

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: z006, Job: Sheet Set: KHA - Layout: C6.9 - July 07, 2022 09:54:11pm. K:\LAV\_Civil\192017028-Big Plain Solar\_CAD\_PlanSheets\C02-Big Plain.dwg. This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

MATCHLINE - SEE SHEET C6.5



LEGEND

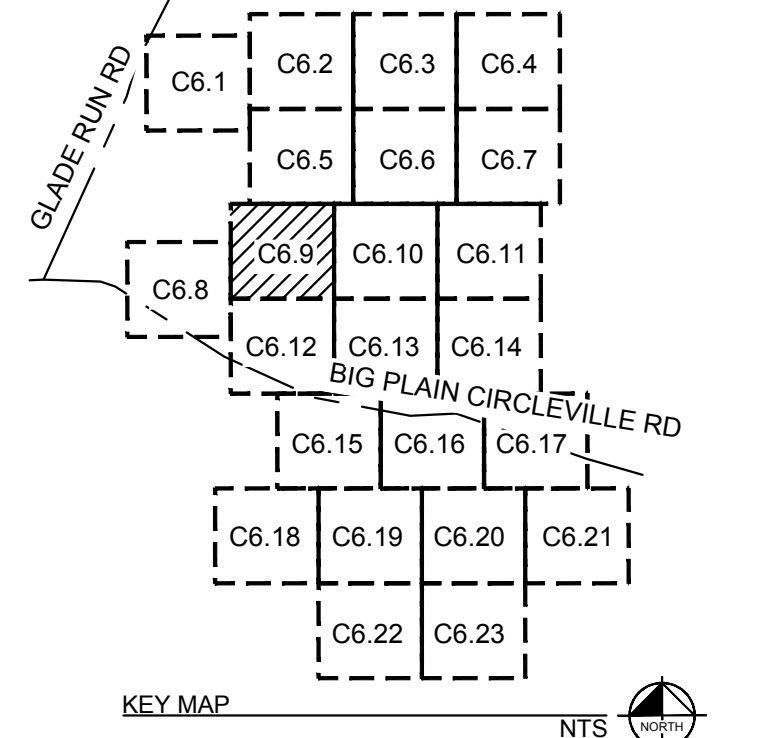
	SURVEY LINE
	RIGHT OF WAY LINE
	PROPERTY LINE
	LEASE LINE
	TOWNSHIP LINE
	SETBACK
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EASEMENT LINE
	CONSERVATION EASEMENT
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING FENCE
	EXISTING DRAIN TILE MAIN
	EXISTING GROUNDWATER WELL
	PROPOSED SECURITY FENCE
	PROPOSED AGGREGATE ACCESS ROAD
	PROPOSED MATERIAL LAYDOWN AREA
	PROPOSED ARRAY BLOCK OUTLINE
	DAYLIGHT LINE
	FEMA ZONE A
	NESTING AREA
	ARCHAEOLOGICAL RESOURCE AREA
	EXISTING WETLAND
	WETLAND BUFFER
	APPROXIMATE CIVIL LIMIT OF WORK

CONSTRUCTION NOTES:

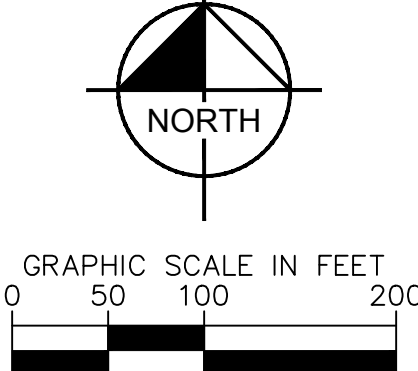
- 1 AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
- 2 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
- 3 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
- 4 INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
- 5 SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
- 6 AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
- 7 LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
- 8 INSTALL 18" CMP CULVERT
- 9 CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
- 10 INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
- 11 INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
- 12 INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
- 13 INSTALL 12" CMP CULVERT
- 14 INSTALL 24" CMP CULVERT
- 15 INSTALL 30" CMP CULVERT
- 16 INSTALL 36" CMP CULVERT

GENERAL NOTES:

1. PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
2. TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
3. CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1, SHEET C7.2.
4. CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.



Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
CALL 811  
OR  
1-800-362-2764



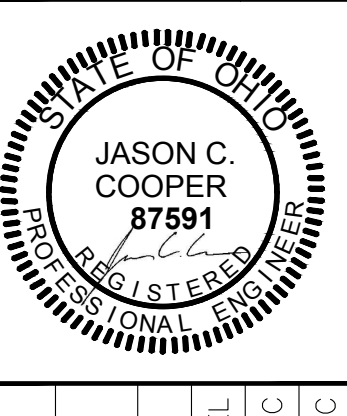
MATCHLINE - SEE SHEET C6.10

MATCHLINE - SEE SHEET C6.12

No.	REVISIONS	DATE
4	REVISION 4	07/08/2022
3	REVISION 3	06/03/2022
2	REVISION 2	04/29/2022
1	REVISION 1	04/20/2022



**Kimley-Horn**  
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235  
PHONE: (614) 454-6699  
WWW.KIMLEY-HORN.COM



KHA PROJECT	192017028
DATE	07/08/2022
SCALE	AS SHOWN
DESIGNED BY	NEL
DRAWN BY	AMC
CHECKED BY	JCC

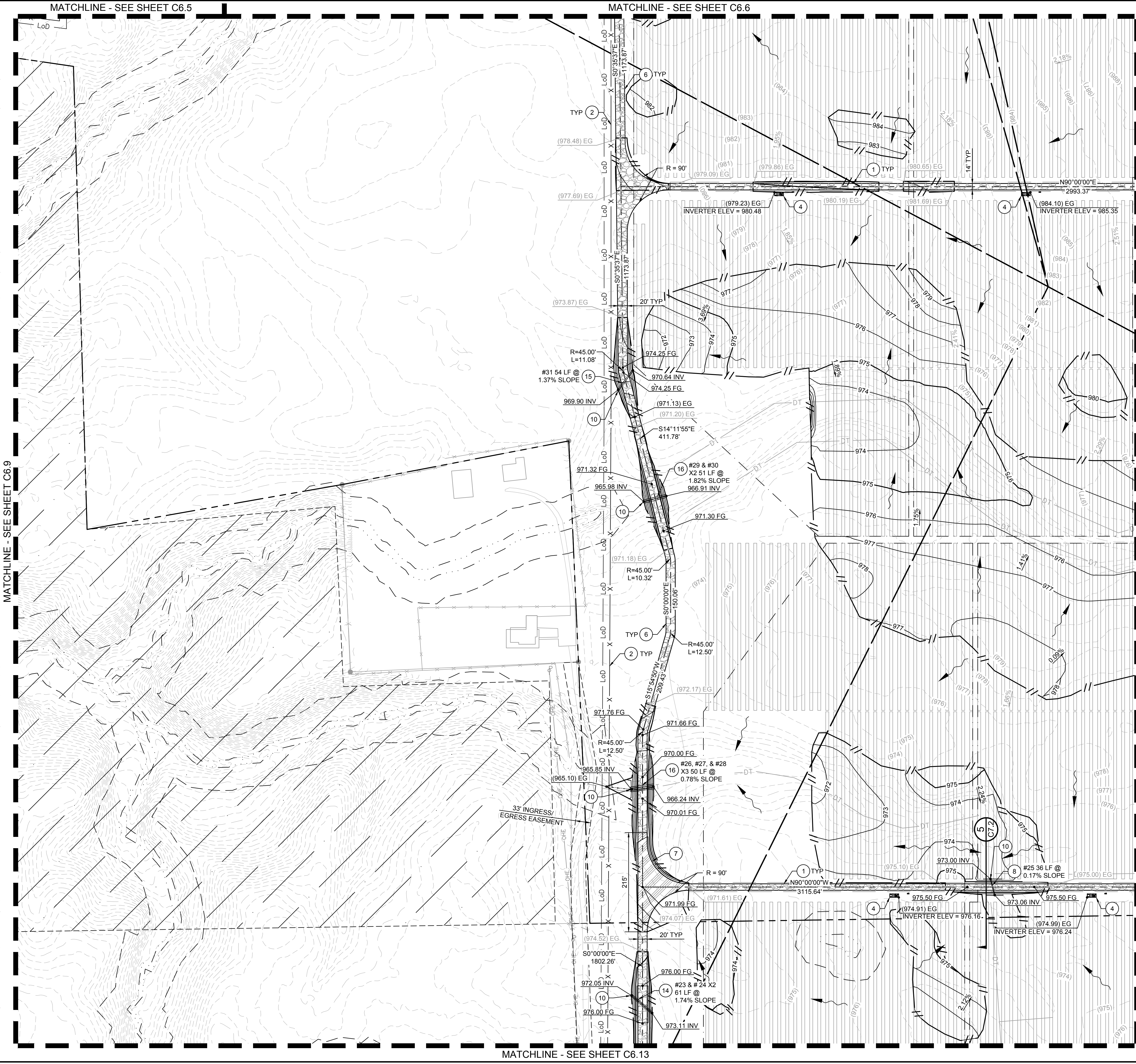
GRADING PLAN

196 MWAC  
BIG PLAIN  
SOLAR PROJECT  
MADISON COUNTY, OH

SHEET NUMBER  
C6.9

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: Jod, Jod, Sheet: Sct-Kha, Layout: C6.10, July 07, 2022, 05:54:35pm, I:\A\_V\_Civil\19207028-Big Plain Solar\CAD\PlanSheets\02-Big Plain.dwg  
 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, and shall be without liability to Kimley-Horn and Associates, Inc.



### LEGEND

- SURVEY LINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- LEASE LINE
- TOWNSHIP LINE
- SETBACK
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EASEMENT LINE
- CONSERVATION EASEMENT
- EXISTING TELEPHONE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- EXISTING DRAIN TILE MAIN
- EXISTING GROUNDWATER WELL
- PROPOSED SECURITY FENCE
- PROPOSED AGGREGATE ACCESS ROAD
- PROPOSED MATERIAL LAYDOWN AREA
- PROPOSED ARRAY BLOCK OUTLINE
- DAYLIGHT LINE
- FEMA ZONE A
- NESTING AREA
- ARCHAEOLOGICAL RESOURCE AREA
- EXISTING WETLAND
- WETLAND BUFFER
- APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- 1 AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 2 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 3 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - 4 INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - 5 SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - 6 AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - 7 LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - 8 INSTALL 18" CMP CULVERT
  - 9 CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - 10 INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - 11 INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - 12 INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - 13 INSTALL 12" CMP CULVERT
  - 14 INSTALL 24" CMP CULVERT
  - 15 INSTALL 30" CMP CULVERT
  - 16 INSTALL 36" CMP CULVERT
- ### GENERAL NOTES:
1. PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  2. TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  3. CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1, SHEET C7.2.
  4. CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

### KEY MAP

GLADE RUN RD  
BIG PLAIN CIRCLEVILLE RD

NTS

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
 OR  
 1-800-362-2764

GRAPHIC SCALE IN FEET  
 0 50 100 200

**196 MWAC  
 BIG PLAIN  
 SOLAR PROJECT**  
 MADISON COUNTY, OH

REVISIONS	No.	DATE
4	REVISION 4	07/08/2022
3	REVISION 3	06/03/2022
2	REVISION 2	06/29/2022
1	REVISION 1	04/20/2022

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
 7965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235  
 PHONE: (614) 454-6699  
 WWW.KIMLEY-HORN.COM

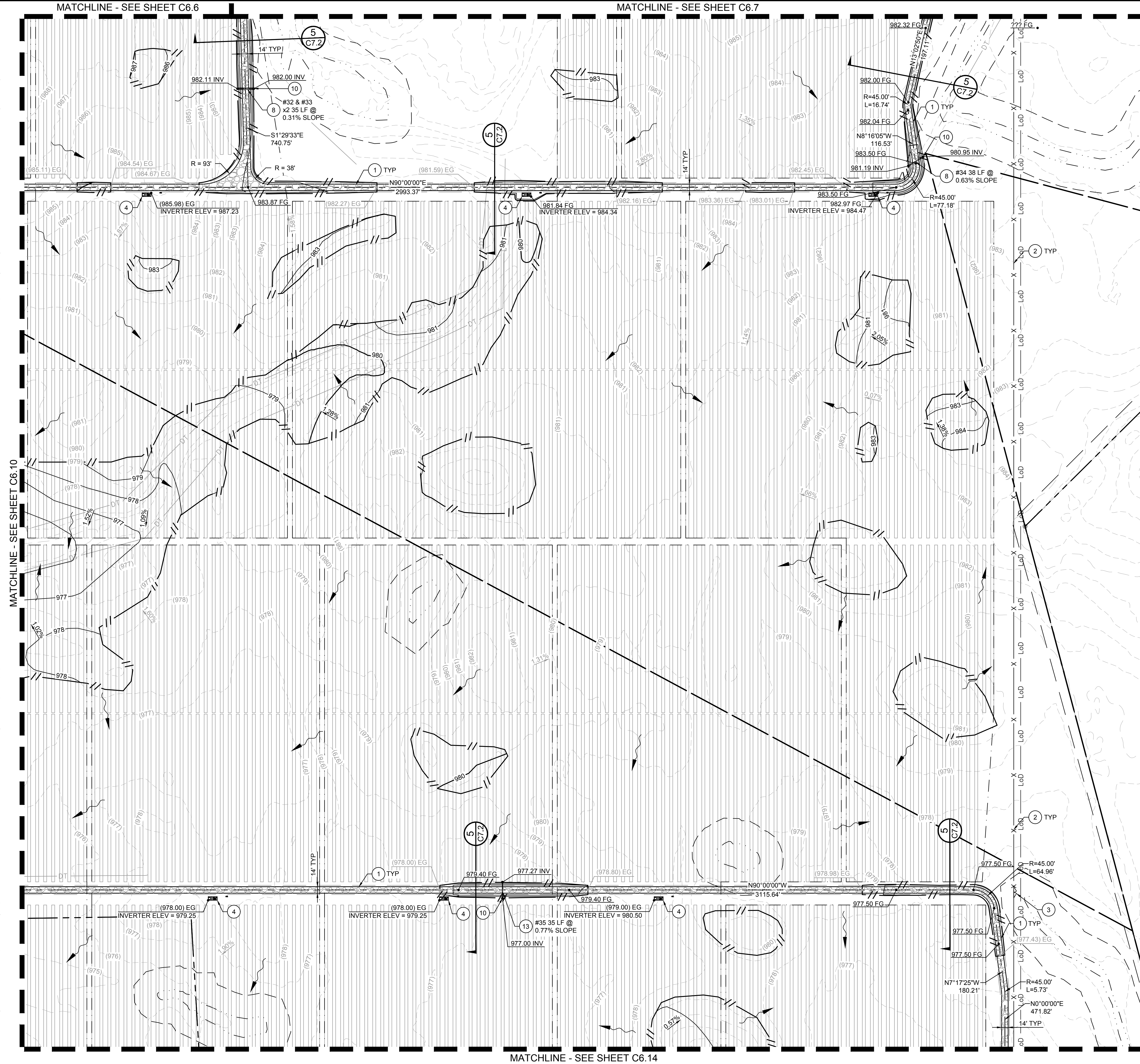
KHA PROJECT	19207028
DATE	07/08/2022
SCALE	AS SHOWN
DESIGNED BY	NEL
DRAWN BY	AMC
CHECKED BY	JCC

## GRADING PLAN

SHEET NUMBER  
**C6.10**

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: Jod, Sheet Set: KHA, Layout: C6.11, July 07, 2022, 05:54:53pm, K:\AV-Civil\192017028-Big Plain Solar\CAD\PlanSheets\C02.dwg, This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



### LEGEND

- SURVEY LINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- LEASE LINE
- TOWNSHIP LINE
- SETBACK
- (XXXX) EXISTING CONTOUR
- XXXX PROPOSED CONTOUR
- EASEMENT LINE
- CONSERVATION EASEMENT
- EXISTING TELEPHONE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- EXISTING DRAIN TILE MAIN
- EXISTING GROUNDWATER WELL
- PROPOSED SECURITY FENCE
- PROPOSED AGGREGATE ACCESS ROAD
- PROPOSED MATERIAL LAYDOWN AREA
- PROPOSED ARRAY BLOCK OUTLINE
- DAYLIGHT LINE
- FEMA ZONE A
- NESTING AREA
- ARCHAEOLOGICAL RESOURCE AREA
- EXISTING WETLAND
- WETLAND BUFFER
- APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- 1 AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 2 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 3 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - 4 INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - 5 SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - 6 AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - 7 LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - 8 INSTALL 18" CMP CULVERT
  - 9 CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - 10 INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - 11 INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - 12 INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - 13 INSTALL 12" CMP CULVERT
  - 14 INSTALL 24" CMP CULVERT
  - 15 INSTALL 30" CMP CULVERT
  - 16 INSTALL 36" CMP CULVERT
- ### GENERAL NOTES:
1. PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  2. TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  3. CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL V, SHEET C7.2.
  4. CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

### KEY MAP

Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
OR  
1-800-362-2764

GRAPHIC SCALE IN FEET  
0 50 100 200

NORTH

REVISIONS	No.	DATE
4	REVISION 4	07/08/2022
3	REVISION 3	06/03/2022
2	REVISION 2	04/29/2022
1	REVISION 1	04/20/2022

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
965 NORTH HIGH STREET, SUITE 200, COLUMBUS, OH 43235  
PHONE: (614) 454-6699  
WWW.KIMLEY-HORN.COM

KHA PROJECT	192017028
DATE	07/08/2022
SCALE	AS SHOWN
DESIGNED BY	NEL
DRAWN BY	AMC
CHECKED BY	JCC

## GRADING PLAN

# 196 MWAC BIG PLAIN SOLAR PROJECT

MADISON COUNTY, OH

SHEET NUMBER  
**C6.11**

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: Z006, J00 Sheet Set: KHA - Layout: C6.12 July 07, 2022 05:55:22pm K:\JAV\_Civil\192017028-Big Plain Solar\CAD\PlanSheets\C6.12\_BigPlain.dwg  
 This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



MATCHLINE - SEE SHEET C6.8 (left)  
 MATCHLINE - SEE SHEET C6.9 (top)  
 MATCHLINE - SEE SHEET C6.13 (right)  
 MATCHLINE - SEE SHEET C6.15 (bottom)

### LEGEND

	SURVEY LINE
	RIGHT OF WAY LINE
	PROPERTY LINE
	LEASE LINE
	TOWNSHIP LINE
	SETBACK
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EASEMENT LINE
	CONSERVATION EASEMENT
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING FENCE
	EXISTING DRAIN TILE MAIN
	EXISTING GROUNDWATER WELL
	PROPOSED SECURITY FENCE
	PROPOSED AGGREGATE ACCESS ROAD
	PROPOSED MATERIAL LAYDOWN AREA
	PROPOSED ARRAY BLOCK OUTLINE
	DAYLIGHT LINE
	FEMA ZONE A
	NESTING AREA
	ARCHAEOLOGICAL RESOURCE AREA
	EXISTING WETLAND
	WETLAND BUFFER
	APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - INSTALL 18" CMP CULVERT
  - CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - INSTALL 12" CMP CULVERT
  - INSTALL 24" CMP CULVERT
  - INSTALL 30" CMP CULVERT
  - INSTALL 36" CMP CULVERT
- ### GENERAL NOTES:
- PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  - TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  - CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1, SHEET C7.2.
  - CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

### KEY MAP

KEY MAP NTS

Call before you Dig  
 Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
 OR  
 1-800-362-2764

GRAPHIC SCALE IN FEET  
 0 50 100 200

NORTH

KHA PROJECT 192017028	DATE	07/08/2022	REVISION 4	07/08/2022	DATE
	SCALE	AS SHOWN	REVISION 3	06/03/2022	
	DESIGNED BY	NEL	REVISION 2	06/03/2022	
	DRAWN BY	AMC	REVISION 1	04/20/2022	
CHECKED BY		JCC	REVISIONS		No.

JASON C. COOPER  
 87591  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF OHIO

**Kimley-Horn**

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
 7965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235  
 PHONE: (614) 454-6699  
 WWW.KIMLEY-HORN.COM

**GRADING PLAN**

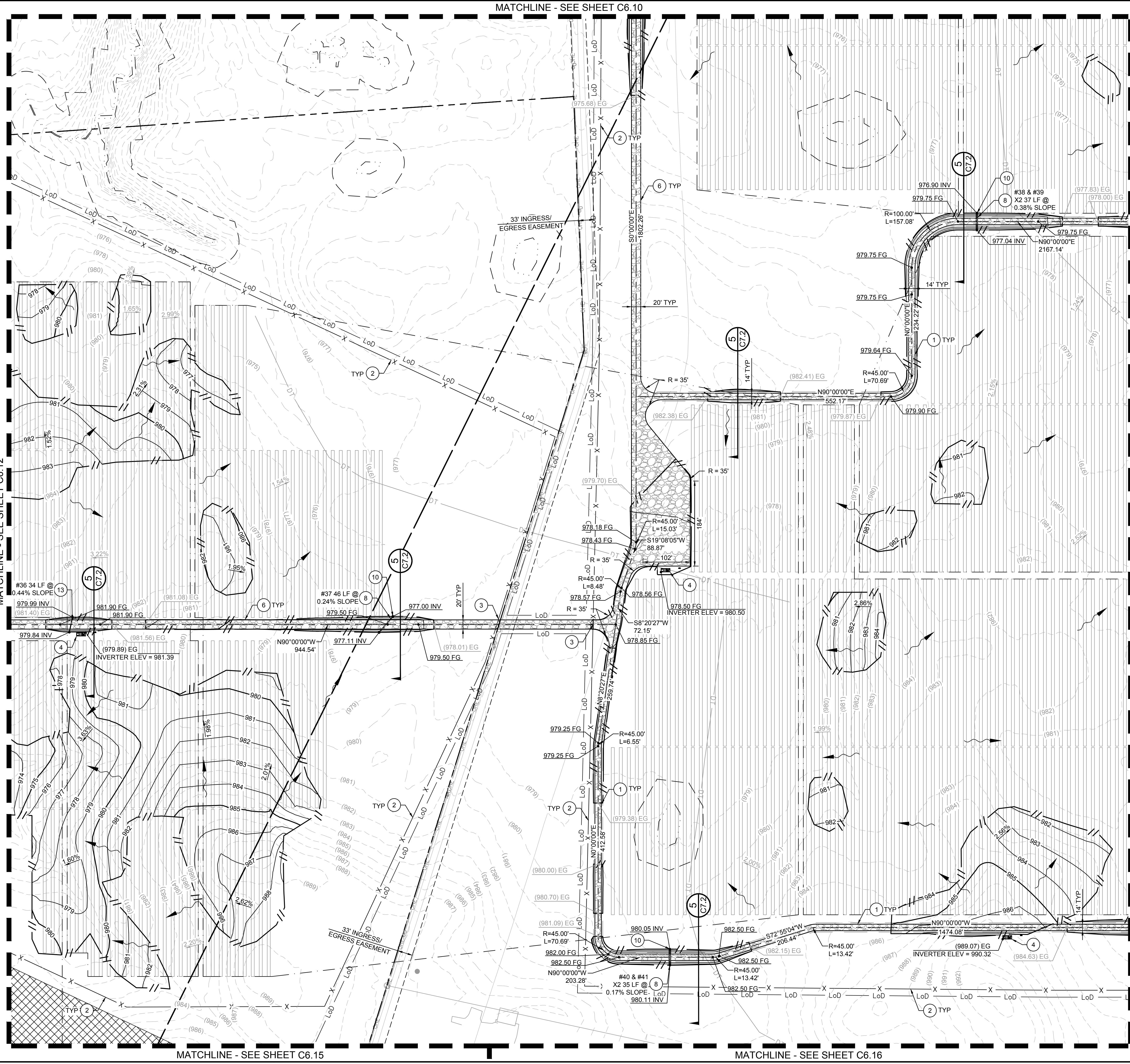
**196 MWAC  
 BIG PLAIN  
 SOLAR PROJECT**

MADISON COUNTY, OH

SHEET NUMBER  
**C6.12**

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: Jod, Jod, Sheet Set: KHA, Layout: C6.13, July 07, 2022, 05:55:41pm, K:\AV\_Civil\19207028-Big Plain Solar\CAD\PlanSheets\C6.13.dwg  
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



### LEGEND

	SURVEY LINE
	RIGHT OF WAY LINE
	PROPERTY LINE
	LEASE LINE
	TOWNSHIP LINE
	SETBACK
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EASEMENT LINE
	CONSERVATION EASEMENT
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING FENCE
	EXISTING DRAIN TILE MAIN
	EXISTING GROUND WATER WELL
	PROPOSED SECURITY FENCE
	PROPOSED AGGREGATE ACCESS ROAD
	PROPOSED MATERIAL LAYDOWN AREA
	PROPOSED ARRAY BLOCK OUTLINE
	DAYLIGHT LINE
	FEMA ZONE A
	NESTING AREA
	ARCHAEOLOGICAL RESOURCE AREA
	EXISTING WETLAND
	WETLAND BUFFER
	APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - INSTALL 18" CMP CULVERT
  - CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - INSTALL 12" CMP CULVERT
  - INSTALL 24" CMP CULVERT
  - INSTALL 30" CMP CULVERT
  - INSTALL 36" CMP CULVERT
- ### GENERAL NOTES:
- PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  - TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  - CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1, SHEET C7.2.
  - CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

### KEY MAP

KEY MAP showing the project location within a grid of sheets C6.1 to C6.23. The project area is highlighted in the center of the grid.

Call before you Dig  
 Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
 OR  
 1-800-362-2764

GRAPHIC SCALE IN FEET  
 0 50 100 200

Call before you Dig  
 Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
 OR  
 1-800-362-2764

 <b>Kimley-Horn</b> © 2022 KIMLEY-HORN AND ASSOCIATES, INC. 965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235 PHONE: (614) 454-6699 WWW.KIMLEY-HORN.COM	REVISION 4 07/08/2022	DATE
	REVISION 3 06/03/2022	REVISIONS
	REVISION 2 04/29/2022	No.
	REVISION 1 04/20/2022	DATE

KHA PROJECT 19207028	DATE 07/08/2022	SCALE AS SHOWN	DESIGNED BY NEL	DRAWN BY AMC	CHECKED BY JCC
-------------------------	--------------------	-------------------	--------------------	-----------------	-------------------

**GRADING PLAN**

196 MWAC  
 BIG PLAIN  
 SOLAR PROJECT  
 MADISON COUNTY, OH

SHEET NUMBER  
**C6.13**

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: J. J. Jod, Sheet Set: KHA, Layout: C6.14, July 07, 2022, 05:55:04pm, K:\AV\_Civil\192017028-Big Plain Solar\CAD\PlanSheets\C6.14.dwg  
 This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

MATCHLINE - SEE SHEET C6.13

MATCHLINE - SEE SHEET C6.16

MATCHLINE - SEE SHEET C6.17

MATCHLINE - SEE SHEET C6.11



LEGEND

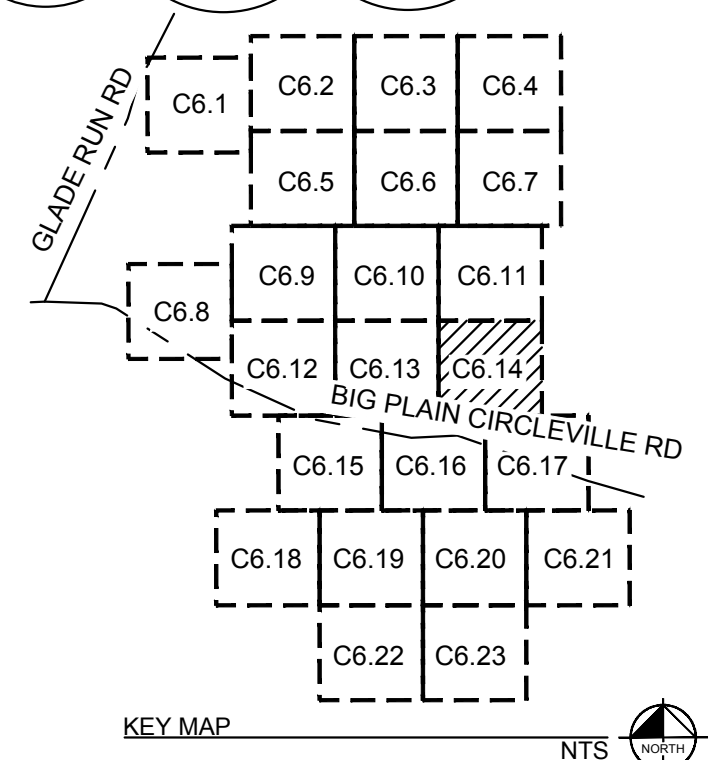
- SURVEY LINE
- R/W — RIGHT OF WAY LINE
- PROPERTY LINE
- LEASE LINE
- TOWNSHIP LINE
- SETBACK
- (XXXX) — EXISTING CONTOUR
- XXXX — PROPOSED CONTOUR
- EASEMENT LINE
- CONSERVATION EASEMENT
- EXISTING TELEPHONE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- EXISTING DRAIN TILE MAIN
- EXISTING GROUNDWATER WELL
- PROPOSED SECURITY FENCE
- PROPOSED AGGREGATE ACCESS ROAD
- PROPOSED MATERIAL LAYDOWN AREA
- PROPOSED ARRAY BLOCK OUTLINE
- DAYLIGHT LINE
- FEMA ZONE A
- NESTING AREA
- ARCHAEOLOGICAL RESOURCE AREA
- EXISTING WETLAND
- WETLAND BUFFER
- LoD — LoD — APPROXIMATE CIVIL LIMIT OF WORK

CONSTRUCTION NOTES:

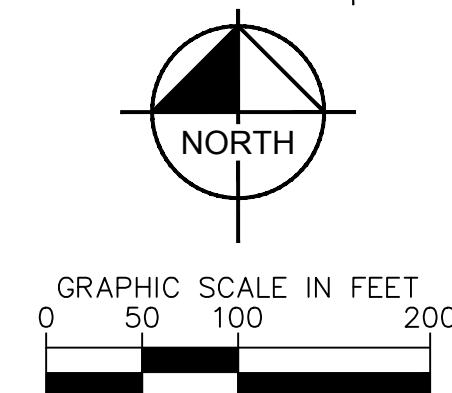
- 1 AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
- 2 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
- 3 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
- 4 INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
- 5 SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
- 6 AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
- 7 LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
- 8 INSTALL 18" CMP CULVERT
- 9 CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
- 10 INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
- 11 INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
- 12 INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
- 13 INSTALL 12" CMP CULVERT
- 14 INSTALL 24" CMP CULVERT
- 15 INSTALL 30" CMP CULVERT
- 16 INSTALL 36" CMP CULVERT

GENERAL NOTES:

1. PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
2. TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
3. CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHMARK PER DETAIL 1, SHEET C7.2.
4. CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.



Call before you Dig  
 Avoid cutting underground utility lines. It's costly.  
 CALL 811  
 OR  
 1-800-362-2764



KHA PROJECT 192017028	DATE	07/08/2022			© 2022 KIMLEY-HORN AND ASSOCIATES, INC. 7965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235 PHONE: (614) 454-6699 WWW.KIMLEY-HORN.COM
	SCALE	AS SHOWN			
	DESIGNED BY	NEL			
	DRAWN BY	AMC			
	CHECKED BY	JCC			
GRADING PLAN					
196 MWAC BIG PLAIN SOLAR PROJECT					
MADISON COUNTY, OH					
SHEET NUMBER C6.14					

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: z006, Jod Sheet Set: kha Layout: C6.15 July 07, 2022 05:55:31pm K:\AV\_Civil\192017028-Big Plain Solar\CAD\PlanSheets\C02.dwg  
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



### LEGEND

	SURVEY LINE
	RIGHT OF WAY LINE
	PROPERTY LINE
	LEASE LINE
	TOWNSHIP LINE
	SETBACK
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EASEMENT LINE
	CONSERVATION EASEMENT
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING FENCE
	EXISTING DRAIN TILE MAIN
	EXISTING GROUNDWATER WELL
	PROPOSED SECURITY FENCE
	PROPOSED AGGREGATE ACCESS ROAD
	PROPOSED MATERIAL LAYDOWN AREA
	PROPOSED ARRAY BLOCK OUTLINE
	DAYLIGHT LINE
	FEMA ZONE A
	NESTING AREA
	ARCHAEOLOGICAL RESOURCE AREA
	EXISTING WETLAND
	WETLAND BUFFER
	APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- 1 AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 2 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 3 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - 4 INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - 5 SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - 6 AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - 7 LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - 8 INSTALL 18" CMP CULVERT
  - 9 CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - 10 INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - 11 INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - 12 INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - 13 INSTALL 12" CMP CULVERT
  - 14 INSTALL 24" CMP CULVERT
  - 15 INSTALL 30" CMP CULVERT
  - 16 INSTALL 36" CMP CULVERT
- ### GENERAL NOTES:
1. PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  2. TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  3. CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1 SHEET C7.2.
  4. CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

### KEY MAP

KEY MAP showing the grid of sheets C6.1 through C6.23, with sheet C6.15 highlighted.

Call before you Dig  
 Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
 OR  
 1-800-362-2764

GRAPHIC SCALE IN FEET  
 0 50 100 200

NORTH

KHA PROJECT 192017028	DATE	07/08/2022	REVISION 4	07/08/2022	DATE
	SCALE	AS SHOWN	REVISION 3	06/03/2022	
	DESIGNED BY	NEL	REVISION 2	04/29/2022	
	DRAWN BY	AMC	REVISION 1	04/20/2022	
CHECKED BY		JCC	REVISIONS		No.

**Kimley-Horn**  
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
 7965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235  
 PHONE: (614) 454-6699  
 WWW.KIMLEY-HORN.COM

**SOLV ENERGY**

**GRADING PLAN**

**196 MWAC  
 BIG PLAIN  
 SOLAR PROJECT**  
 MADISON COUNTY, OH

SHEET NUMBER  
**C6.15**

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: 2026, Job: Sheet: Set: KHA - Layout: C6.16 - July 07, 2022, 05:55:52pm - K:\A\_V\_Civil\19207028-Big Plain Solar\CAD\PlanSheets\C6.16-Grading.dwg  
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



### LEGEND

	SURVEY LINE
	RIGHT OF WAY LINE
	PROPERTY LINE
	LEASE LINE
	TOWNSHIP LINE
	SETBACK
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EASEMENT LINE
	CONSERVATION EASEMENT
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING FENCE
	EXISTING DRAIN TILE MAIN
	EXISTING GROUNDWATER WELL
	PROPOSED SECURITY FENCE
	PROPOSED AGGREGATE ACCESS ROAD
	PROPOSED MATERIAL LAYDOWN AREA
	PROPOSED ARRAY BLOCK OUTLINE
	DAYLIGHT LINE
	FEMA ZONE A
	NESTING AREA
	ARCHAEOLOGICAL RESOURCE AREA
	EXISTING WETLAND
	WETLAND BUFFER
	APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- AGGREGATE BASE ACCESS ROAD WITH SHOULDERS. SEE DETAIL 1, SHEET C7.0
  - 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET. SEE SHEET C6.24 FOR GRADING DETAIL
  - AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - INSTALL 18" CMP CULVERT
  - CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - INSTALL 12" CMP CULVERT
  - INSTALL 24" CMP CULVERT
  - INSTALL 30" CMP CULVERT
  - INSTALL 36" CMP CULVERT
- ### GENERAL NOTES:
- PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER
  - TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  - CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1, SHEET C7.2.
  - CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

### KEY MAP

196 MWAC  
BIG PLAIN  
SOLAR PROJECT  
MADISON COUNTY, OH

Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
CALL 811  
OR  
1-800-362-2764

GRAPHIC SCALE IN FEET  
0 50 100 200

North arrow pointing up.

PROJECT	KHA PROJECT 19207028
DATE	07/08/2022
SCALE	AS SHOWN
DESIGNED BY	NEL
DRAWN BY	AMC
CHECKED BY	JCC

REVISION	NO.	DATE	REVISIONS
4	07/08/2022		
3	06/03/2022		
2	04/29/2022		
1	04/20/2022		

**Kimley-Horn**

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
 9865 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235  
 PHONE: (614) 454-6699  
 WWW.KIMLEY-HORN.COM

**SOLV ENERGY**

**JASON C. COOPER**  
 87591  
 REGISTERED PROFESSIONAL ENGINEER

**GRADING PLAN**

SHEET NUMBER  
**C6.16**



CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: z006\_jod Sheet Set: kha Layout: C6.17 July 07, 2022 05:57:14pm K:\A\Civil\192017028-Big Plain Solar\CAD\Plan\Sheets\C6.17.dwg  
 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, and shall be without liability to Kimley-Horn and Associates, Inc. if it is prepared, revised or amended without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. if it is prepared, revised or amended without written authorization and adaptation by Kimley-Horn and Associates, Inc.

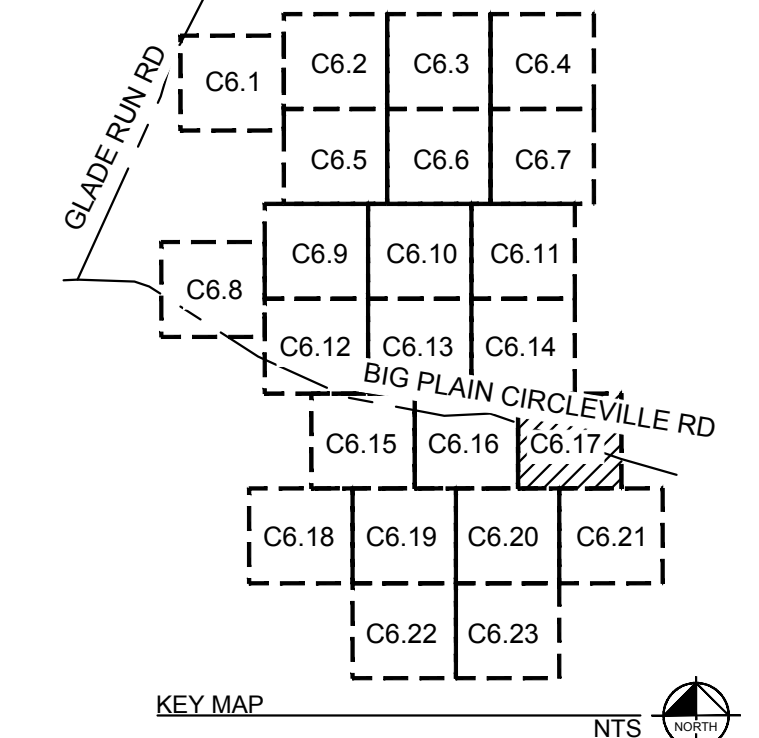


### LEGEND

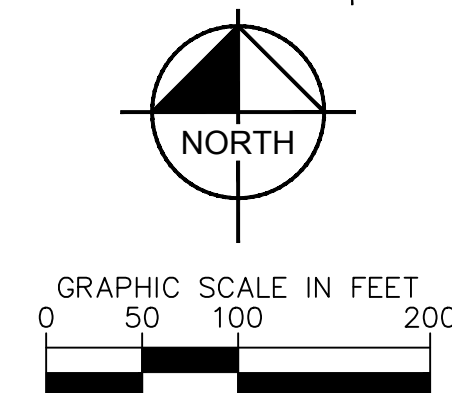
	SURVEY LINE
	RIGHT OF WAY LINE
	PROPERTY LINE
	LEASE LINE
	TOWNSHIP LINE
	SETBACK
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EASEMENT LINE
	CONSERVATION EASEMENT
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING FENCE
	EXISTING DRAIN TILE MAIN
	EXISTING GROUNDWATER WELL
	PROPOSED SECURITY FENCE
	PROPOSED AGGREGATE ACCESS ROAD
	PROPOSED MATERIAL LAYDOWN AREA
	PROPOSED ARRAY BLOCK OUTLINE
	DAYLIGHT LINE
	FEMA ZONE A
	NESTING AREA
	ARCHAEOLOGICAL RESOURCE AREA
	EXISTING WETLAND
	WETLAND BUFFER
	APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- 1 AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 2 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 3 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - 4 INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - 5 SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - 6 AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - 7 LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - 8 INSTALL 18" CMP CULVERT
  - 9 CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - 10 INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - 11 INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - 12 INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - 13 INSTALL 12" CMP CULVERT
  - 14 INSTALL 24" CMP CULVERT
  - 15 INSTALL 30" CMP CULVERT
  - 16 INSTALL 36" CMP CULVERT

- ### GENERAL NOTES:
1. PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  2. TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  3. CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1, SHEET C7.2.
  4. CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.



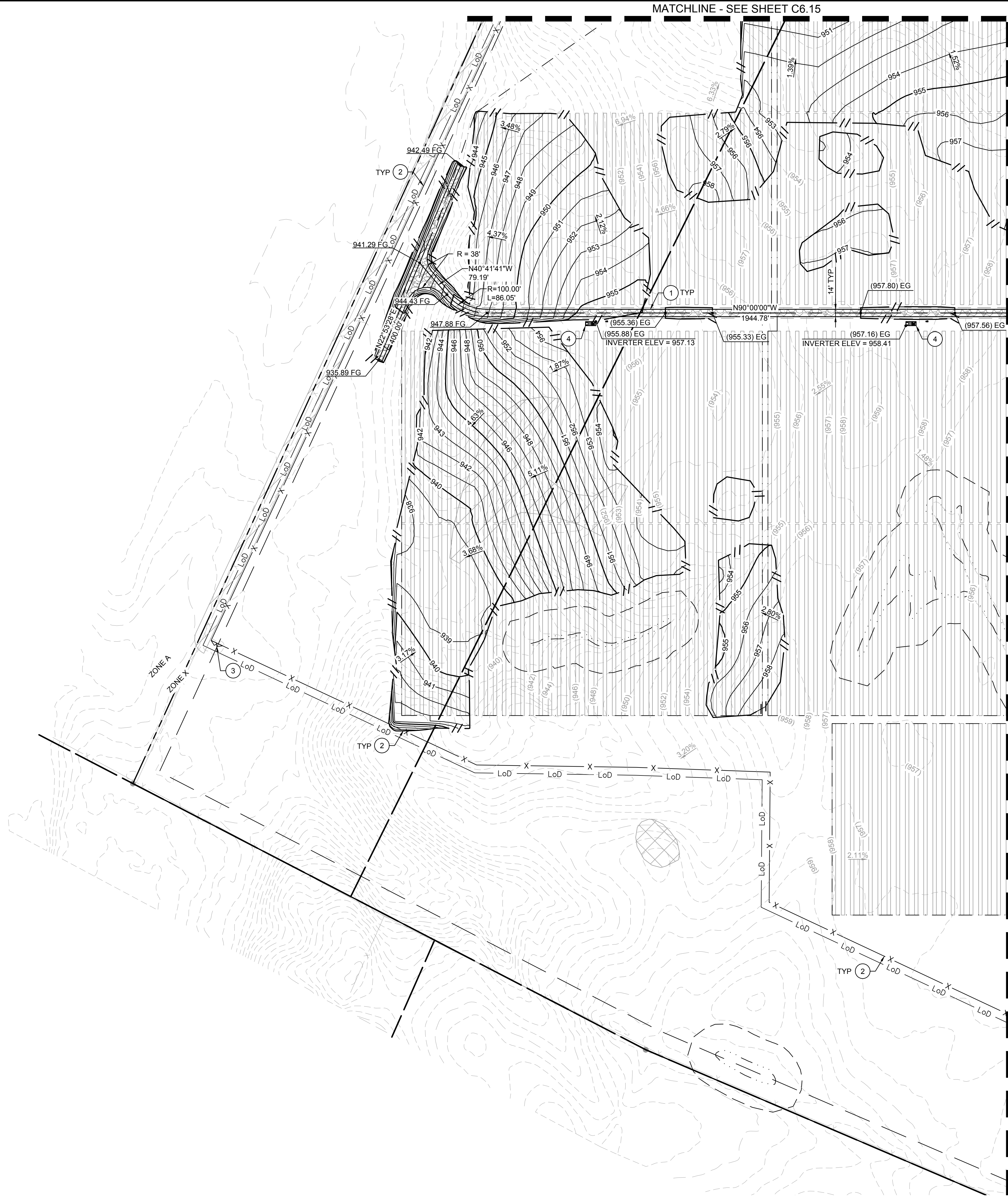
Call before you Dig  
 Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
 OR  
 1-800-362-2764



		KHA PROJECT 192017028	DATE 07/08/2022	SCALE AS SHOWN	DESIGNED BY NEL	DRAWN BY AMC	CHECKED BY JCC															
	© 2022 KIMLEY-HORN AND ASSOCIATES, INC. 7965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235 PHONE: (614) 454-6699 WWW.KIMLEY-HORN.COM	<h2 style="text-align: center;">GRADING PLAN</h2>																				
	<h1 style="text-align: center;">196 MWAC BIG PLAIN SOLAR PROJECT</h1> <p style="text-align: center;">MADISON COUNTY, OH</p>																					
	SHEET NUMBER <h2 style="text-align: center;">C6.17</h2>	REVISIONS <table border="1"> <tr> <th>No.</th> <th>REVISIONS</th> <th>DATE</th> </tr> <tr> <td>4</td> <td>REVISION 4</td> <td>07/08/2022</td> </tr> <tr> <td>3</td> <td>REVISION 3</td> <td>06/03/2022</td> </tr> <tr> <td>2</td> <td>REVISION 2</td> <td>04/29/2022</td> </tr> <tr> <td>1</td> <td>REVISION 1</td> <td>04/20/2022</td> </tr> </table>							No.	REVISIONS	DATE	4	REVISION 4	07/08/2022	3	REVISION 3	06/03/2022	2	REVISION 2	04/29/2022	1	REVISION 1
No.	REVISIONS	DATE																				
4	REVISION 4	07/08/2022																				
3	REVISION 3	06/03/2022																				
2	REVISION 2	04/29/2022																				
1	REVISION 1	04/20/2022																				

# CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: Z006, Job: Sheet Set: kha - Layout: C6.18 - July 07, 2022 - 05:57:36pm - K:\JAV\Civil\192017028-Big Plain Solar\CAD\PlanSheets\C6.18\BigPlain.dwg  
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



### LEGEND

- SURVEY LINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- LEASE LINE
- TOWNSHIP LINE
- SETBACK
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EASEMENT LINE
- CONSERVATION EASEMENT
- EXISTING TELEPHONE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- EXISTING DRAIN TILE MAIN
- EXISTING GROUNDWATER WELL
- PROPOSED SECURITY FENCE
- PROPOSED AGGREGATE ACCESS ROAD
- PROPOSED MATERIAL LAYDOWN AREA
- PROPOSED ARRAY BLOCK OUTLINE
- DAYLIGHT LINE
- FEMA ZONE A
- NESTING AREA
- ARCHAEOLOGICAL RESOURCE AREA
- EXISTING WETLAND
- WETLAND BUFFER
- APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- 1 AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 2 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 3 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - 4 INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - 5 SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - 6 AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - 7 LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - 8 INSTALL 18" CMP CULVERT
  - 9 CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - 10 INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - 11 INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - 12 INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - 13 INSTALL 12" CMP CULVERT
  - 14 INSTALL 24" CMP CULVERT
  - 15 INSTALL 30" CMP CULVERT
  - 16 INSTALL 36" CMP CULVERT
- ### GENERAL NOTES:
1. PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  2. TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  3. CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 4, SHEET C7.2.
  4. CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

### KEY MAP

GLADE RUN RD  
BIG PLAIN CIRCLEVILLE RD

NTS

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
 OR  
 1-800-362-2764

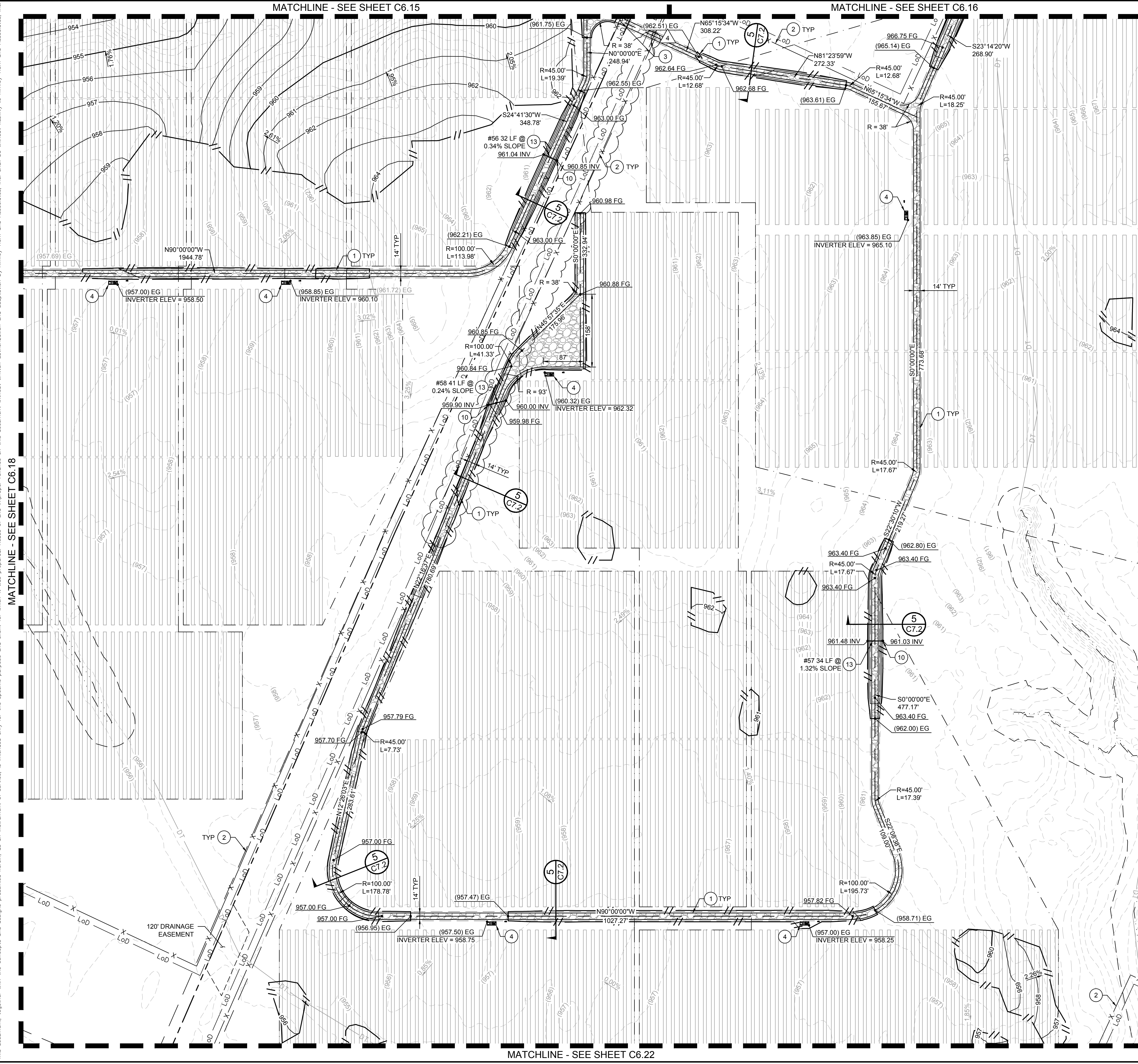
**NORTH**

GRAPHIC SCALE IN FEET  
 0 50 100 200

KHA PROJECT 192017028		DATE 07/08/2022		SCALE AS SHOWN		DESIGNED BY NEL		DRAWN BY AMC		CHECKED BY JCC	
KIMLEY-HORN AND ASSOCIATES, INC. 9965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235 PHONE: (614) 454-6699 WWW.KIMLEY-HORN.COM		SOLV ENERGY		© 2022 KIMLEY-HORN AND ASSOCIATES, INC.		TOWNSHIP LINE		SETBACK		EXISTING TELEPHONE LINE	
KIMLEY-HORN		JASON C. COOPER 87591		REGISTERED PROFESSIONAL ENGINEER		EXISTING CONTOUR		PROPOSED CONTOUR		CONSERVATION EASEMENT	
MADISON COUNTY, OH		196 MWAC BIG PLAIN SOLAR PROJECT		SHEET NUMBER C6.18		EXISTING FENCE		EXISTING DRAIN TILE MAIN		EXISTING GROUNDWATER WELL	
MADISON COUNTY, OH		MADISON COUNTY, OH		MADISON COUNTY, OH		PROPOSED SECURITY FENCE		PROPOSED AGGREGATE ACCESS ROAD		PROPOSED MATERIAL LAYDOWN AREA	
MADISON COUNTY, OH		MADISON COUNTY, OH		MADISON COUNTY, OH		PROPOSED ARRAY BLOCK OUTLINE		DAYLIGHT LINE		FEMA ZONE A	
MADISON COUNTY, OH		MADISON COUNTY, OH		MADISON COUNTY, OH		NESTING AREA		ARCHAEOLOGICAL RESOURCE AREA		EXISTING WETLAND	
MADISON COUNTY, OH		MADISON COUNTY, OH		MADISON COUNTY, OH		WETLAND BUFFER		APPROXIMATE CIVIL LIMIT OF WORK		REVISIONS	
MADISON COUNTY, OH		MADISON COUNTY, OH		MADISON COUNTY, OH		NO.		DATE		DATE	

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: C:\Users\Andrew\_Saito\OneDrive - Kimley-Horn and Associates, Inc. Desktop\192017028-192017028-Big Plain Solar\CAD\PlanSheets\C6.19.dwg  
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



### LEGEND

	SURVEY LINE
	RIGHT OF WAY LINE
	PROPERTY LINE
	LEASE LINE
	TOWNSHIP LINE
	SETBACK
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EASEMENT LINE
	CONSERVATION EASEMENT
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING FENCE
	EXISTING DRAIN TILE MAIN
	EXISTING GROUNDWATER WELL
	PROPOSED SECURITY FENCE
	PROPOSED AGGREGATE ACCESS ROAD
	PROPOSED MATERIAL LAYDOWN AREA
	PROPOSED ARRAY BLOCK OUTLINE
	DAYLIGHT LINE
	FEMA ZONE A
	NESTING AREA
	ARCHAEOLOGICAL RESOURCE AREA
	EXISTING WETLAND
	WETLAND BUFFER
	APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - INSTALL 18" CMP CULVERT
  - CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - INSTALL 12" CMP CULVERT
  - INSTALL 24" CMP CULVERT
  - INSTALL 30" CMP CULVERT
  - INSTALL 36" CMP CULVERT
- ### GENERAL NOTES:
- PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  - TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  - CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1, SHEET C7.2.
  - CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

### KEY MAP

The key map shows a grid of sheets from C6.1 to C6.23. Sheet C6.19 is highlighted in the center of the grid, indicating its location relative to the rest of the project area.

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
 OR  
 1-800-362-2764

**GRAPHIC SCALE IN FEET**  
 0 50 100 200

**North Arrow**

 © 2022 KIMLEY-HORN AND ASSOCIATES, INC. 7965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH 43235 PHONE: (614) 454-6699 WWW.KIMLEY-HORN.COM	REVISION 4 07/08/2022	DATE
	REVISION 3 06/03/2022	DATE
	REVISION 2 04/29/2022	DATE
	REVISION 1 04/20/2022	DATE

KHA PROJECT 192017028	DATE 07/08/2022	SCALE AS SHOWN	DESIGNED BY NEL	DRAWN BY AMC	CHECKED BY JCC
--------------------------	--------------------	-------------------	--------------------	-----------------	-------------------

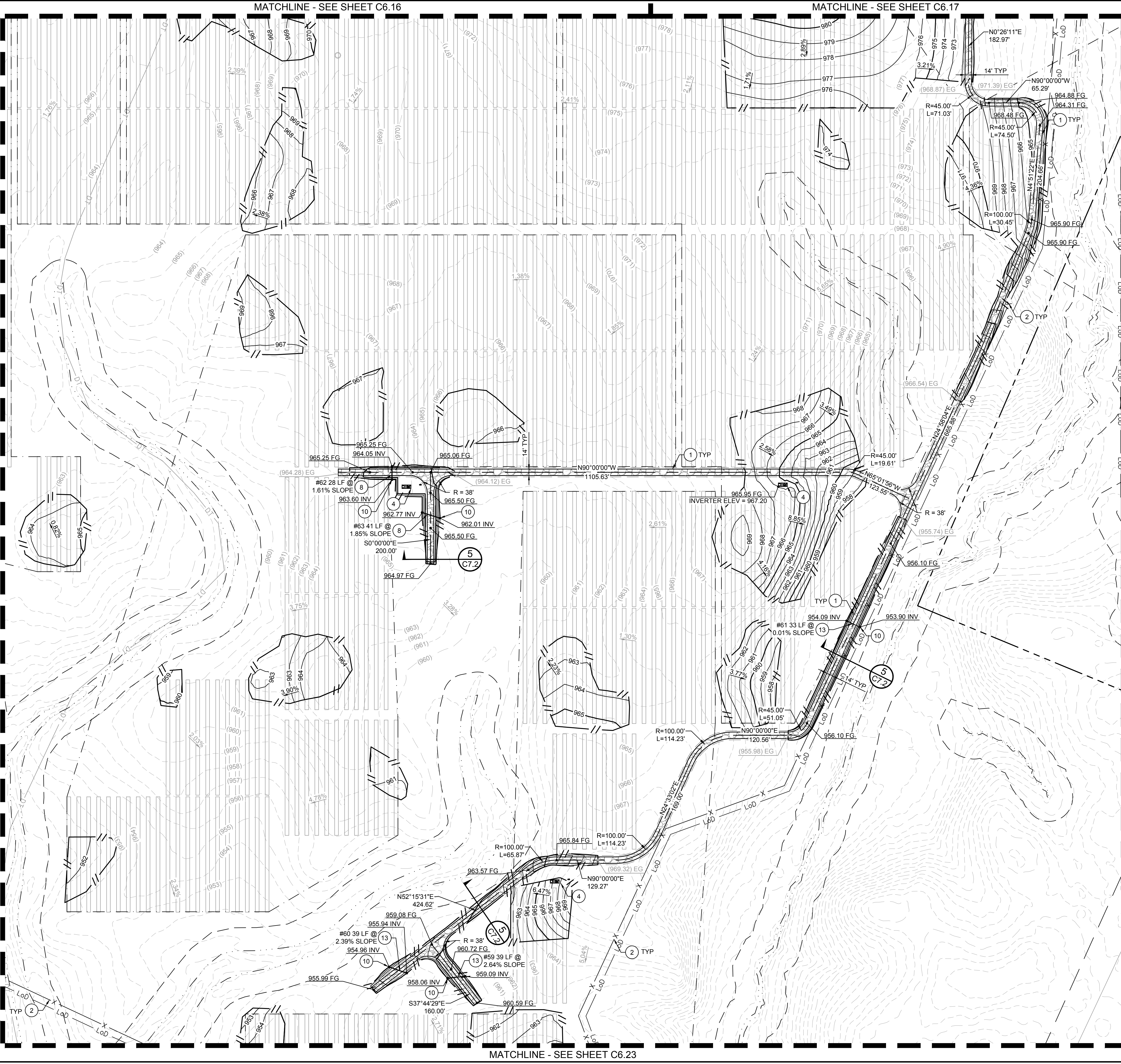
**GRADING PLAN**

**196 MWAC  
 BIG PLAIN  
 SOLAR PROJECT**  
 MADISON COUNTY, OH

SHEET NUMBER  
**C6.19**

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: 2026s\_jod Sheet Set: KHA Layout: C6.20 July 07, 2022 05:58:21pm K:\A\A\_Civil\192017028-Big Plain Solar\CAD\PlanSheets\C6.20\_Big Plain.dwg  
 This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



### LEGEND

- SURVEY LINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- LEASE LINE
- TOWNSHIP LINE
- SETBACK
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EASEMENT LINE
- CONSERVATION EASEMENT
- EXISTING TELEPHONE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- EXISTING DRAIN TILE MAIN
- EXISTING GROUNDWATER WELL
- PROPOSED SECURITY FENCE
- PROPOSED AGGREGATE ACCESS ROAD
- PROPOSED MATERIAL LAYDOWN AREA
- PROPOSED ARRAY BLOCK OUTLINE
- DAYLIGHT LINE
- FEMA ZONE A
- NESTING AREA
- ARCHAEOLOGICAL RESOURCE AREA
- EXISTING WETLAND
- WETLAND BUFFER
- APPROXIMATE CIVIL LIMIT OF WORK

- ### CONSTRUCTION NOTES:
- AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - INSTALL 18" CMP CULVERT
  - CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - INSTALL 12" CMP CULVERT
  - INSTALL 24" CMP CULVERT
  - INSTALL 30" CMP CULVERT
  - INSTALL 36" CMP CULVERT
- ### GENERAL NOTES:
- PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  - TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  - CONTRACTOR TO ENSURE ALL SLORES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1, SHEET C7.2.
  - CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

### KEY MAP

GLADE RUN RD

BIG PLAIN CIRCLEVILLE RD

NTS

NORTH

GRAPHIC SCALE IN FEET

0 50 100 200

Call before you Dig  
 Avoid cutting underground utility lines. It's costly.  
**811**  
 OR  
 1-800-362-2764

PROJECT	192017028	DATE	07/08/2022
SCALE	AS SHOWN	DESIGNED BY	NEL
DRAWN BY	AMC	CHECKED BY	JCC

**GRADING PLAN**

**196 MWAC  
BIG PLAIN  
SOLAR PROJECT**

MADISON COUNTY, OH

SHEET NUMBER  
**C6.20**

NO.	REVISIONS	DATE
4	REVISION 4	07/08/2022
3	REVISION 3	06/03/2022
2	REVISION 2	06/29/2022
1	REVISION 1	04/20/2022

**Kimley-Horn**

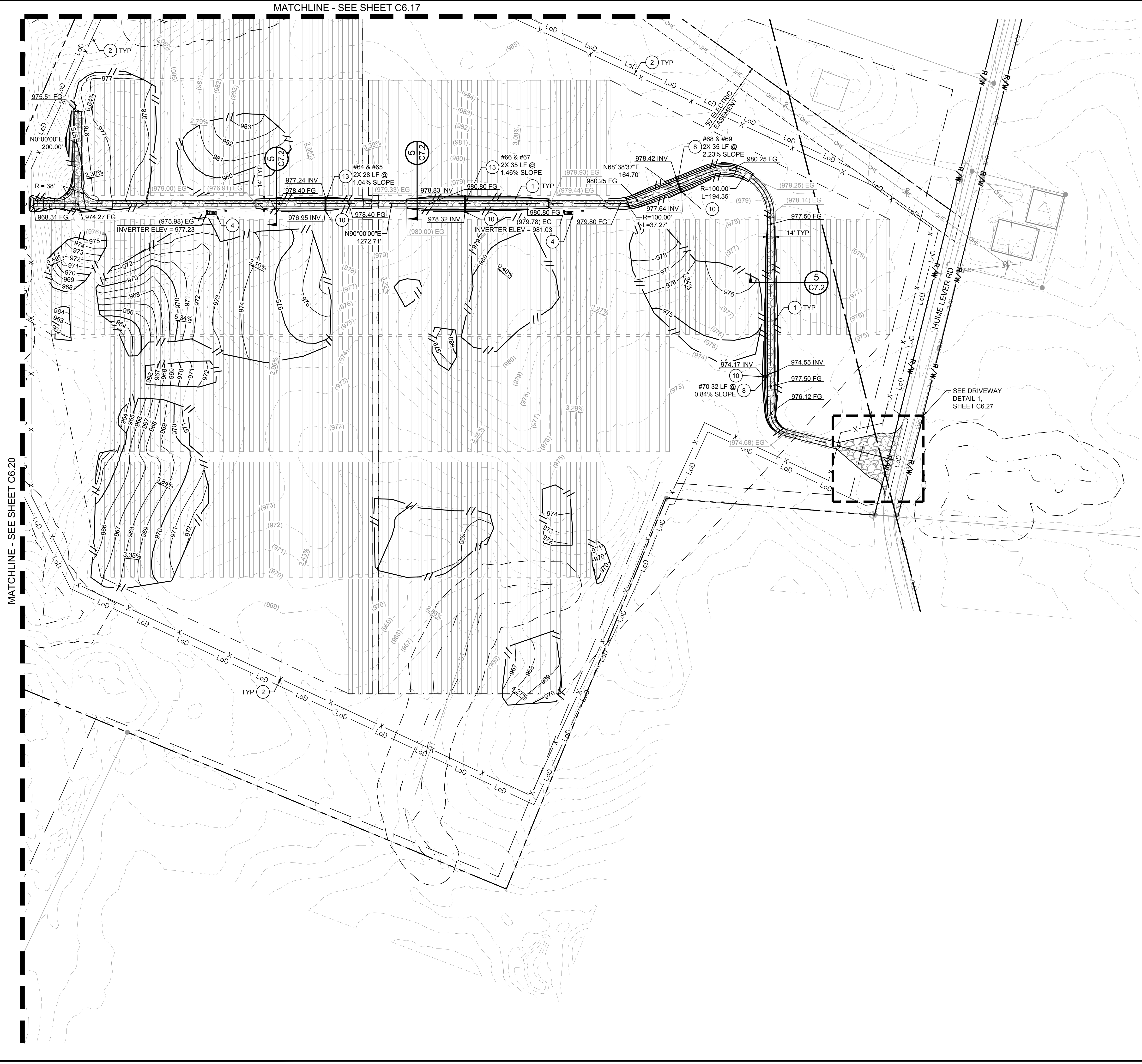
© 2022 KIMLEY-HORN AND ASSOCIATES, INC. 43235  
 7965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH  
 PHONE: (614) 454-6699  
 WWW.KIMLEY-HORN.COM

**JASON C. COOPER**  
 87591  
 REGISTERED PROFESSIONAL ENGINEER

**SOLV ENERGY**

CIVIL IMPROVEMENT PLAN - JULY 8, 2022 - ISSUED FOR CONSTRUCTION

Plotted By: Z006, J002, Sheet Set: KHA - Layout: C6.21, July 07, 2022, 05:55:38pm, I:\A\_V\_Civil\192017028 - Big Plain Solar\CAD\PlanSheets\C6.21.dwg  
 This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



**LEGEND**

- SURVEY LINE
- RW - RIGHT OF WAY LINE
- PROPERTY LINE
- LEASE LINE
- TOWNSHIP LINE
- SETBACK
- (XXXX) - EXISTING CONTOUR
- XXXX - PROPOSED CONTOUR
- EASEMENT LINE
- CONSERVATION EASEMENT
- EXISTING TELEPHONE LINE
- OHE - EXISTING OVERHEAD POWER LINE
- DT - EXISTING DRAIN TILE MAIN
- EXISTING GROUND WATER WELL
- X - X - PROPOSED SECURITY FENCE
- PROPOSED AGGREGATE ACCESS ROAD
- PROPOSED MATERIAL LAYDOWN AREA
- PROPOSED ARRAY BLOCK OUTLINE
- DAYLIGHT LINE
- FEMA ZONE A
- NESTING AREA
- ARCHAEOLOGICAL RESOURCE AREA
- EXISTING WETLAND
- WETLAND BUFFER
- LoD - LoD - APPROXIMATE CIVIL LIMIT OF WORK

- CONSTRUCTION NOTES:**
- AGGREGATE BASE ACCESS ROAD WITH SHOULDERS, SEE DETAIL 1, SHEET C7.0
  - 8' TALL DEER FENCE PER DETAIL 1, SHEET C7.1
  - 24' WIDE VEHICLE MANUAL SWING GATE PER DETAIL 3, SHEET C7.1
  - INVERTER SKID (SHOWN FOR REFERENCE ONLY), SEE DETAIL 4, SHEET C7.0 FOR GRADING DETAIL AND DETAIL 3, SHEET C7.0 FOR MAXIMUM SWITCH HEIGHT
  - SUBSTATION TO BE CONSTRUCTED UNDER SEPARATE PLAN SET, SEE SHEET C6.24 FOR GRADING DETAIL
  - AGGREGATE BASE ACCESS ROAD, SEE DETAIL 2, SHEET C7.0
  - LOW WATER CROSSING, SEE DETAIL 2, SHEET C7.2
  - INSTALL 18" CMP CULVERT
  - CONSTRUCT SUBSTATION DITCH, SEE DETAIL 1, SHEET C6.24
  - INSTALL RIP RAP PIPE OUTLET PROTECTION, SEE DETAIL 3, SHEET C7.2
  - INSTALL RIP RAP DITCH OUTLET, SEE DETAIL 4, SHEET C7.2
  - INSTALL CHECK DAM AT MINIMUM EVERY 100', SEE DETAIL 4, SHEET C5.30
  - INSTALL 12" CMP CULVERT
  - INSTALL 24" CMP CULVERT
  - INSTALL 30" CMP CULVERT
  - INSTALL 36" CMP CULVERT
- GENERAL NOTES:**
- PHOTOVOLTAIC PANELS, INVERTERS, AND INTERCONNECTION EQUIPMENT LOCATIONS SHOWN FOR REFERENCE ONLY. DESIGN AND FINAL LAYOUT PER DRAWINGS BY ELECTRICAL ENGINEER.
  - TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND STORMWATER FLOW, ALL EQUIPMENT SKID/PADS (FOR INVERTERS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100-YEAR FLOOD ELEVATION.
  - CONTRACTOR TO ENSURE ALL SLOPES ARE BUILT WITH APPROPRIATE BENCHING PER DETAIL 1, SHEET C7.2.
  - CONTRACTOR TO REPAIR OR REPLACE ALL DRAIN TILE DAMAGED DURING GRADING ACTIVITIES PER DETAIL 3, SHEET C7.3.

**KEY MAP**

**196 MWAC BIG PLAIN SOLAR PROJECT**  
MADISON COUNTY, OH

**GRADING PLAN**

**LEGEND**

- CALL BEFORE YOU DIG
- 811
- 1-800-362-2764
- NORTH
- GRAPHIC SCALE IN FEET: 0, 50, 100, 200

REVISION 4	07/08/2022	DATE
REVISION 3	06/03/2022	DATE
REVISION 2	04/29/2022	DATE
REVISION 1	04/20/2022	DATE
No.	REVISIONS	DATE

KHA PROJECT	192017028
DATE	07/08/2022
SCALE	AS SHOWN
DESIGNED BY	NEL
DRAWN BY	AMC
CHECKED BY	JCC

© 2022 KIMLEY-HORN AND ASSOCIATES, INC. 43235 7965 NORTH HIGH STREET SUITE 200, COLUMBUS, OH PHONE: (614) 454-6699 WWW.KIMLEY-HORN.COM	
SOLV ENERGY	