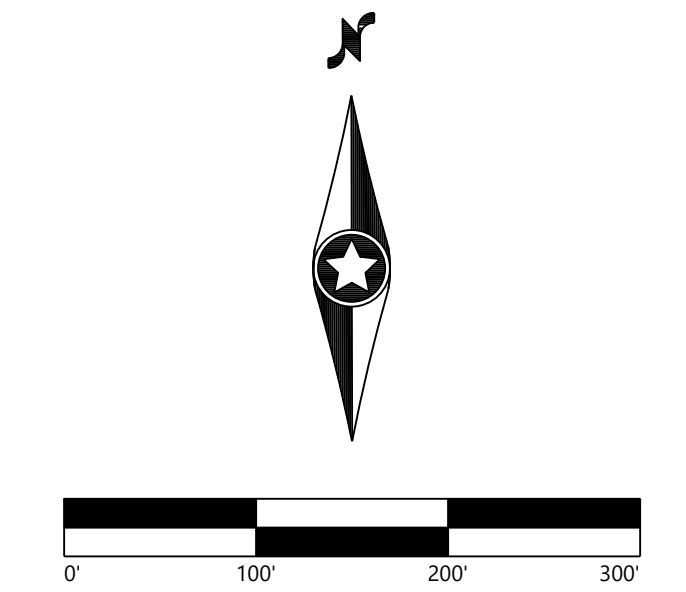


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**Kansas Sky Energy Center**  
Douglas County, Kansas

Grading and Drainage Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV:  
SHEET: C317 D

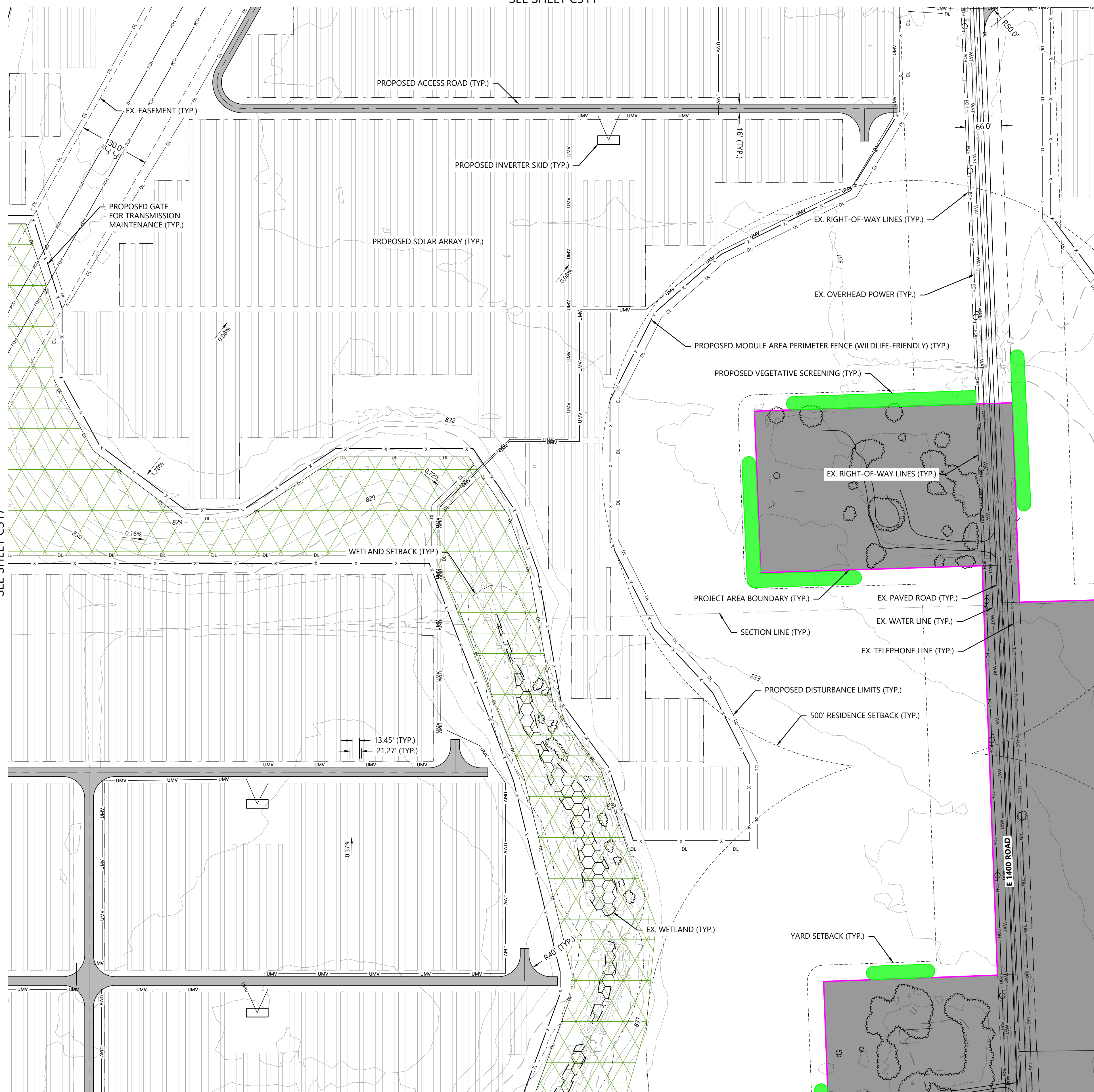
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SEE SHEET C311

SEE SHEET C323

SEE SHEET C317

SEE SHEET C319



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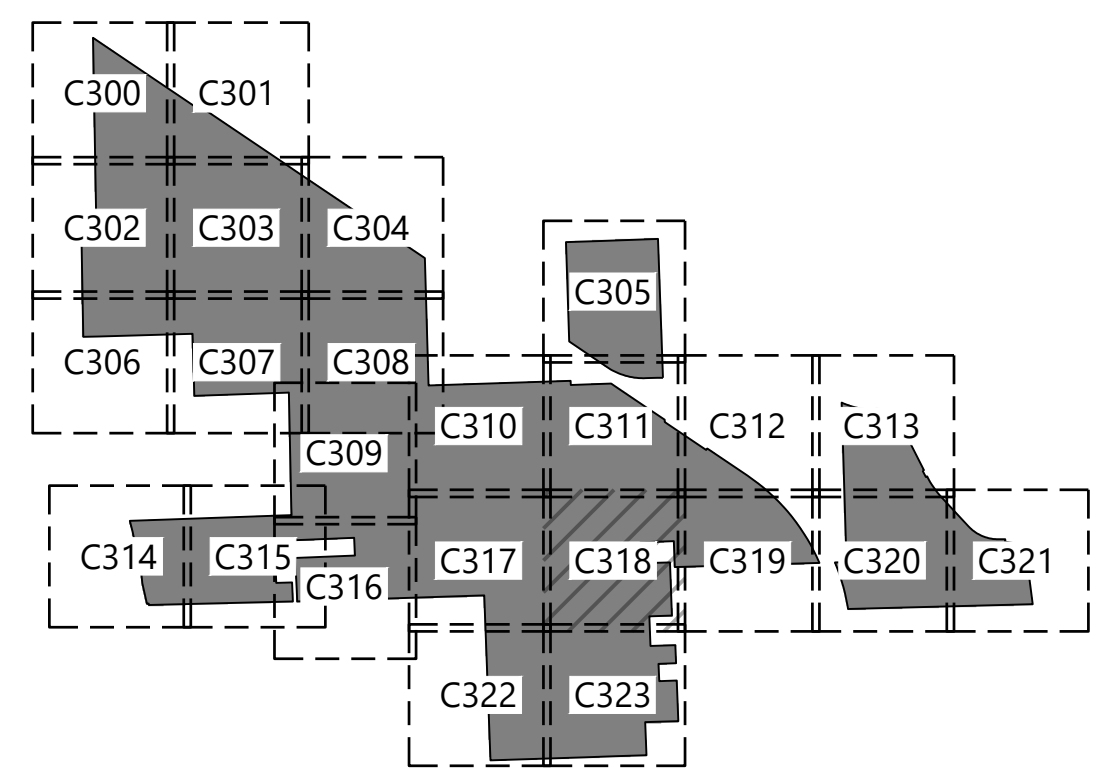
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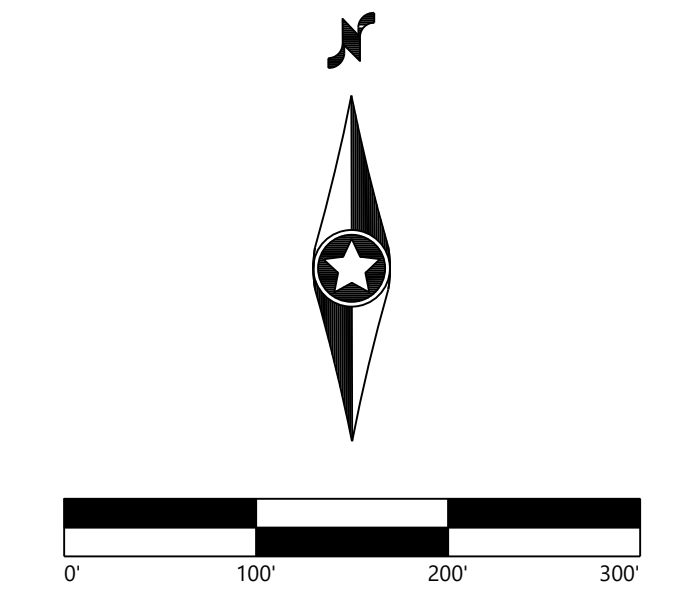


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**Kansas Sky Energy Center**  
Douglas County, Kansas

Grading and Drainage Plans

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DATE: 11/13/2023 REV:  
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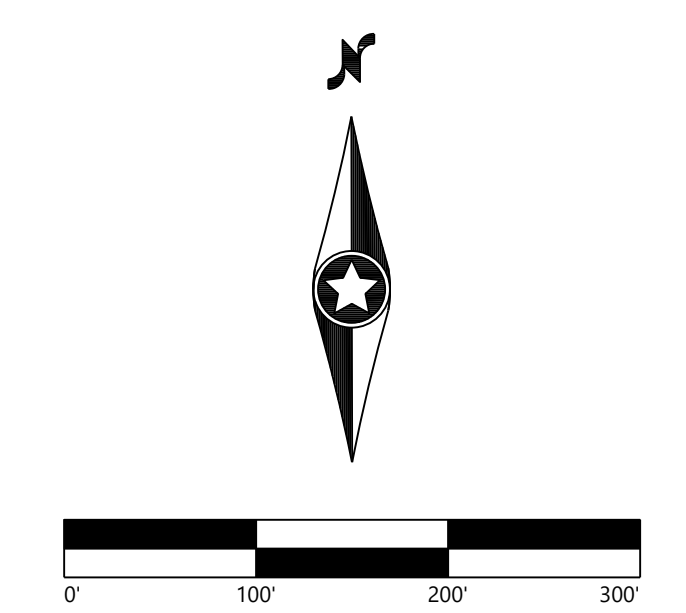
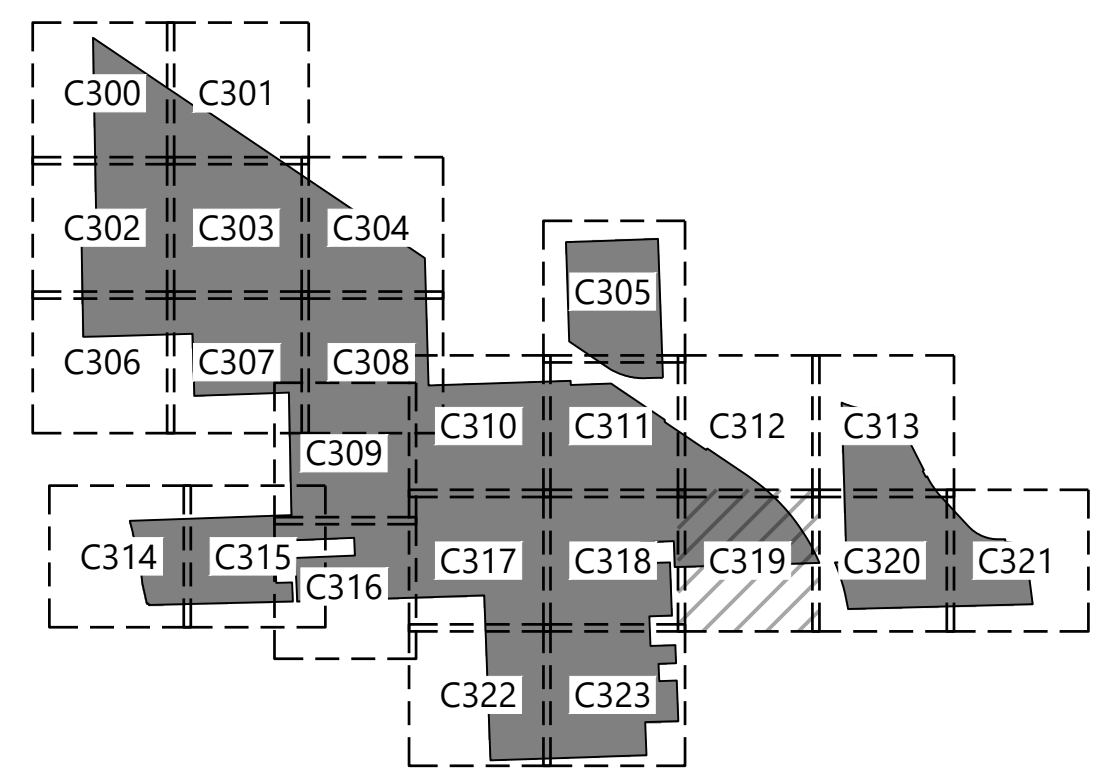
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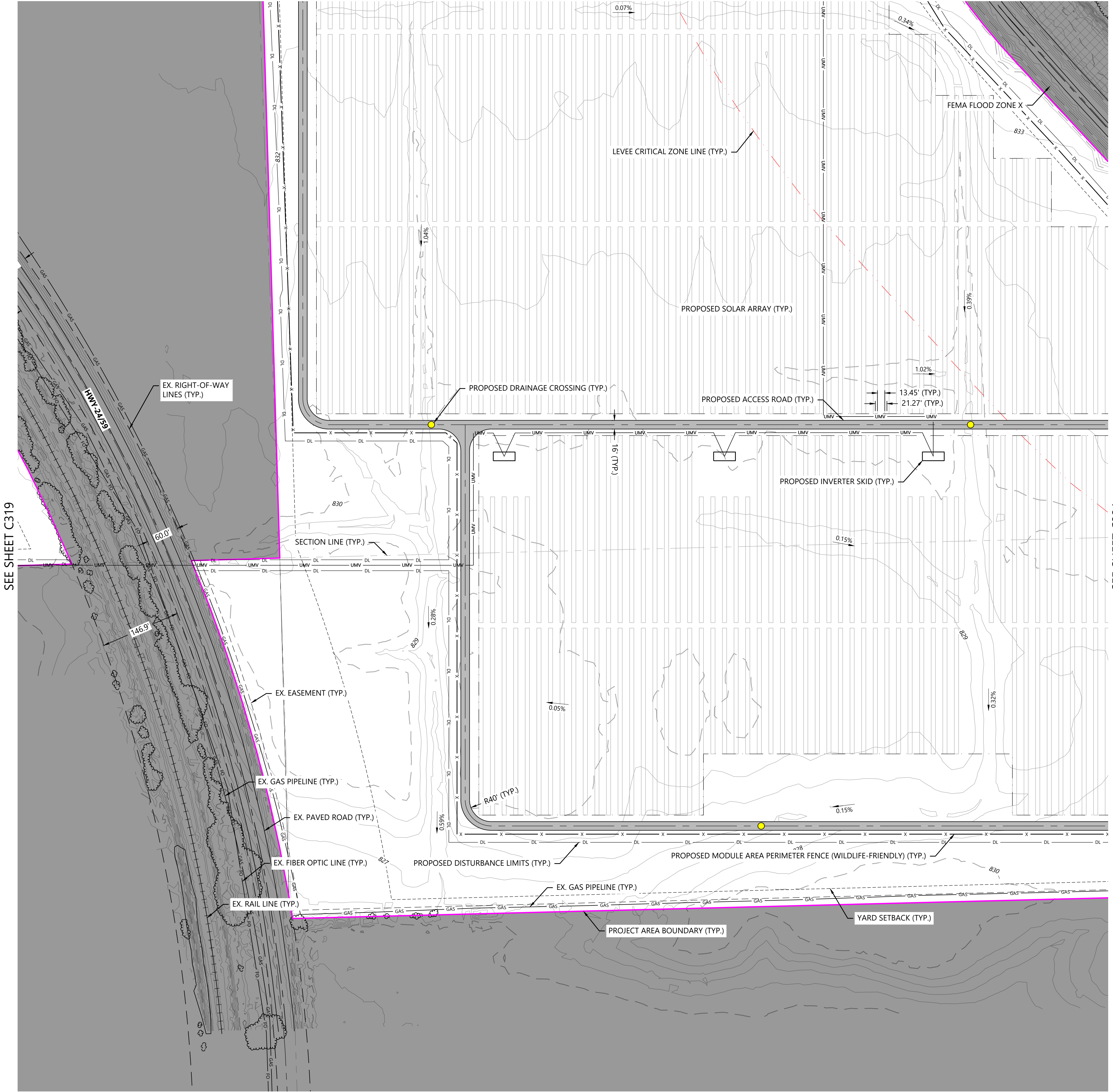
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SEE SHEET C313



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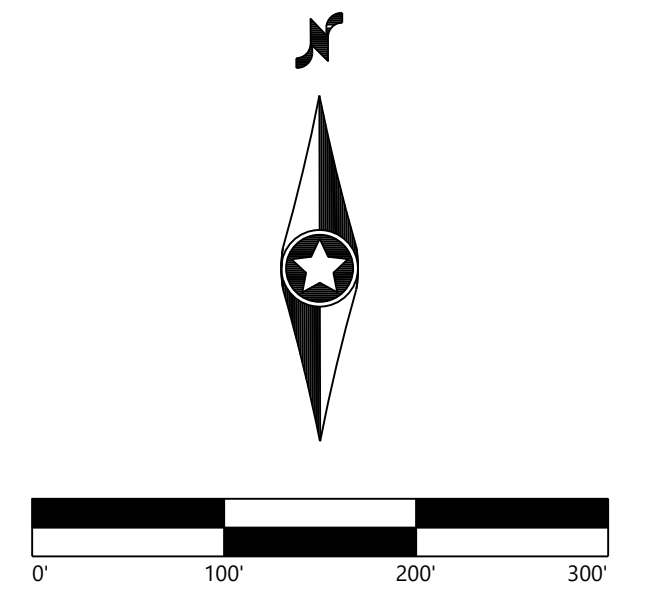
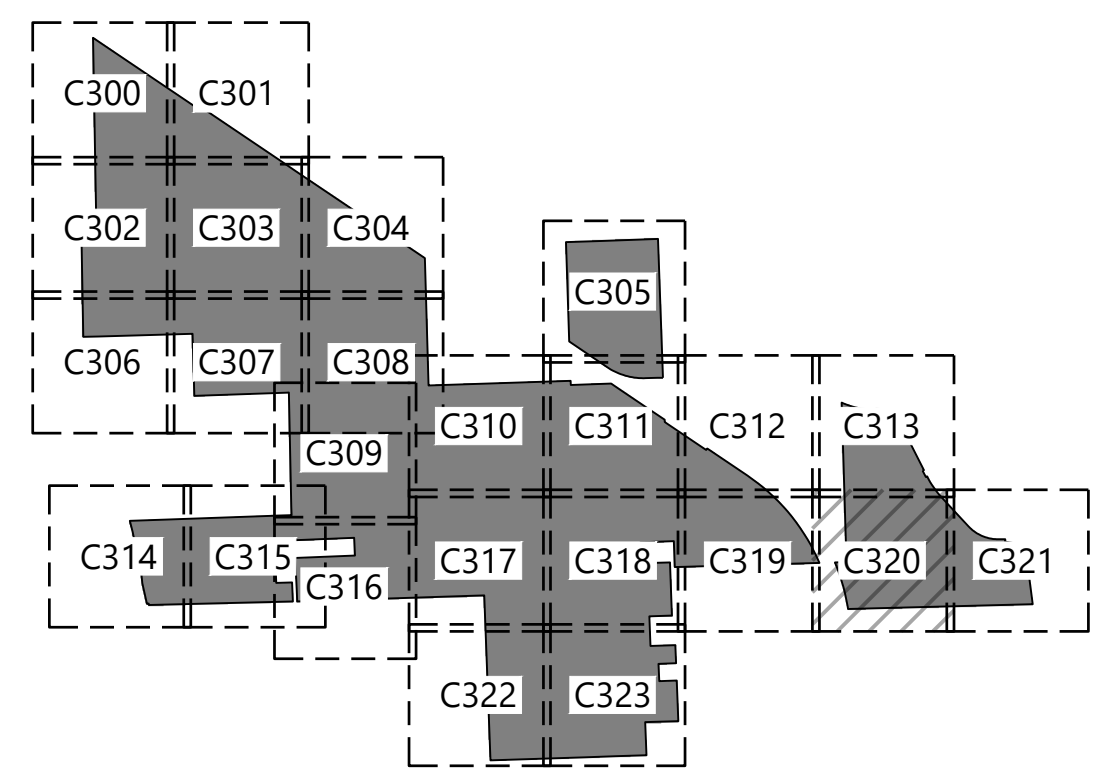
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- EX. STORMWATER FEATURE
- EX. WETLAND
- WETLAND SETBACK LINE
- FEMA FLOOD ZONE A
- LEVEE CRITICAL ZONE
- PROPOSED PROJECT FACILITIES
- PROPOSED TEMPORARY LAYDOWN YARD
- PROPOSED TRACKING SOLAR ARRAY
- PROPOSED ACCESS ROAD
- PROPOSED MODULE AREA PERIMETER FENCE (WILDLIFE-FRIENDLY)
- PROPOSED SUBSTATION SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED CONSTRUCTION FENCE
- PROPOSED LANDSCAPE BUFFER
- PROPOSED BASIN
- PROPOSED WILDLIFE CORRIDOR
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED DRAINAGE CROSSING
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED MODULE AREA BOUNDARIES
- PROPOSED DISTURBANCE LIMITS
- PROPOSED GRADING LIMITS
- 1.0' TO 2.0' OF CUT
- 0.0' TO 1.0' OF CUT
- 0.0' TO 1.0' OF FILL
- 1.0' TO 2.0' OF FILL

PRELIMINARY ARRAY GRADING CRITERIA	
RACK	SINGLE AXIS TRACKER
GRADING REVEAL WINDOW	2'
MAXIMUM E-W SLOPE	10.0%
MAXIMUM N-S SLOPE	6.1%

PRELIMINARY ARRAY GRADING QUANTITIES	
SITE AREA (ACRES)	604
TOTAL GRADING AREA (ACRES)	1.1
TOTAL GRADING AREA PERCENT	0.2%
TOTAL CUT (CY)	550
TOTAL FILL (CY)	550

- NOTES:
- THE QUANTITIES SHOWN WERE DETERMINED USING THE ANTICIPATED GRADES AND ARE FOR ESTIMATING PURPOSES ONLY.
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  - ALL FENCING AND GATES WITHIN TRANSMISSION EASEMENT SHALL BE GROUNDED.
  - MV ROUTING SHOWN FOR REFERENCE ONLY.

**KEYMAP:**



**Kansas Sky  
Energy Center**  
Douglas County, Kansas

**Grading and Drainage  
Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C320

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PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	08/14/23	Permitting Site Plans	SJM	EFE	RIG
B	11/02/23	Permitting Site Plans	SJM	EFE	RIG
C	11/10/23	Permitting Site Plans	CRS	EFE	RIG
D	11/13/23	Permitting Site Plans	CRS	EFE	RIG

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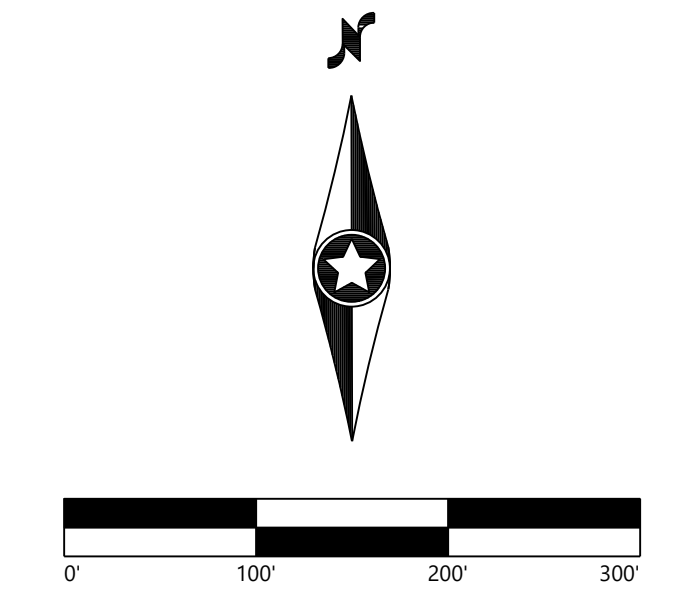
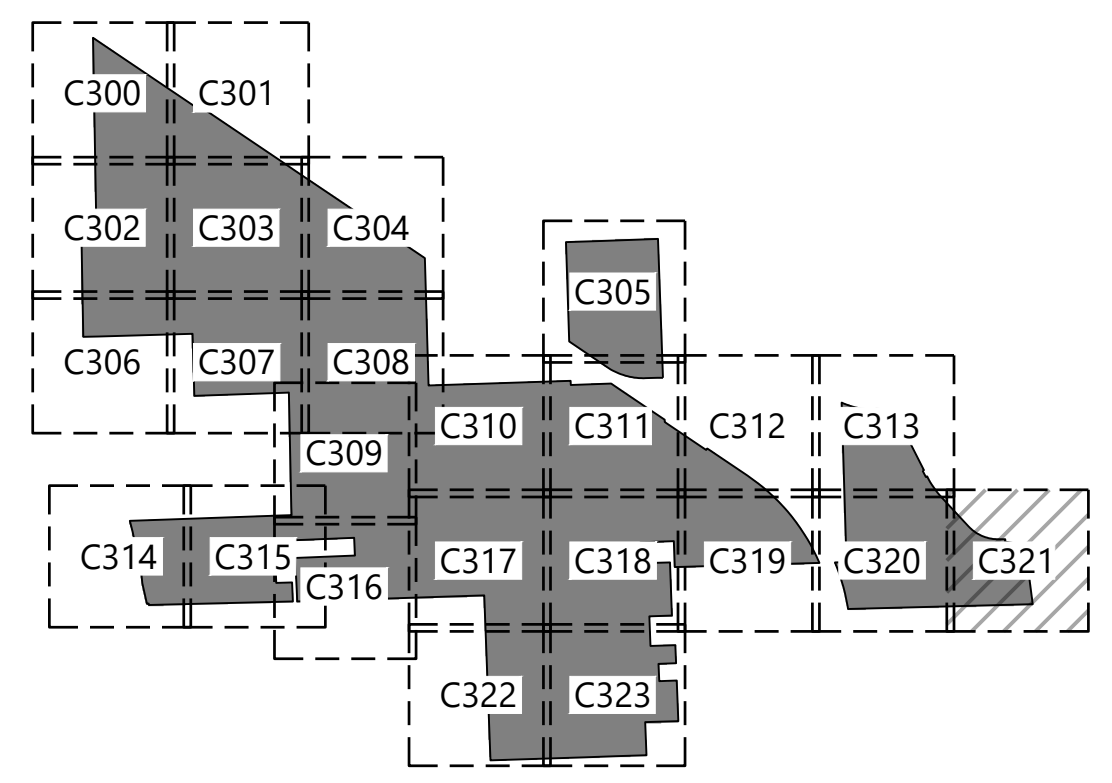
- PROJECT AREA BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SETBACK LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. TREELINE
- EX. PAVED ROAD
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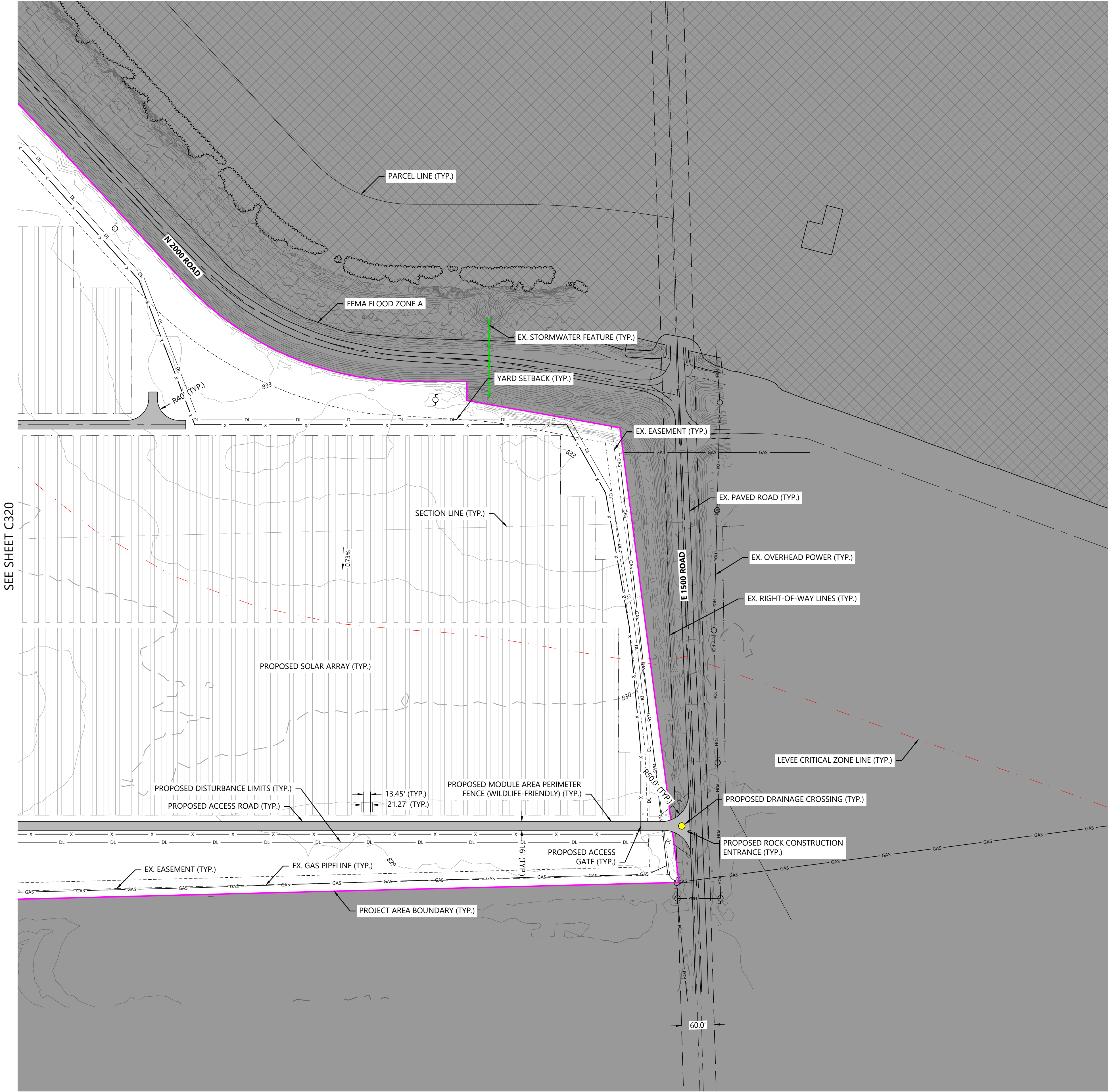


**Kansas Sky Energy Center**  
Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C321



SEE SHEET C320

W:\projects\2023\11\13\2023\_238\_Plan\_Grading\20231113\_14.00\_GAD\_Civil\11132023\_238\_Plan\_Grading.dwg, 11/13/2023, 2:58 PM, Gennaro Bortone



SEE SHEET C317



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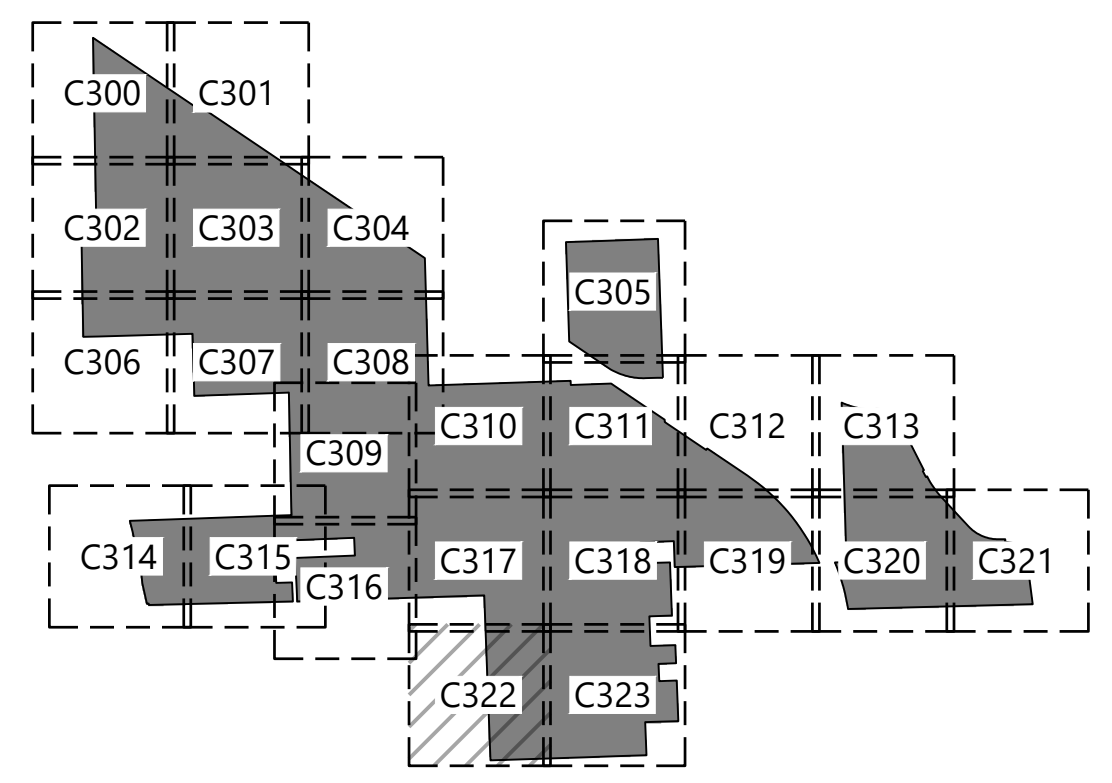
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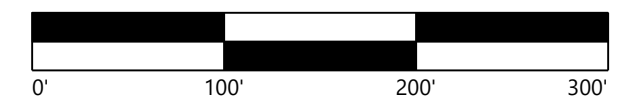
PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	08/14/23	Permitting Site Plans	SJM	EFE	RIG
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**Kansas Sky Energy Center**

Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023

SHEET: C322 D

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PREPARED FOR:  
**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

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**LEGEND:**

- PROJECT AREA BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
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- EX. INDEX CONTOUR
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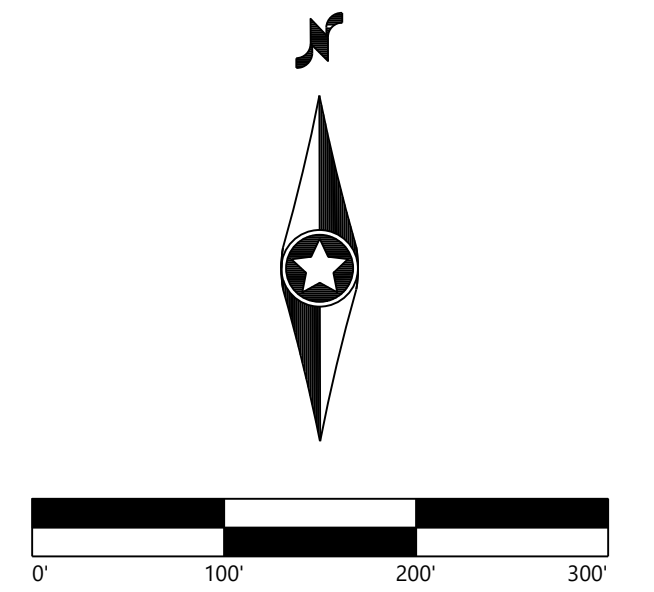
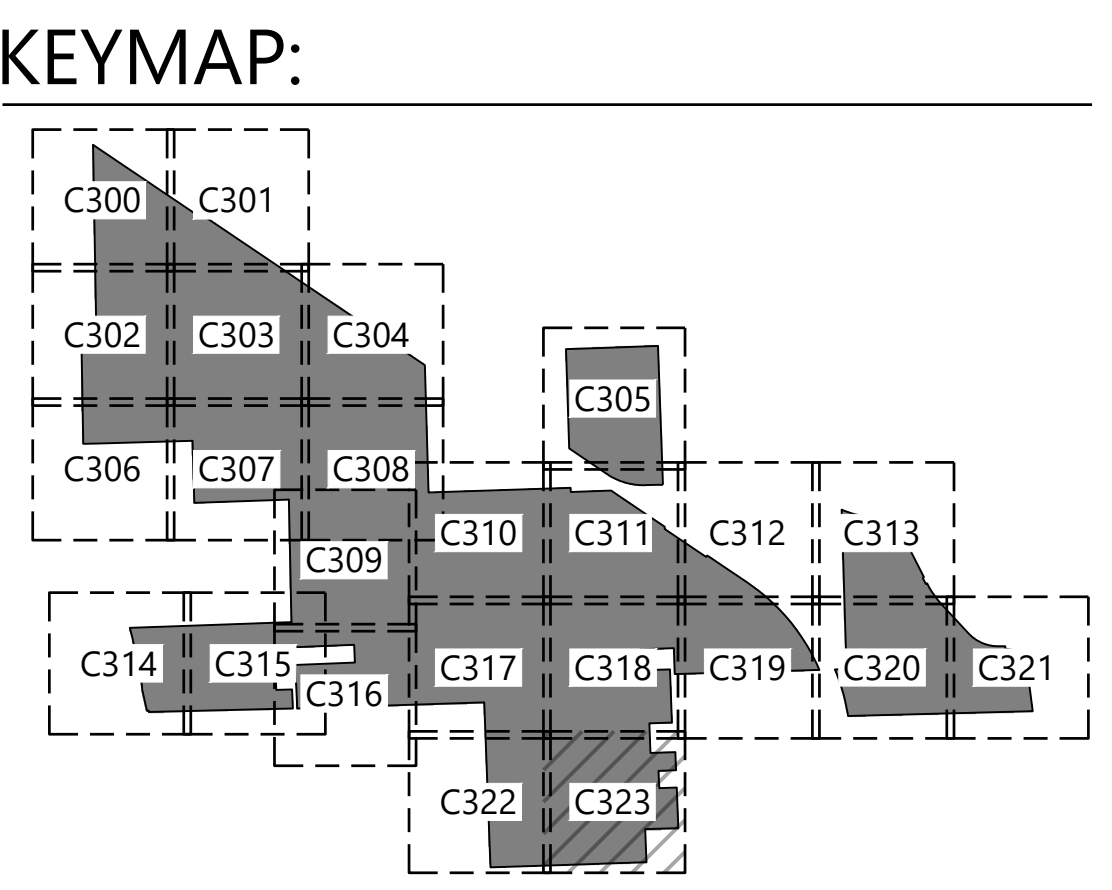
**PRELIMINARY ARRAY GRADING CRITERIA**

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MAXIMUM E-W SLOPE	10.0%
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**PRELIMINARY ARRAY GRADING QUANTITIES**

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**Kansas Sky Energy Center**  
Douglas County, Kansas

**Grading and Drainage Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C323

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PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	08/14/23	Permitting Site Plans	SJM	EFE	RIG
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C	11/10/23	Permitting Site Plans	CRS	EFE	RIG
D	11/13/23	Permitting Site Plans	CRS	EFE	RIG

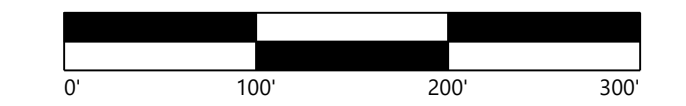
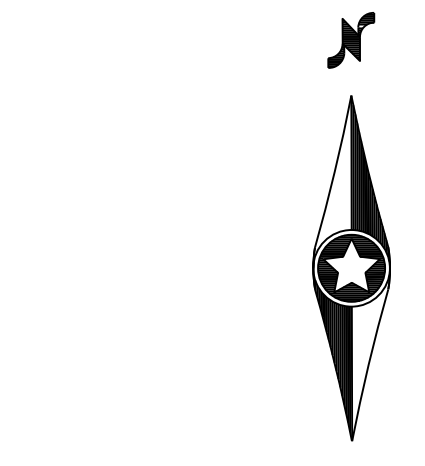
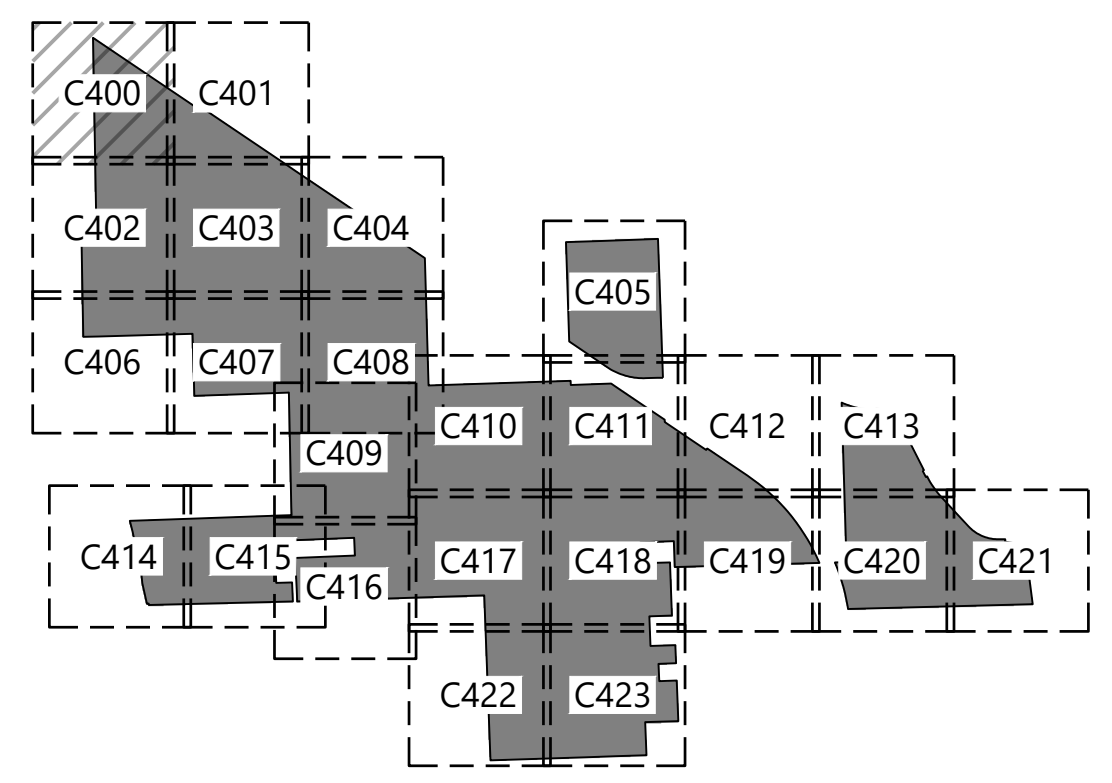
**LEGEND:**

- PROJECT AREA BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
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- EX. INDEX CONTOUR
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- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED STABILIZATION AREA
- PROPOSED ELECTRICAL EQUIPMENT
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**NOTES:**

1. INTERNAL ROADS WILL BE CONSTRUCTED TO MATCH THE SURROUNDING EXISTING GROUND ELEVATIONS TO ALLOW EXISTING DRAINAGE PATTERNS TO PERSIST.
2. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO ANY UPSLOPE GROUND DISTURBANCE COMMENCING.
3. TOPSOIL SHALL BE SEGREGATED FROM ALL EARTHWORK ACTIVITIES THAT REQUIRE SUB-SOIL EXCAVATION.
4. THE ENTIRETY OF THE SITE REQUIRES VEGETATION ESTABLISHMENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. VEGETATION MUST BE ESTABLISHED WITH A DENSITY OF 70% COVERAGE.
5. THE CONTRACTOR SHALL DEVELOP AN ACCESS PLAN TO ISOLATE VEHICLE AND EQUIPMENT ACCESS TO DEFINED AREAS SO DISTURBANCE CAN BE CALCULATED. IF EQUIPMENT AND ACCESS IS NOT CONTROLLED THE POTENTIAL FOR RUTTING AND SOIL DISTURBANCE FROM TIRES AND TRACKED EQUIPMENT IS HIGH AND COULD RESULT IN EXCESSIVE SOIL DISTURBANCE.
6. A MINIMUM 10' VEGETATED BUFFER STRIP BETWEEN PROJECT FENCE AND ARRAY AREA SHALL REMAIN.
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10. TOTAL SOLAR MODULE AREA: 604 ACRES
11. MV ROUTING SHOWN FOR REFERENCE ONLY.

**KEYMAP:**



**Kansas Sky Energy Center**

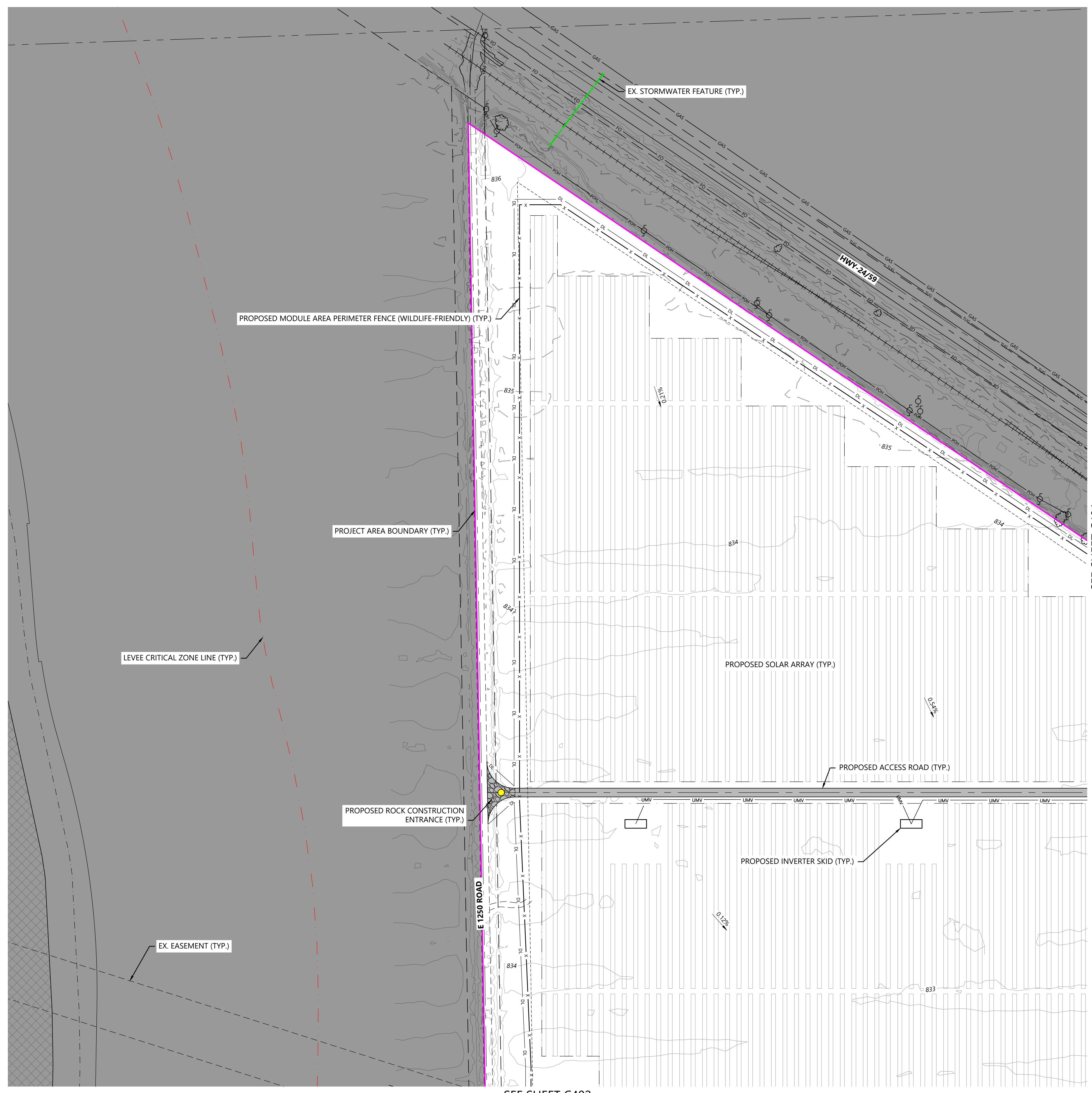
Douglas County, Kansas

**Erosion and Sediment Control Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV:

SHEET: C400 D



SEE SHEET C401

SEE SHEET C402

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PREPARED FOR:

**FREE STATE SOLAR  
PROJECT, LLC.**422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

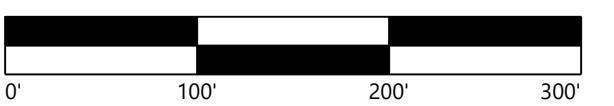
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**LEGEND:**

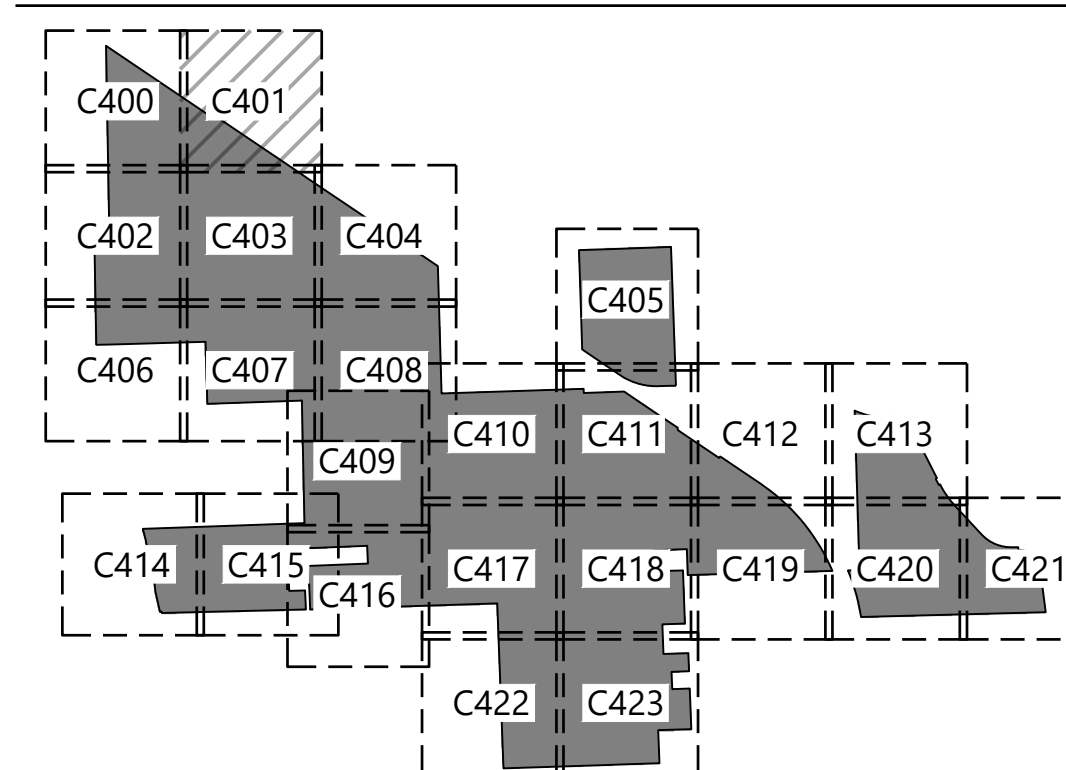
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SEE SHEET C300

**KEYMAP:****Kansas Sky  
Energy Center**

Douglas County, Kansas

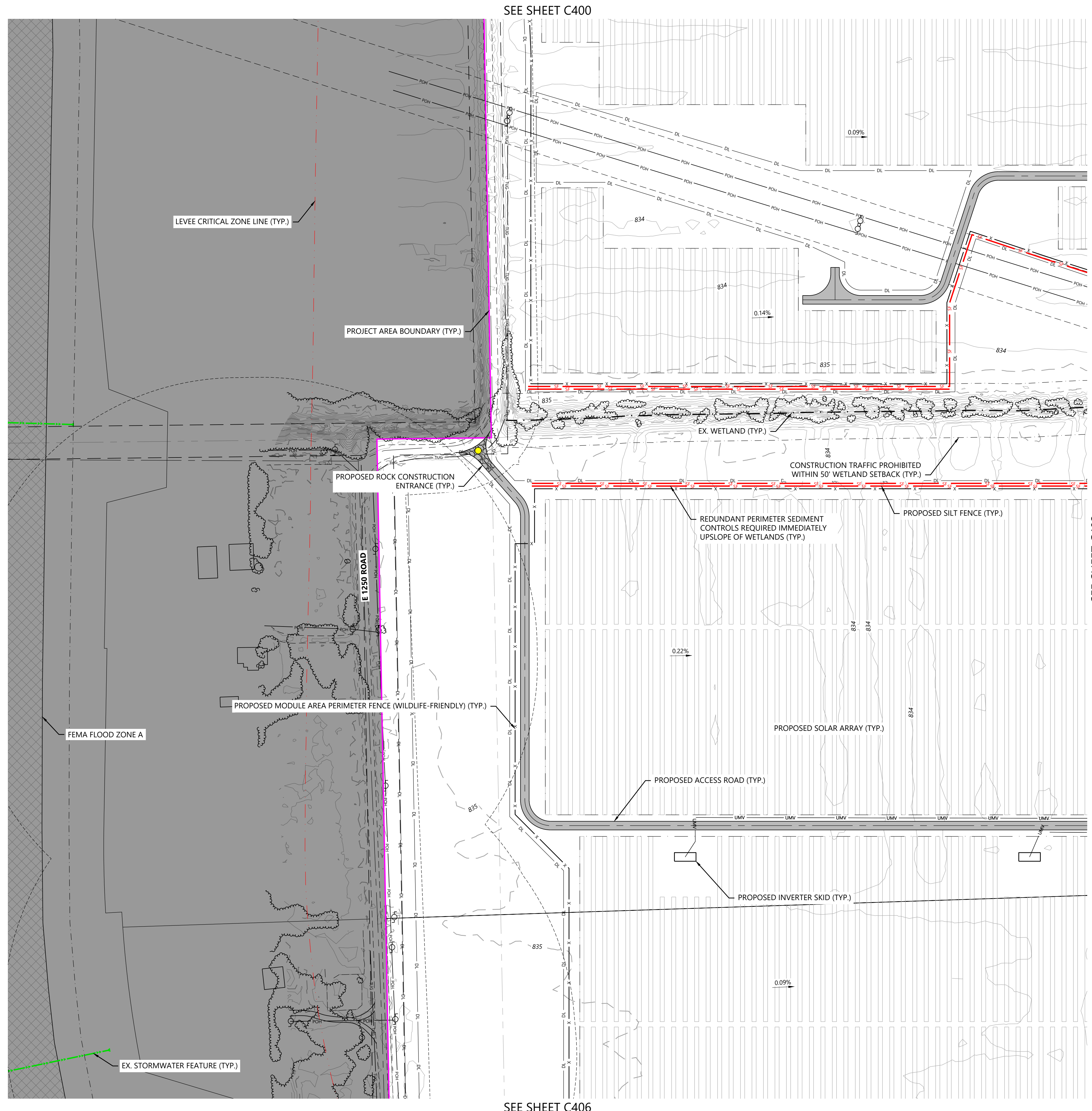
Erosion and Sediment  
Control Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV:

SHEET: C401 D

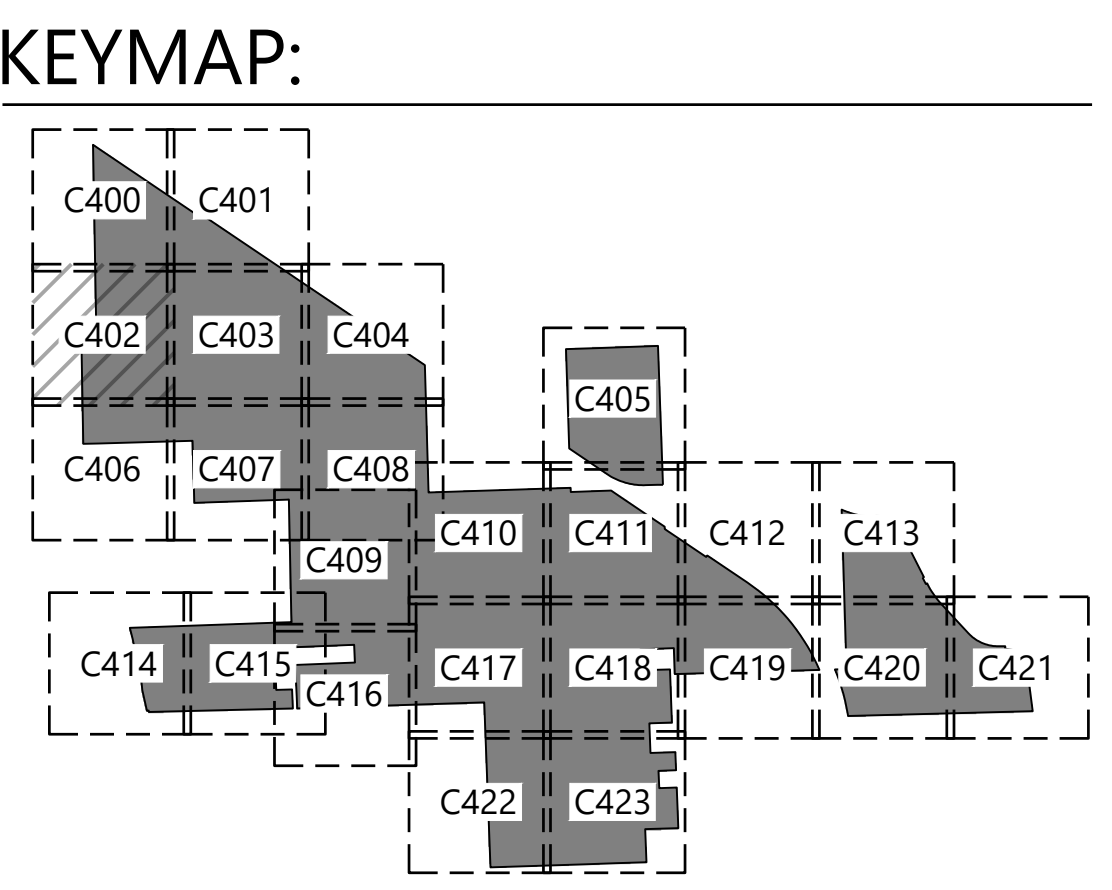
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**LEGEND:**

	PROJECT AREA BOUNDARY
	SECTION LINES
	RIGHT-OF-WAY LINES
	EASEMENT LINES
	SETBACK LINES
	EX. INDEX CONTOUR
	EX. INTERVAL CONTOUR
	EX. TREELINE
	EX. PAVED ROAD
	EX. GRAVEL ROAD
	EX. RAIL LINE
	EX. FENCE
	EX. CULVERT
	EX. OVERHEAD POWER
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	EX. STORMWATER FEATURE
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	EX. WETLAND
	FEMA FLOOD ZONE A
	LEVEE CRITICAL ZONE
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	PROPOSED MODULE AREA BOUNDARIES
	PROPOSED TRACKING SOLAR ARRAY
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	PROPOSED SUBSTATION SECURITY FENCE
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	PROPOSED STABILIZATION AREA
	PROPOSED ELECTRICAL EQUIPMENT
	PROPOSED DRAINAGE CROSSING

- NOTES:**
- INTERNAL ROADS WILL BE CONSTRUCTED TO MATCH THE SURROUNDING EXISTING GROUND ELEVATIONS TO ALLOW EXISTING DRAINAGE PATTERNS TO PERSIST.
  - ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO ANY UPSLOPE GROUND DISTURBANCE COMMENCING.
  - TOPSOIL SHALL BE SEGREGATED FROM ALL EARTHWORK ACTIVITIES THAT REQUIRE SUB-SOIL EXCAVATION.
  - THE ENTIRETY OF THE SITE REQUIRES VEGETATION ESTABLISHMENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. VEGETATION MUST BE ESTABLISHED WITH A DENSITY OF 70% COVERAGE.
  - THE CONTRACTOR SHALL DEVELOP AN ACCESS PLAN TO ISOLATE VEHICLE AND EQUIPMENT ACCESS TO DEFINED AREAS SO DISTURBANCE CAN BE CALCULATED. IF EQUIPMENT AND ACCESS IS NOT CONTROLLED THE POTENTIAL FOR RUTTING AND SOIL DISTURBANCE FROM TIRES AND TRACKED EQUIPMENT IS HIGH AND COULD RESULT IN EXCESSIVE SOIL DISTURBANCE.
  - A MINIMUM 10' VEGETATED BUFFER STRIP BETWEEN PROJECT FENCE AND ARRAY AREA SHALL REMAIN.
  - PERIMETER SEDIMENT CONTROL BMPs (EG. SILT FENCE, STABILIZED SOIL BERMS, FIBER LOGS) ARE STILL REQUIRED.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND OBSERVE DISTURBED SOIL AREAS TO ENSURE COMPLIANCE WITH THE 5 ACRE DISTURBANCE LIMITS FOR TEMPORARY SEDIMENT BASIN NECESSITY.
  - RE-STABILIZATION OF DISTURBED AREAS SHALL OCCUR FOLLOWING SITE GRADING, PILE DELIVERY AND INSTALLATION, AND RACKING DELIVERY AND INSTALLATION.
  - TOTAL SOLAR MODULE AREA: 604 ACRES
  - MV ROUTING SHOWN FOR REFERENCE ONLY.

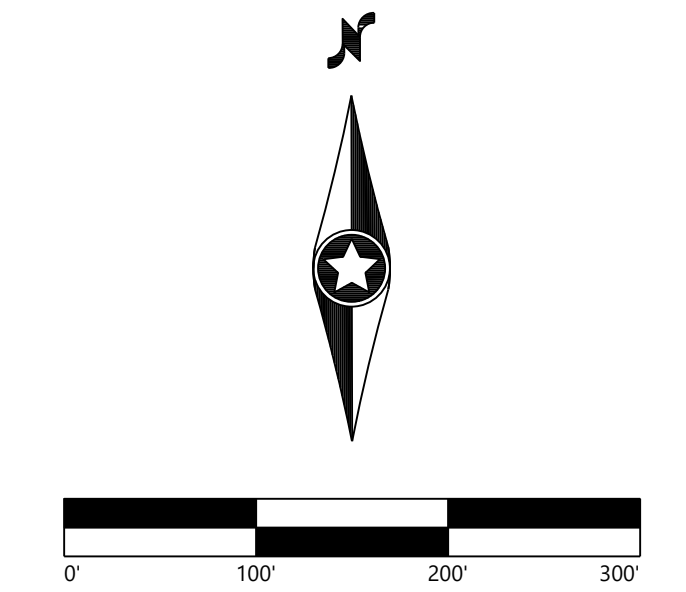


PREPARED FOR:  
**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd.  
 Kansas City, MO 64106

**REVISIONS:**

#	DATE	COMMENT	BY	CHK	APR
A	08/14/23	Permitting Site Plans	SJM	EFE	RIG
B	11/02/23	Permitting Site Plans	SJM	EFE	RIG
C	11/10/23	Permitting Site Plans	CRS	EFE	RIG
D	11/13/23	Permitting Site Plans	CRS	EFE	RIG



**Kansas Sky Energy Center**  
 Douglas County, Kansas

Erosion and Sediment Control Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
 SHEET: C402

SEE SHEET C401



SEE SHEET C407

LEGEND:

- PROJECT AREA BOUNDARY
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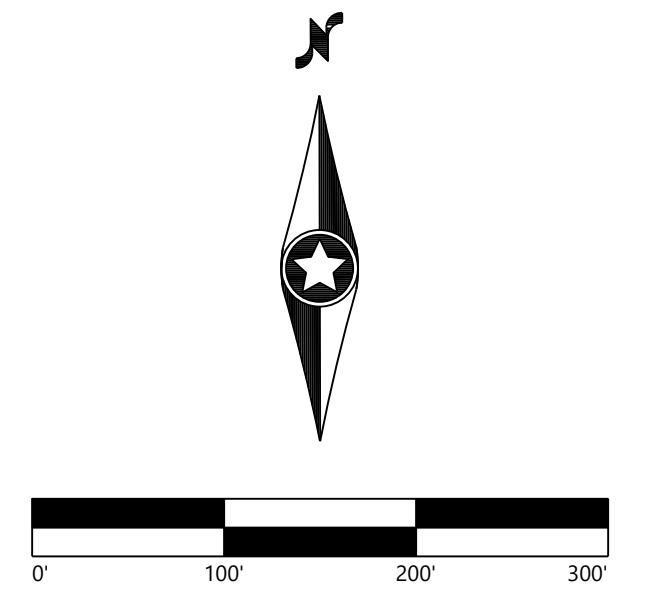
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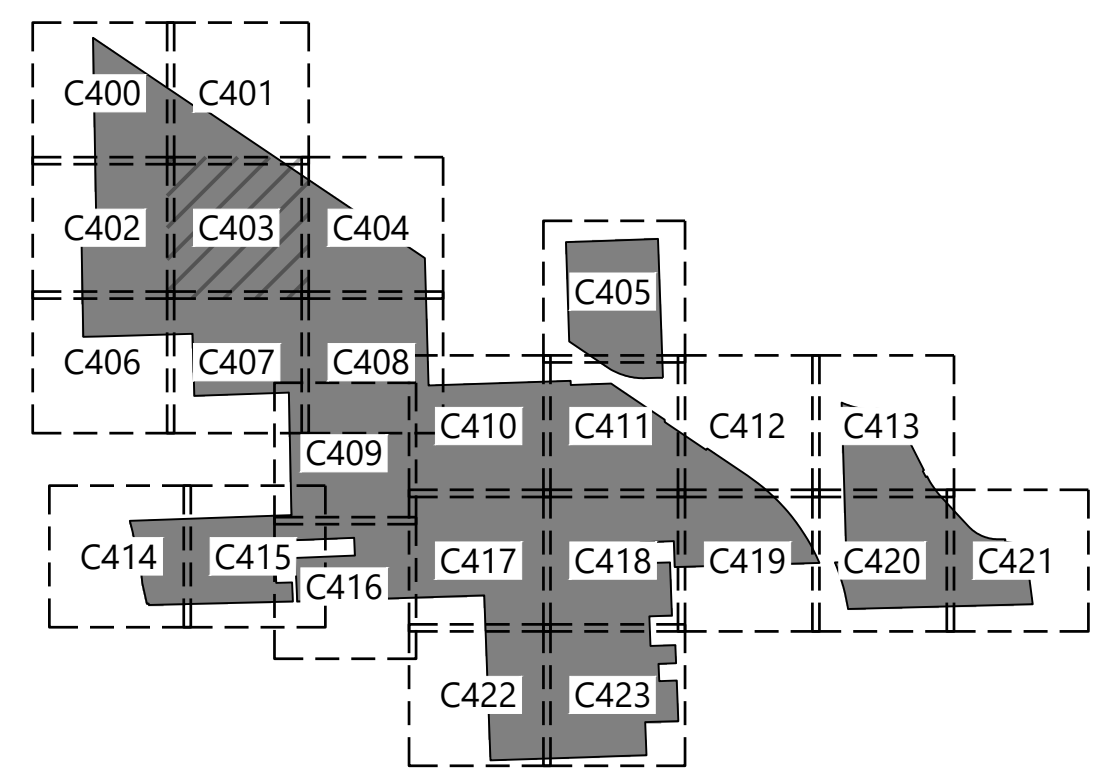
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D	11/13/23	Permitting Site Plans	CRS	EFE	RIG

SEE SHEET 402

SEE SHEET C404



KEYMAP:



**Kansas Sky Energy Center**

Douglas County, Kansas

Erosion and Sediment Control Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV:

SHEET: C403 D

PREPARED FOR:  
**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

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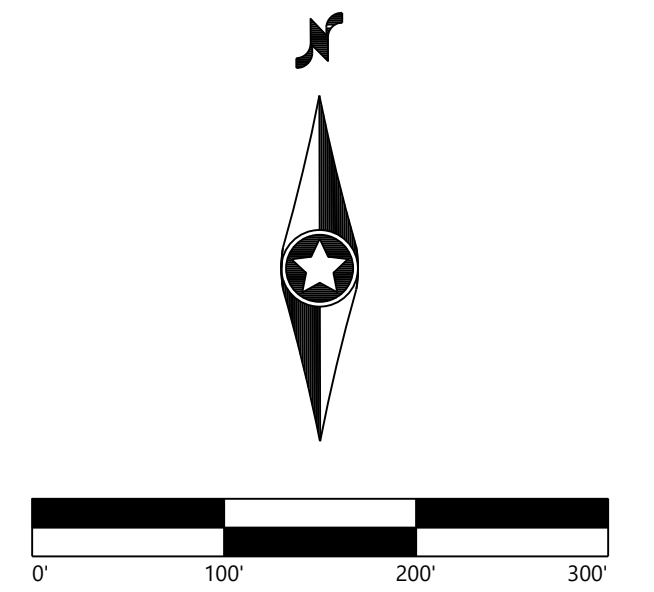
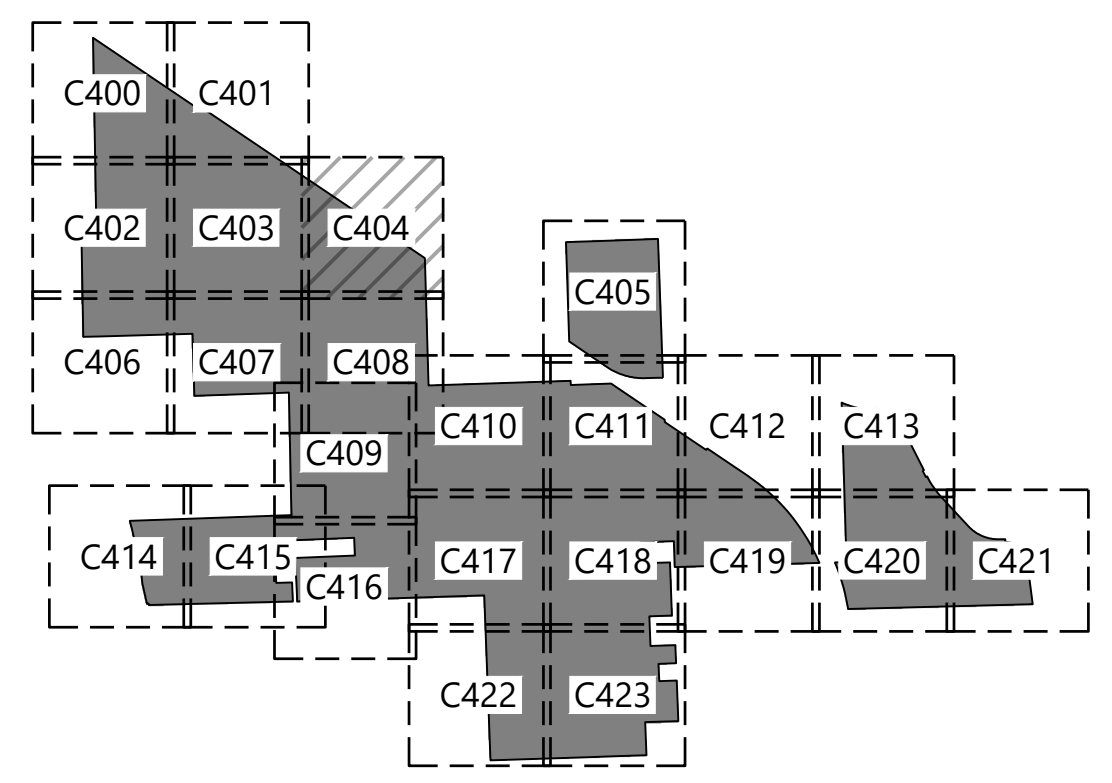
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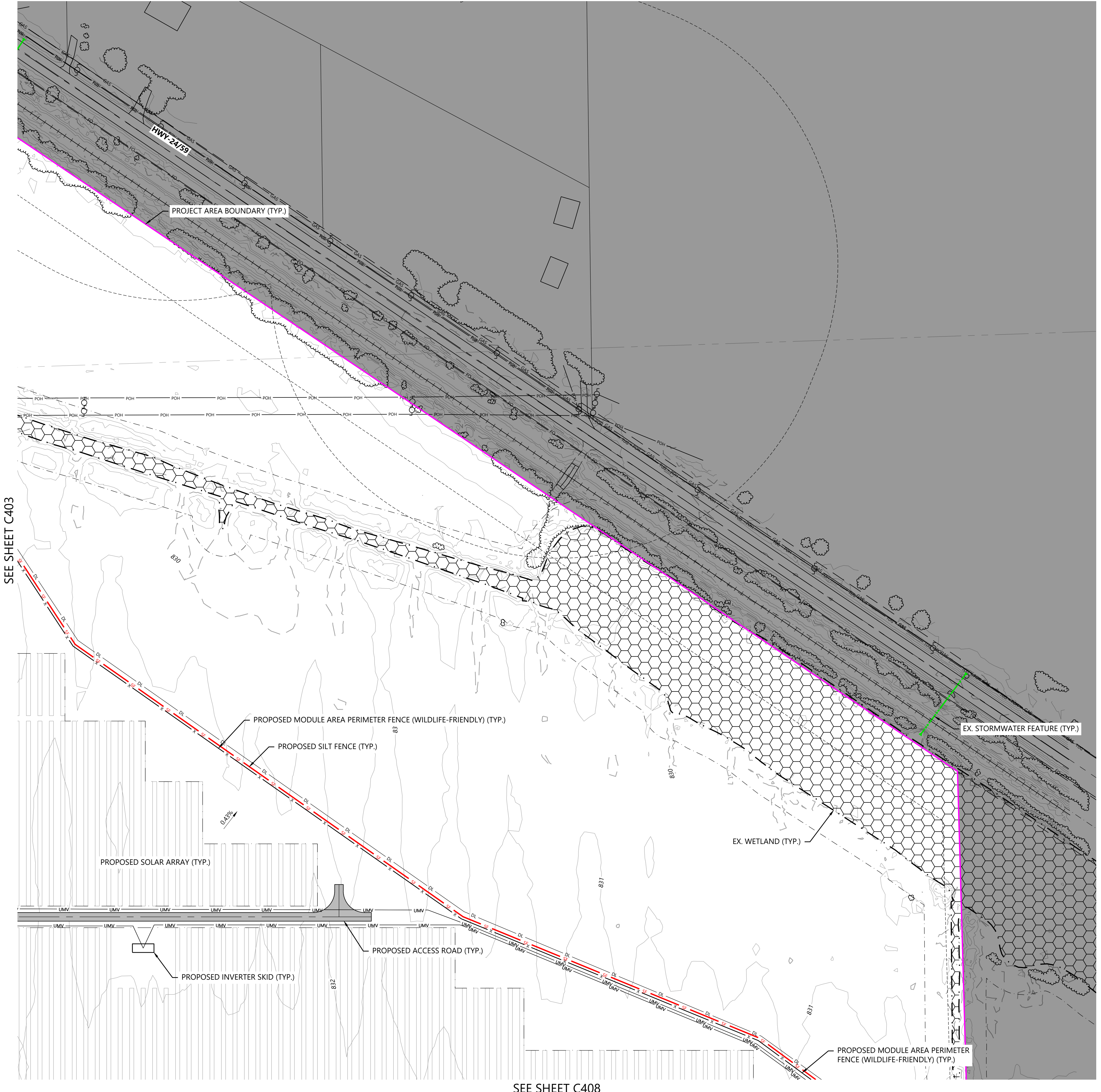


**Kansas Sky Energy Center**  
Douglas County, Kansas

Erosion and Sediment Control Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C404



SEE SHEET C403

SEE SHEET C408

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PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

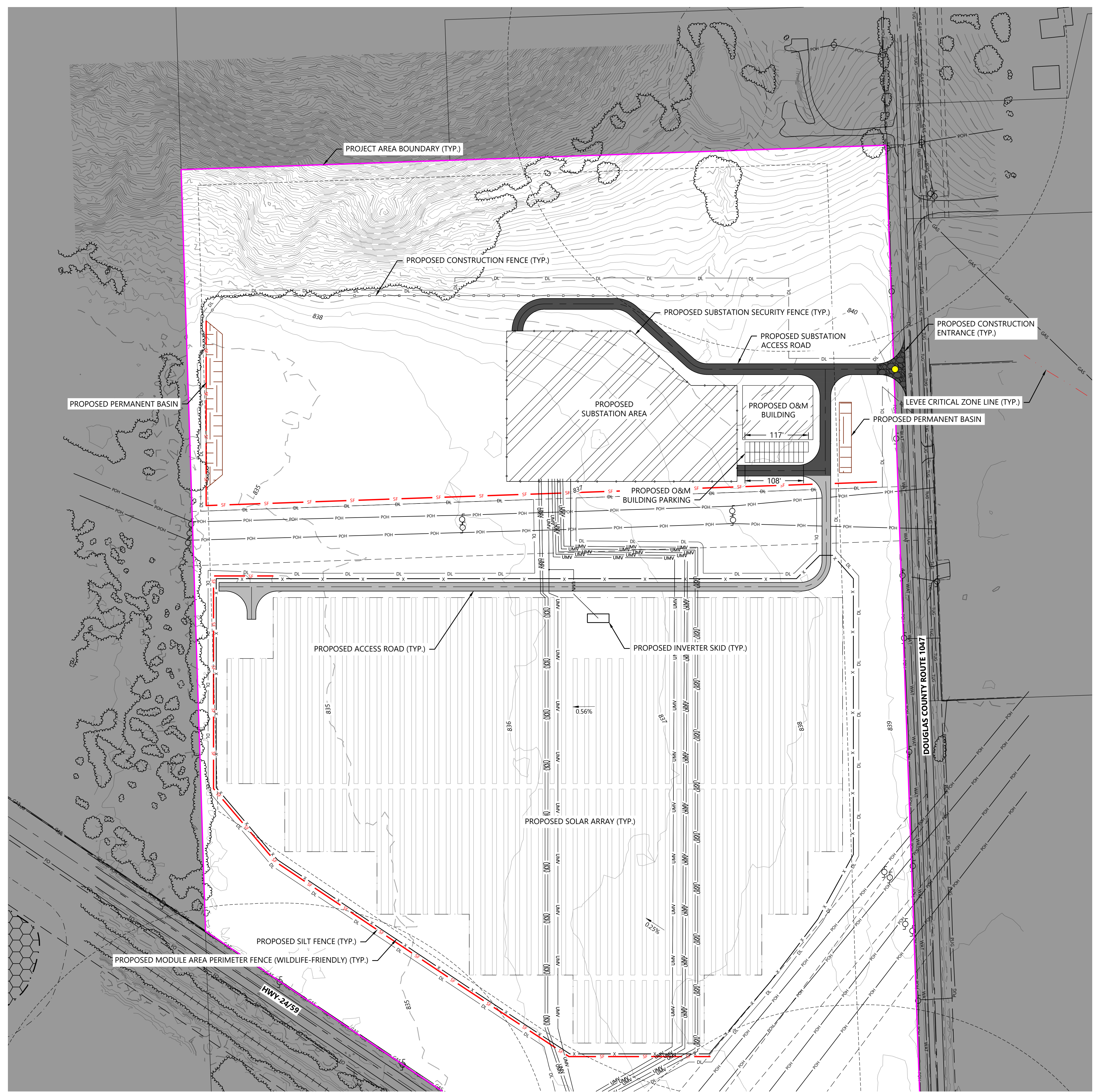
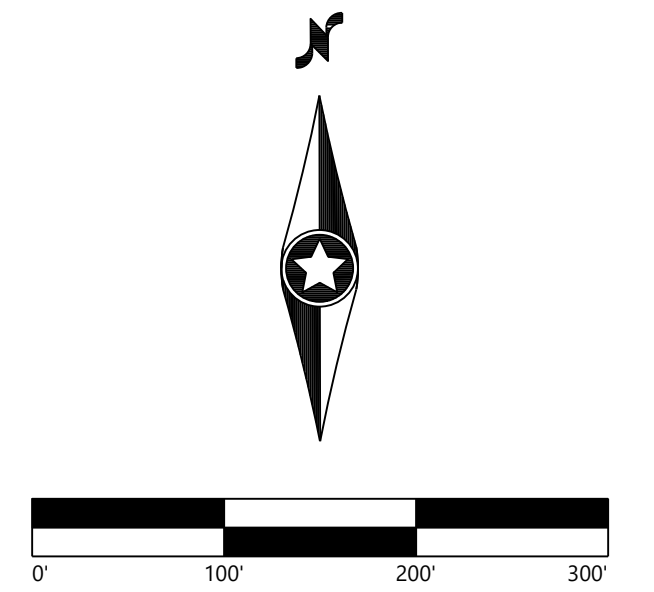
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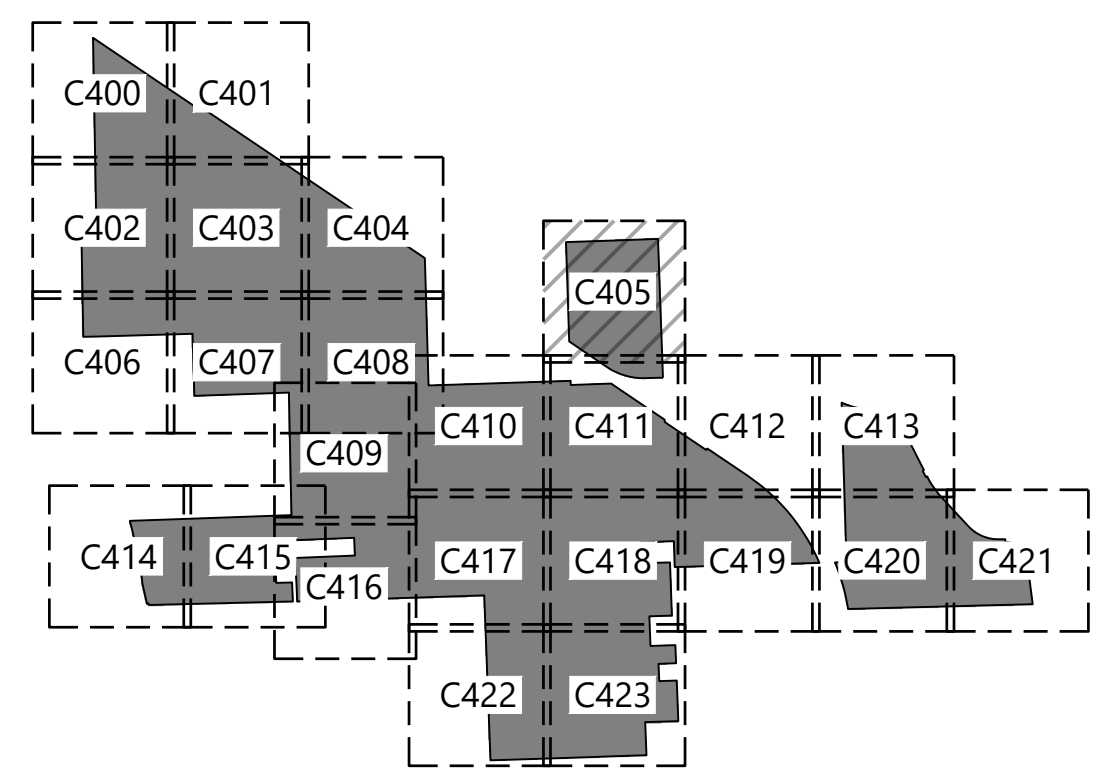
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**KEYMAP:**



**Kansas Sky Energy Center**

Douglas County, Kansas

**Erosion and Sediment Control Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C405

SEE SHEET C411

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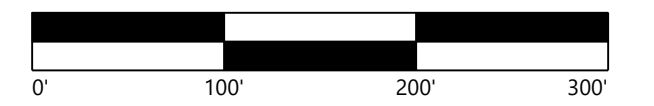
PREPARED FOR:

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## Kansas Sky Energy Center

Douglas County, Kansas

### Erosion and Sediment Control Plans

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DATE: 11/13/2023 REV: D  
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SEE SHEET C402



#### LEGEND:

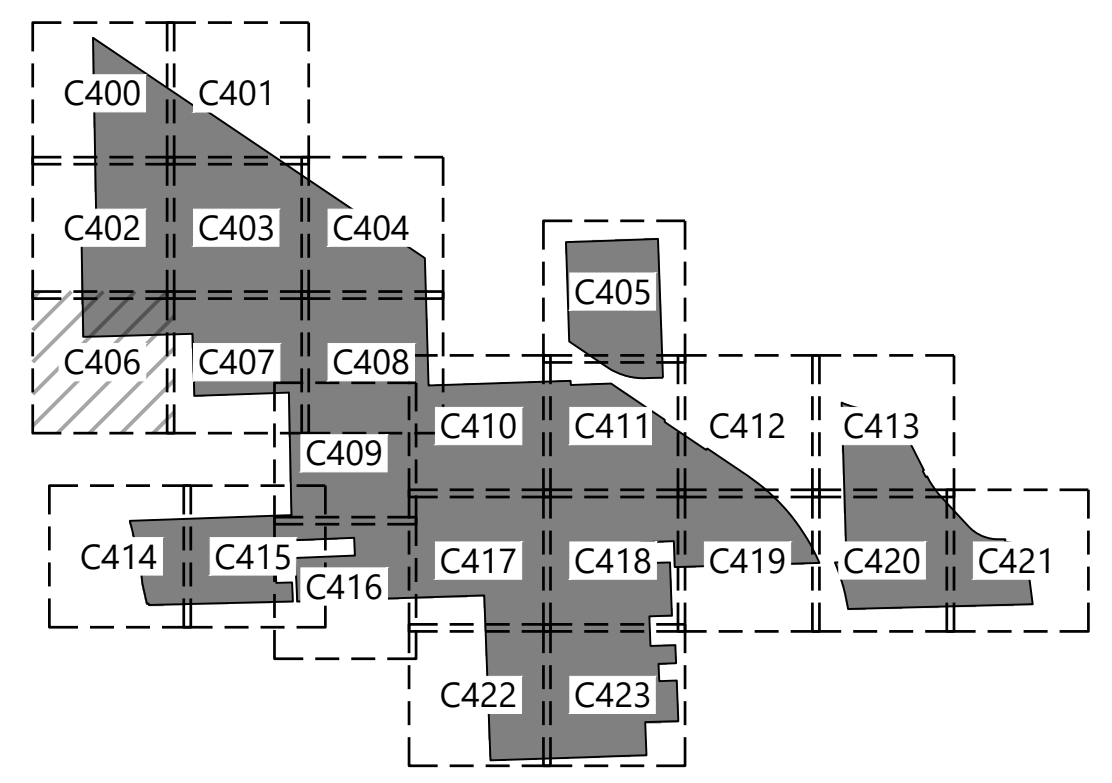
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SEE SHEET C407

#### KEYMAP:



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SEE SHEET C403

SEE SHEET C406

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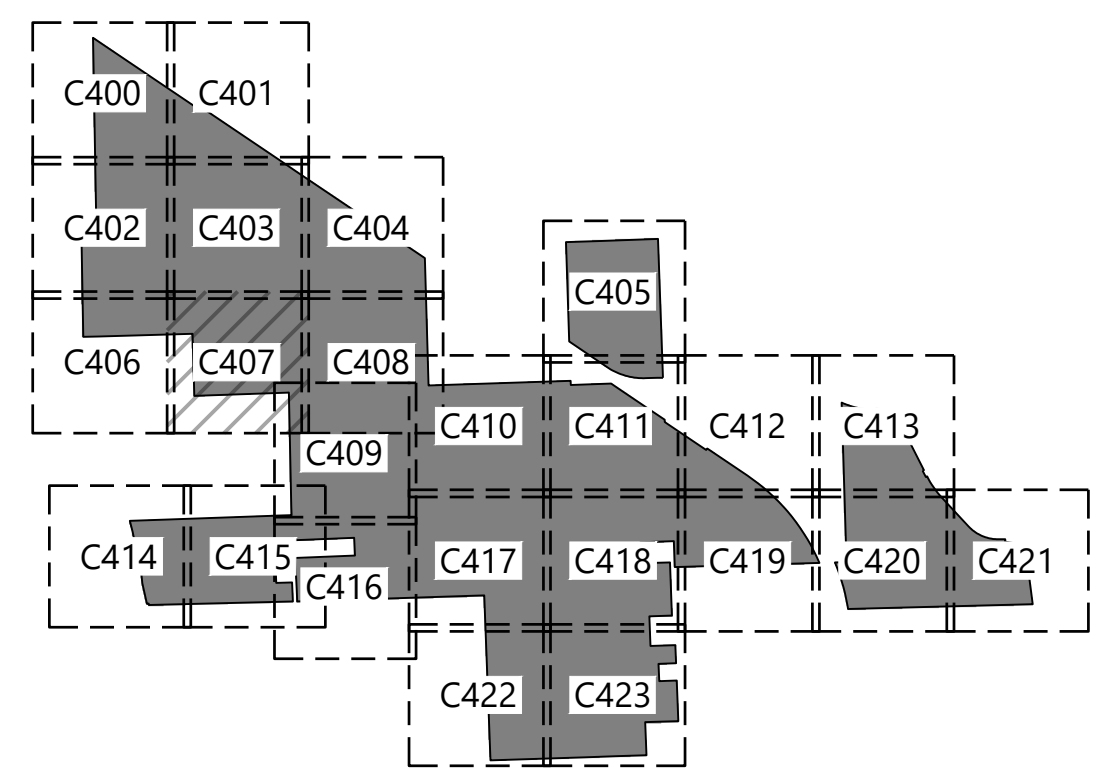
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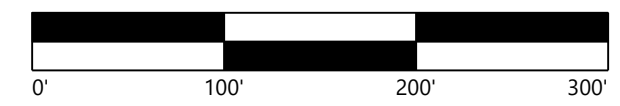
PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

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C	11/10/23	Permitting Site Plans	CRS	EFE	RIG
D	11/13/23	Permitting Site Plans	CRS	EFE	RIG



**Kansas Sky Energy Center**

Douglas County, Kansas

**Erosion and Sediment Control Plans**

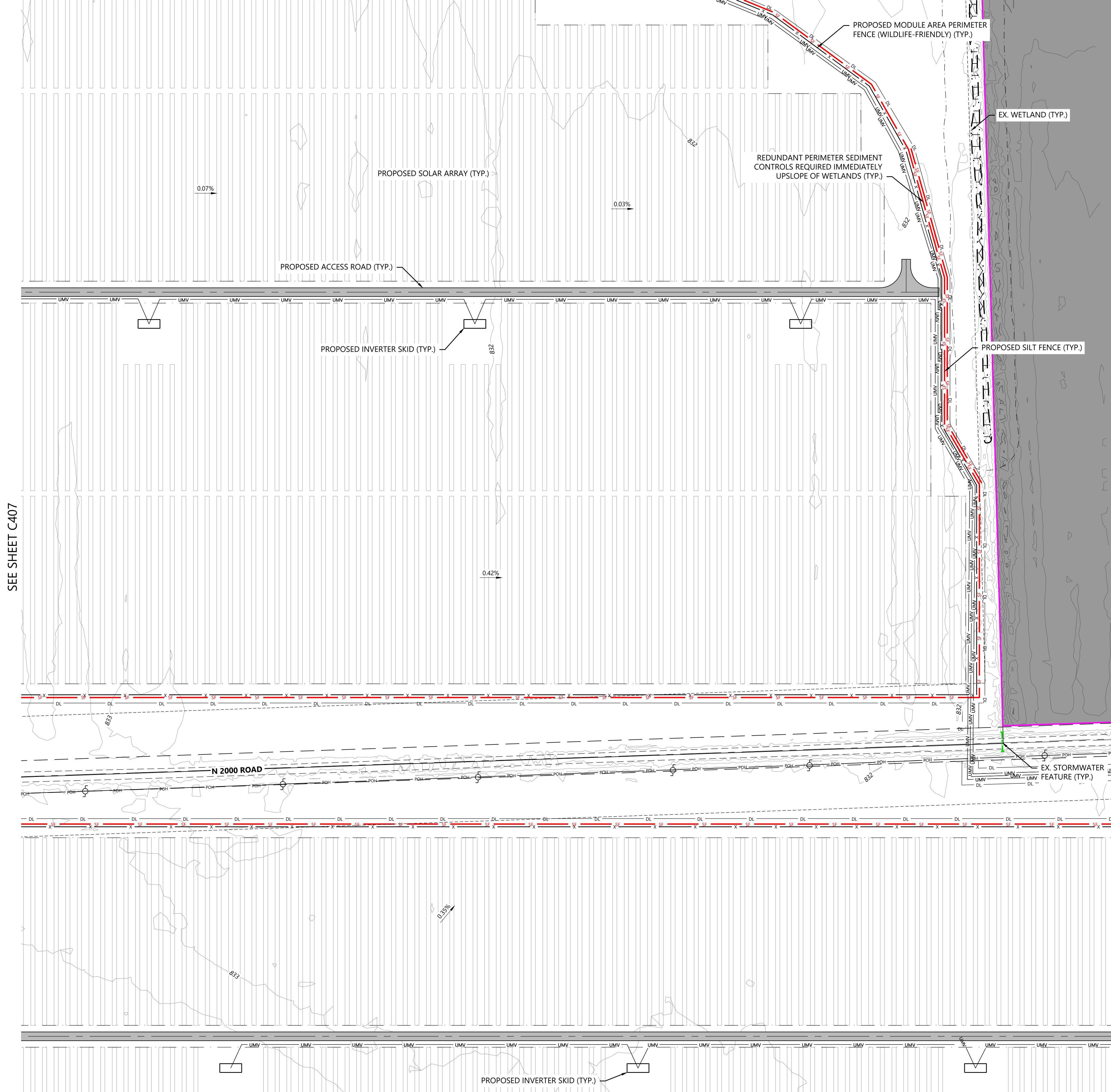
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DATE: 11/13/2023

SHEET: C407 D

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SEE SHEET C404



SEE SHEET C407

SEE SHEET C410

SEE SHEET C409

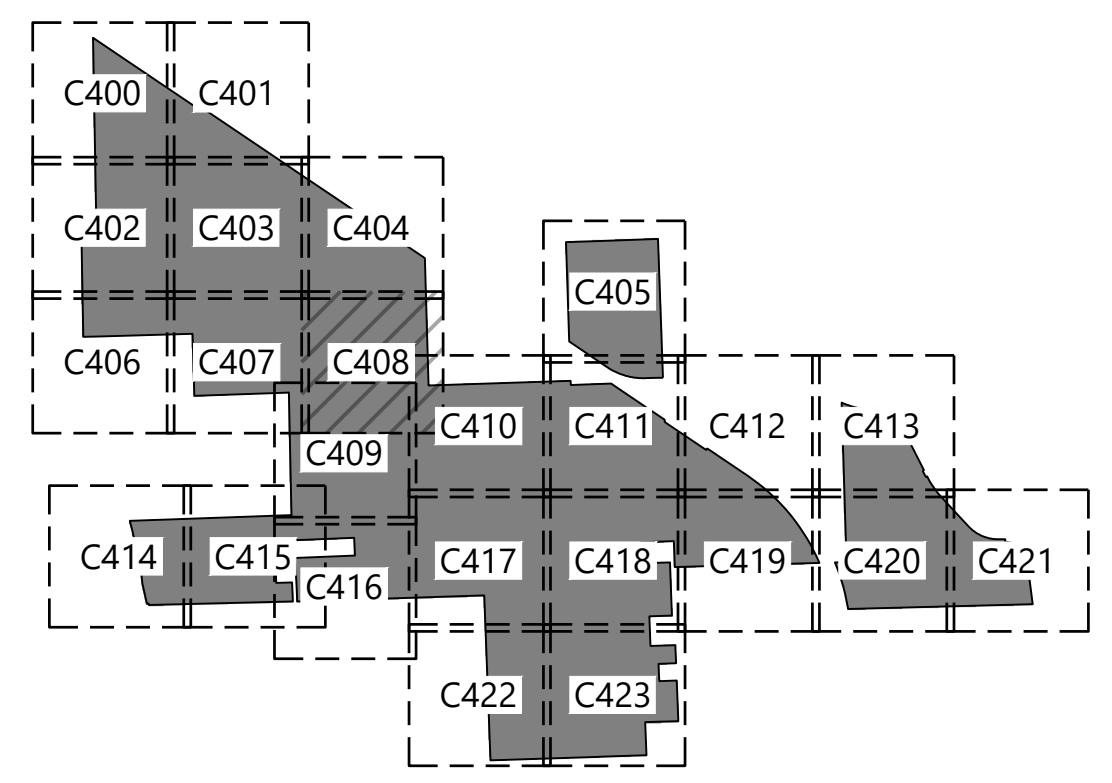
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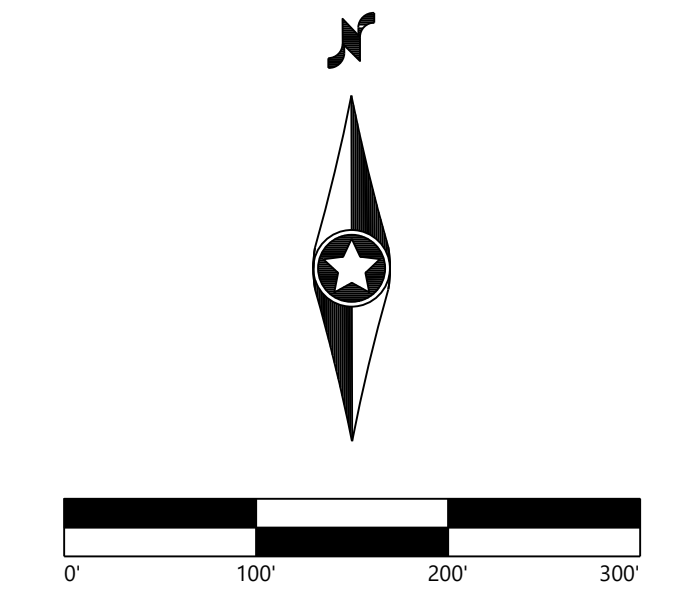
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**FREE STATE SOLAR PROJECT, LLC.**

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**Kansas Sky Energy Center**

Douglas County, Kansas

Erosion and Sediment Control Plans

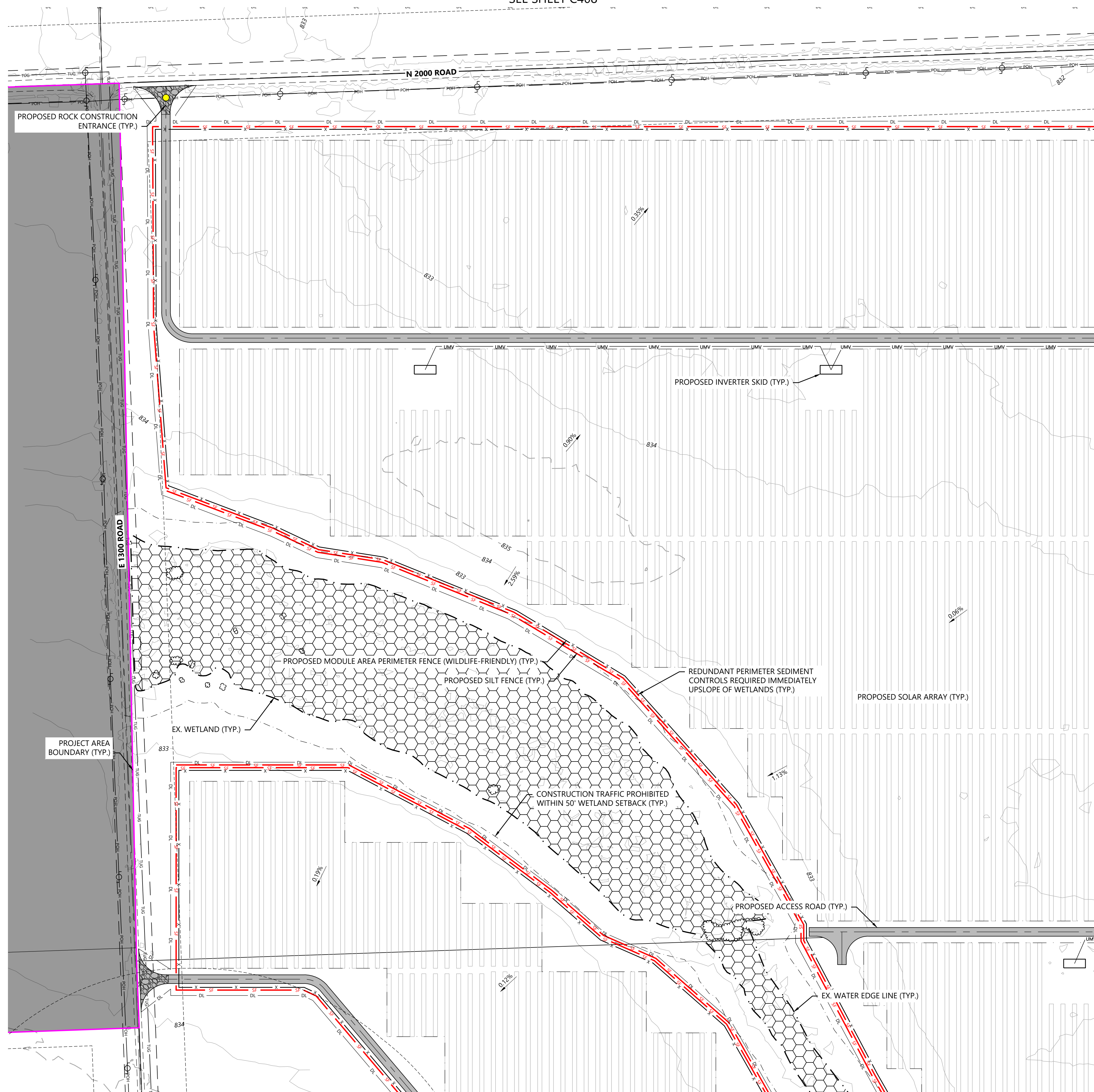
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DATE: 11/13/2023 REV:

SHEET: C408 D

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**LEGEND:**

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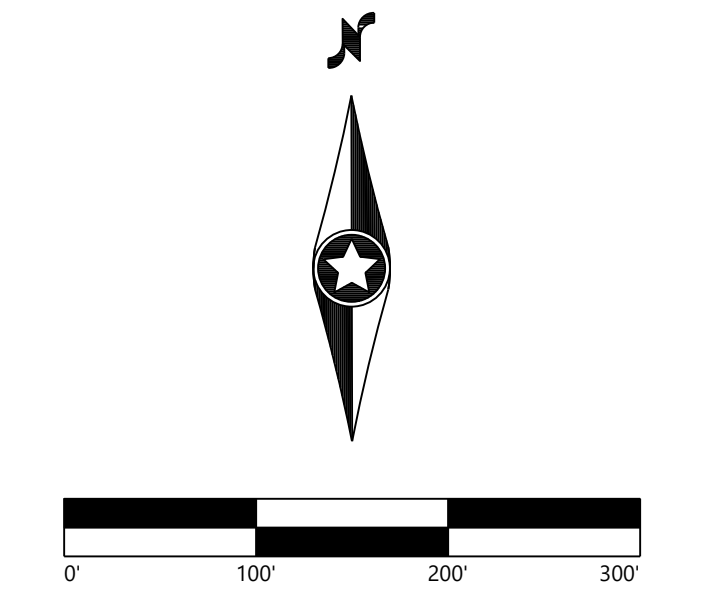
SEE SHEET C410

PREPARED FOR:  
**FREE STATE SOLAR PROJECT, LLC.**

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Kansas City, MO 64106

REVISIONS:

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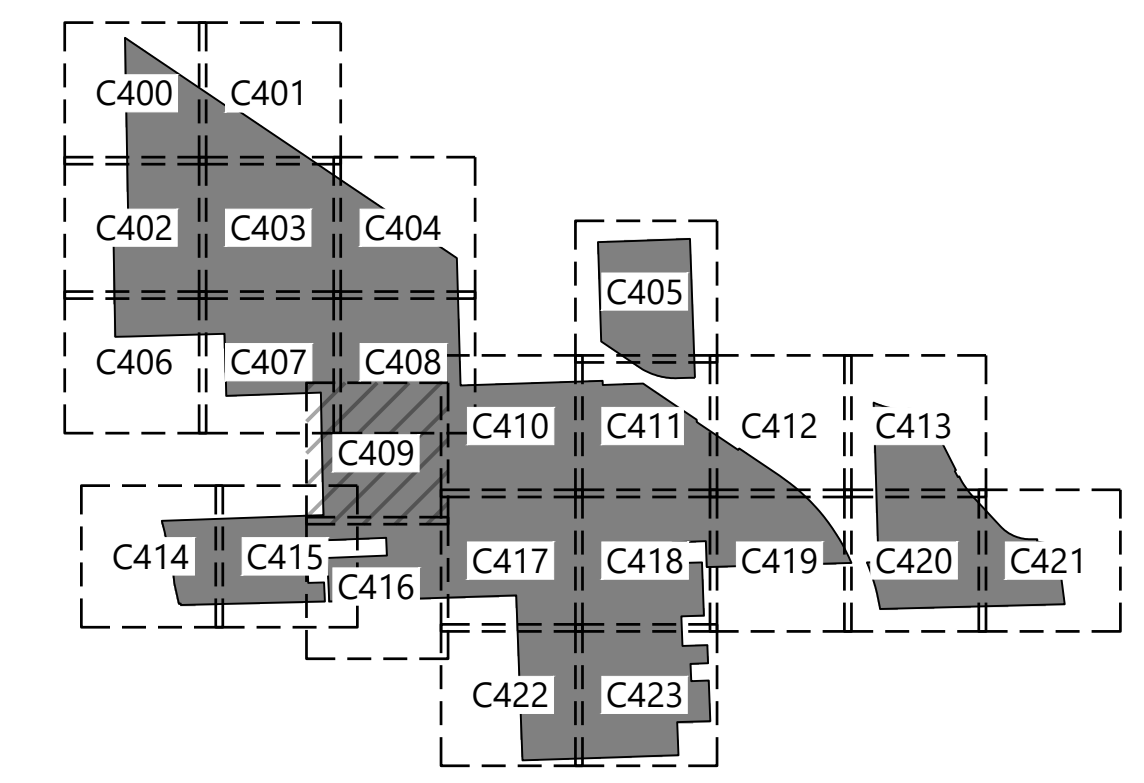
**Kansas Sky Energy Center**  
Douglas County, Kansas

Erosion and Sediment Control Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV:  
SHEET: C409 D

**KEYMAP:**



SEE SHEET C416

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PREPARED FOR:

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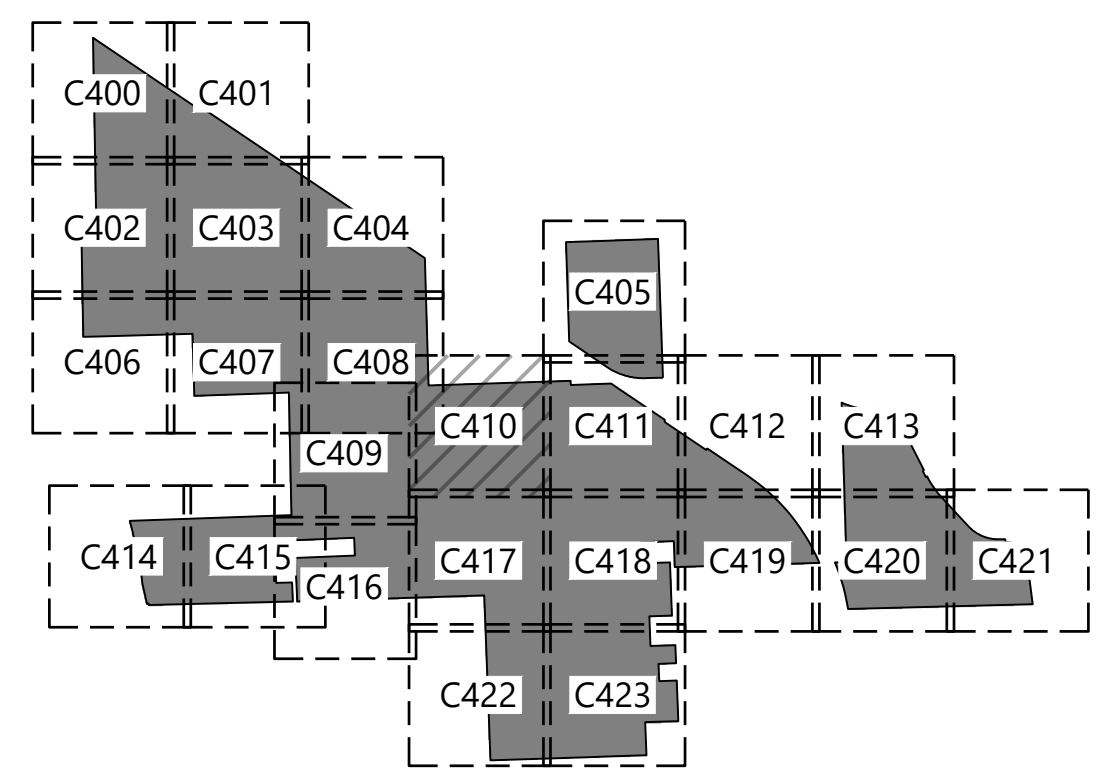
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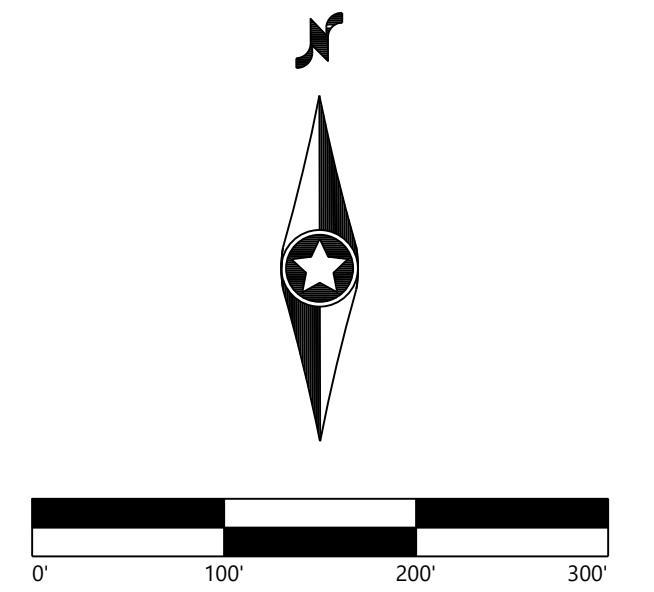
**KEYMAP:**



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SEE SHEET C411

SEE SHEET C417



**Kansas Sky Energy Center**

Douglas County, Kansas

**Erosion and Sediment Control Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C410

PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

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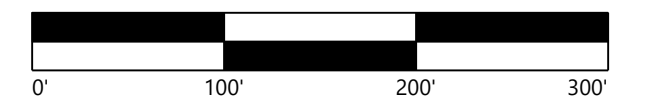
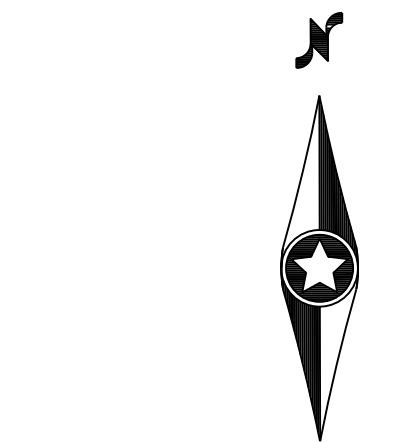


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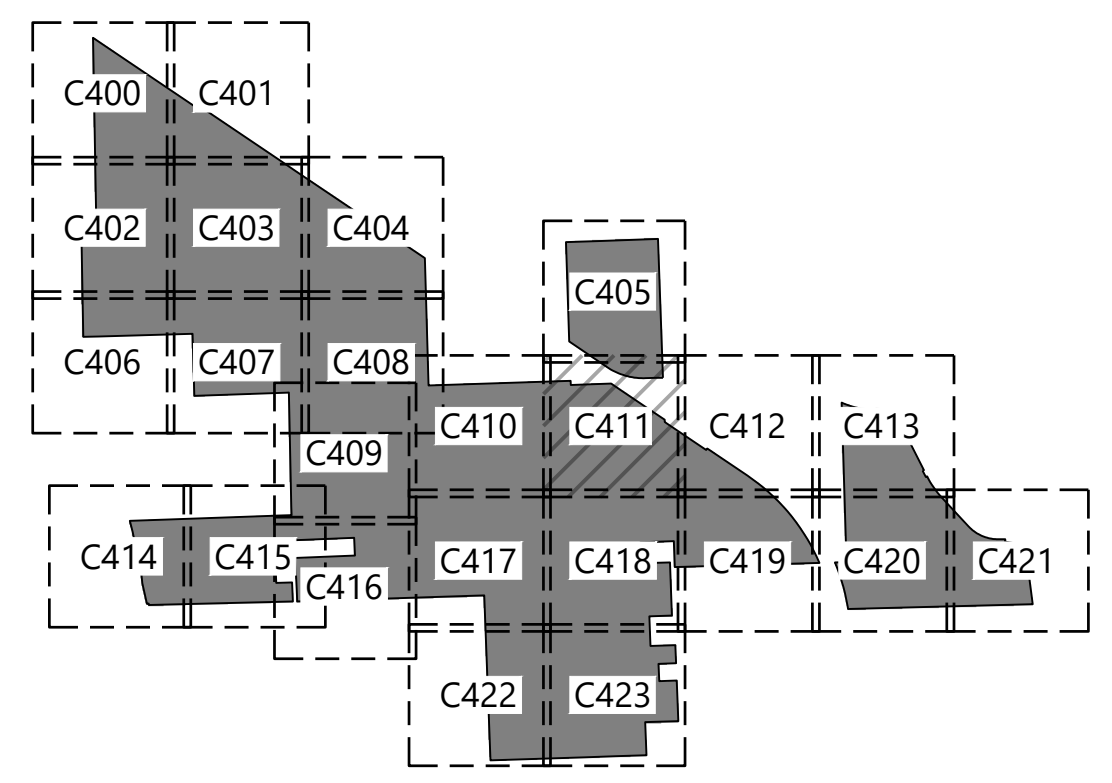
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**KEYMAP:**



**Kansas Sky Energy Center**

Douglas County, Kansas

**Erosion and Sediment Control Plans**

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DATE: 11/13/2023 REV:  
SHEET: C411 D

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PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
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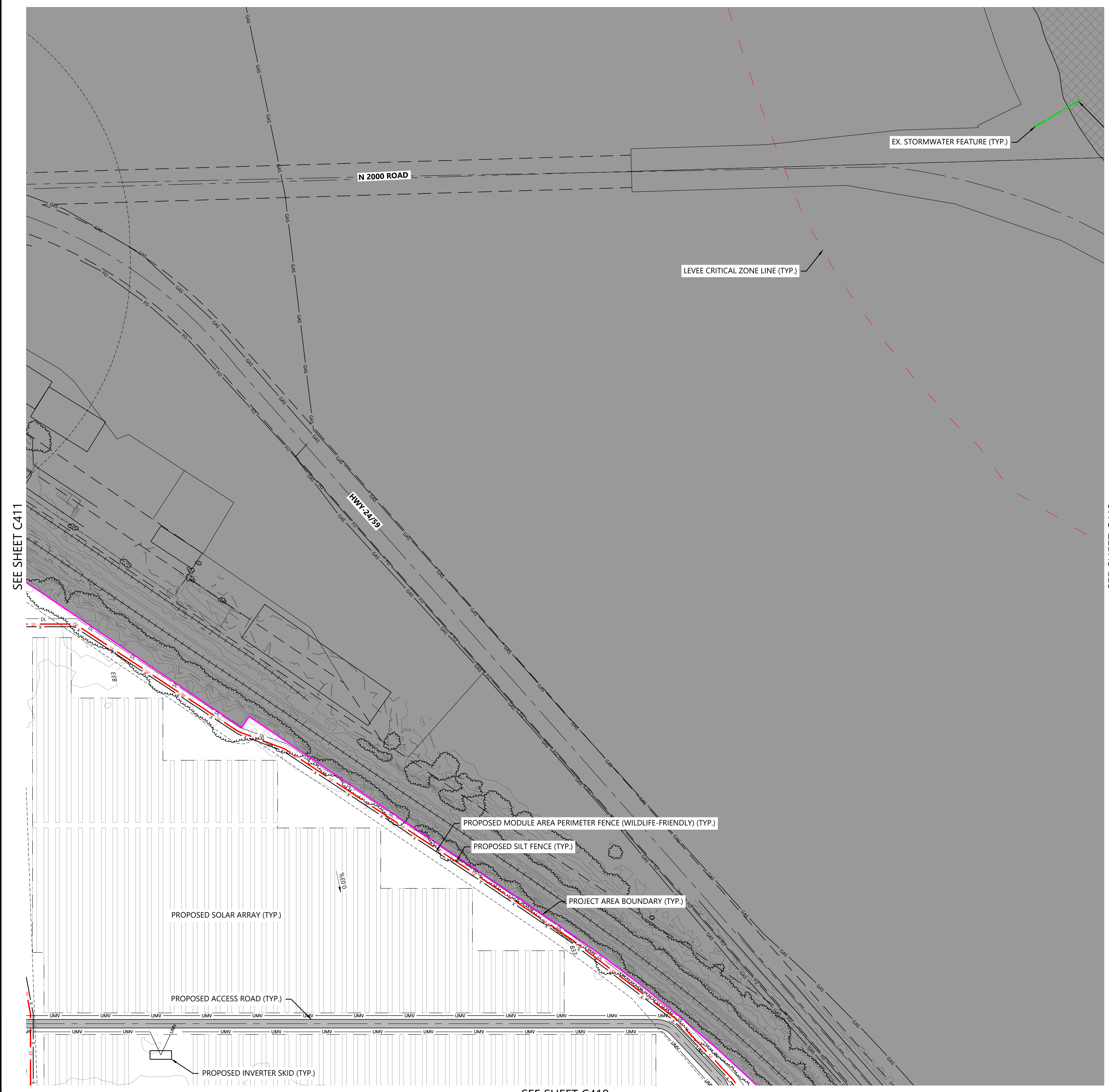
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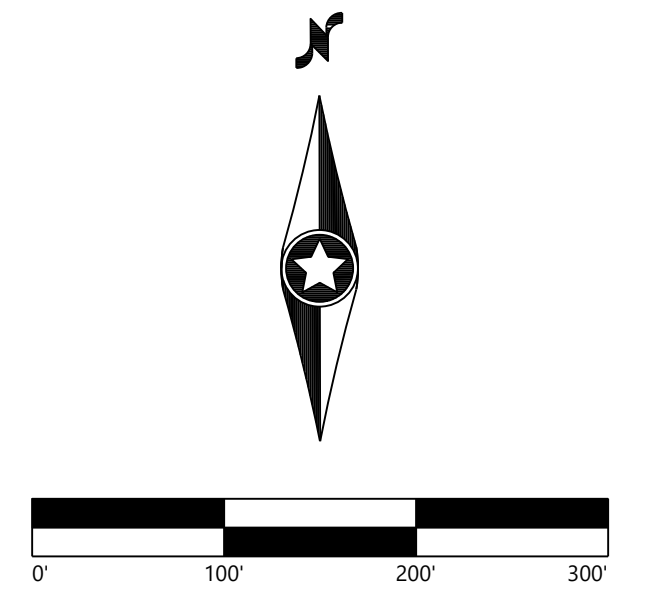
SEE SHEET C413

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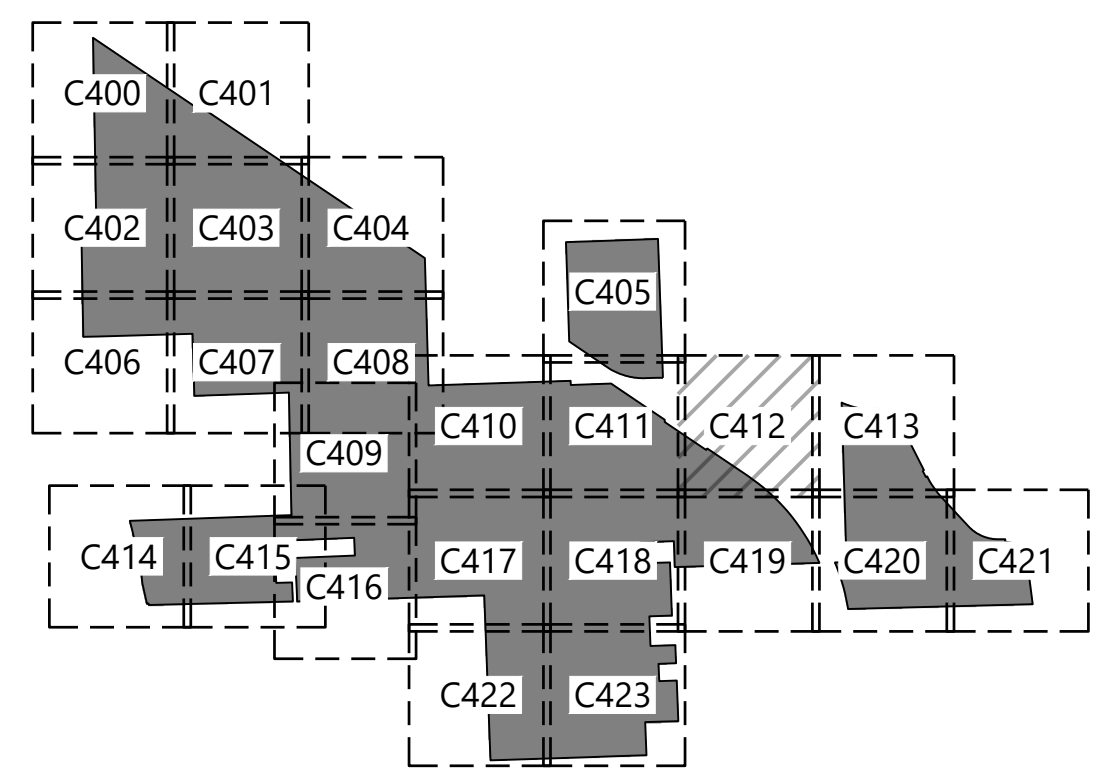


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**KEYMAP:**



**Kansas Sky Energy Center**

Douglas County, Kansas

**Erosion and Sediment Control Plans**

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DATE: 11/13/2023 REV: D  
SHEET: C412

PREPARED FOR:

## FREE STATE SOLAR PROJECT, LLC.

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Kansas City, MO 64106

REVISIONS:

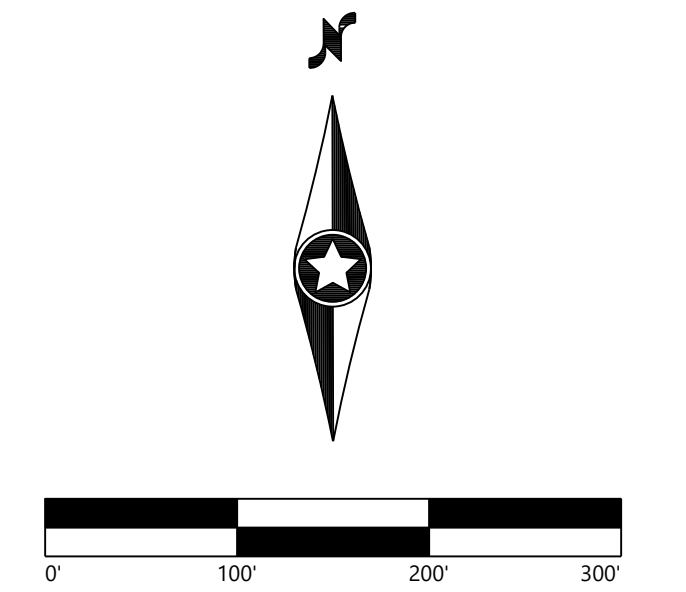
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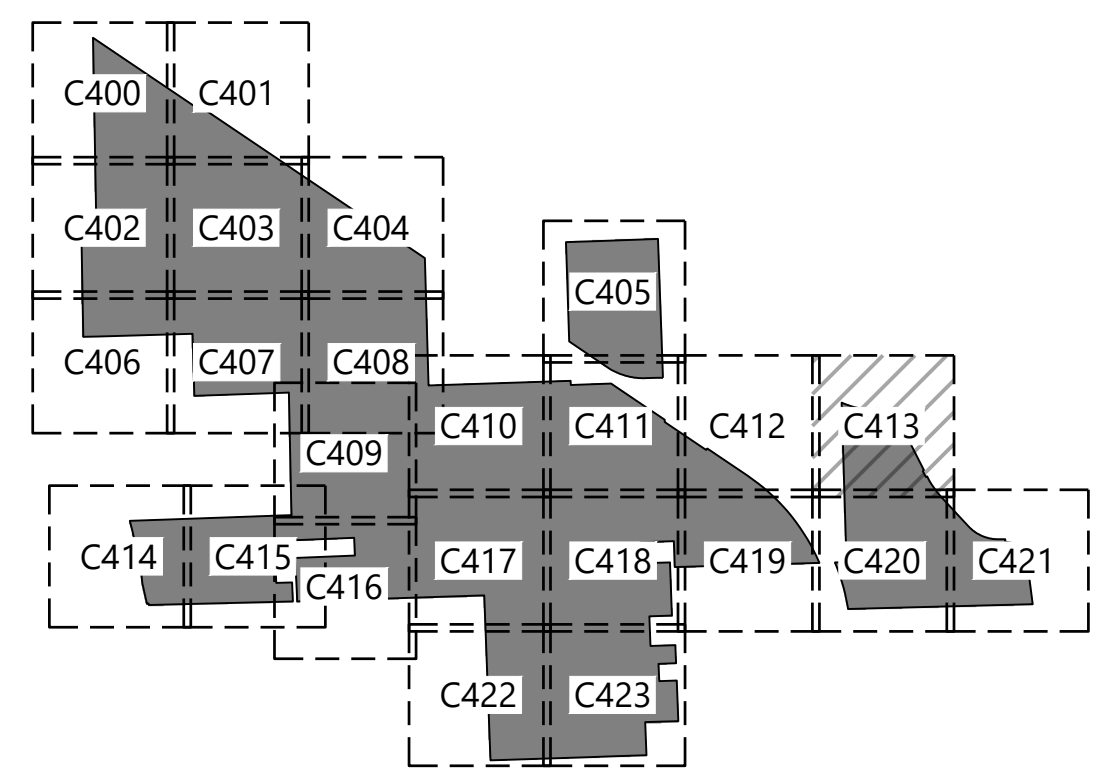
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- RIGHT-OF-WAY LINES
- EASEMENT LINES
- SETBACK LINES
- EX. INDEX CONTOUR
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- EX. TREELINE
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11. MV ROUTING SHOWN FOR REFERENCE ONLY.



### KEYMAP:



## Kansas Sky Energy Center

Douglas County, Kansas

### Erosion and Sediment Control Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C413

SEE SHEET C412

SEE SHEET C420

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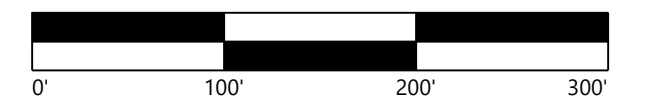
PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

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Douglas County, Kansas

**Erosion and Sediment Control Plans**

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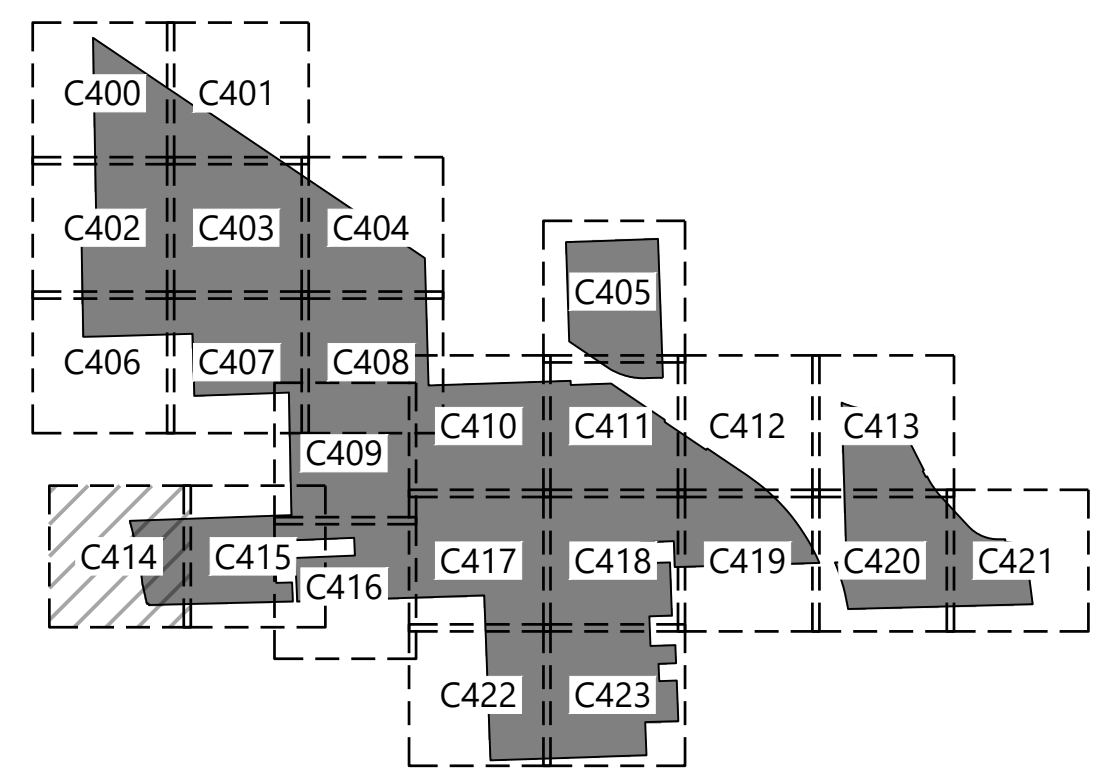
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PREPARED FOR:

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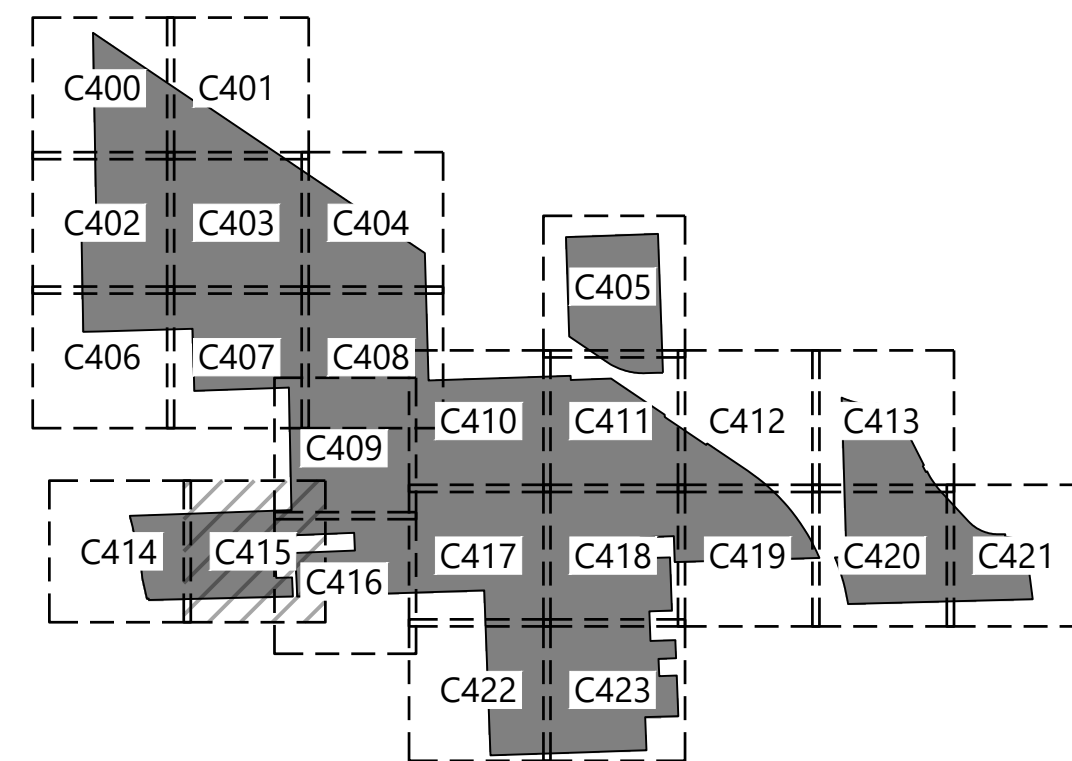
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## Kansas Sky Energy Center

Douglas County, Kansas

Erosion and Sediment Control Plans

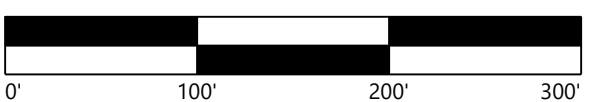
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DATE: 11/13/2023

SHEET: C415 D

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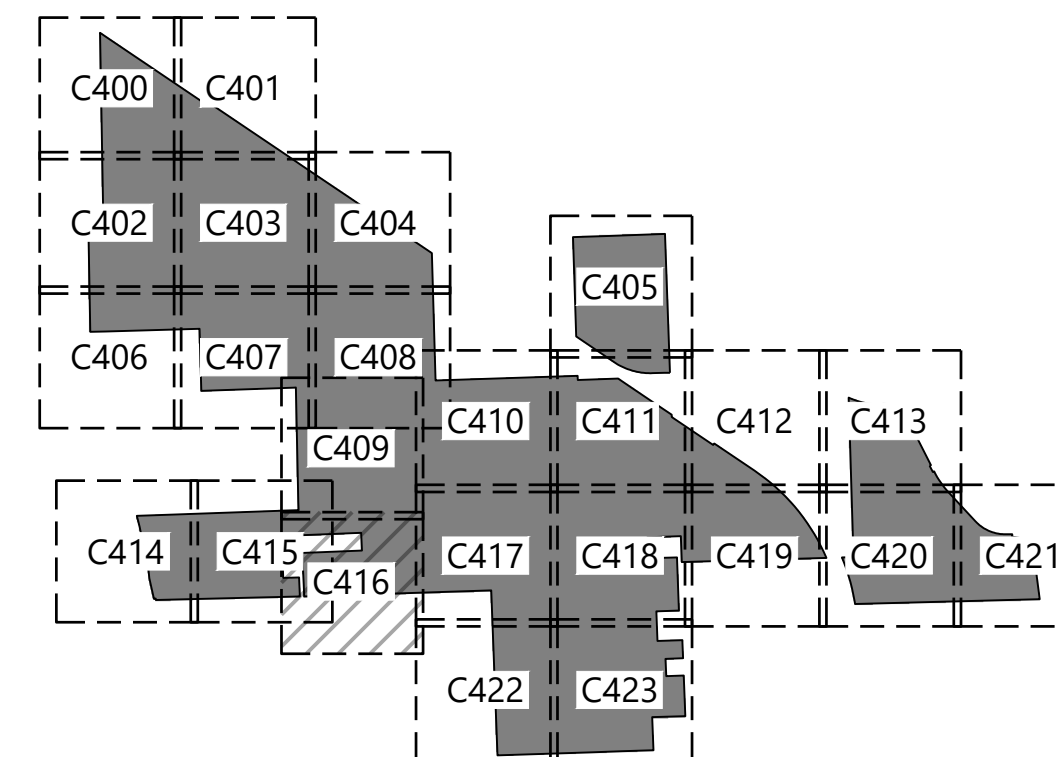
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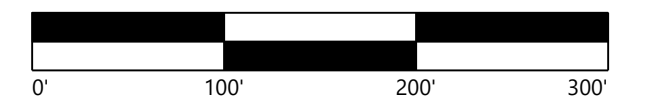
PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

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**REVISIONS:**

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**Kansas Sky Energy Center**

Douglas County, Kansas

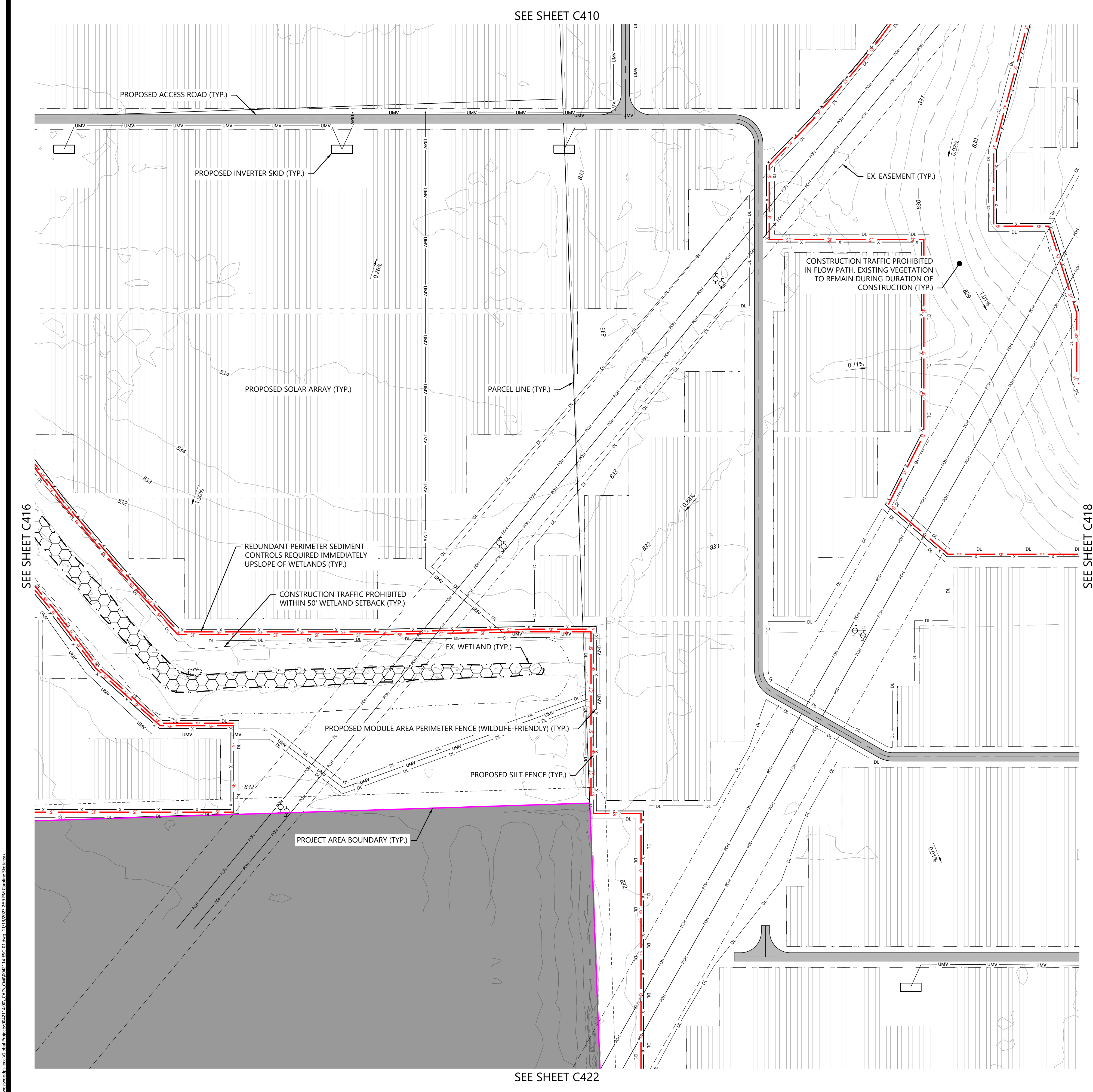
**Erosion and Sediment Control Plans**

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SHEET: C416 D

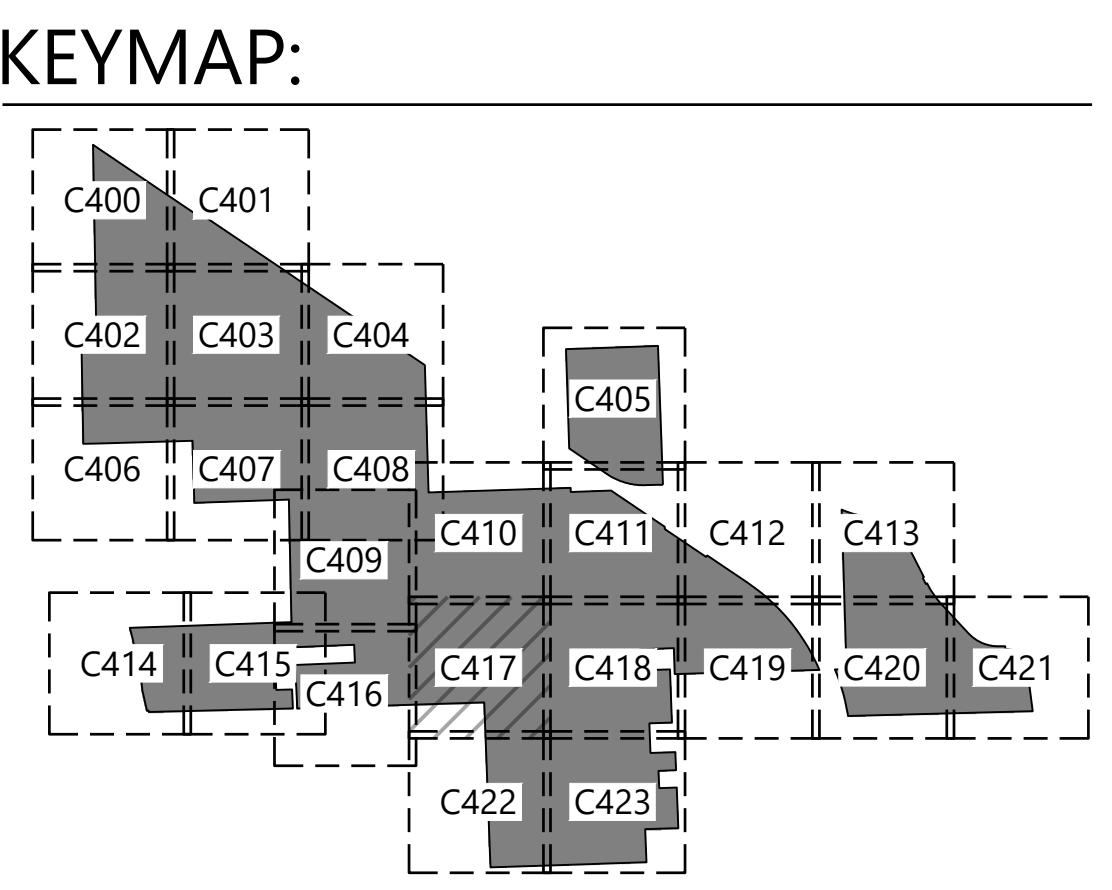
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**LEGEND:**

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+-+ +-+ +-+	EX. RAIL LINE
x x x x x	EX. FENCE
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P0H	EX. OVERHEAD POWER
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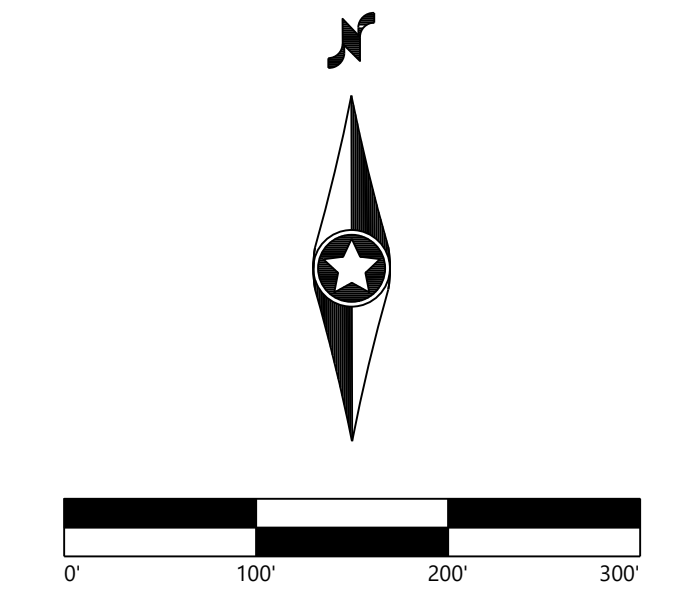
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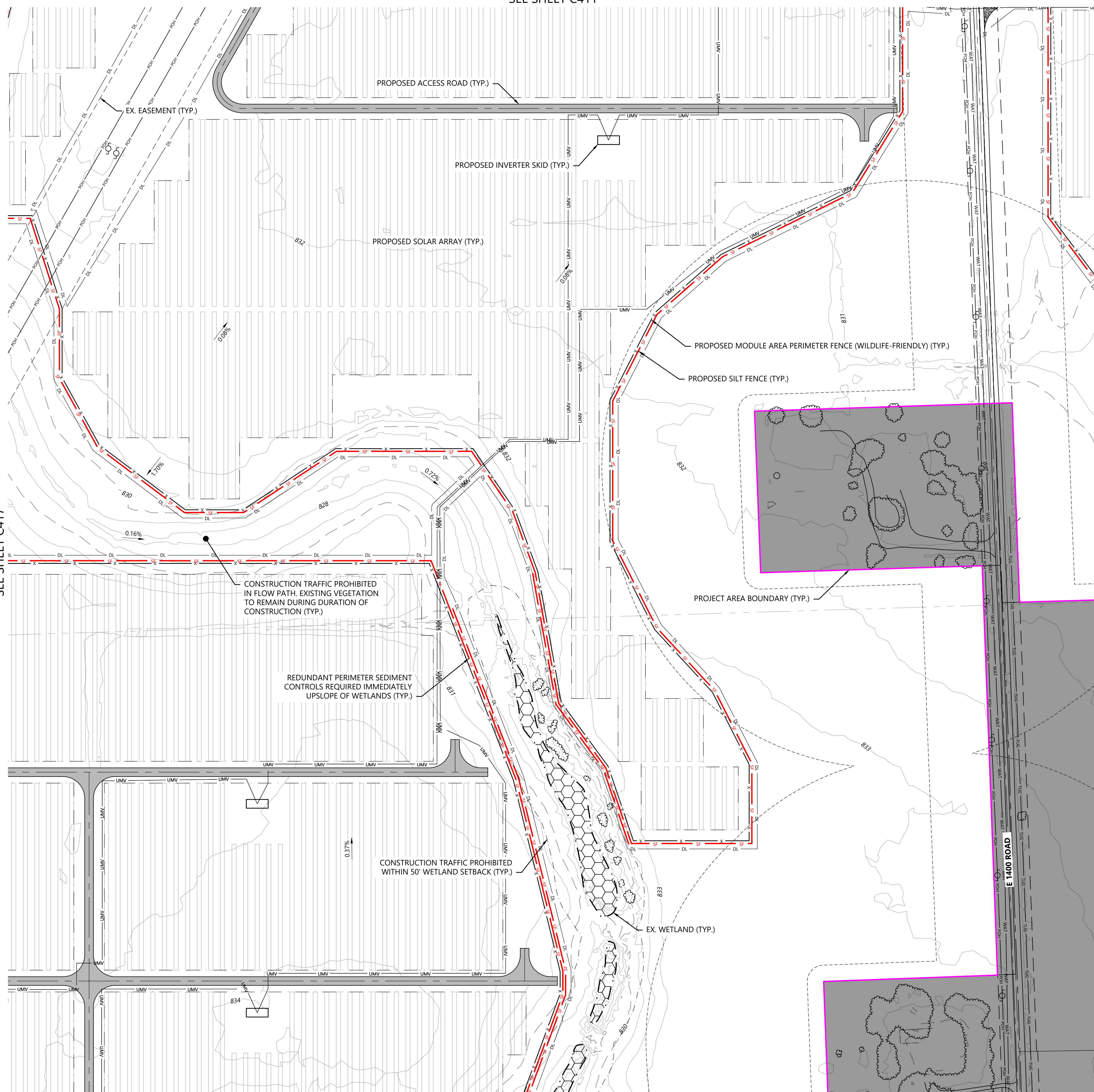
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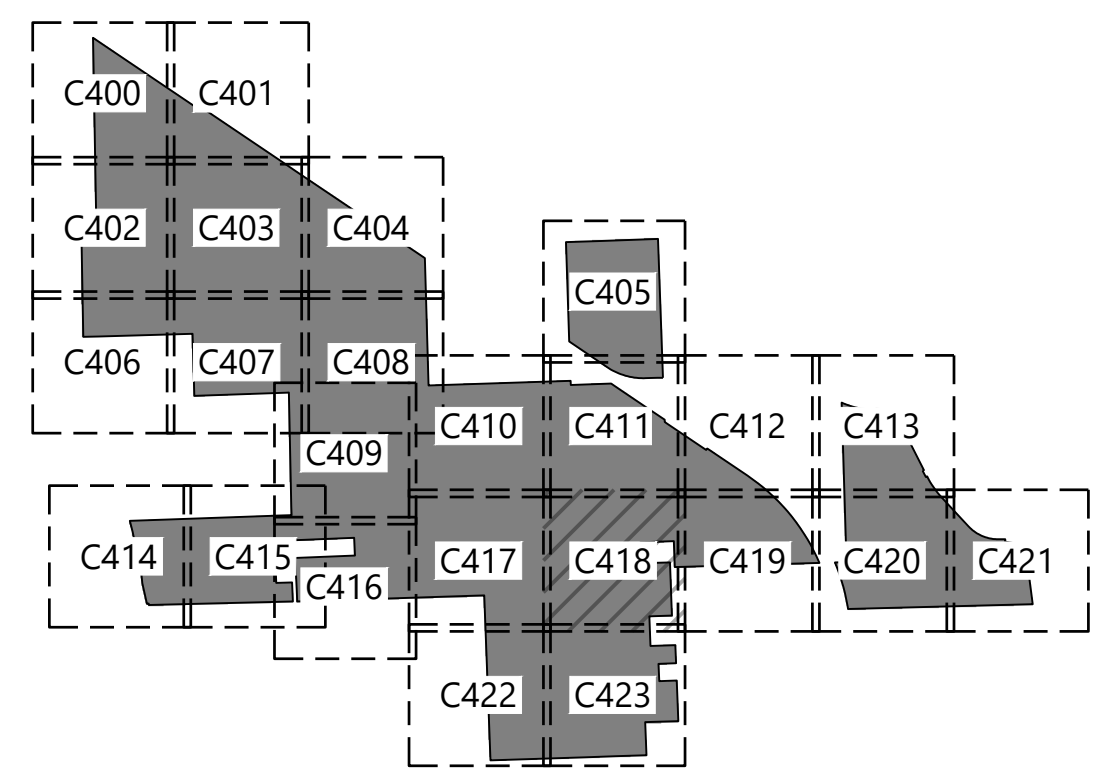
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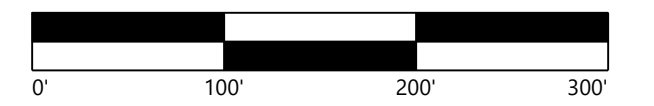
PREPARED FOR:

**FREE STATE SOLAR PROJECT, LLC.**

422 Admiral Blvd,  
Kansas City, MO 64106

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	08/14/23	Permitting Site Plans	SJM	EFE	RIG
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**Kansas Sky Energy Center**

Douglas County, Kansas

Erosion and Sediment Control Plans

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV:

SHEET: C418 D

\\westwoodps\local\global\projects\042114\001\_CAD\_Civil\042114\_001.dwg 11/13/2023 2:59 PM Casandra Storzak

SEE SHEET C412



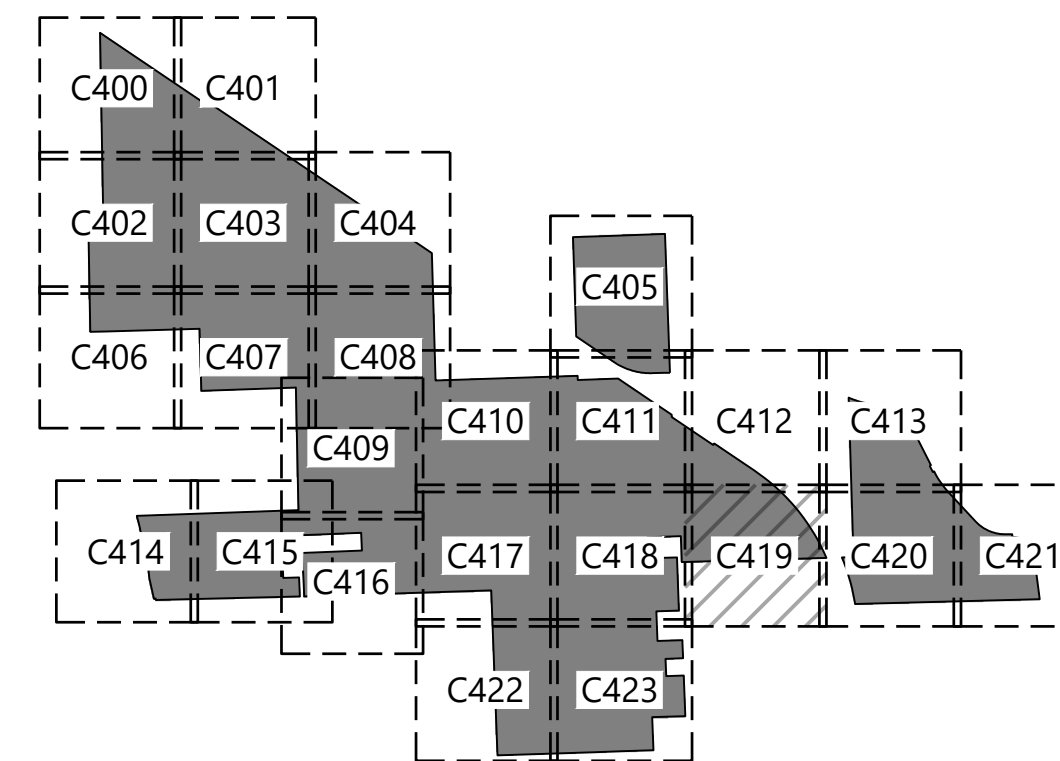
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11. MV ROUTING SHOWN FOR REFERENCE ONLY.

**KEYMAP:**



**Westwood**

Phone (608) 821-6600 8401 Greenway Blvd., Suite 400  
Middleton, WI 53562  
westwoodps.com

Westwood Professional Services, Inc.

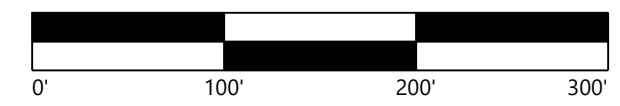
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**Kansas Sky Energy Center**

Douglas County, Kansas

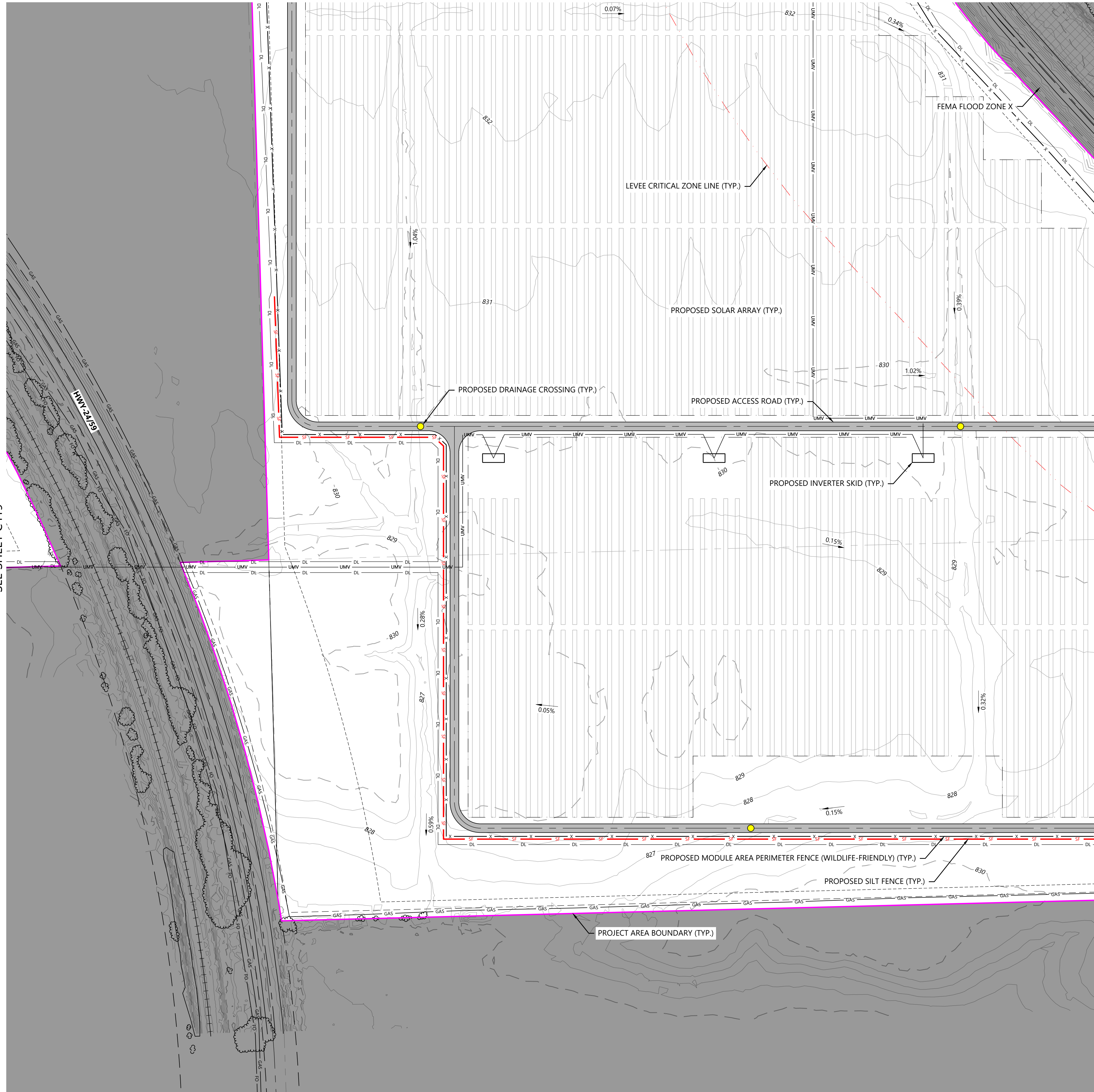
**Erosion and Sediment Control Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023

SHEET: C419 D

SEE SHEET C413



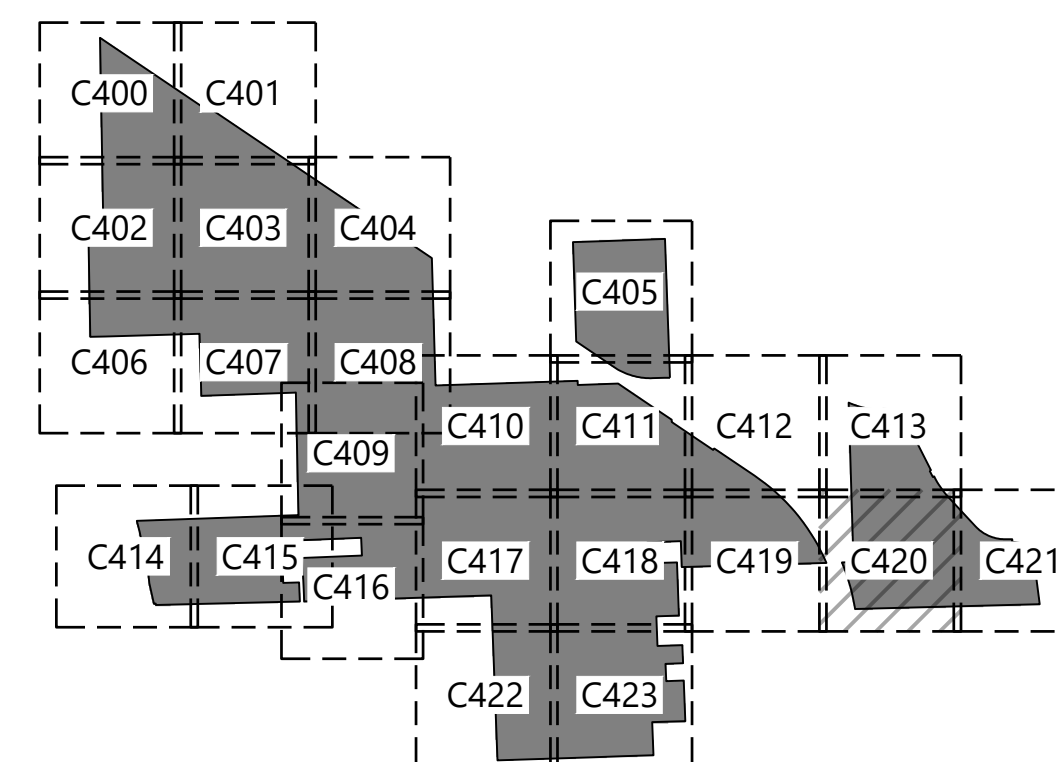
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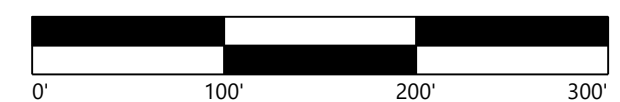
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**Kansas Sky  
Energy Center**

Douglas County, Kansas

**Erosion and Sediment  
Control Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023

SHEET: C420 D

PREPARED FOR:

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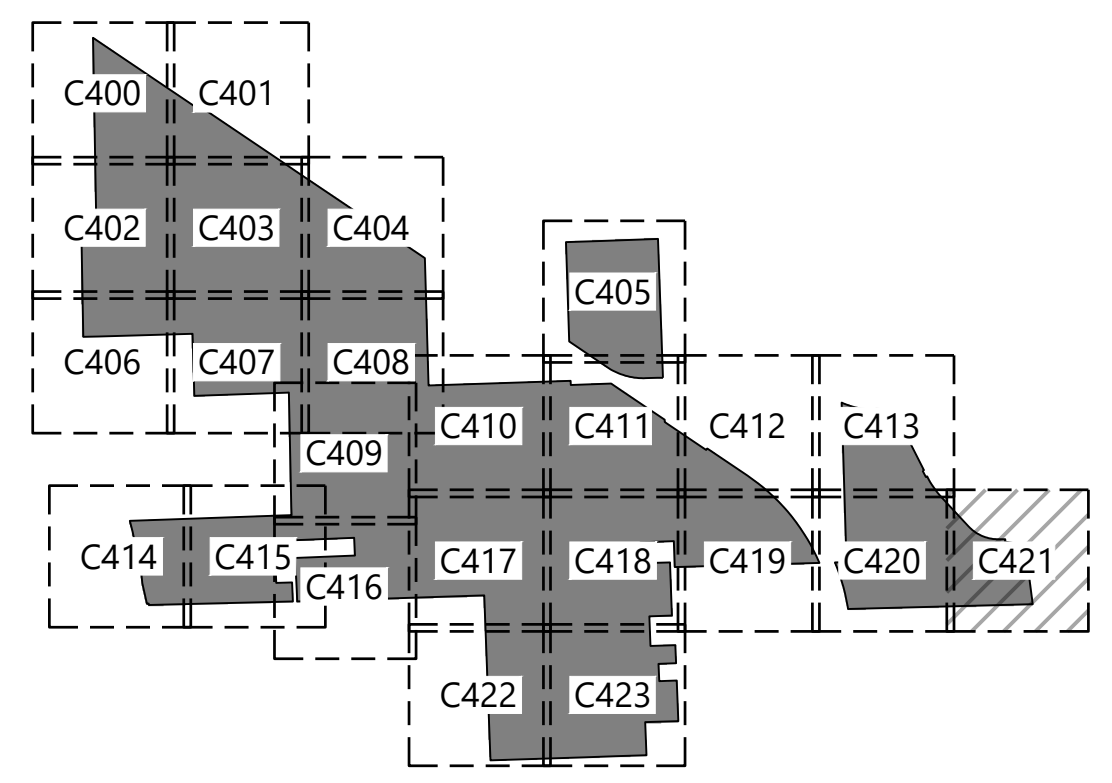
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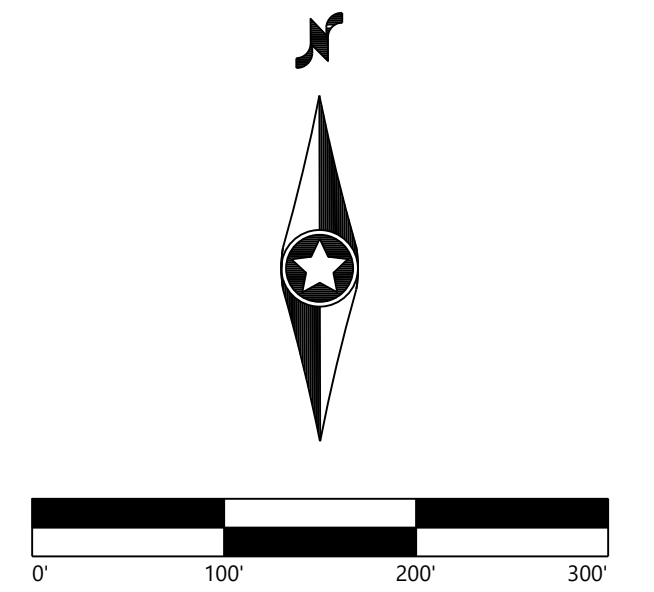
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**Kansas Sky Energy Center**

Douglas County, Kansas

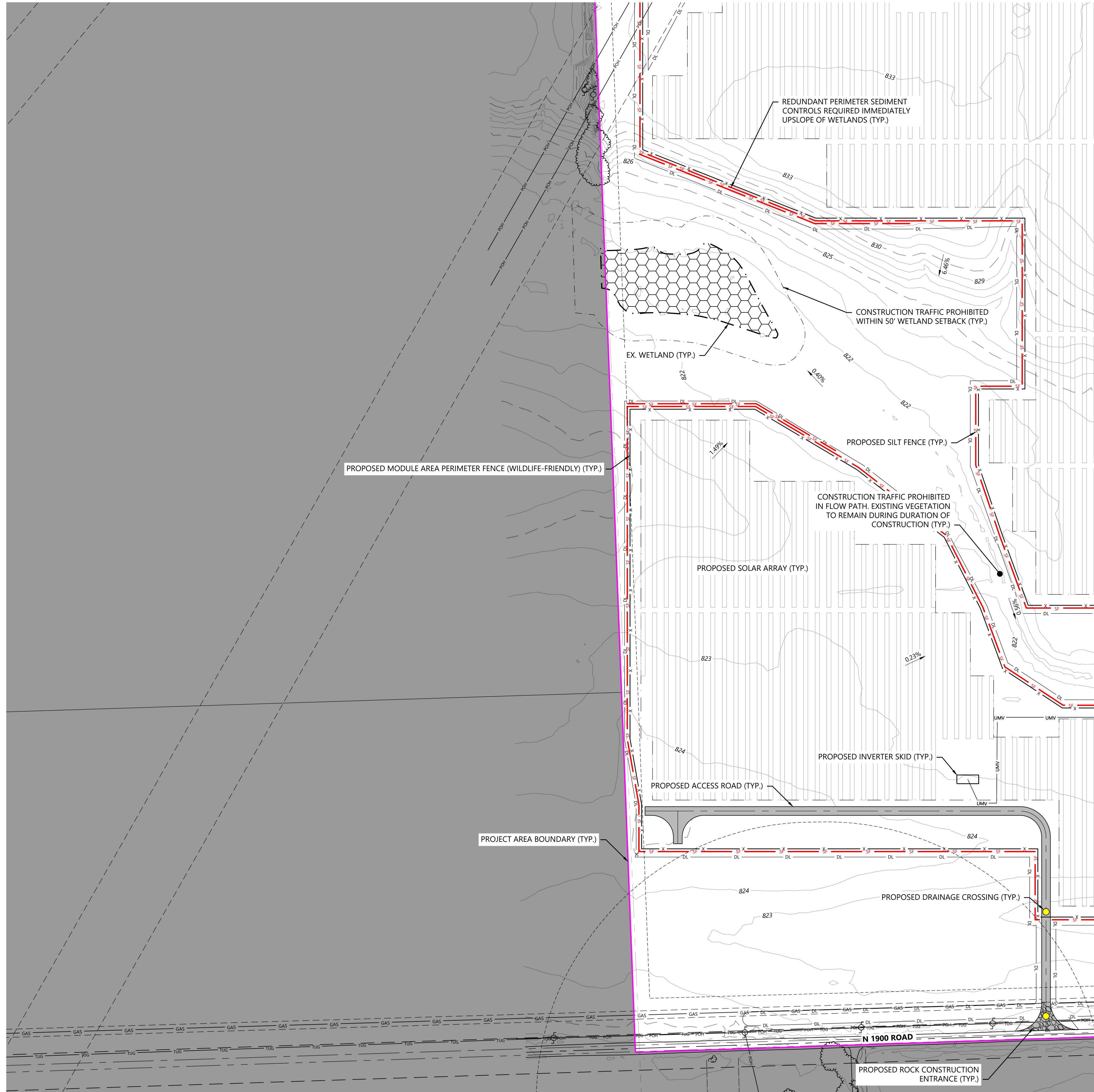
**Erosion and Sediment Control Plans**

FOR CONDITIONAL USE PERMIT

DATE: 11/13/2023 REV: D  
SHEET: C421



SEE SHEET C417



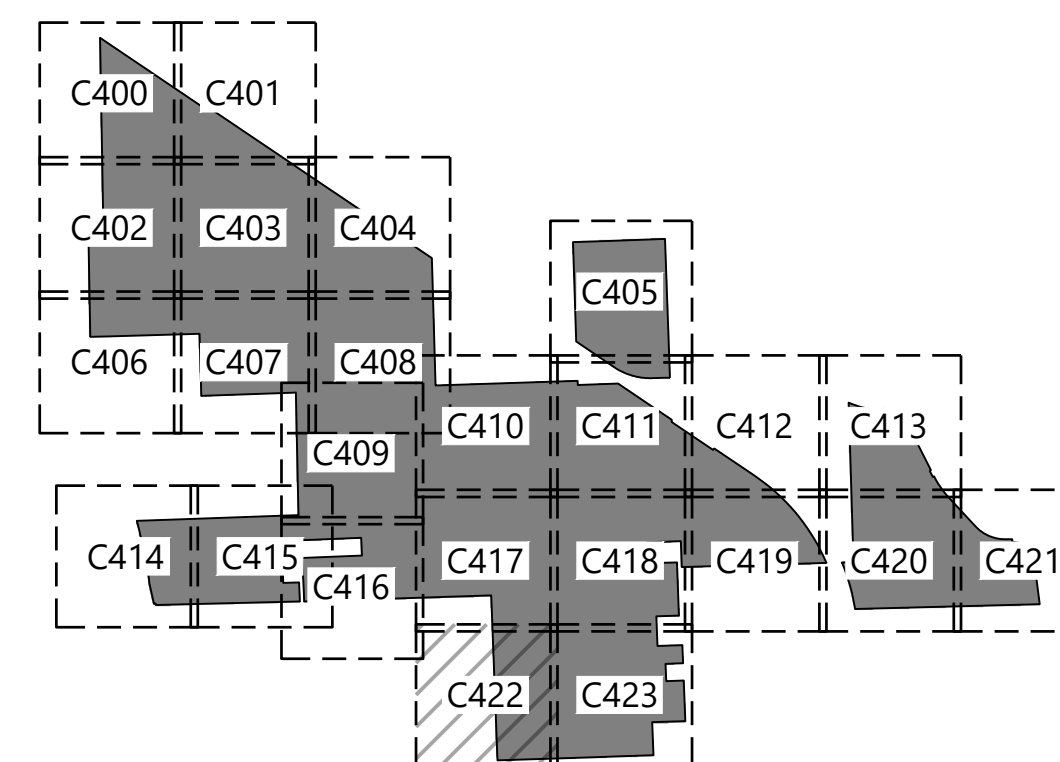
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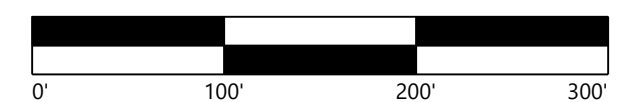
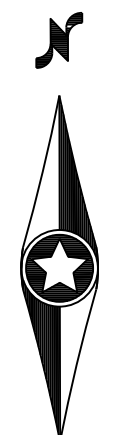
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Douglas County, Kansas

Erosion and Sediment Control Plans

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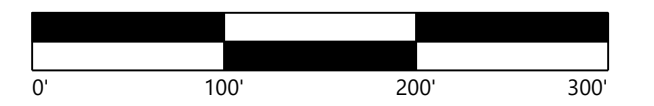
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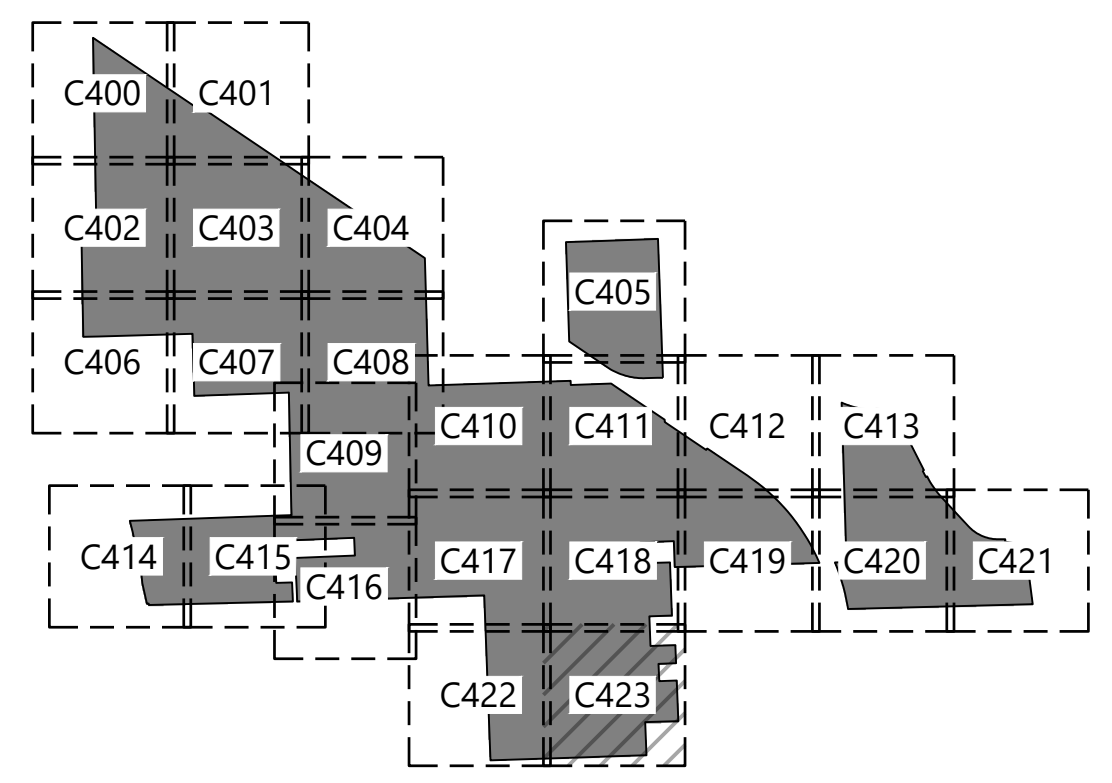
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