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CHRISTINE M.T. PIRIK
CPirik@dickinsonwright.com

June 3, 2022

Ms. Tanowa Troupe, Secretary
Ohio Power Siting Board
Docketing Division
180 East Broad Street, 11th Floor
Columbus, Ohio 43215-3797

Re: Case No. 21-1231-EL-BGN - In the Matter of the Application of Fountain Point Solar Energy LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Logan County, Ohio.

Response to Fourth Data Request from Staff of the Ohio Power Siting Board

Dear Ms. Troupe:

Attached please find Fountain Point Solar Energy LLC's ("Applicant") Response to the Fourth Data Request from the staff of the Ohio Power Siting Board ("OPSB Staff"). The Applicant provided this response to OPSB Staff on June 3, 2022.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ *Christine M.T. Pirik*
Christine M.T. Pirik (0029759)
(Counsel of Record)
Matthew C. McDonnell (0090164)
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180 East Broad Street, Suite 3400
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Attorneys for Fountain Point Solar Energy LLC

Cc: Theresa White
Randall Schumacher
Jon Pawley
Grant Zeto
TJ November

CERTIFICATE OF SERVICE

The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 3rd day of June, 2022.

/s/ Christine M.T. Pirik
Christine M.T. Pirik (0029759)

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Administrative Law Judges:
greta.see@puco.ohio.gov
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4858-8215-0946 v1 [39579-58]

BEFORE
THE OHIO POWER SITING BOARD

In the Matter of the Application of Fountain Point Solar Energy LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Logan County, Ohio.	)))))	Case No. 21-1231-EL-BGN

FOUNTAIN POINT SOLAR ENERGY LLC'S
RESPONSE TO THE FOURTH DATA REQUEST
FROM THE STAFF OF THE OHIO POWER SITING BOARD

On April 11, 2022, as supplemented on May 16, 2022, Fountain Point Solar Energy LLC ("Applicant"), filed an application ("Application") with the Ohio Power Siting Board ("OPSB") proposing to construct a solar-powered electric generation facility in Logan County, Ohio ("Project" or "Facility").

On May 25, 2022, the Staff of the OPSB ("OPSB Staff") provided the Applicant with OPSB Staff's Fourth Data Request. Now comes the Applicant providing the following response to the Fourth Data Request from the OPSB Staff.

1. **In follow-up to the Applicant's response to the first data request set, (question/answer #18, #19, and #31), Fountain Point Solar Energy, LLC seems to indicate that the gen tie transmission line is still under design. Please provide the 10% design or better (i.e., overhead plans, transmission line plan and profile view) for the gen tie transmission line.**

   Response: Included as Attachment 1 to this response is a 10% design for the preliminary gen tie transmission line. The Applicant is working with the transmission owner, Dayton Power and Light Company, and PJM to determine the location of the point of interconnection ("POI"); however, the final location will not be determined until closer to construction when the final engineering design is determined.

2. **In follow-up to the Applicant's response the first data request set (question/answer #6), it is stated that "The Applicant's goal is to utilize these species on at least 25% of the Project Area." in response to staff's recommendation that 70% of the impacted project area be planted in beneficial vegetation. Is beneficial vegetation being planned to be planted around and underneath the proposed solar panel arrays? Or is this referenced goal of 25% only referring to the use of pollinator planting habitat?**

Response: The Applicant's goals and expectations for the Project are to plant beneficial vegetation (as outlined by Staff's recommendation) on 70% of the impacted Project Area, at a minimum. The Applicant plans to utilize a pollinator seed mix on 25% of the Project Area that will be used in conjunction with those beneficial vegetative species as well.

3. **In the response to Question 6 of the second set of Data Requests regarding the stow mode, references made to Exhibit A for the specifications of the NEXTracker SPT system, which mentions "intelligent wind stowing" as wind protection. Please describe or elaborate on what is meant by intelligent wind stowing, and include the angles involved in accomplishing the stow mode.**

   Response: Different tracker manufacturers take different approaches to achieve this type of wind stow. However, in general, it typically involves measurement of the current site wind speed, current site wind direction, and the tracker's current tracking angle, and then control logic determines whether the existing conditions require movement of the tracker to the wind stow position. For the current standard NEXTracker SPT system referenced in Exhibit A of the Application, the tracker is designed to be at full tilt angle of 60 degrees facing into the wind during wind stow conditions.

4. **When would the selection of the tracker manufacturer be made?**

   Response: The Applicant would finalize the tracker selection close to the construction phase of the Project, prior to receiving the final stamp of a Professional Engineer in the state of Ohio.

5. **Please correct and address the following concern from Ohio Department of Agriculture: The application does not include a "Mapping of agricultural land. The applicant shall identify on a map of at least 1:24,000 scale the proposed facility, all agricultural land, and separately all agricultural district land existing at least sixty days prior to submission of the application located within the project area boundaries. Where available, distinguish between agricultural uses such as cultivated lands, permanent pastureland, managed woodlots, orchards, nurseries, livestock and poultry confinement areas, and agriculturally related structures." While the Narrative notes on page 96 that "There is no agricultural district land within the Project Area," a map of the agricultural land is required by ORC Ohio Adm. Code 4906-4-08(E)(1).**

Response: Included as Attachment 2 to this response is a map of agricultural land use classification. This map reflects there are no agricultural district land within the Project Area.

6. **The application mentions a site grading. To evaluate the grading and its potential impact to future land use, ODA requests a site grading plan that includes: a. Existing and proposed 1' contours**
   a. **Drainage arrows which delineate existing and proposed drainage patterns**
   b. **Estimated earthwork quantities including the amount of cut and fill and the amount of soil to be exported or imported (in cubic yards)**
   c. **Location of proposed areas of cut and fill. Include extent and maximum depth of cut and fill.**
   d. **Location of proposed improvements including construction entrances, construction roadways, parking areas, solar panel locations and laydown yards.**
   e. **North arrow and scale**
   f. **Existing surface water locations**

   Response: Included as Attachment 3 to this response is a preliminary grading plan that includes locations of proposed construction entrances, proposed access roads, proposed laydown/parking areas, proposed solar panel locations, wetland and waterbody delineations, North arrow, and scale.

   The Applicant will not have the locations, or extent, for areas of cut and fill until after final equipment selection, right before construction commences and the final design of the Project is completed. However, the Applicant has provided as example of the information that will be provided as Attachment 4 to this response. This example is a 60% civil design that was submitted to the OPSB in advance of the pre-construction conference for the Hardin Solar Energy III, LLC project on March 3, 2022, in Case No. 20-1678-EL-BGN.

7. **Additional information on the medium-voltage collection system, to evaluate the effect on future subsurface drainage if the medium-voltage system is not removed as part of decommissioning, including**

a. The type of cable (conductor size and material, insulation material and thickness, total diameter, etc.)

Response: Included as Attachment 5 to this response is an example cable cut sheet. Cables are aluminum cables with tree-retardant crosslinked polyethylene insulation (TR-XLPE), copper concentric neutrals and XLPE jacket. The Applicant anticipates final cables will be similar to the attached cutsheet.

b. Will the cable be buried in conduit? Or will there be any other protective layer placed above the cable?

Response: Medium voltage cables will be direct buried and backfilled with native soil that is screened and compacted. Conduits will only be installed in the transitions from underground to overhead – such as at inverter locations and the substation risers.

c. A cross section of the cable trench, including anticipated depth and fill material

Response: Included as Attachment 6 to this response is an example trench detail drawing from the Hardin Solar Energy, LLC project, Case No. 17-773-EL-BGN.

Respectfully submitted,

/s/ *Christine M.T. Pirik*
Christine M.T. Pirik (0029759)
(Counsel of Record)
Terrence O'Donnell (0074213)
Matthew C. McDonnell (0090164)
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(614) 591-5461
cpirik@dickinsonwright.com
mmcdonnell@dickinsonwright.com

Attorneys for Fountain Point Solar Energy LLC

4876-5356-4195 v1 [39579-58]

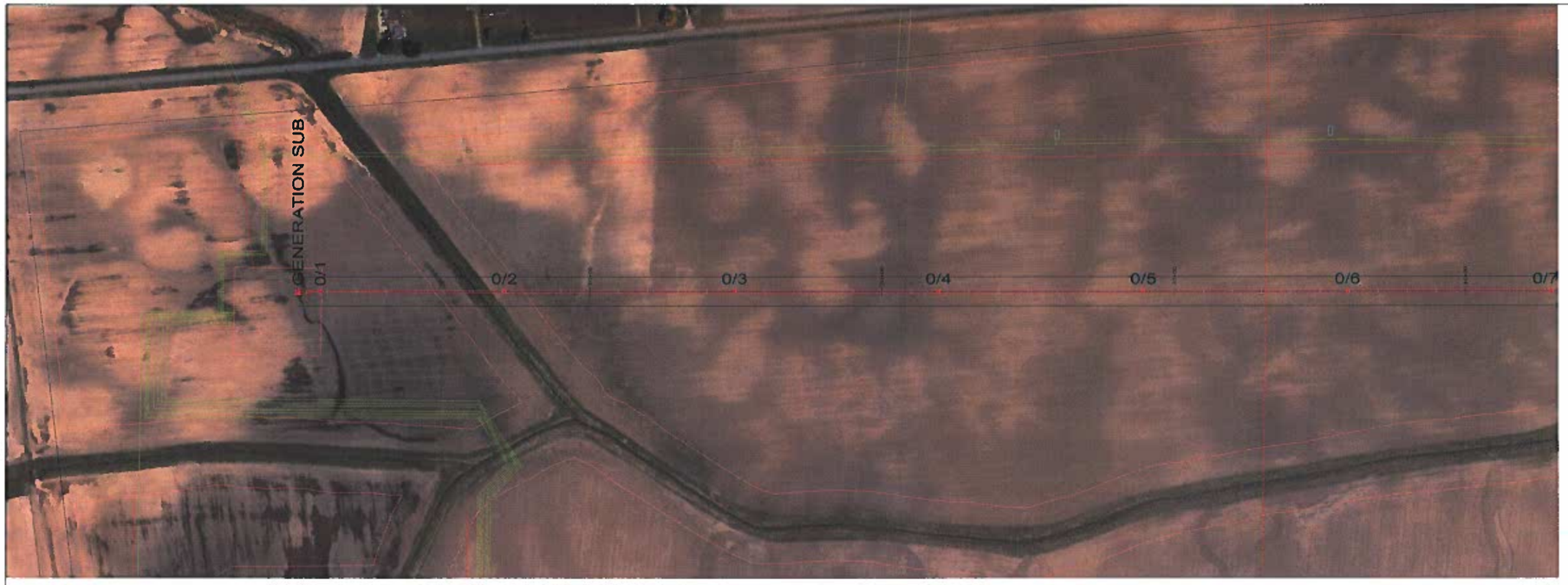
Attachment 1
Preliminary Gen-tie 10% Design

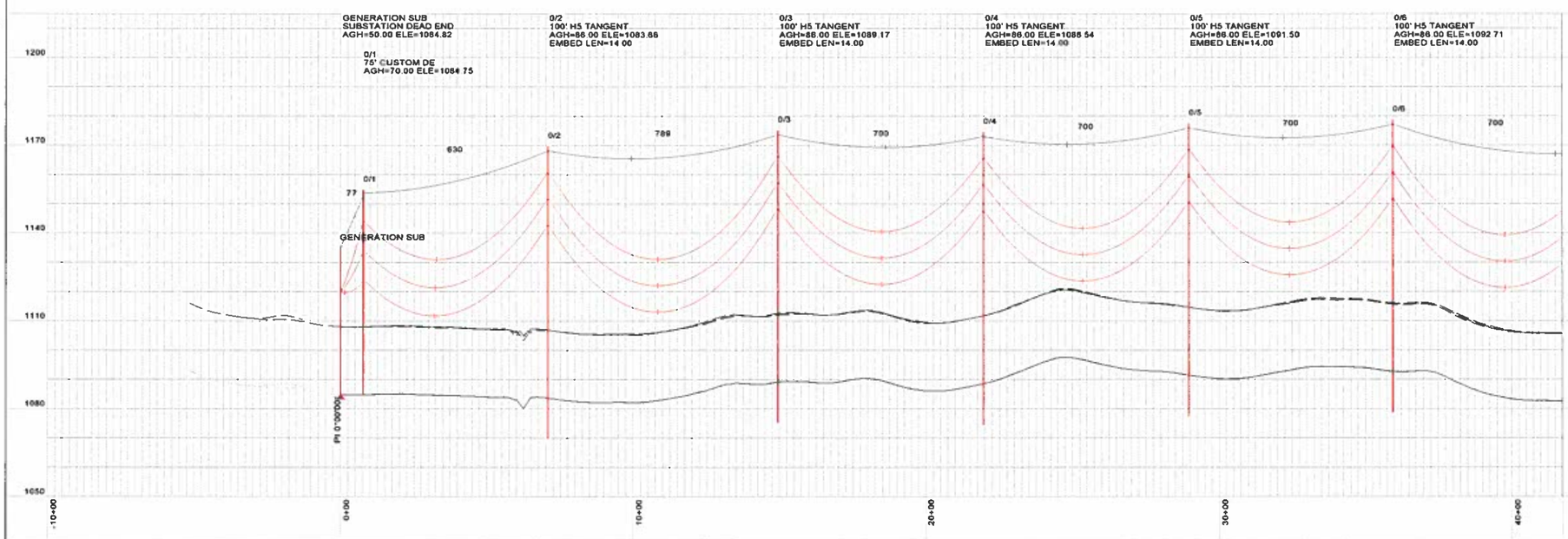
Invenergy

June 3, 2021

DICKINSON WRIGHT PLLC

PLS-CADD DRAWING





PLAN LEGEND:

- STRUCTURE
- 0/1 STRUCTURE NUMBER
- CENTERLINE
- OPGW
  DESIGN MAX TENSION 7000# NESC HVY
- CONDUCTOR 1590 ACSR KCMIL 26/7 "FALCON"
  DESIGN MAX TENSION 12500# NESC HVY
- FENCE
- ARRAY AREA
- ACCESS ROAD CENTERLINE
- COLLECTOR LINE

PROFILE LEGEND:

- OPGW
  DESIGN MAX TENSION 7000# NESC HVY
- CONDUCTOR 1590 ACSR KCMIL 26/7 "FALCON"
  DESIGN MAX TENSION 12500# NESC HVY
- CLEARANCE LINE
- GROUND LINE

P&P NOTES:

1. DESIGN IS PRELIMINARY AND DOES NOT REFLECT FINAL ALIGNMENT, CONDUCTOR SELECTION, STRUCTURE DESIGN, OR HEIGHTS
2. DISPLAYED TEMPERATURE: MAX. OPERATING 212° F (100C), MAX SAG RS
3. SURVEY DATA PUBLICLY AVAILABLE DATA
4. POLE CLASSES ARE BASED ON VALMONT STEEL POLE CATALOG
5. LISTED CONDUCTOR LENGTHS ARE EXACT AND DO NOT INCLUDE PROVISIONS FOR JUMPERS, SPLICES, OR REEL EXCESS

SUMMARY:

TOTAL OPGW LENGTH 14000 FEET

TOTAL CONDUCTOR LENGTH 42000 FEET

TOTAL TRANSMISSION LENGTH 2.6 MILES

TOTAL STRUCTURES 23 + (2) SUBSTATION BAYS

*LENGTHS DO NOT INCLUDE JUMPER LENGTHS, EXTRA LENGTH FOR STRINGING, OR SPARE LENGTH

COORDINATE SYSTEM:

NAD83 OHIO NORTH STATE PLANE, US SURVEY FOOT

DESIGN NOTES:

1. 115KV TRANSMISSION LINE IS DESIGN TO MEET NATIONAL ELECTRIC SAFETY CODE (NESC) 2017 DESIGN REQUIREMENTS.

2. THE BOTTOM PHASE OF THE CONDUCTOR CLEARANCE IS 22.7 FT. ABOVE GROUND LEVEL (20.2 FT. NESC REQUIREMENT + 2.5 FT.) AT THE MAXIMUM OPERATING TEMPARATURE OF THE CONDUCTOR OF 212 DEG. F (100C)

3. ENVIRONMENTAL CONDITIONS CONSIDERED:
ASSUMED NESC HEAVY COMBINED ICE AND WIND LOADING DISTRICT (RULE 250B)
90 MPH EXTREME WIND LOADING (RULE 250C)
0.75" EXTREME ICE WITH 40 MPH CONCURRENT WIND LOADING (RULE 250D)
MAXIMUM OPERATING TEMPERATURE OF 212 F
GRADE B CONSTRUCTION

200.0 FT. HORIZ. SCALE
20.0 FT. VERT. SCALE

Invenergy

PRELIMINARY
NOT FOR
CONSTRUCTION

REV	DATE	DESCRIPTION	DRAWN	CHKD	APPVD
A	06/03/21	10% DESIGN	TJS	TJS	TJS

138 KV TRANSMISSION LINE

PLAN & PROFILE DRAWING
(STRUCTURE: FR #GENERATION SUB TO 0/6)

FOUNTAIN POINT SOLAR
INVENERGY

PROJ NO	SCALE	DWG NO	SHEET	REV
TBD	AS NOTED	FPS-T-T004-1	1	A

PLS-CADD DRAWING

PLAN LEGEND:

- STRUCTURE
- 0/1 STRUCTURE NUMBER
- CENTERLINE
- OPGW
- DESIGN MAX TENSION 7000# NESC HVY
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- ARRAY AREA
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PROFILE LEGEND:

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- DESIGN MAX TENSION 12500# NESC HVY
- CLEARANCE LINE
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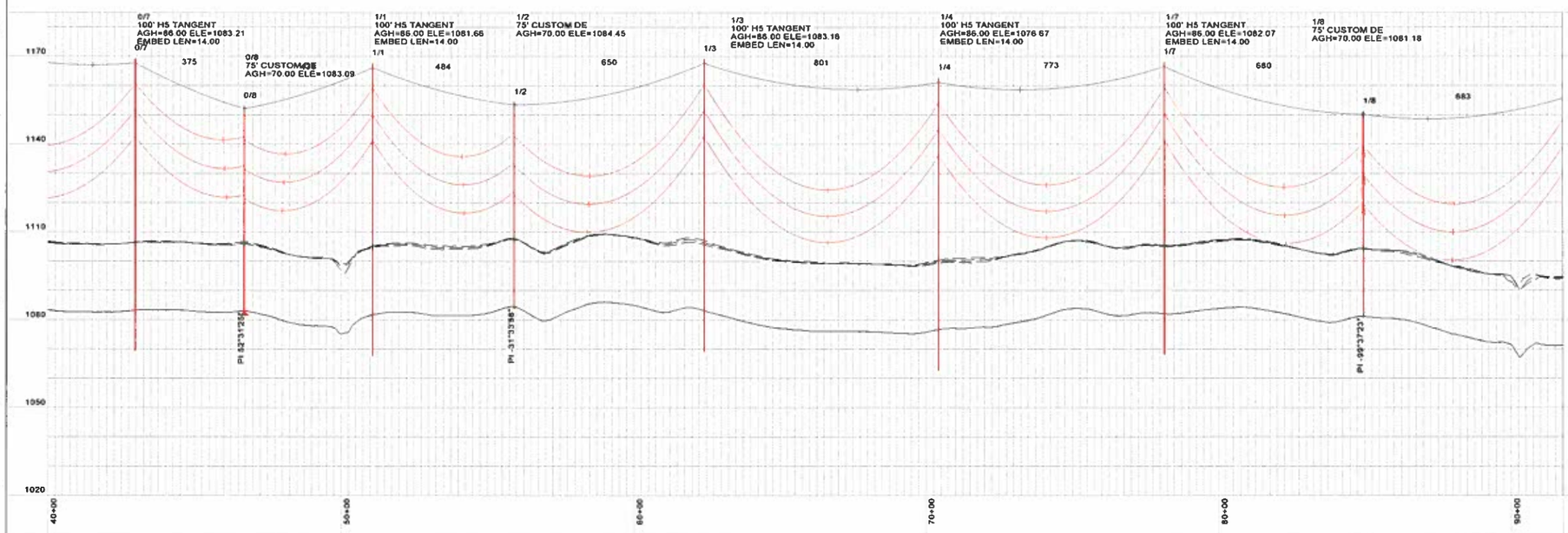

P&P NOTES:

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2. DISPLAYED TEMPERATURE: MAX OPERATING 212° F (100C), MAX SAG RS
3. SURVEY DATA: PUBLICLY AVAILABLE DATA
4. POLE CLASSES ARE BASED ON VALMONT STEEL POLE CATALOG
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SUMMARY:

TOTAL OPGW LENGTH: 14000 FEET

TOTAL CONDUCTOR LENGTH: 42000 FEET

TOTAL TRANSMISSION LENGTH: 2.6 MILES

TOTAL STRUCTURES: 23 + (2) SUBSTATION BAYS

*LENGTHS DO NOT INCLUDE JUMPER LENGTHS, EXTRA LENGTH FOR STRINGING, OR SPARE LENGTH

COORDINATE SYSTEM:

NAD83 OHIO NORTH STATE PLANE, US SURVEY FOOT

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80 MPH EXTREME WIND LOADING (RULE 250C)
0.75" EXTREME ICE WITH 40 MPH CONCURRENT WIND LOADING (RULE 250D)
MAXIMUM OPERATING TEMPERATURE OF 212 F
GRADE B CONSTRUCTION

200.0 FT. HORIZ. SCALE
20.0 FT. VERT. SCALE

Invenergy

PRELIMINARY
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRAWN	CHKD	APPVD
A	06/03/21	10% DESIGN	TJS	TJS	TJS

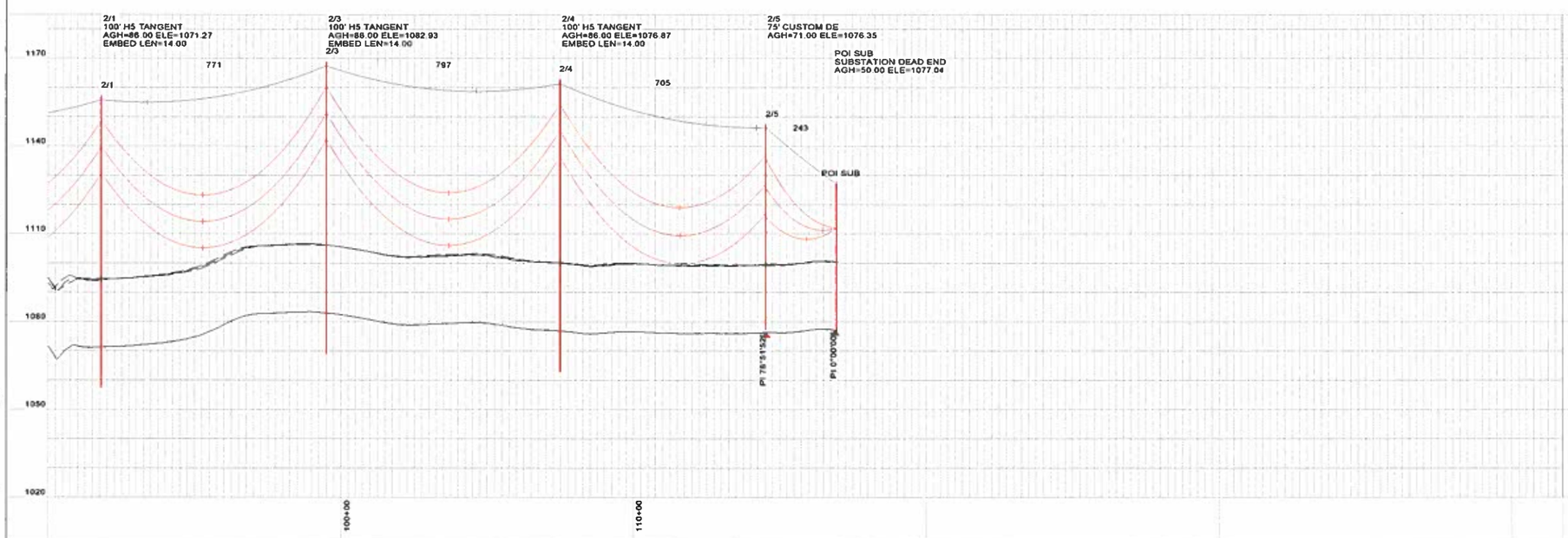
138 KV TRANSMISSION LINE

PLAN & PROFILE DRAWING
(STRUCTURE: FR #0/7 TO 1/8)

FOUNTAIN POINT SOLAR
INVENERGY

PROJ. NO	SCALE	DWG NO	SHEET	REV
TBD	AS NOTED	FPS-T-T004-2	2	A

PLS-CADD DRAWING



PLAN LEGEND:

- STRUCTURE
- 0/1 STRUCTURE NUMBER
- CENTERLINE
- OPGW
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GRADE B CONSTRUCTION

200.0 FT. HORIZ. SCALE
20.0 FT. VERT. SCALE

Invenergy

PRELIMINARY
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV'D
A	08/03/21	10% DESIGN	TJS	TJS	TJS

138 KV TRANSMISSION LINE

PLAN & PROFILE DRAWING
(STRUCTURE: FR #2/1 TO POI SUB)

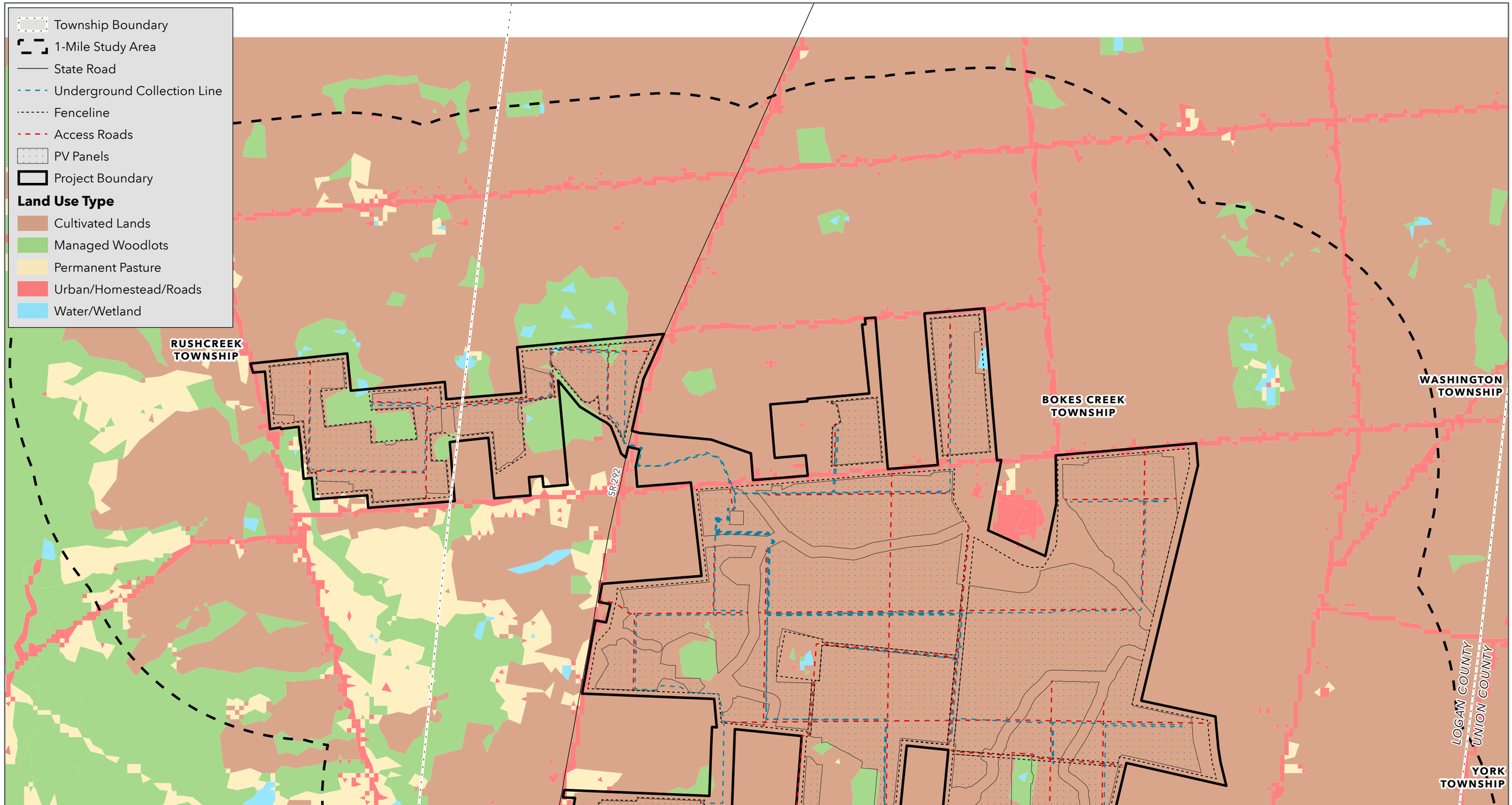
FOUNTAIN POINT SOLAR
INVENERGY

PROJ NO	SCALE	DWG NO	SHEET	REV
TBD	AS NOTED	FPS-T-T004-3	3	A

Attachment 2
Agricultural Land Use Classification

Stantec

DICKINSON WRIGHT PLLC



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Scale: 1:24,000

This map and all data contained within are supplied as is with no warranty. Cardno Inc. expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user's needs. This map was not created as survey data, nor should it be used as such. It is the user's responsibility to obtain proper survey data, prepared by a licensed surveyor, where required by law.

OPSB Land Use Classification
(Sheet 1 of 2)

Fountain Point Solar Energy Project
Logan County, Ohio

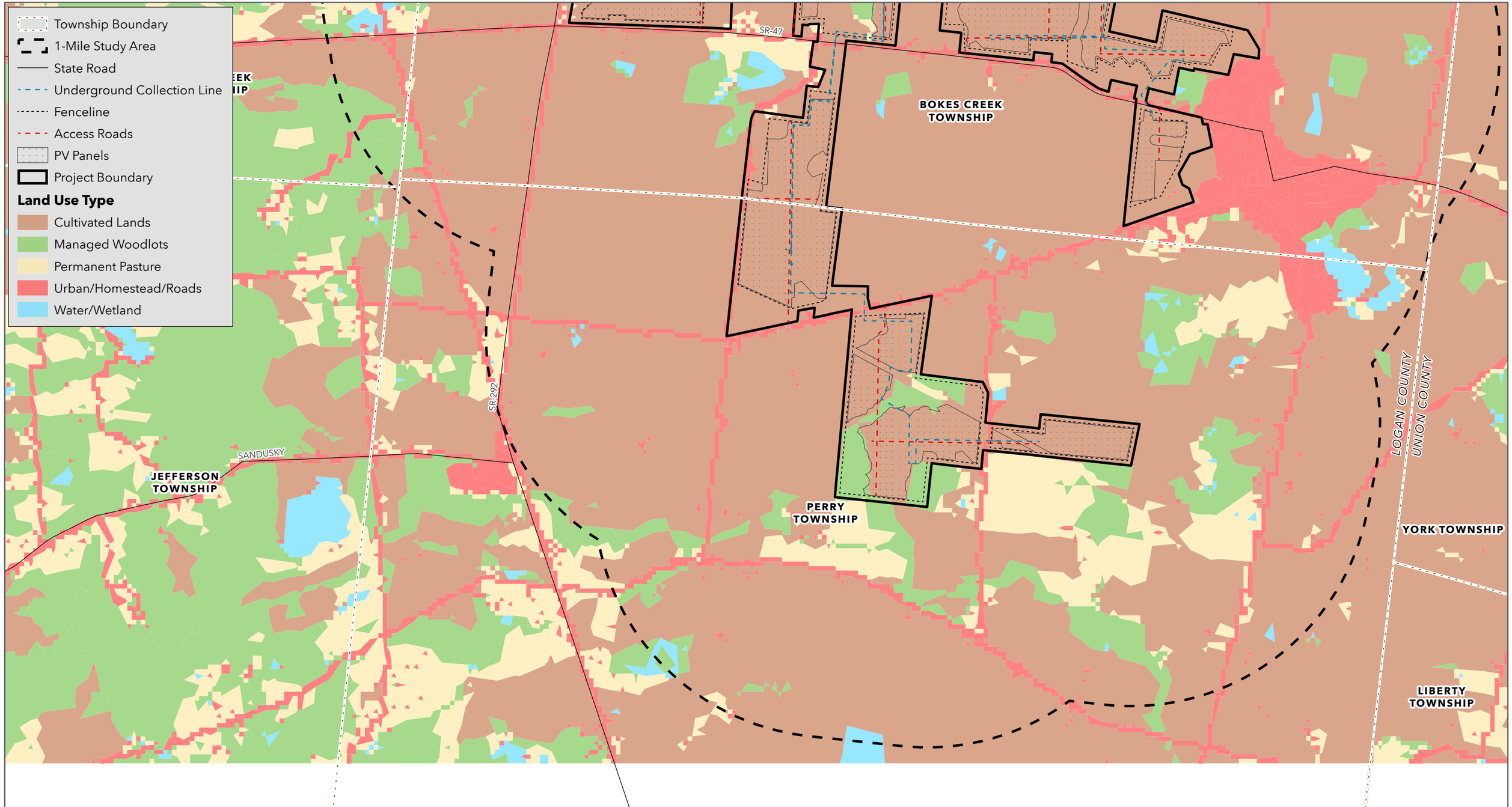
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2 Miles

0 1 2 3 Kilometers

Cardno

now

Stantec



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Scale: 1:24,000

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OPSB Land Use Classification
(Sheet 2 of 2)

Fountain Point Solar Energy Project
Logan County, Ohio

0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2 Miles

0 1 2 3 Kilometers

Cardno

now

Stantec

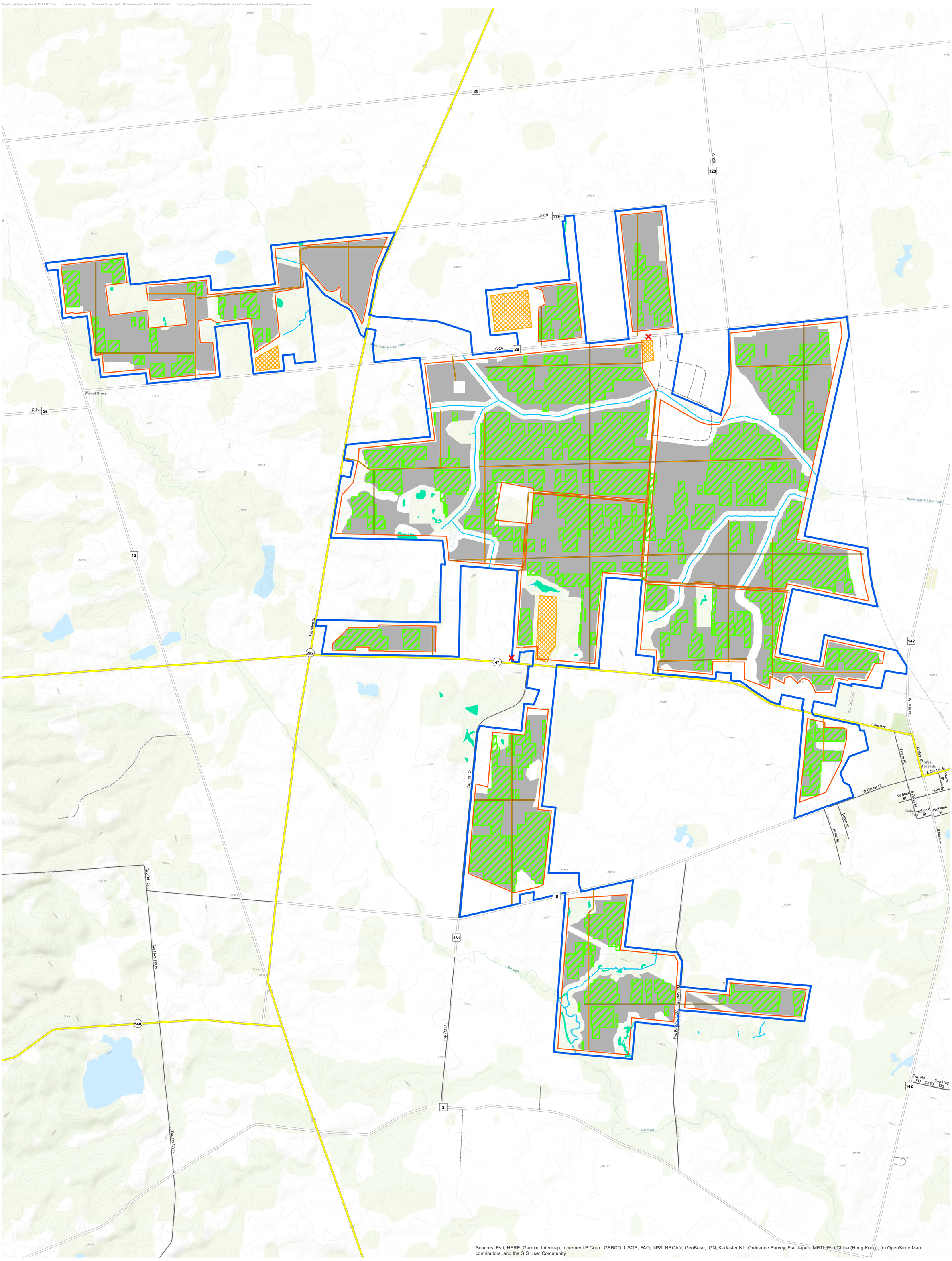
Attachment 3
Preliminary Grading Plan

Invenergy

June 2, 2022

DICKINSON WRIGHT PLLC

Date Saved: Thursday, June 2, 2022 2:27:52 PM Prepared By: CLevy Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet Path: \\az-cgisarc1\GISDOCS_MXDs\US\OH_Solar\FountainPoint\fountainpoint_OPS8_3_projectarea_archD.mxd



Legend

- Construction Access Point
- Access Roads
- Fenceline
- Delineated Streams
- Delineated Wetland
- Preliminary Grading Area
- Laydown and Parking Area
- Proposed Panel Area
- Project Boundary
- County Boundary

Road Classification

- US/State Route
- County Road
- Local Road
- Dirt/Unpaved Road

950 0 950
Feet

Project Layout

Fountain Point Solar Energy Center | Logan County, Ohio

Rev. 00
June 02, 2022

Invenergy

Attachment 4
Example Information for 60% Design
Hardin Solar Energy III, LLC,
Case No. 20-1678-EL-BGN

Kimley-Horn

January 21, 2022

DICKINSON WRIGHT PLLC

PRELIMINARY CIVIL CONSTRUCTION PLANS

FOR

HARDIN III SOLAR

LOCATED IN

HARDIN COUNTY, OH

APPLICANT/PROJECT OWNER

INVENERGY
ONE SOUTH WACKER DRIVE, SUITE 1800
CHICAGO, IL 60606
CONTACT: LAUREN CANNON
PHONE: 312-582-1732

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
7965 N. HIGH STREET SUITE 200
COLUMBUS, OH 43235
CONTACT: CAL CARLSON
PHONE: (331) 310-0039
ENGINEER OF RECORD: MICHAEL REEVES, P.E.

SURVEYOR – ALTA

ATWELL
7100 E. PLEASANT VALLEY ROAD, SUITE 220
INDEPENDENCE, OH 44131
CONTACT: ALEX E. MARKS, PLS
PHONE:(440) 349-2000

SURVEYOR – TOPOGRAPHY

DRONE DEPLOY
1045 BRYANT ST
SAN FRANCISCO, CA 94103
CONTACT: JULIA SOBCZAK
PHONE:(507) 593-7663

SOLAR CONSULTANT

INVENERGY
ONE SOUTH WACKER DRIVE, SUITE 1800
CHICAGO, IL 60606
CONTACT: LAUREN CANNON
PHONE: 312-582-1732

CONTRACTOR

RES CONSTRUCTION
11101 W 120TH AVE, SUITE #400
BROOMFIELD, CO 80021
CONTACT:DARREN PENCE
PHONE: (720) 543 2131

GEOTECHNICAL REPORT

THE GEOTECHNICAL ENGINEERING REPORT FOR THE HARDIN III SOLAR ENERGY CENTER, LLC PROJECT, HARDIN COUNTY OHIO, PREPARED BY TERRACON, DATED 03/12/2021, AND ALL ADDENDA SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS.

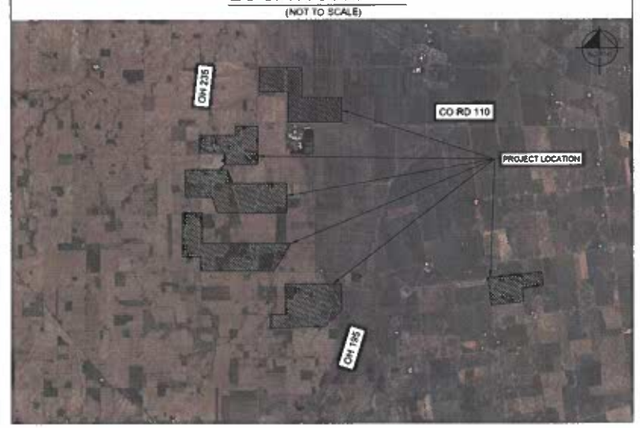
SITE INFORMATION

PROJECT DESCRIPTION:
250-MW SINGLE AXIS TRACKER SOLAR ARRAY PROJECT

PARCEL ZONING:
THE PROJECT AREA IS NOT CURRENTLY ZONED PER HARDIN COUNTY, MARION TOWNSHIP, ROUNDHEAD TOWNSHIP AND MCDONALD TOWNSHIP ADMINISTRATORS.

SETBACK TABLE	
FEET TO FENCE	FEATURE
50	CULTURAL RESOURCES
50	DELINEATED WETLANDS
100	ROAD RIGHT-OF-WAY
300	RESIDENCES
5	UTILITY T-LINE ROW
200	NON-PARTICIPATING PARCELS
40	PROJECT TRANSMISSION LINE
ROW	UTILITY DISTRIBUTION LINE
80	OTHER BUILDINGS

LOCATION MAP
(NOT TO SCALE)



STATE COUNTY MAP
(NOT TO SCALE)

Sheet List Table	
Sheet Number	Sheet Title
C-100	COVER SHEET
C-200	GENERAL NOTES
C-300	EROSION CONTROL PLAN - OVERALL
C-301	EROSION CONTROL PLAN
C-302	EROSION CONTROL PLAN
C-303	EROSION CONTROL PLAN
C-304	EROSION CONTROL PLAN
C-305	EROSION CONTROL PLAN
C-306	EROSION CONTROL PLAN
C-307	EROSION CONTROL PLAN
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COVER SHEET

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-100

Drawing name: K:\Jac_CAD\Solar\DES\168754044_Invenergy_Hardin III solar_phase 2\Design\CAD\cover sheet\CV.dwg C-100 Jan 21, 2022 11:58am by Evan Zemelka
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GENERAL CONSTRUCTION NOTES

1. EXISTING UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY PREPARED ON 11/02/2020 BY:

   ATWELL
   7100 E. PLEASANT VALLEY ROAD, SUITE 220
   INDEPENDENCE, OH 44131
   CONTACT: ALEX E. MARKS, PLS
   PHONE: (440) 349-2000

2. EXISTING TOPOGRAPHY WAS OBTAINED VIA AERIAL DRONE SURVEY AND PROVIDED BY DRONEDEPLOY.

3. COPIES OF THE SURVEY CAN BE PROVIDED, IF REQUESTED. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ONLY AREAS INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

5. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE ALTA SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK AND PRIOR TO THE COMMENCEMENT OF THE WORK.

6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

8. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

9. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING RECORD INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING FIELD NOTES AND SURVEY VERIFICATION TO THE ENGINEER. ENGINEER WILL PREPARE RECORD DRAWINGS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR. THE RECORD DRAWINGS WILL NOT BE AN "AS-BUILT" DRAWING AND NO FIELD VERIFICATION WILL BE COMPLETED BY THE ENGINEER.

11. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.

12. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.

2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.

3. NO TREES SHALL BE REMOVED DURING PROJECT CONSTRUCTION. TREE PROTECTION FENCING SHOULD BE INSTALLED AS NECESSARY PRIOR TO THE COMMENCEMENT IN THE AREA OF WORK.

4. CONTRACTOR SHALL ADJUST GRADE OF ANY EXISTING UTILITIES TO REMAIN.

5. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY SERVICES DIRECTLY IMPACTED BY CONTRACTOR'S CONSTRUCTION ACTIVITIES TO ADJACENT PROPERTIES AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM OWNER IN COORDINATION WITH ADJACENT PROPERTIES AND/OR LOCAL JURISDICTION.

6. CONTRACTOR TO COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR ODOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND REPAIRED TO EXISTING CONDITION OR BETTER, WITH THE EXCEPTION OF COUNTY ROADS.

3. TRAFFIC CONTROL ON ALL ODOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE TO THESE ELEVATIONS IN THE IFC CIVIL CONSTRUCTION DRAWINGS PER THE TOPO DATA AND SHALL REGRADE TO THESE ELEVATIONS UNTIL ADEQUATE STABILIZATION OCCURS.

5. ALL AREAS INDICATED ACCESS ROADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL SITE ACCESS ROAD DETAILS AS INDICATED ON THE DRAWINGS.

6. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES THAT DISCHARGE OFF-SITE WITH POTENTIAL TO CARRY SEDIMENT BEYOND THE LIMITS OF DISTURBANCE FOR THE DURATION OF CONSTRUCTION AND UNTIL SUBSTANTIAL COMPLETION. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

7. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS.

8. IN AREAS WHERE MASS GRADING IS BEING PERFORMED WITHIN THE PV ARRAY, CONTRACTOR SHALL STRIP TOPSOIL AND ORGANIC MATTER TO A MINIMUM DEPTH OF 8". STRIPPED TOPSOIL AND ORGANIC MATTER SHALL BE REPLACED AFTER THE SUBGRADE HAS BEEN CORRECTED. IN AREAS OF ACCESS ROAD OR INVERTER FOUNDATION CONSTRUCTION STRIP ALL TOPSOIL AND ORGANIC MATTER. CONSULT WITH PROJECT GEOTECHNICAL ENGINEER IF TOPSOIL AND ORGANIC MATERIAL EXCEED 8" IN DEPTH IN THESE AREAS.

9. FIELD DENSITY TESTS SHALL BE TAKEN AND RECORDED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

10. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE STABILIZED BY MEANS AND METHODS APPROVED BY THE LOCAL AGENCY.

11. ALL SLOPES SHALL BE 3 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

13. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS OF THE GOVERNING CODE.

14. EXPOSED SLOPES GREATER THAN 4:1 SHOULD BE STABILIZED WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.

15. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE REQUIRED PERMITS COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY GOVERNING JURISDICTIONS.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF OHIO NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP.

4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

5. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

6. ALL CONCRETE WASH OUT WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

7. CONTRACTOR SHALL PREPARE AND FOLLOW A SPILL PREVENTION, CONTROL, AND COUNTERMEASURES PLAN (SPCC) IN ACCORDANCE WITH THE EPA OIL POLLUTION PREVENTION, GENERAL REQUIREMENTS FOR SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLANS (40 CFR 112.7).

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

9. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

10. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

11. SITE STABILIZATION REQUIREMENTS ARE AS FOLLOWS:

    11.1. PERMANENT STABILIZATION:
    - 11.1.1. ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF THE MOST RECENT DISTURBANCE.
    - 11.1.2. ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF REACHING FINAL GRADE.
    - 11.1.3. OTHER AREAS AT FINAL GRADE SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.

    11.2. TEMPORARY STABILIZATION:
    - 11.2.1. ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE SHALL BE TEMPORARILY STABILIZED WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS.
    - 11.2.2. ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE SHALL BE TEMPORARILY STABILIZED WITHIN 14 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA.

12. ALL CONTROL DEVICES THAT FUNCTION SIMILARLY TO SILT FENCE OR FIBER ROLLS MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH EFFECTIVE CONTROLS WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES ONE-THIRD THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF THE RAINFALL EVENT OF AS SOON AS FIELD CONDITIONS ALLOW ACCESS.

13. ALL SEDIMENT DELTAS AND DEPOSITS MUST BE REMOVED FROM SURFACE WATERS, DRAINAGE WAYS, CATCH BASINS AND OTHER DRAINAGE SYSTEMS. ALL AREAS WHERE SEDIMENT REMOVAL RESULTED IN EXPOSED SOIL MUST BE RESTABILIZED. THE REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS AFTER THE RAINFALL EVENT UNLESS PRECLUDED BY LEGAL, REGULATORY OR PHYSICAL ACCESS CONSTRAINTS. ALL REASONABLE EFFORTS MUST BE USED TO OBTAIN ACCESS. ONCE ACCESS IS OBTAINED, REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS LATER. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL APPROPRIATE AUTHORITIES AND RECEIVING THE APPLICABLE PERMITS PRIOR TO CONDUCTING ANY WORK.

14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, PUBLIC ROADS SHALL BE SWEPT AND EXCESS SEDIMENT SHALL NOT LEAVE THE SITE. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT CAUSED BY CONSTRUCTION THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

17. ON-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

18. STOCKPILES TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE PROVIDED WITH SOIL EROSION AND SOIL CONTROL MEASURES. MATERIAL IS TO BE HAULED OFF IMMEDIATELY AND LEGALLY IF NO STOCKPILE IS TO REMAIN IN PLACE.

19. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.

20. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

21. IF GRADE CHANGES ARE NECESSARY DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.

EROSION CONTROL NOTES (CONTINUED)

23. DURING GRADING OR WORKING IN LARGE, FLAT AREAS, THE CONTRACTOR SHALL STABILIZE THESE AREAS AS QUICKLY AS POSSIBLE. IF EROSION BECOMES A CONCERN, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES, INCLUDING, BUT NOT LIMITED TO:
    - FILTER SOCKS OR SILT FENCE STAKED PARALLEL TO THE SLOPE SPACED AT INTERVALS TO SLOW DOWN THE FLOW OF WATER AND DISSIPATE THE FLOW.
    - ADDITIONAL TEMPORARY SEEDING
    - CRIMPING AND SEEDING
    - EARTH DIKES AND ROCK CHECK DAMS TO COLLECT AND STORE WATER TO REDUCE THE AMOUNT OF WATER FLOWING ACROSS THE SLOPED AREAS
    - ADDITIONAL MEASURES AS APPROVED BY THE PROJECT ENGINEER
    - BMP INSPECTION IS REQUIRED ONCE A WEEK AND WITHIN 24-HOURS OF A 0.5" RAIN EVENT.

EROSION CONTROL MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE CHECKED BY A QUALIFIED PERSON ON A SCHEDULE THAT MEETS OR EXCEEDS THE GOVERNING REQUIREMENTS, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE WATERED AND RESEEDED AS NEEDED.

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

6. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER.

PROJECT CLOSEOUT NOTES

1. CONTRACTOR SHALL PROVIDE THE NECESSARY ITEMS INCLUDING ANY TESTING, REPORTS, OR CERTIFICATION DOCUMENTS REQUIRED BY THE GOVERNING JURISDICTIONS TO PROPERLY CLOSEOUT THE PROJECT BEFORE IT CAN BE DEEMED COMPLETE.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING INFORMATION OF CHANGES TO APPROVED PLANS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RECORD DRAWINGS TO THE ENGINEER AND OWNER AT THE COMPLETION OF CONSTRUCTION. THIS RECORD INFORMATION WILL BE USED TO PRODUCE RECORD / AS-BUILT DRAWINGS, AS REQUIRED.

DRAIN TILE NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT DRAIN TILES MAY BE PRESENT IN AGRICULTURAL FIELDS. THE LOCATION AND/OR ELEVATION OF POTENTIAL DRAIN TILES ARE UNKNOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN EXISTING DRAIN TILE MAPS FROM THE LAND OWNERS AND LOCATE EXISTING DRAIN TILES PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR SHALL SPECIFICALLY LOCATE AND PROTECT PERIMETER DRAIN TILE MAIN LINES THAT ARE MUTUALLY BENEFICIAL FOR DRAINING THE PROJECT SITE AND THE ADJACENT PROPERTIES.

3. PROPOSED BMPS, INCLUDING BUT NOT LIMITED TO GRAVEL SWALES AND NEW DRAIN TILE, SHOULD BE ROUTED FROM AREAS OF HIGH INUNDATION OUT OF PANEL AREAS TO EXISTING PERIMETER DRAIN TILE MAIN LINES.

4. CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY IF ADDITIONAL ENGINEERING IS REQUIRED BASED ON UNFORESEEN SITE CONDITIONS.

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GENERAL NOTES

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-200

Drawing name: K:\Alm_Land\Solar\RES\168754044_Invenergy_Hardin III solar_v013 Design\CAD\general\C01.dwg C-200 Jan 21, 2022 11:56am by Evan Zemaitis
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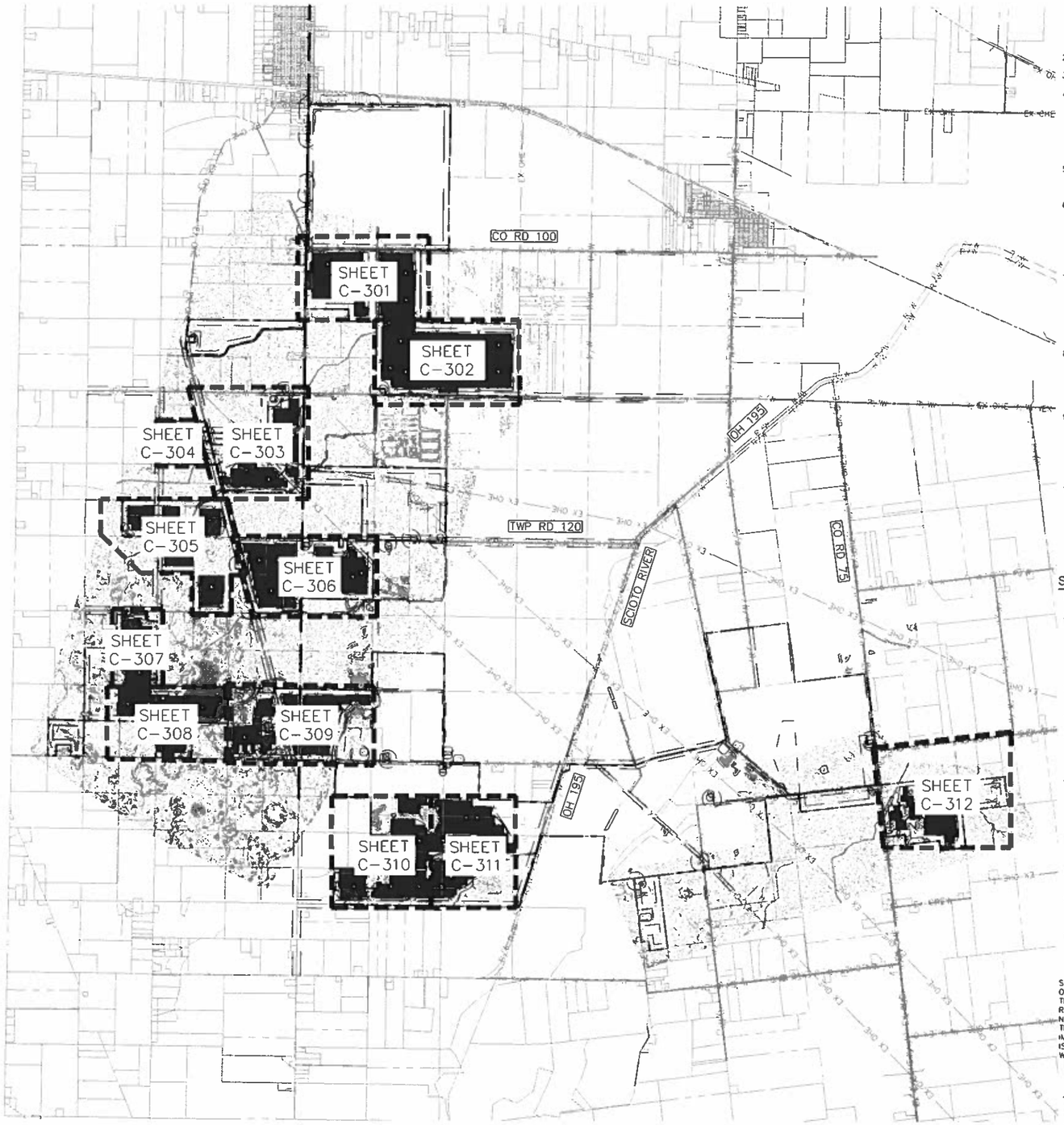

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE, MAINTAIN, AND INDICATE ON THIS PLAN:
   A. CONTAINER AND MATERIALS STORAGE AREA
   B. FUELING AREA
   C. STOCKPILE LOCATIONS
   D. SANITARY AREA
   E. CONCRETE WASTE MANAGEMENT
   F. TRASH STORAGE AREA
   G. LAYDOWN & CONSTRUCTION TRAILER AREAS
   H. (OTHER APPROPRIATE BEST MANAGEMENT PRACTICES)
2. PRIOR TO CONSTRUCTION, SITE IS AGRICULTURAL LAND
3. REFER TO SHEET C-200 FOR ADDITIONAL GENERAL NOTES.
4. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES (OR APPROVED EQUIVALENT MEASURES) AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN PREPARED BY KIMLEY-HORN.
5. THIS PLAN SHOULD BE UPDATED AS NEEDED BY THE CONTRACTOR TO PROPERLY ACCOMMODATE FIELD CONDITIONS DETERMINED ON SITE AND THROUGHOUT CONSTRUCTION ACTIVITIES
6. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE STORMWATER POLLUTION PREVENTION PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY SITE CONDITIONS THROUGHOUT ALL PHASES OF CONSTRUCTION. THIS PLAN SHEET SHOULD BE UPDATED AS NEEDED BY THE CONTRACTOR TO PROPERLY ACCOMMODATE FIELD CONDITIONS DETERMINED ON SITE AND THROUGHOUT CONSTRUCTION ACTIVITIES
7. NO LAND SHALL BE DISTURBED UNTIL THE PLAN IS APPROVED BY THE STATE AND/OR CONFORMS TO THE STANDARDS SET FORTH HEREIN. ALL PLANS SHALL BE CONSISTENT WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION PERMIT (NPDES CONSTRUCTION GENERAL PERMIT) REQUIREMENTS, AND THE FILING OR APPROVAL REQUIREMENTS OF RELEVANT WATERSHED DISTRICTS, WATERSHED MANAGEMENT ORGANIZATIONS, DRAIN AUTHORITIES, OR OTHER REGULATORY BODIES.
8. EXPOSED SOILS MUST BE TEMPORARILY STABILIZED WHERE NO CONSTRUCTION ACTIVITIES WILL OCCUR FOR A PERIOD OF 14 DAYS OR MORE. STABILIZING MUST OCCUR WITHIN 14 DAYS OF THE LAST CONSTRUCTION ACTIVITY. CONTRACTOR SHALL USE STRAW MULCH, EROSION CONTROL BLANKET OR EQUIVALENT APPROVED METHODS AS NEEDED FOR STABILIZATION.
9. ALL CONTROL DEVICES THAT FUNCTION SIMILARLY TO SILT FENCE OR FIBER ROLLS MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH EFFECTIVE CONTROLS WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES ONE-THIRD THE HEIGHTS OF THE DEVICE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF THE RAINFALL EVENT OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
10. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS; SITE CONDITIONS MAY REQUIRE ADDITIONAL BMP'S TO BE ADDED TO MAINTAIN COMPLIANCE. THE CONTRACTOR IS TO IMPLEMENT, MAINTAIN, AND UPDATE THE EROSION CONTROL PLAN AND THE SWPPP AS NEEDED FOR COMPLIANCE. ANY UPDATES AND ADDITIONAL BMP'S REQUIRED TO MAINTAIN COMPLIANCE WILL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

SEQUENCE OF CONSTRUCTION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. PREPARE TEMPORARY PARKING AND STORAGE AREAS, UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE, WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC. DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
3. INSTALL SILT FENCE, SILT FENCE ROCK OUTLETS, EARTHEN DAMS, EMERGENCY SPILLWAYS, AND FILTER SOCK.
4. INSTALL SEDIMENT BASINS.
5. CLEAR/GRADE THE SITE AS NECESSARY. TEMPORARILY SEED DISTURBED AREAS, THROUGHOUT CONSTRUCTION, THAT WILL BE INACTIVE FOR 14 DAYS OR MORE OR AS REQUIRED BY THE GENERAL PERMIT.
6. STABILIZATION OF ALL EXPOSED SOIL AREAS MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION BUT IN NO CASE COMPLETED LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
7. BEGIN GRADING AND CONSTRUCTING ACCESS ROADS, PILE DRIVING, RACKING INSTALLATIONS, SOLAR MODULE PLACEMENT, FENCING, UTILITY POLE AND OVERHEAD WIRES, AND UTILITY TRENCHING.
8. PROVIDE PERMANENT SEEDING/STABILIZATION PER THE LANDSCAPE PLAN.
9. ALL STOCKPILES ARE TO BE REMOVED AS PART OF THE PERMANENT STABILIZATION OF THE SITE. NO TOP SOIL SHOULD LEAVE THE SITE DURING CONSTRUCTION.
10. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES. SILT FENCE AND OTHER BMP'S MAY BE REMOVED ONCE AREAS UPSTREAM OF THE BMP'S HAVE ACHIEVED 70% STABILIZATION.

SEQUENCE OF CONSTRUCTION INCLUDED ABOVE IS A GENERAL OVERVIEW, AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION IF ANY ADDITIONAL DETAIL IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH AHJ REQUIREMENTS.

TEMPORARY LAYDOWN AREA CONVERSION SEQUENCE

1. ONCE CONSTRUCTION IS COMPLETE, REMOVE GRAVEL FROM TEMPORARY LAYDOWN AREA.
2. RIP AND/OR SCARIFY SOIL AT A DEPTH OF AT LEAST 12" BELOW GRADE.
3. REPLACE TOP SOIL TO ORIGINAL DEPTH.
4. USE SOIL AMENDMENTS, AS NECESSARY, TO BRING SOIL BACK TO ORIGINAL CONDITION.
5. PROVIDE PERMANENT SEEDING. REFER TO LANDSCAPE PLAN.

NORTH

GRAPHIC SCALE IN FEET
0 1000 2000 4000

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
- EX. TREE LINE
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- EX. FLOW (DIRECTION AND SLOPE)
- PR. CONTOURS
- PR. FLOW (DIRECTION AND SLOPE)
- PR. GRADING AREA
- PR. GRAVEL ACCESS ROAD
- PR. INVERTER
- PR. FENCE
- LIMITS OF DISTURBANCE
- WIRE BACKED SILT FENCE
- SUPER SILT FENCE
- SILT FENCE ROCK OUTLET
- PR. LAYDOWN AREA
- CONSTRUCTION ENTRANCE
- PR. STORMWATER PIPE
- PR. FILTER SOCK
- PR. EARTH BERM
- TEMPORARY DIVERSION DITCH
- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.
(B) TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-800.
(C) SILT FENCE ROCK OUTLET, SEE DETAIL 1, SHEET C-800.
(D) FILTER SOCK, SEE DETAIL 3, SHEET C-800.
(E) PRELIMINARY LOCATION OF LAYDOWN AREAS. LAYDOWN AREAS UP TO CONTRACTOR DISCRETION BASED ON SITE CONDITIONS, SEE DETAIL 3, SHEET C-803.
(F) TEMPORARY SEDIMENTATION BASIN, SEE DETAIL 3, SHEET C-801.
(G) TEMPORARY DIVERSION DITCH, SEE DETAIL 7, SHEET C-801.
(H) SUPER SILT FENCE, SEE DETAIL 4, SHEET C-801.

GENERAL NOTES

1. 60% PLANS SHOW LOW WATER CROSSINGS AT ALL ROAD AREAS WITH HIGH FLOW. IN 90% DESIGN, SOME LOW WATER CROSSINGS WILL BE UPGRADED TO ELEVATED ROADS WITH CULVERTS. THIS WILL BE BASED ON THE LIKELIHOOD OF WATER PONDING ON THE ROAD AND POTENTIAL FOR INUNDATION TO BACKUP INTO THE ARRAY AREA. AN ENGINEERING ANALYSIS OF THE FLOW FOR BOTH THE CULVERTS AND THE LOW WATER CROSSINGS WILL ALSO BE INCLUDED IN 90% DESIGN.

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ROY SHALEY-HORN AND ASSOCIATES, INC.
7965 N HIGH STREET, SUITE 200
COLUMBUS, OH 43235
PHONE: 630-487-5550
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SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

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EROSION CONTROL PLAN - OVERALL

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-300

Drawing name: K:\den_civil\Solar\MES\168754044_Hardin III solar.sft\2 Design\CAD\plansheets\EC-Div.dwg C-300 Jan 21, 2022 11:58am by: Evan.Jamolice
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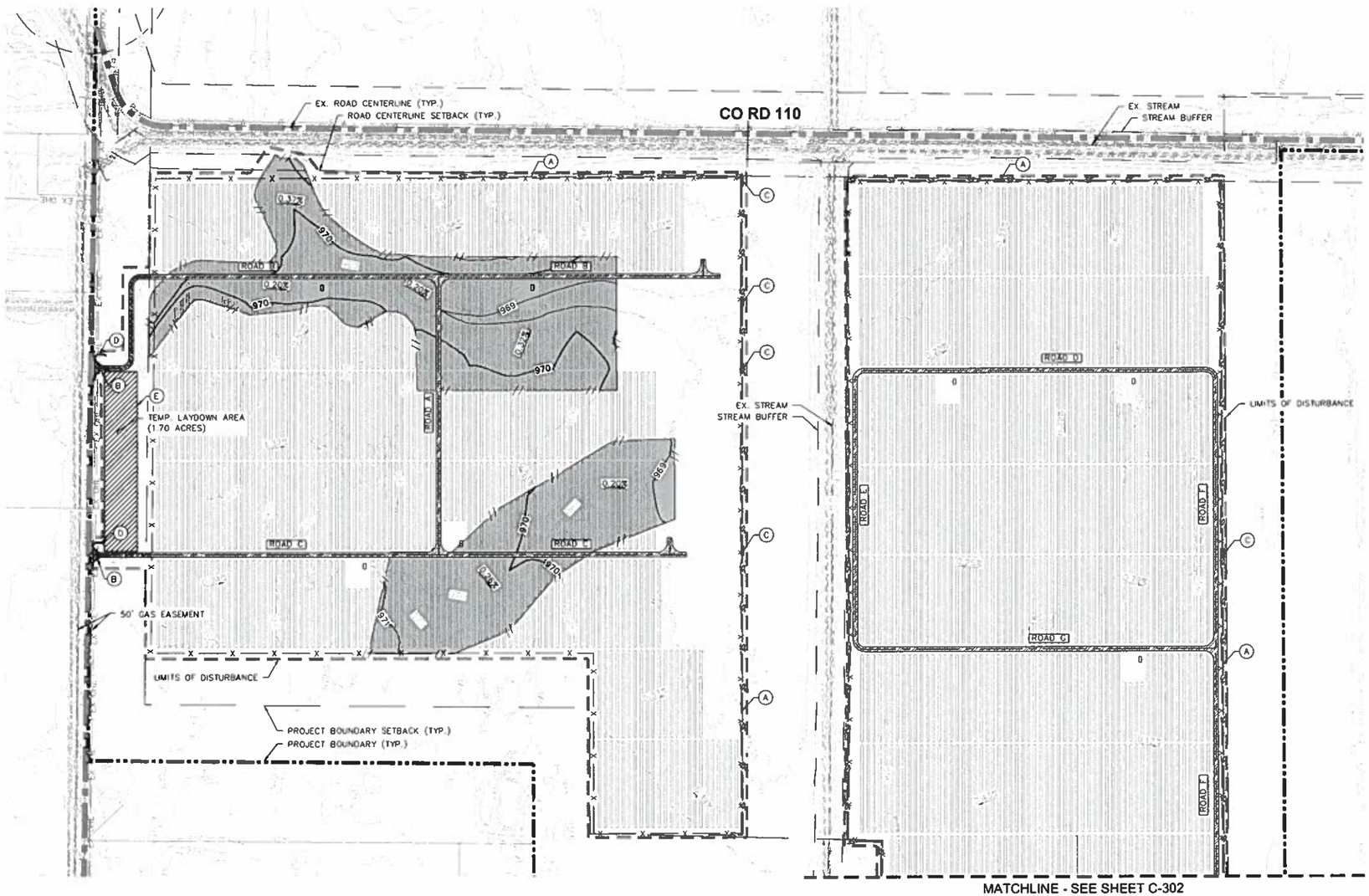

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
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- PR. STORMWATER PIPE
- PR. FILTER SOCK
- PR. EARTH BERM
- TEMPORARY DIVERSION DITCH
- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.

(B) TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-800.

(C) SILT FENCE ROCK OUTLET, SEE DETAIL 1, SHEET C-800.

(D) FILTER SOCK, SEE DETAIL 3, SHEET C-800.

(E) PRELIMINARY LOCATION OF LAYDOWN AREAS. LAYDOWN AREAS UP TO CONTRACTOR DISCRETION BASED ON SITE CONDITIONS, SEE DETAIL 3, SHEET C-803.

(F) TEMPORARY SEDIMENTATION BASIN, SEE DETAIL 3, SHEET C-801.

(G) TEMPORARY DIVERSION DITCH, SEE DETAIL 7, SHEET C-801.

(H) SUPER SILT FENCE, SEE DETAIL 4, SHEET C-801.

GENERAL NOTES

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KEY MAP

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7965 N HIGH STREET, SUITE 200
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SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: DPC

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EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-301

Drawing name: K:\Dev_civil\Solar\MEC\168754044_ownership_hardin iii solar_civil\2 Design\CAD\layout\EC-plan.dwg C-301 Jan 21, 2022 11:58am by: Evan.Simonis
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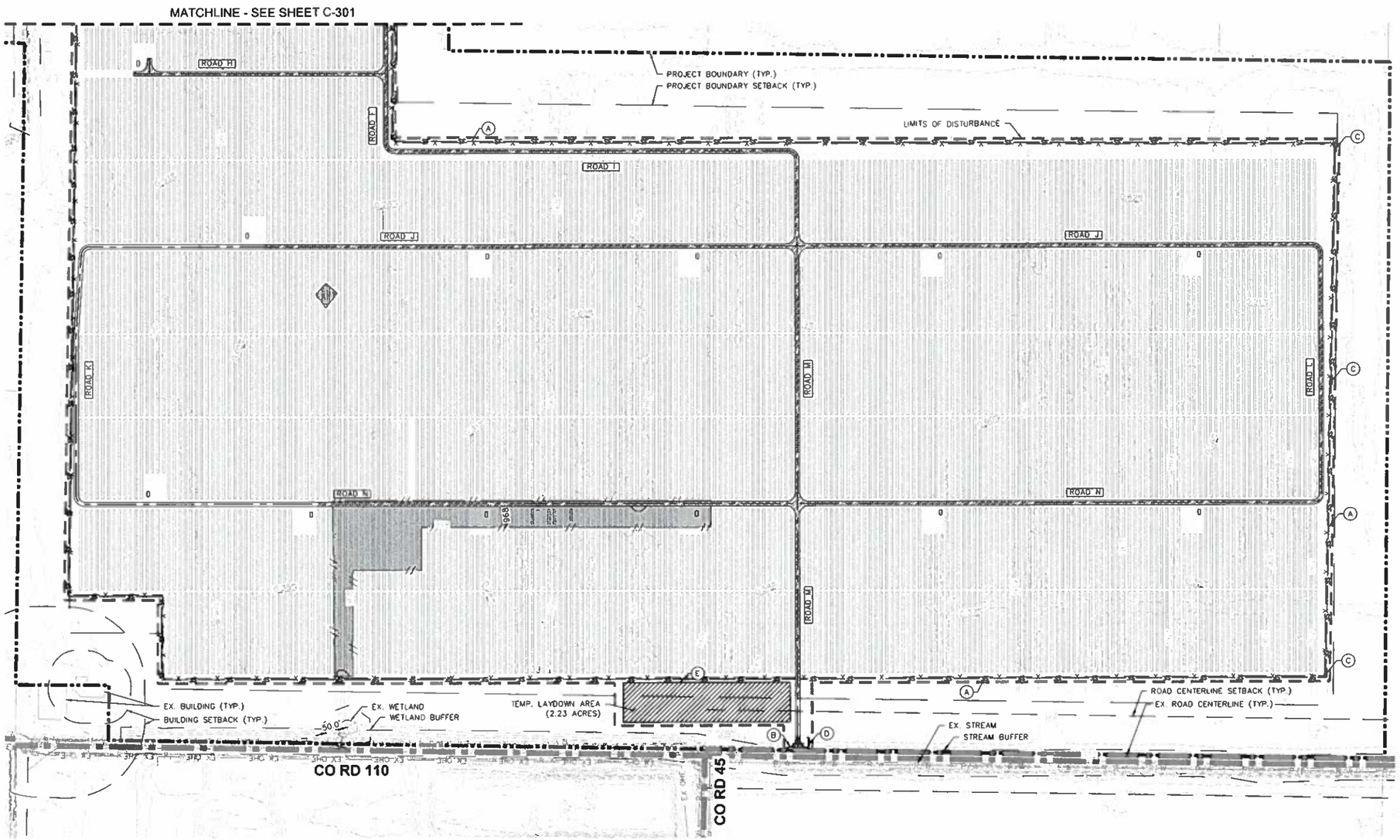

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
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- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.

(B) TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-800.

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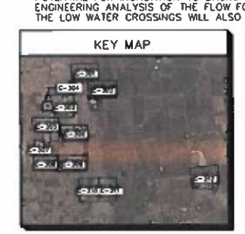
KEY MAP



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EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-302

Drawing name: s:\ohc_civil\Solar\RES\168754044_inverterpad_hardin is solar_pdf\3 Design\CAD\plansheets\C-302 - Hardin.dwg C-302 Jan 21, 2022 11:58am by Evan.Tomasko
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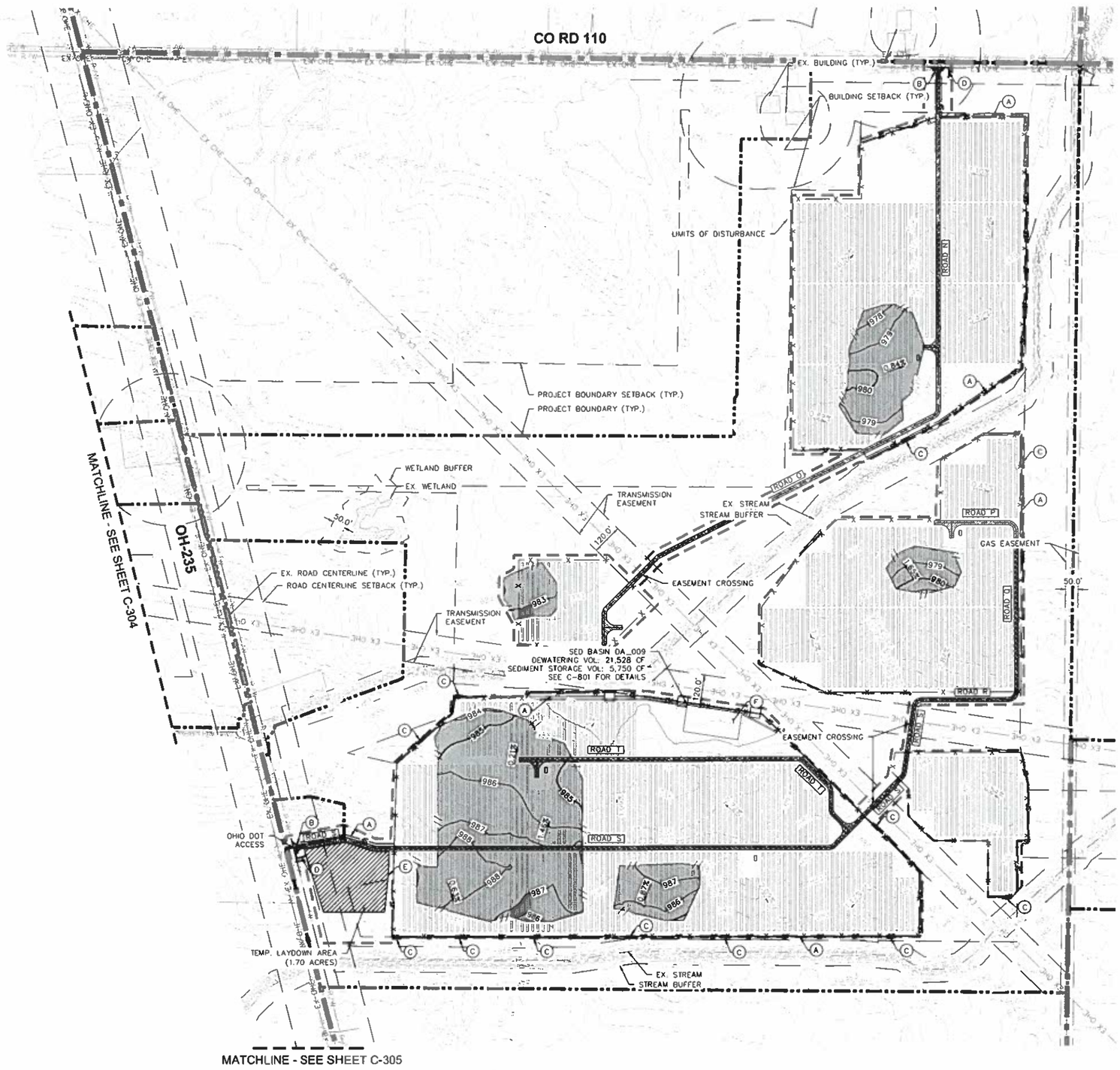

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
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- PR. STORMWATER PIPE
- PR. FILTER SOCK
- PR. EARTH BERM
- TEMPORARY DIVERSION DITCH
- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.
(B) TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-800.
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(F) TEMPORARY SEDIMENTATION BASIN, SEE DETAIL 3, SHEET C-801.
(G) TEMPORARY DIVERSION DITCH, SEE DETAIL 7, SHEET C-801.
(H) SUPER SILT FENCE, SEE DETAIL 4, SHEET C-801.

GENERAL NOTES

1. 60% PLANS SHOW LOW WATER CROSSINGS AT ALL ROAD AREAS WITH HIGH FLOW IN 90% DESIGN. SOME LOW WATER CROSSINGS WILL BE UPGRADED TO ELEVATED ROADS WITH CULVERTS. THIS WILL BE BASED ON THE LIKELIHOOD OF WATER PONDING ON THE ROAD AND POTENTIAL FOR INUNDATION TO BACKUP INTO THE ARRAY AREA. AN ENGINEERING ANALYSIS OF THE FLOW FOR BOTH THE CULVERTS AND THE LOW WATER CROSSINGS WILL ALSO BE INCLUDED IN 90% DESIGN

KEY MAP

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7965 N. HIGH STREET, SUITE 200
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SCALE: AS NOTED
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EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-303

Drawing name: K:\pro_civil\RES\168754044_inverntory_hardin ■ solar_all12 Design\CAD\plansheet\C-North.dwg C-303 Jan 21, 2022 11:58am by: Evan Zemanka
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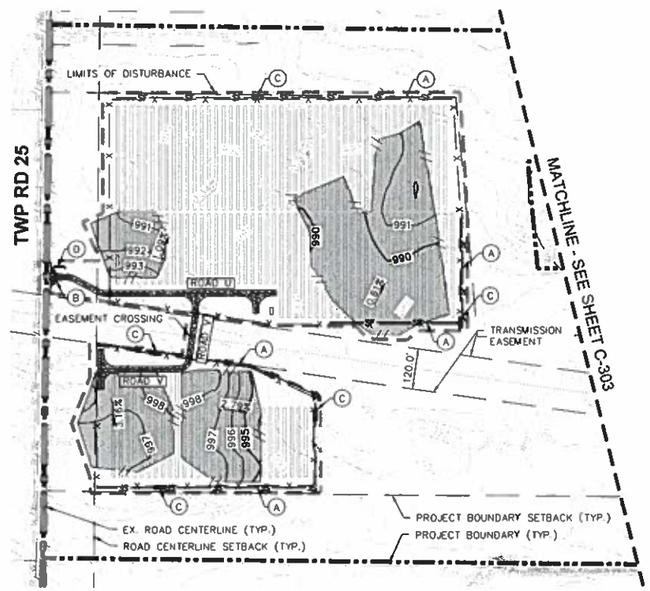

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

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- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.

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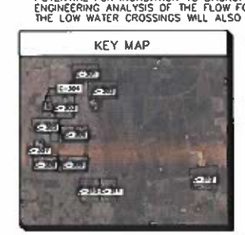
KEY MAP



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DRAWN BY: AJH
CHECKED BY: CPC

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PREPARED FOR:
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power for good

EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-304

Drawing name: K:\cvo_civil\Solar\AES\168754044_prevents-hydro at new wh\3 Design\CAD\Layouts\C-North.dwg C-304 Jan 21, 2022 11:54am by Evan Zemicka
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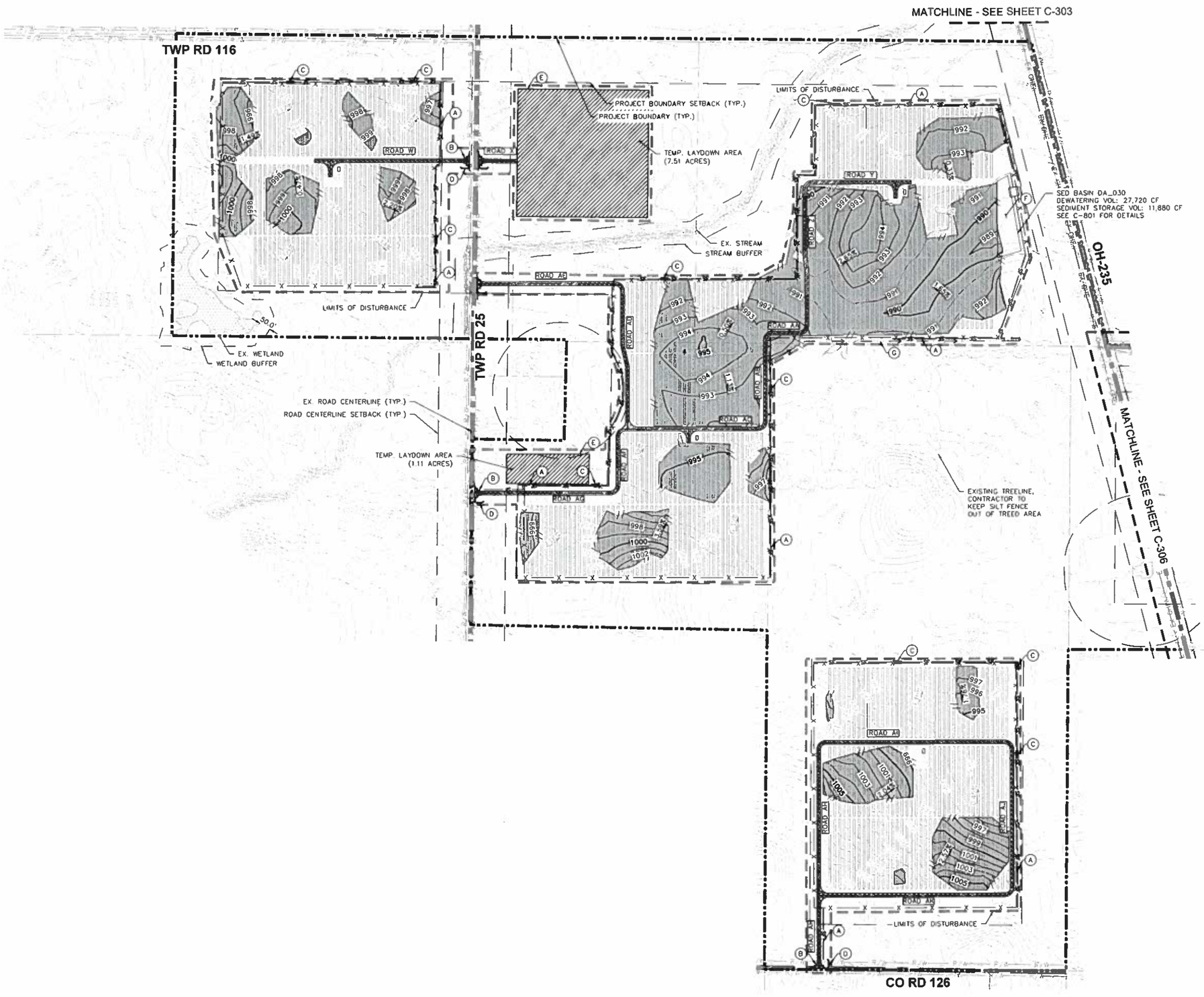

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
- EX. TREE LINE
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- EX. FLOW (DIRECTION AND SLOPE)
- PR. CONTOURS
- PR. FLOW (DIRECTION AND SLOPE)
- PR. GRADING AREA
- PR. GRAVEL ACCESS ROAD
- PR. INVERTER
- PR. FENCE
- LIMITS OF DISTURBANCE
- WIRE BACKED SILT FENCE
- SUPER SILT FENCE
- SILT FENCE ROCK OUTLET
- PR. LAYDOWN AREA
- CONSTRUCTION ENTRANCE
- PR. STORMWATER PIPE
- PR. FILTER SOCK
- PR. EARTH BERM
- TEMPORARY DIVERSION DITCH
- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.

(B) TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-800.

(C) SILT FENCE ROCK OUTLET, SEE DETAIL 1, SHEET C-800.

(D) FILTER SOCK, SEE DETAIL 3, SHEET C-800.

(E) PRELIMINARY LOCATION OF LAYDOWN AREAS. LAYDOWN AREAS UP TO CONTRACTOR DISCRETION BASED ON SITE CONDITIONS, SEE DETAIL 3, SHEET C-803.

(F) TEMPORARY SEDIMENTATION BASIN, SEE DETAIL 3, SHEET C-801.

(G) TEMPORARY DIVERSION DITCH, SEE DETAIL 7, SHEET C-801.

(H) SUPER SILT FENCE, SEE DETAIL 4, SHEET C-801.

GENERAL NOTES

1. 60% PLANS SHOW LOW WATER CROSSINGS AT ALL ROAD AREAS WITH HIGH FLOW. IN 90% DESIGN, SOME LOW WATER CROSSINGS WILL BE UPGRADED TO ELEVATED ROADS WITH CULVERTS. THIS WILL BE BASED ON THE LIKELIHOOD OF WATER PONDING ON THE ROAD AND POTENTIAL FOR INUNDATION TO BACKUP INTO THE ARRAY AREA. AN ENGINEERING ANALYSIS OF THE FLOW FOR BOTH THE CULVERTS AND THE LOW WATER CROSSINGS WILL ALSO BE INCLUDED IN 90% DESIGN.

KEY MAP

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2	60% DESIGN	01/21/2022	CPC

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PHONE: 614-846-4500
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: DRS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
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EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-305

Drawing name: K:\Jax_civil\Solar\RES\168754044_everwarm_hardin iii solar pv\3 Design\CAD\plansheets\XEC-North.dwg C-305 Jan 21, 2022 11:58am by Cory.Tumalera
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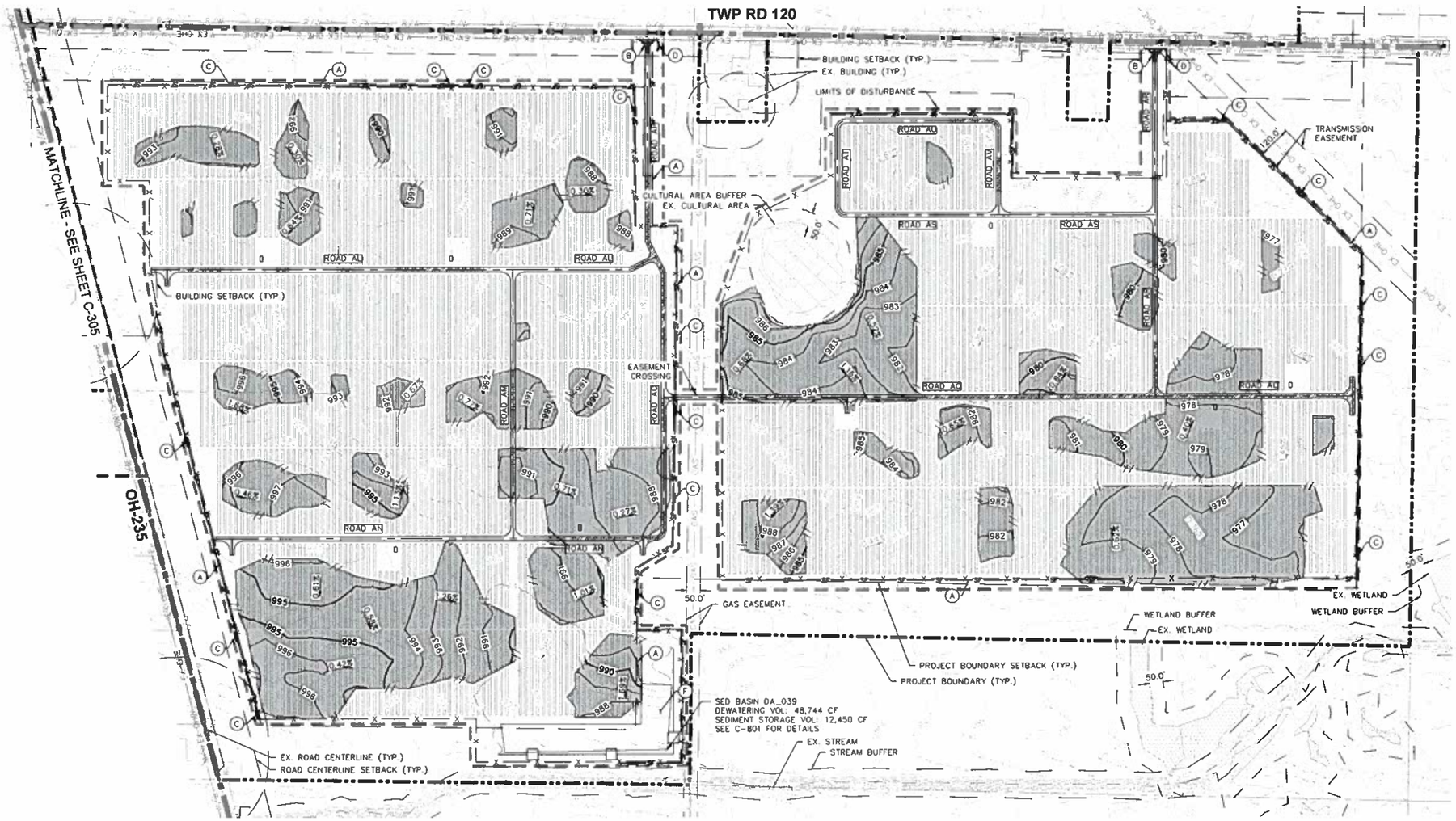

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
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- TEMPORARY DIVERSION DITCH
- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.
(B) TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-800.
(C) SILT FENCE ROCK OUTLET, SEE DETAIL 1, SHEET C-800.
(D) FILTER SOCK, SEE DETAIL 3, SHEET C-800.
(E) PRELIMINARY LOCATION OF LAYDOWN AREAS. LAYDOWN AREAS UP TO CONTRACTOR DISCRETION BASED ON SITE CONDITIONS, SEE DETAIL 3, SHEET C-803.
(F) TEMPORARY SEDIMENTATION BASIN, SEE DETAIL 3, SHEET C-801.
(G) TEMPORARY DIVERSION DITCH, SEE DETAIL 7, SHEET C-801.
(H) SUPER SILT FENCE, SEE DETAIL 4, SHEET C-801.

GENERAL NOTES

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KEY MAP

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SCALE: AS NOTED
DESIGNED BY: EES
DRAWN BY: AJK
CHECKED BY: CPC

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EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-306

Drawing name: K:\Jax_civil\Solar\RES\168754044_Lynntown Hardin III solar ph1\2 Design\CAD\Lynntown\EC-North.dwg C-306 Jan 21, 2022 11:58am by: Ives, Jennifer
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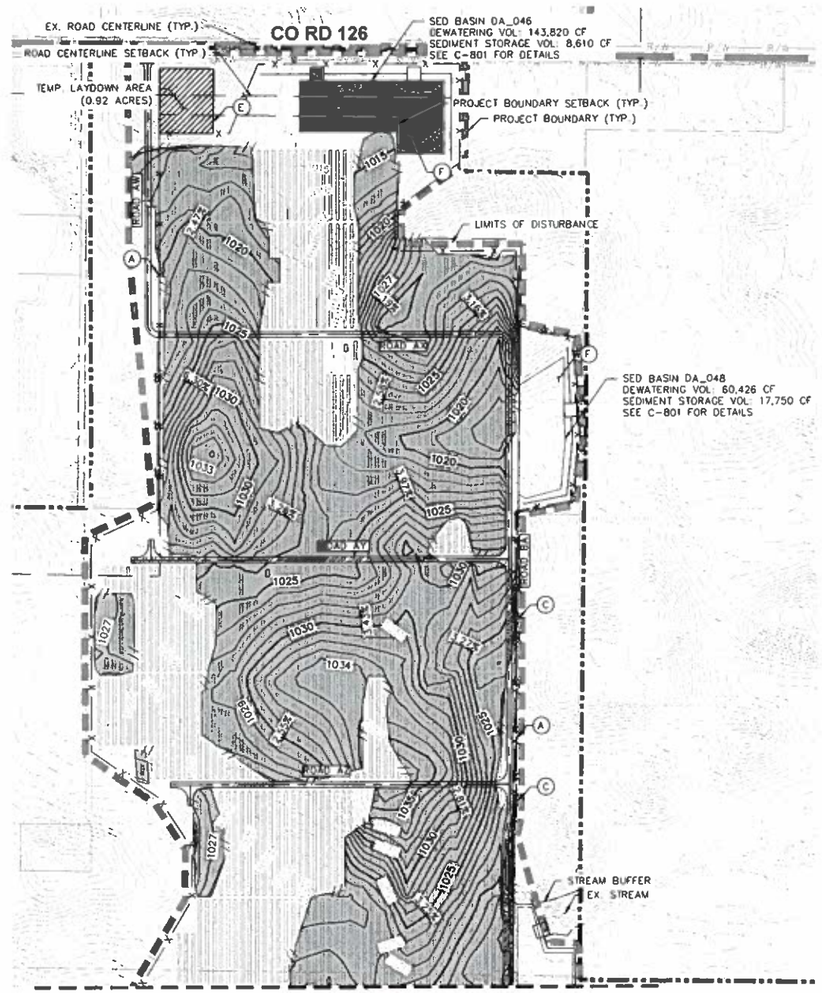

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
- EX. TREE LINE
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
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- TEMPORARY DIVERSION DITCH
- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.
(B) TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-800
(C) SILT FENCE ROCK OUTLET, SEE DETAIL 1, SHEET C-800.
(D) FILTER SOCK, SEE DETAIL 3, SHEET C-800.
(E) PRELIMINARY LOCATION OF LAYDOWN AREAS. LAYDOWN AREAS UP TO CONTRACTOR DISCRETION BASED ON SITE CONDITIONS, SEE DETAIL 3, SHEET C-803.
(F) TEMPORARY SEDIMENTATION BASIN, SEE DETAIL 3, SHEET C-801.
(G) TEMPORARY DIVERSION DITCH, SEE DETAIL 7, SHEET C-801.
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GENERAL NOTES

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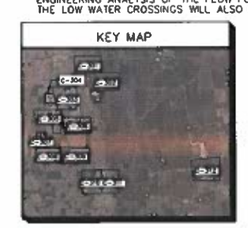
KEY MAP



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SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

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PREPARED FOR:
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EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-307

Drawing name: K:\lex_civil\Solar\RES\168754044_everwarp_hardin iii solar oh\2 Design\CAD\plansheets\EC-West.dwg C-307 Jan 21, 2022 11:58am by: Evan Zemaria
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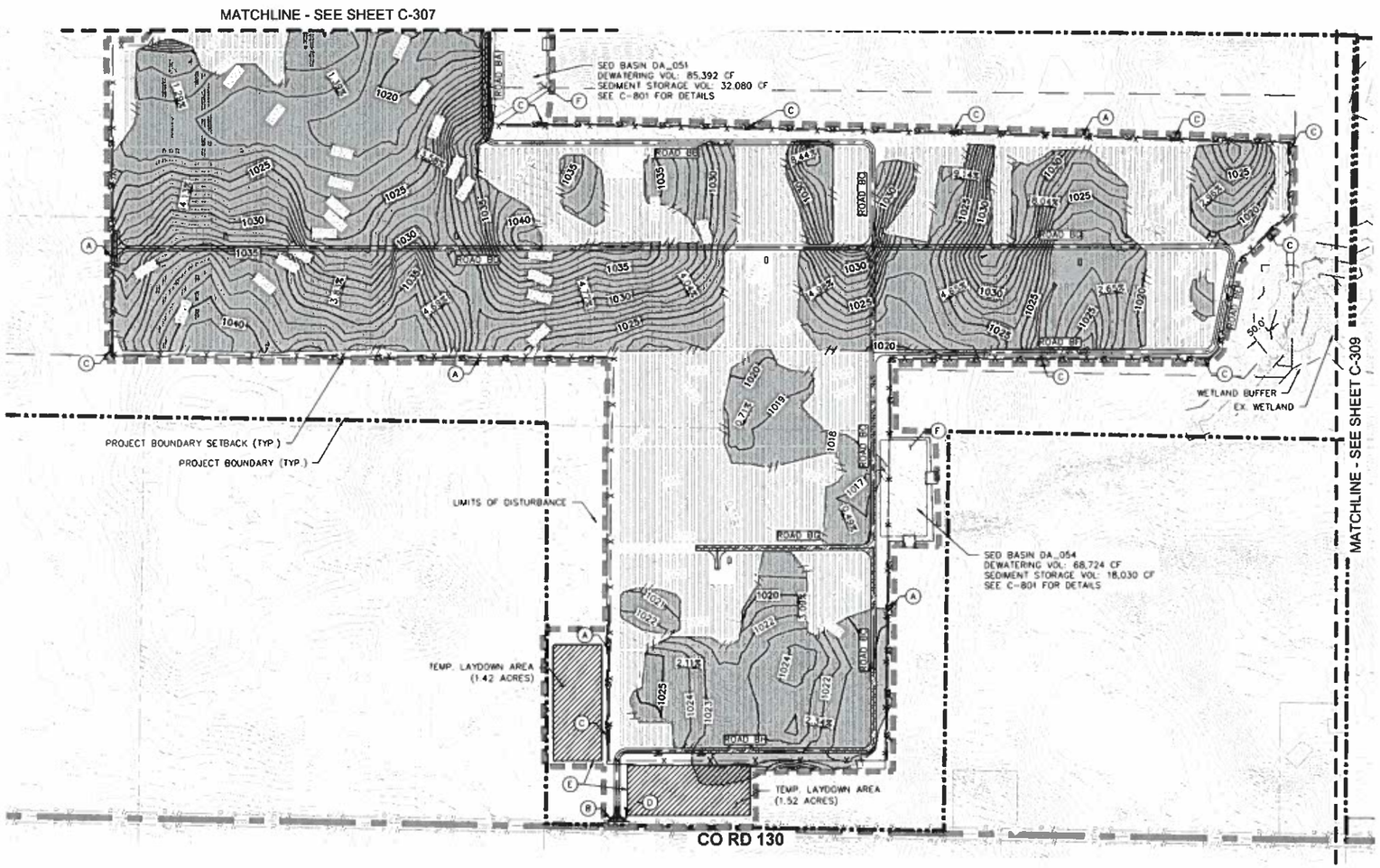

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
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- TEMPORARY DIVERSION DITCH
- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800

(B) TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-800.

(C) SILT FENCE ROCK OUTLET, SEE DETAIL 1, SHEET C-800.

(D) FILTER SOCK, SEE DETAIL 3, SHEET C-800.

(E) PRELIMINARY LOCATION OF LAYDOWN AREAS. LAYDOWN AREAS UP TO CONTRACTOR DISCRETION BASED ON SITE CONDITIONS, SEE DETAIL 3, SHEET C-803.

(F) TEMPORARY SEDIMENTATION BASIN, SEE DETAIL 3, SHEET C-801.

(G) TEMPORARY DIVERSION DITCH, SEE DETAIL 7, SHEET C-801.

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GENERAL NOTES

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KEY MAP

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DESIGNED BY: DRS
DRAWN BY: ALH
CHECKED BY: CPC

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EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-308

Drawing name: K:\lex_civil\Solar\KES\168754044_inverary_hardin iii solar_civil\3 Design\CAD\preliminary\EC-West.dwg C-308 Jan 21, 2022 11:56am by: Evan Tomonte
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NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
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EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.
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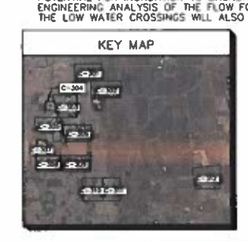

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DRAWN BY: ALH
CHECKED BY: CPC

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EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-309

Drawing name: K:\lex_civil\Solar\RES\168754044_energy_hardin iii solar_oh\12 Design\CAD\plansheet\EC-West.dwg C-309 Jan 21, 2022 11:58am by: ryan_zemarlis
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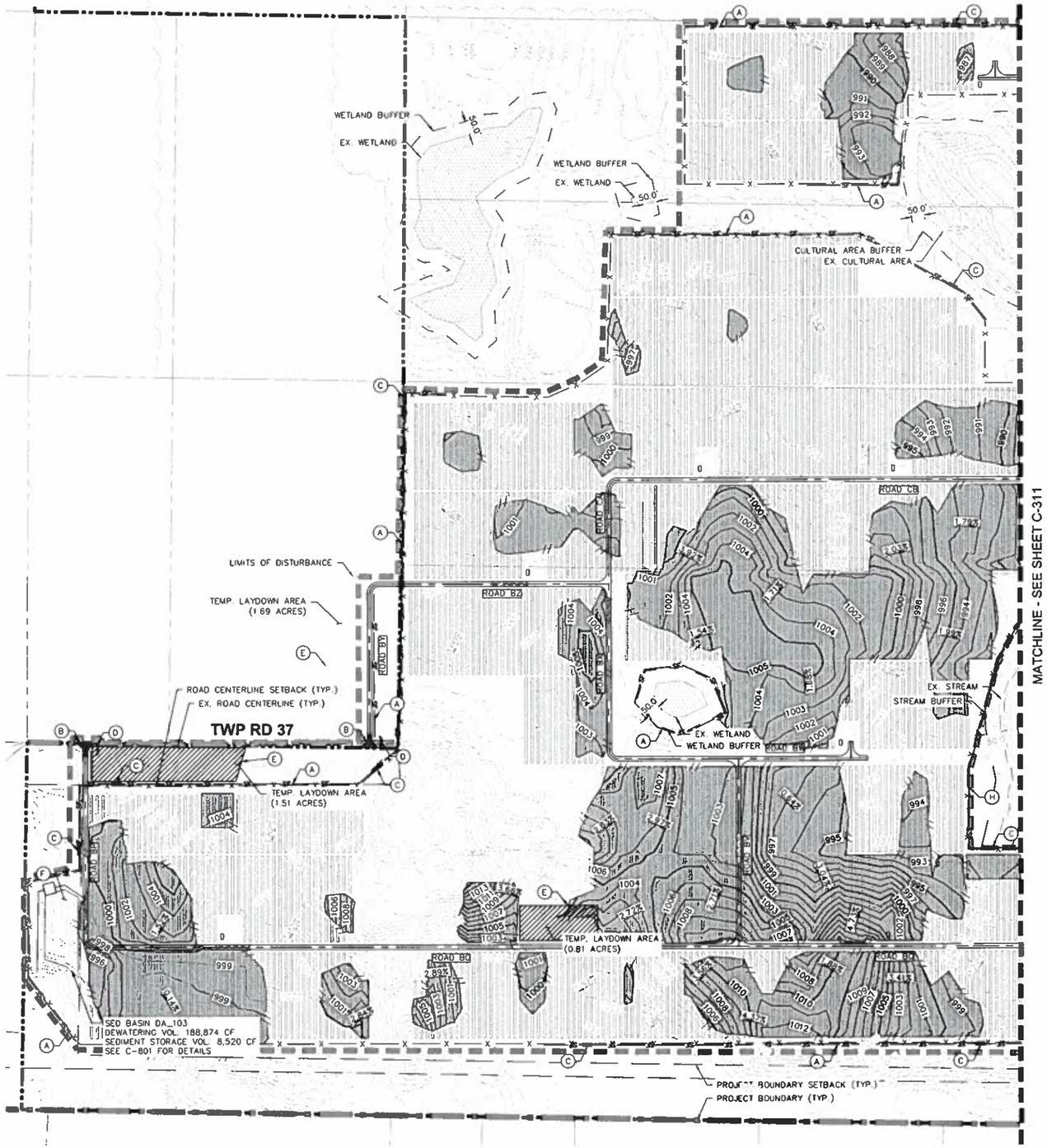

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
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EROSION CONTROL NOTES

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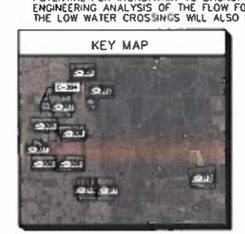
KEY MAP



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COLUMBUS, OH 43235
PHONE: 330-483-3350
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SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

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res power for good

EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-310

Drawing name: K:\dec_civil\Solar\RES\168754044_everwarp_hardin iii solar_alt\2 Design\CAD\plansheets\EC-Exist.dwg C-310 Jan 21, 2022 11:56am by Evan.Zemelka
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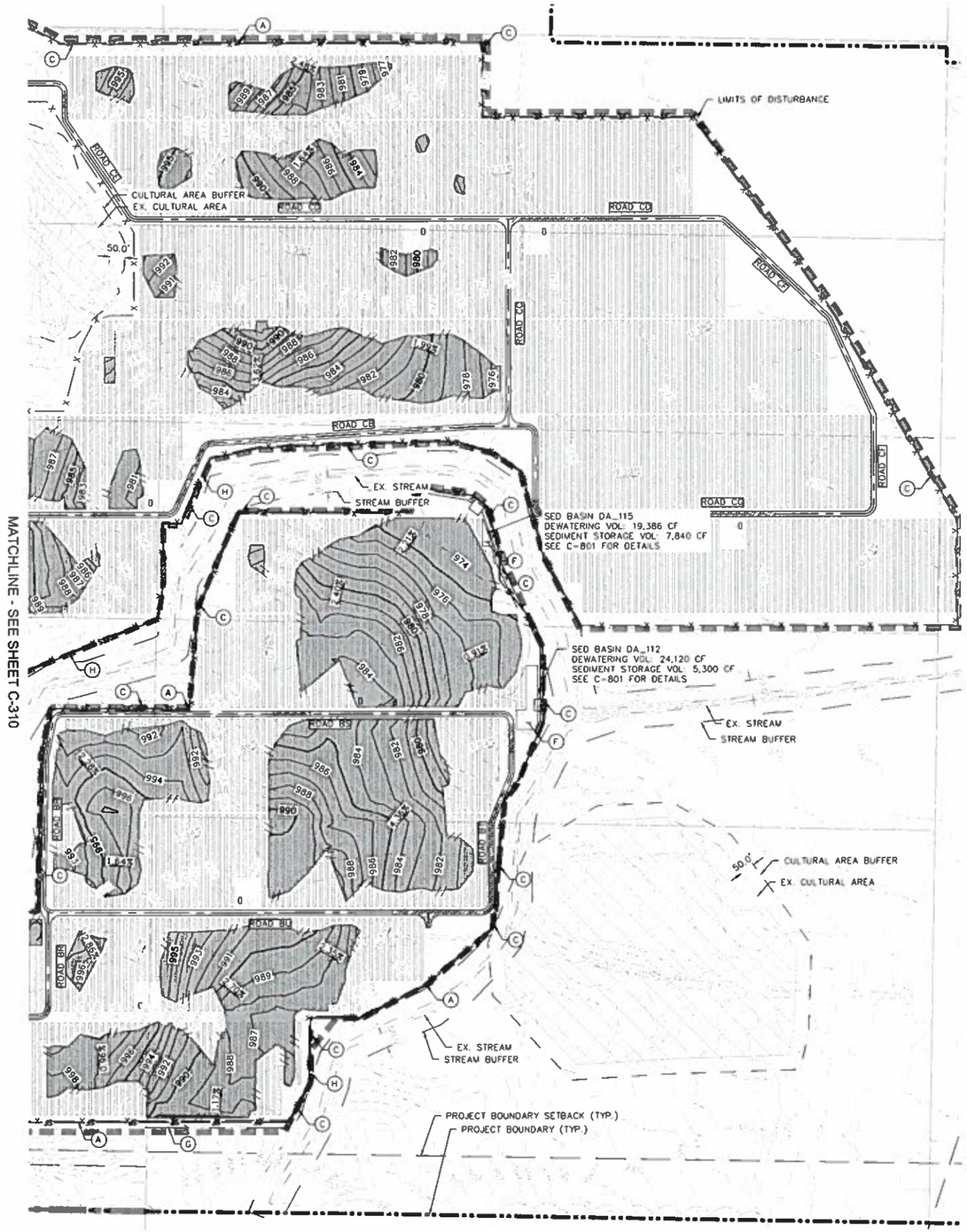

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
- EX. TREE LINE
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- EX. FLOW (DIRECTION AND SLOPE)
- PR. CONTOURS
- PR. FLOW (DIRECTION AND SLOPE)
- PR. GRADING AREA
- PR. GRAVEL ACCESS ROAD
- PR. INVERTER
- PR. FENCE
- LIMITS OF DISTURBANCE
- WIRE BACKED SILT FENCE
- SUPER SILT FENCE
- SILT FENCE ROCK OUTLET
- PR. LAYDOWN AREA
- CONSTRUCTION ENTRANCE
- PR. STORMWATER PIPE
- PR. FILTER SOCK
- PR. EARTH BERM
- TEMPORARY DIVERSION DITCH
- PR. LOW WATER CROSSING SEE DETAIL 4 ON C-803

EROSION CONTROL NOTES

(A) SILT FENCE WITH WIRE SUPPORT, SEE DETAIL 4, SHEET C-800.
(B) TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-800.
(C) SILT FENCE ROCK OUTLET, SEE DETAIL 1, SHEET C-800.
(D) FILTER SOCK, SEE DETAIL 3, SHEET C-800.
(E) PRELIMINARY LOCATION OF LAYDOWN AREAS. LAYDOWN AREAS UP TO CONTRACTOR DISCRETION BASED ON SITE CONDITIONS, SEE DETAIL 3, SHEET C-803.
(F) TEMPORARY SEDIMENTATION BASIN, SEE DETAIL 3, SHEET C-801.
(G) TEMPORARY DIVERSION DITCH, SEE DETAIL 7, SHEET C-801.
(H) SUPER SILT FENCE, SEE DETAIL 4, SHEET C-801.

GENERAL NOTES

1. 60% PLANS SHOW LOW WATER CROSSINGS AT ALL ROAD AREAS WITH HIGH FLOW. IN 90% DESIGN, SOME LOW WATER CROSSINGS WILL BE UPGRADED TO ELEVATED ROADS WITH CULVERTS. THIS WILL BE BASED ON THE LIKELIHOOD OF WATER PONDING ON THE ROAD AND POTENTIAL FOR INUNDATION TO BACKUP INTO THE ARRAY AREA. AN ENGINEERING ANALYSIS OF THE FLOW FOR BOTH THE CULVERTS AND THE LOW WATER CROSSINGS WILL ALSO BE INCLUDED IN 90% DESIGN.

KEY MAP

OHIO Utilities Protection SERVICE
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No.	REVISIONS	DATE	BY
1	30% DESIGN	11/19/2021	CPC
2	60% DESIGN	01/21/2022	CPC

Kimley»Horn
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7965 N. HIGH STREET, SUITE 200
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PHONE: 614-772-2200
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR: res power for good

EROSION CONTORL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-311

Drawing name: K:\Jan_civil\Solar\MCS\168754044_primary_hardin iii solar_oh\12 Design\CAD\plansheets\CC-Feet.dwg C-311 Jan 21, 2022 11:58am by: Evan Zamarka
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GRAPHIC SCALE IN FEET
0 100 200 400

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COLUMBUS, OHIO 43235
PHONE 630-487-5550
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SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

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EROSION CONTROL PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE
01/21/2022
KHA PROJECT NO.
168754044
SHEET NUMBER
C-312

Drawing name: K:\Jan_Draft\Solar\$RES\168754044_evenergy_hardin iii solar_oh\2 Design\CAD\plansheets\CC-Cont.dwg C-312 Jan 21, 2022 11:56am by: Evan.Zamolio
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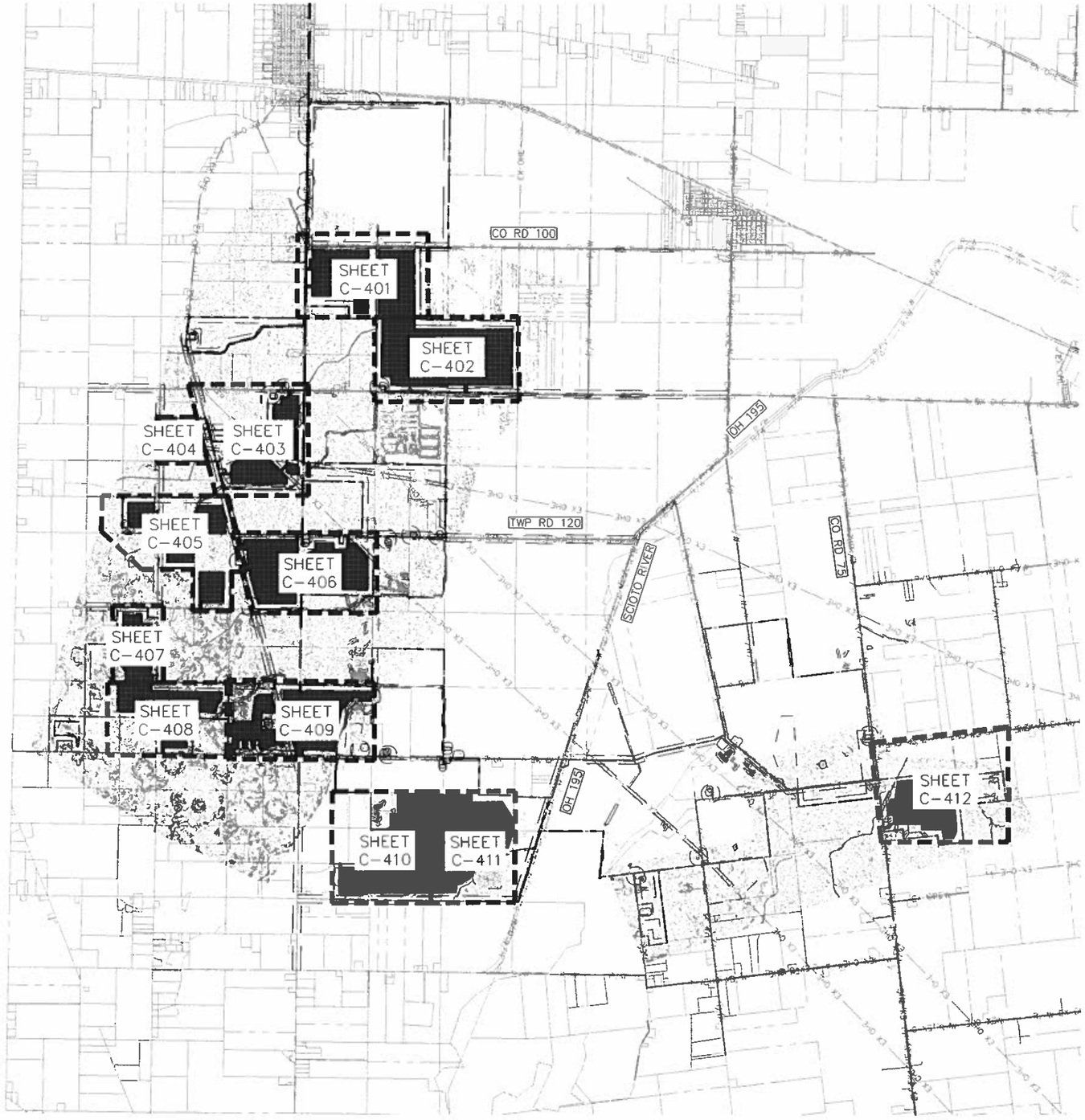

NORTH

GRAPHIC SCALE IN FEET
0 1000 2000 4000

SOILS LEGEND	
BLOUNT SILT LOAM, END MORAINE, 0 TO 2 PERCENT SLOPES	Ble1A1
BLOUNT SILT LOAM, END MORAINE, 2 TO 4 PERCENT SLOPES	Ble1B1
BLOUNT SILT LOAM, GROUND MORAINE, 0 TO 2 PERCENT SLOPES,	Blg1A1
BLOUNT SILT LOAM, GROUND MORAINE, 2 TO 4 PERCENT SLOPES,	Blg1B1
GLYNWOOD SILT LOAM, 6 TO 12 PERCENT SLOPES,	Gwd5C2
GLYNWOOD SILT LOAM END MORAINE, 2 TO 6 PERCENT SLOPES	Gwe1B1
GLYNWOOD CLAY LOAM END MORAINE, 2 TO 6 PERCENT SLOPES	Gwe5B2
GLYNWOOD SILT LOAM GROUND MORAINE, 2 TO 6 PERCENT SLOPES	Gwg1B1
GLYNWOOD CLAY LOAM GROUND MORAINE, 2 TO 6 PERCENT SLOPES	Gwg5B2
GLYNWOOD CLAY LOAM, GROUND MORAINE, 6 TO 12 PERCENT SLOPES	Gwg5C2
LINWOD MUCK	Ln
MCGUFFEY MUCK, MILFORD SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	Mc
MILFORD SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	Mf
MINSTER SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	Mnl3A
MINSTER SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	Mns3A
MORLEY CLAY LOAM, 12 TO 18 PERCENT SLOPES	MrD2
PEWAMO SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	PkA
PEWAMO VARIANT MUCK	Po
ROUNDHEAD MUCK	Ro

LEGEND:

- PROJECT BOUNDARY
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- EX. RIGHT OF WAY
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- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- AREAS TO BE CLEARED AND GRUBBED
- LIMITS OF DISTURBANCE
- PANEL LIMITS
- EX. DRAIN TILE (APPROXIMATE LOCATION)
- EX. DITCH
- LIMITS OF SOIL TYPES

PROTECTION/DEMOLITION NOTES

A PROTECT IN PLACE.

B DEMOLISH OR REMOVE.

GENERAL NOTES

1. ALL EXISTING FEATURES NOT SHOWN ON THIS PLAN AND NOT SHOWN TO BE REMOVED ARE TO REMAIN.
2. ALL EXISTING VEGETATION WITHIN THE AREAS TO BE CLEARED AND GRUBBED SHALL BE REMOVED AS FOLLOWS:
   - 2.1. ALL EXISTING SHRUBS SHALL BE CUT FLUSH WITH THE GROUND, EXCEPT IN AREAS WHERE ROOT STRUCTURES WILL INTERFERE WITH INSTALLATION OF STRUCTURAL FOUNDATIONS; IN SUCH CASES, REMOVE ALL ROOTS.
   - 2.2. ALL EXISTING GRASSES SHALL BE MOWED AS SHORT AS POSSIBLE.
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4. DUST CONTROL MEASURES SHALL BE IMPLEMENTED DURING DEMOLITION INCLUDING BUT NOT LIMITED TO WATERING DIRT ACCESS ROADS.
5. DRAIN TILE/DITCH LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE OWNER. TO THE EXTENT POSSIBLE, DRAINTILE SHALL REMAIN IN PLACE DURING CONSTRUCTION.
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2601 MARLT-HORN AND ASSOCIATES, INC.
7945 W HIGH STREET, SUITE 200
PORTLAND, OR 97225
PHONE: 503-287-1131
FAX: 503-287-1133
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: EKS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR:
res power for good

EXISTING CONDITIONS AND DEMO - OVERALL

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-400

Drawing name: K:\Aor_civil\Solar\RES\168754044_mcmenny_hardin iii water ab\2 Design\CAD\plansheets\EX-Ov.dwg C-300 Jan 21, 2022 11:58am by: Evan Zemaitis
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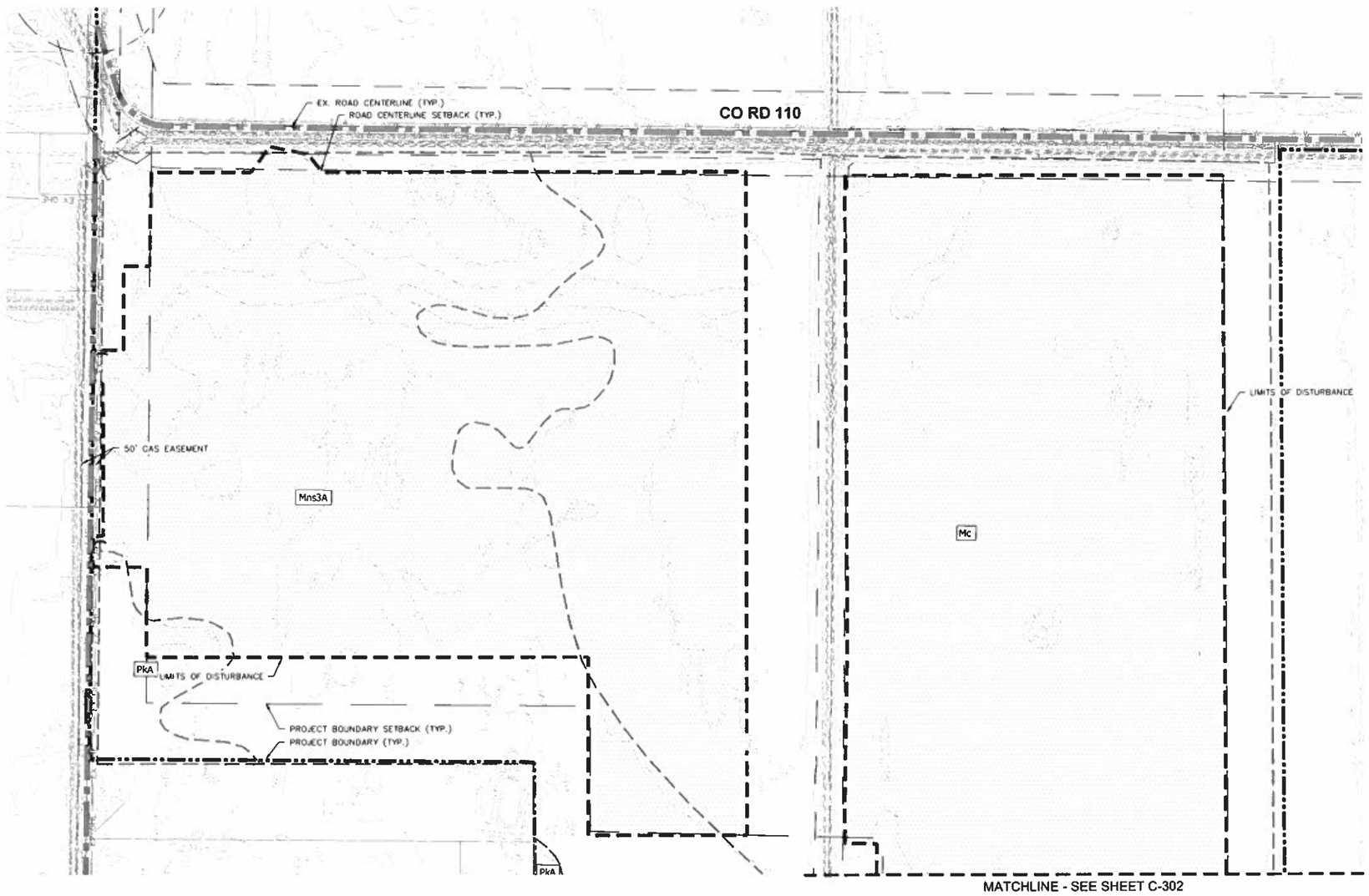

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
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KEY MAP

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No.	REVISIONS	DATE	BY
1	SITE DESIGN	11/19/2021	CPC
2	SITE DESIGN	01/21/2022	CPC

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COLUMBUS, OH 43235
PHONE: 614-772-2200
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SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR: res power for good

EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-401

Drawing name: K:\Jpm_civil\Sites\RES\168754044_Invenergy_Hardin III solar_civil\2 Design\CAD\plansheets\C-North.dwg C-401 Jan 21, 2022 11:56am by Erin Fornashe
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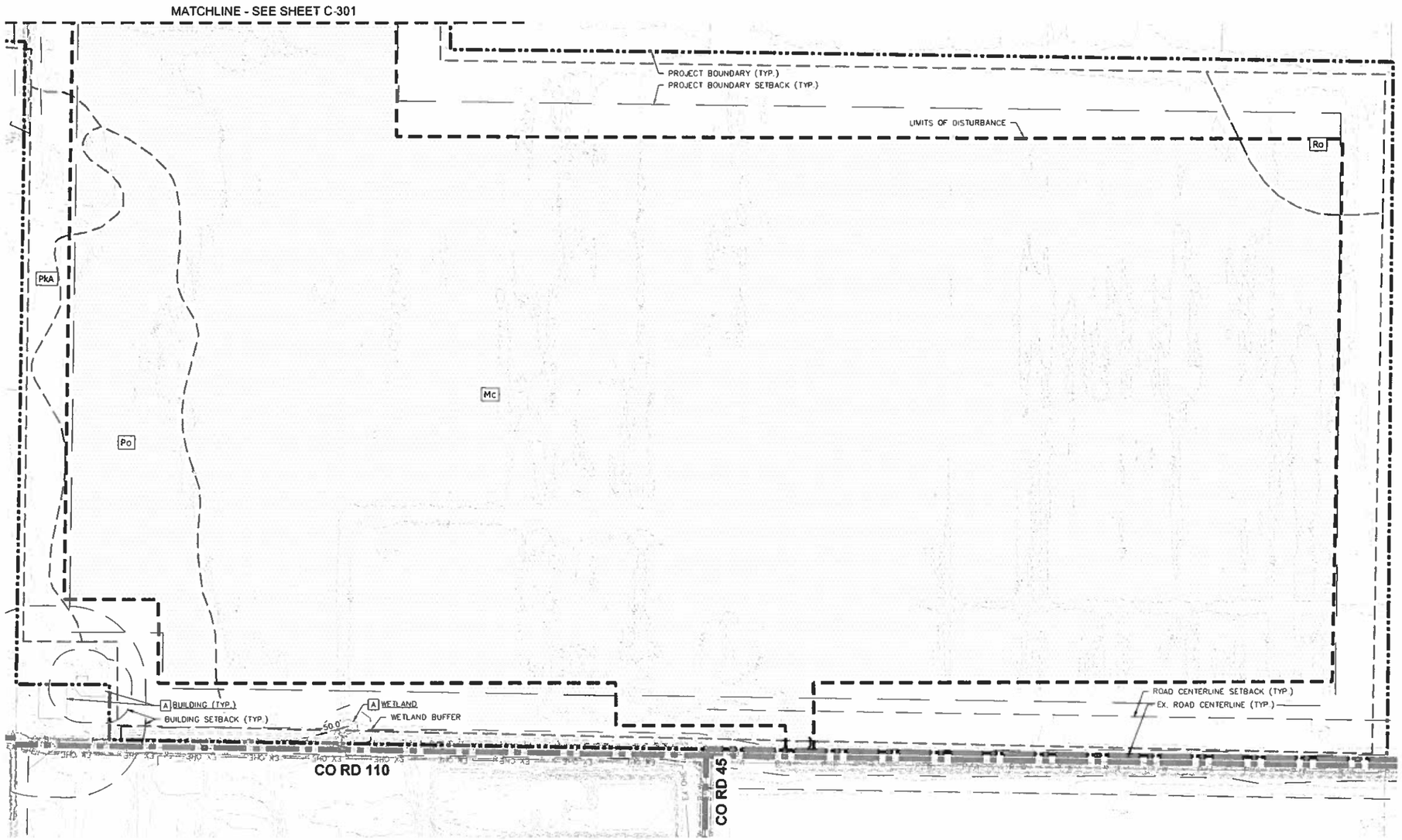

NORTH

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HARDIN COUNTY, OH

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Drawing name: K:\dm_civil\Solar\RES\168754044_mamenzy_hardin iii solar_ph1\2 Design\CAD\plansheets\EX-North.dwg C-402 Jan 21, 2022 11:58am by Evan Zemelka
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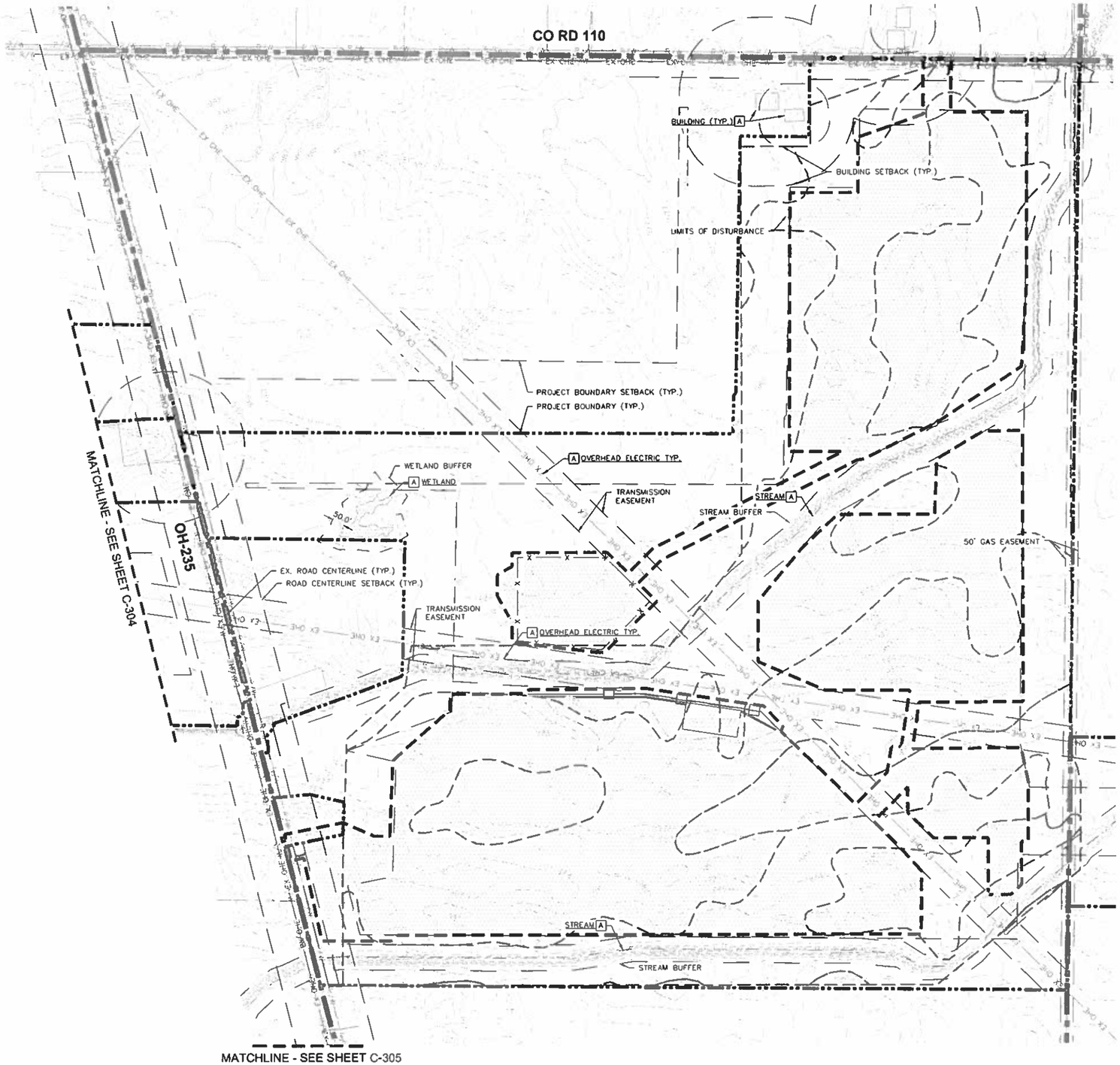

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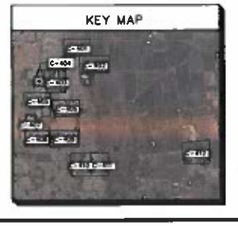
KEY MAP



OHIO Utilities Protection SERVICE
Click, Call or Tap Before You Dig
1-800-362-2764

No.	REVISIONS	DATE	BY
1	SITE DESIGN	11/19/2021	CPC
2	SITE DESIGN	01/21/2022	CPC

Kimley»Horn
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7965 N. HIGH STREET, SUITE 200
COLUMBUS, OH 43235
PHONE: 614-846-1500
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR: res power for good

EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-403

Drawing name: K:\Lex_civil\Solar\KES\168754044_Lawrence Hardin III solar.dwg\Layouts\Existing\C-Hardin.dwg C-403 Jan 21, 2022 11:58am by Evan.Zemelka
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Drawing name: K:\Jobs_Civil\Solar\RES\168754044_Hardin III solar_KHA\3 Design\CAD\Layout\C-404 - North.dwg C-404 Jan 21, 2022 11:16am by Eva.Tomalka
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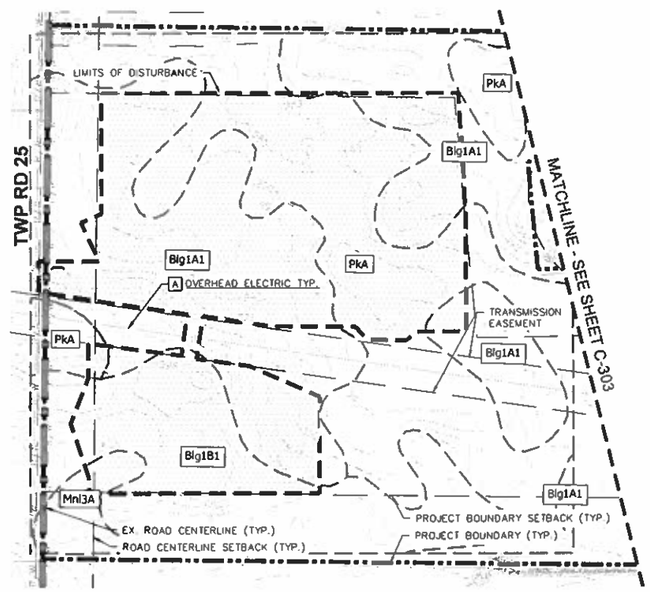

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- EX. TREE LINE
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. UTILITY POLE
- EX. STREAM
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- AREAS TO BE CLEARED AND GRUBBED
- LIMITS OF DISTURBANCE
- PANEL LIMITS
- EX. DRAIN TILE (APPROXIMATE LOCATION)
- EX. DITCH
- LIMITS OF SOIL TYPES

PROTECTION/DEMOLITION NOTES

A PROTECT IN PLACE.

B DEMOLISH OR REMOVE.

GENERAL NOTES

1. ALL EXISTING FEATURES NOT SHOWN ON THIS PLAN AND NOT SHOWN TO BE REMOVED ARE TO REMAIN.
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   - 2.3. IN AREAS OF GRADING, ALL VEGETATION SHALL BE CLEARED AND GRUBBED PER THE RECOMMENDATIONS PROVIDED IN THE PROJECT GEOTECHNICAL REPORT.
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KEY MAP

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2	60% DESIGN	01/21/2022	CPC

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7965 N HIGH STREET, SUITE 200
COLUMBUS, OH 43235
PHONE: 614-775-4500
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

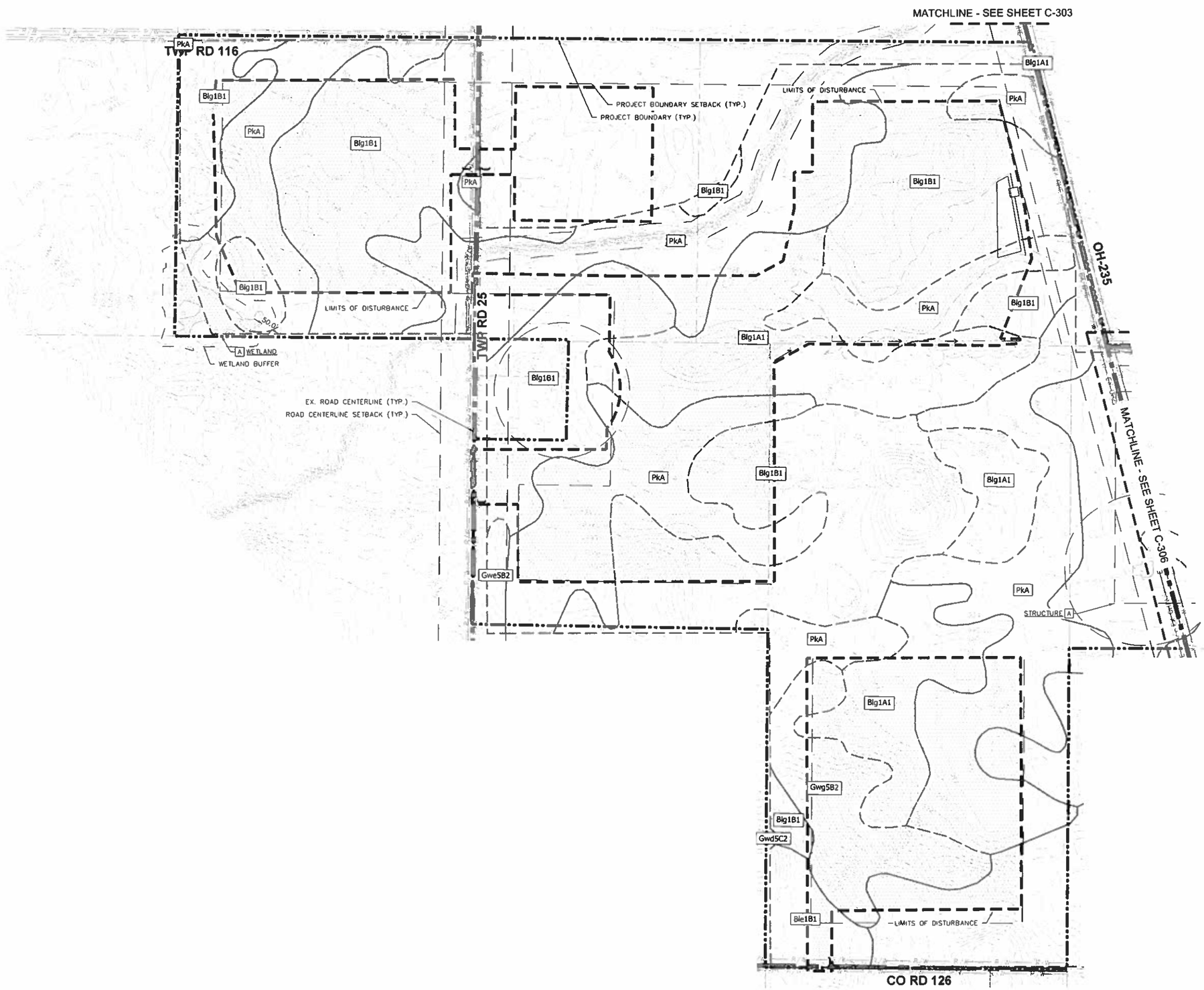
PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR: res power for good

EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-404



NORTH

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0 100 200 400

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OHIO Utilities Protection SERVICE
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Kimley»Horn
2201 WALLY-HORN AND ASSOCIATES, INC.
7965 N. HIGH STREET, SUITE 300
COLUMBUS, OHIO 43235
PHONE: 630-487-5550
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: DRS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR
res power for good

EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-405

Drawing name: K:\Man_civil\Solar\RES\168754044_energy_hardin iii solar.sh\2 Design\CAD\plansheets\C-North.dwg C-405 Jan 21, 2022 11:56am by Evan.Zemaitis
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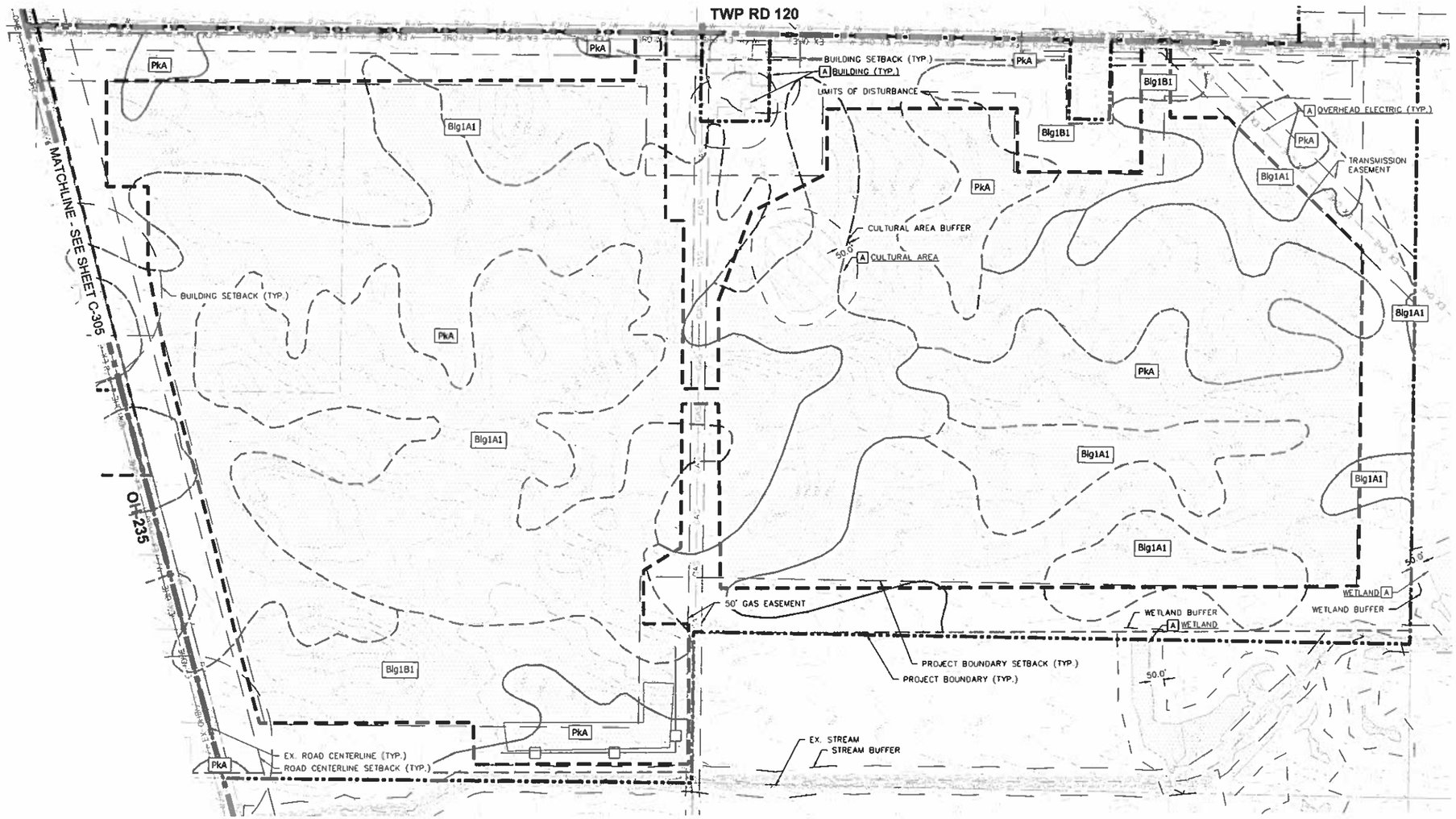

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- EX. TREE LINE
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. UTILITY POLE
- EX. STREAM
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- EX. WETLAND/STREAM BUFFER
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- EX. CULTURAL BUFFER
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- LIMITS OF DISTURBANCE
- PANEL LIMITS
- EX. DRAIN TILE (APPROXIMATE LOCATION)
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KEY MAP

OHIO Utilities Protection SERVICE
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No.	REVISIONS	DATE	BY
1	30% DESIGN	11/19/2021	CPC
2	60% DESIGN	01/21/2022	CPC

Kimley»Horn
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7965 N HIGH STREET, SUITE 200
COLUMBUS, OH 43235
PHONE: 614-772-2300
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: DRS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR
res power for good

EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE
01/21/2022

KHA PROJECT NO.
168754044

SHEET NUMBER
C-406

Drawing name: K:\cvn_civil\Solar\RES\168754044_everwarp_hardin iii solar_ch12 Design\CAD\plansheets\C-North.dwg C-406 Jan 21, 2022 11:56am by Cara.Zemaitis
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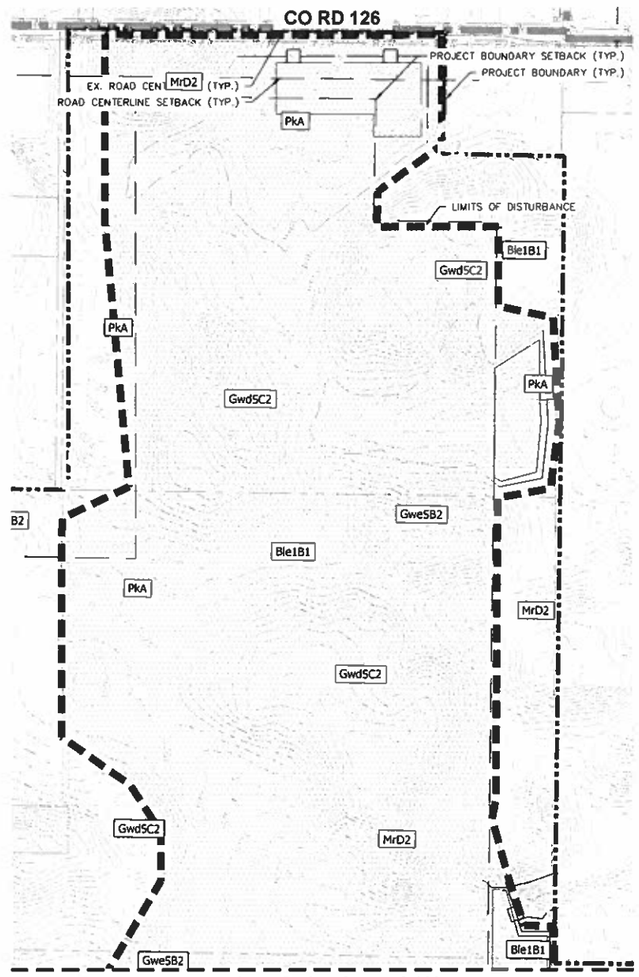

MATCHLINE - SEE SHEET C-308

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- EX. TREE LINE
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. UTILITY POLE
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KEY MAP

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NO.	REVISIONS	DATE	BY
1	SOIL DESIGN	11/19/2021	CPC
2	ROAD DESIGN	01/21/2022	CPC

Kimley»Horn
2001 KILLY HORN AND ASSOCIATES, INC.
7965 N. HIGH STREET, SUITE 200
COLUMBUS, OH 43235
PHONE: 614-487-5550
WWW.KIMLEY-HORN.COM

SCALE AS NOTED
DESIGNED BY: DPS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR: res power for good

EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-407

Drawing name: K:\phx_civil\Solar\RES\168754044_Inventory_hardin = solar_sh12 Design\CAD\plansheets\Ex. Site.dwg C-407 Jan 21, 2022 11:56am by Cory.Zamaris
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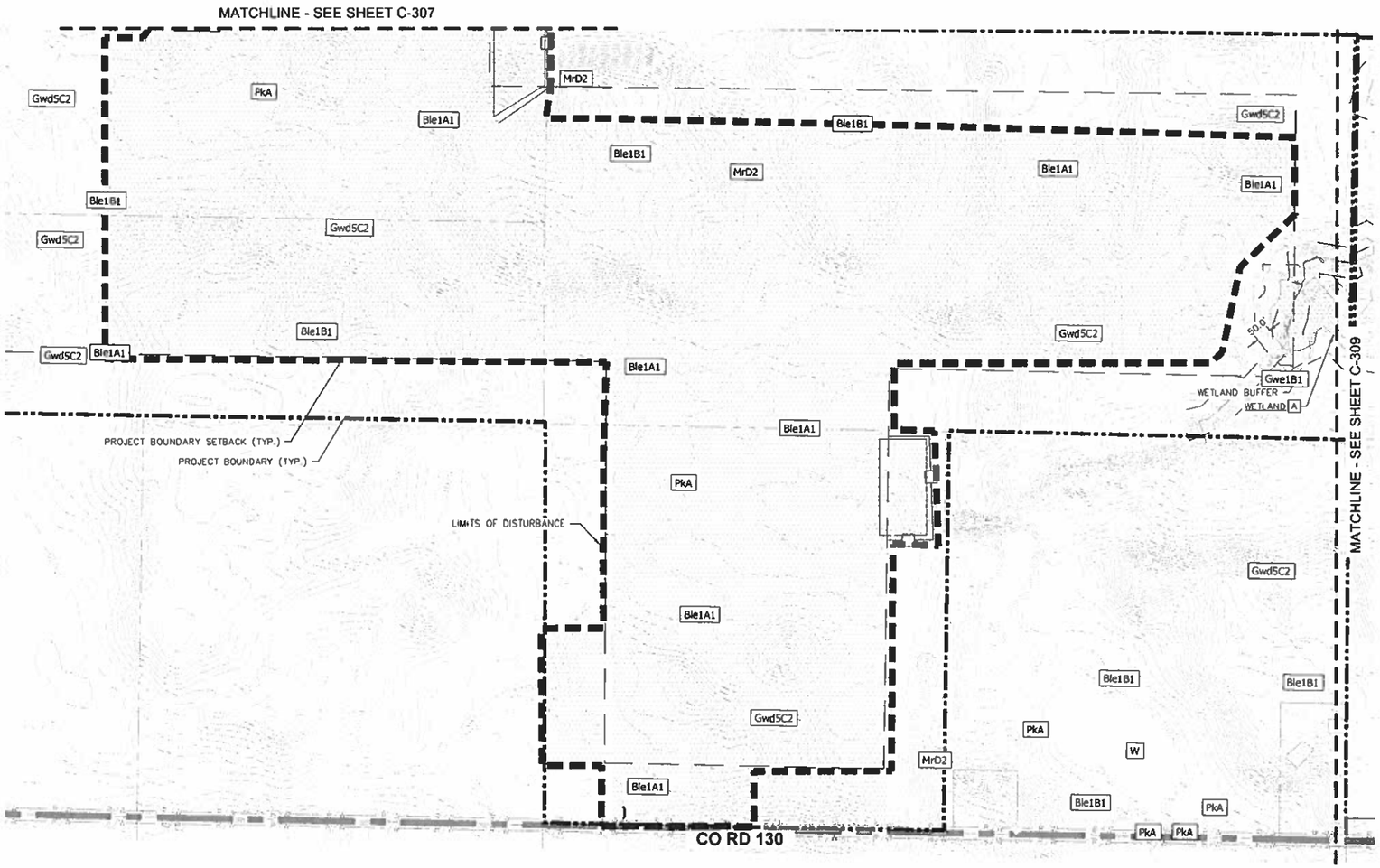

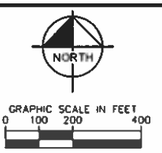

LEGEND:

- PROJECT BOUNDARY
- ADJ / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
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1	30% DESIGN	11/19/2021	CPC
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Kimley»Horn
2525 WALT WHITMAN AND ASSOCIATES, INC.
7965 N. HIGH STREET, SUITE 200
COLUMBUS, OH 43235
PHONE: 614-487-5550
www.kimley-horn.com

SCALE: AS NOTED
DESIGNED BY: DRS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR: res power for good

EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-408

Drawing name: K:\dsn_civil\Solar\RES\168754044_invenergy_hardin iii solar.sln\2 Design\CAD\plansheets\EX-West.dwg C-408 Jan 21, 2022 11:58am by: Evan Zemanek
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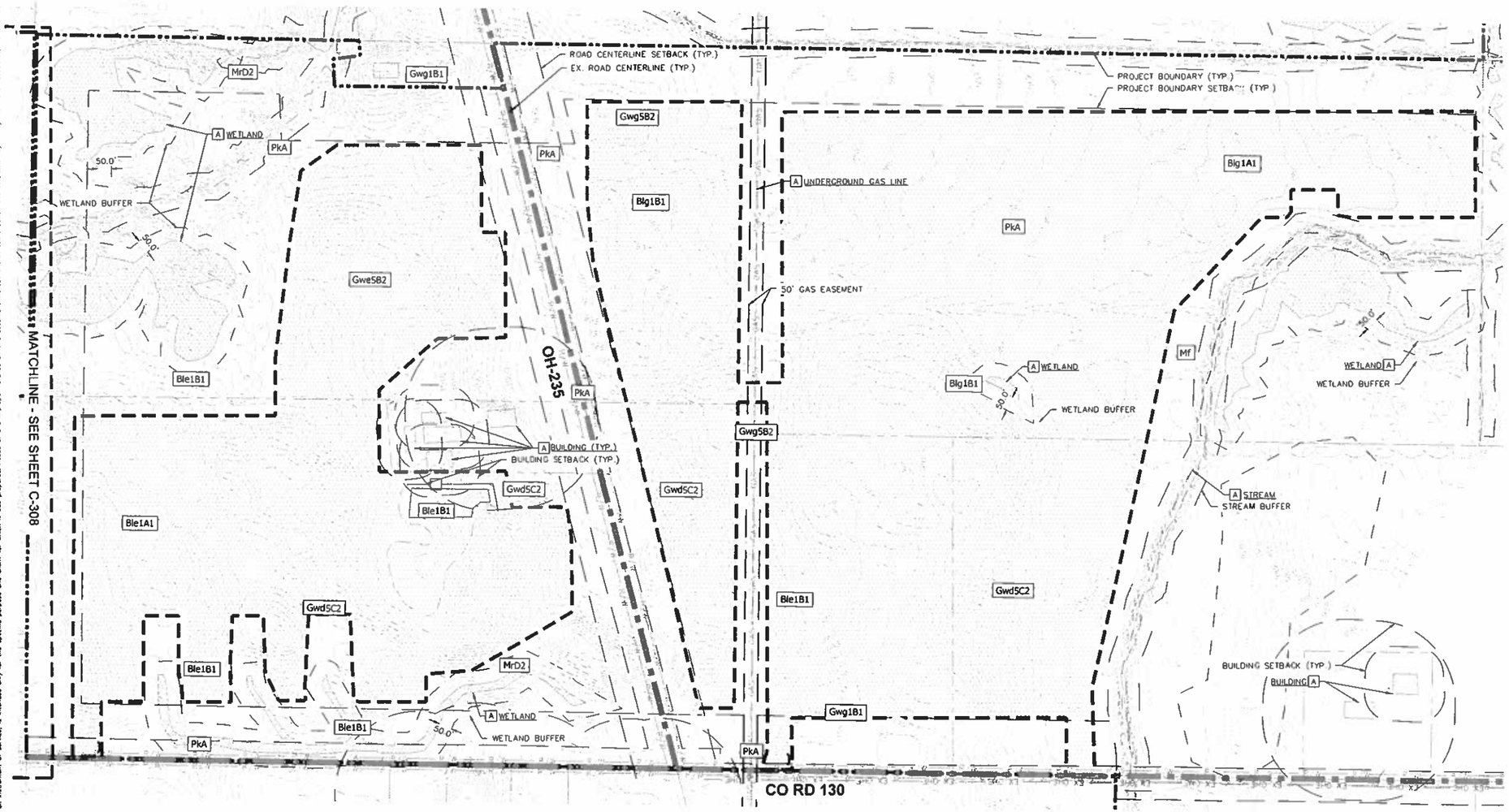

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

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6. TREE REMOVAL SHALL BE LIMITED DURING PROJECT CONSTRUCTION AND BASED ON ENGINEER'S APPROVAL. TREE RPOTECTION FENCING SHOULD BE INSTALLED AS NECESSARY.

KEY MAP

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DESIGNED BY: EYS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
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PREPARED FOR:
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EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-409

Drawing name: K:\Ohio_civil\Solar\RES\168754044_Lynnsboro_Hardin III - solar_civil\2 Design\CAD\plansheets\C-Site Plan.dwg C-409 Jan 21, 2022 11:56am by Evan.Zemelis
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Drawing name: K:\oh_cort\Solar\KES\168754044_unnamed\p-hardin ii solar_oh\3 Design\CAD\plansheets\C-Exist.dwg C-410 Jan 21, 2022 11:38am by: Evan.Zanetta
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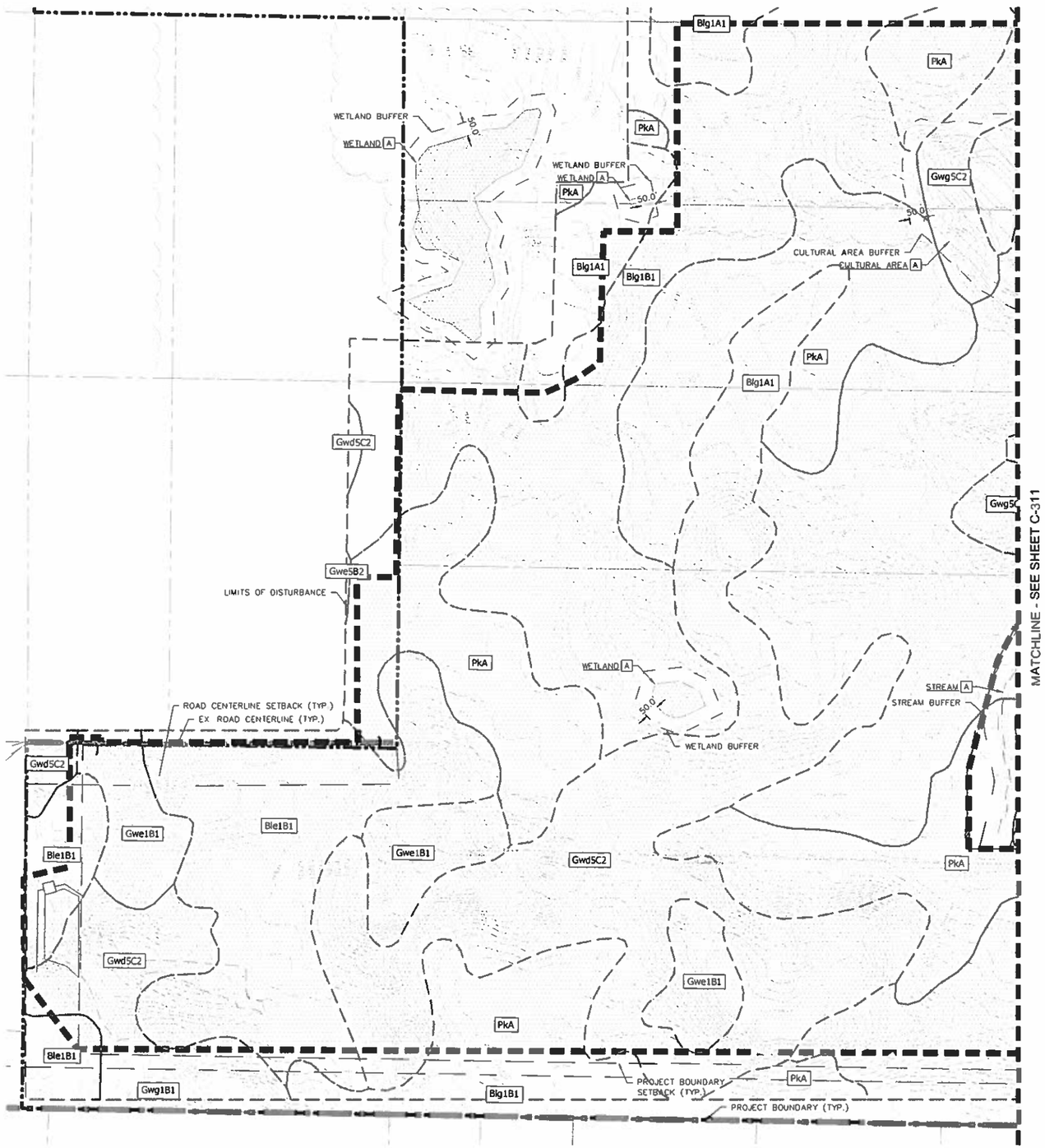

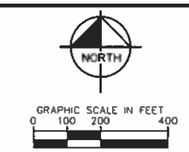

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- EX. TREE LINE
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. UTILITY POLE
- EX. STREAM
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- AREAS TO BE CLEARED AND GRUBBED
- LIMITS OF DISTURBANCE
- PANEL LIMITS
- EX. DRAIN TILE (APPROXIMATE LOCATION)
- EX. DITCH
- LIMITS OF SOIL TYPES

PROTECTION/DEMOLITION NOTES

A PROTECT IN PLACE.

B DEMOLISH OR REMOVE.

GENERAL NOTES

1. ALL EXISTING FEATURES NOT SHOWN ON THIS PLAN AND NOT SHOWN TO BE REMOVED ARE TO REMAIN.
2. ALL EXISTING VEGETATION WITHIN THE AREAS TO BE CLEARED AND GRUBBED SHALL BE REMOVED AS FOLLOWS:
   - 2.1. ALL EXISTING SHRUBS SHALL BE CUT FLUSH WITH THE GROUND, EXCEPT IN AREAS WHERE ROOT STRUCTURES WILL INTERFERE WITH INSTALLATION OF STRUCTURAL FOUNDATIONS; IN SUCH CASES, REMOVE ALL ROOTS.
   - 2.2. ALL EXISTING GRASSES SHALL BE MOWED AS SHORT AS POSSIBLE.
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3. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES TO REMAIN SHALL BE REPAIRED AND/OR REPLACED IN KIND AT CONTRACTOR'S OWN EXPENSE.
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KEY MAP

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PREPARED FOR:
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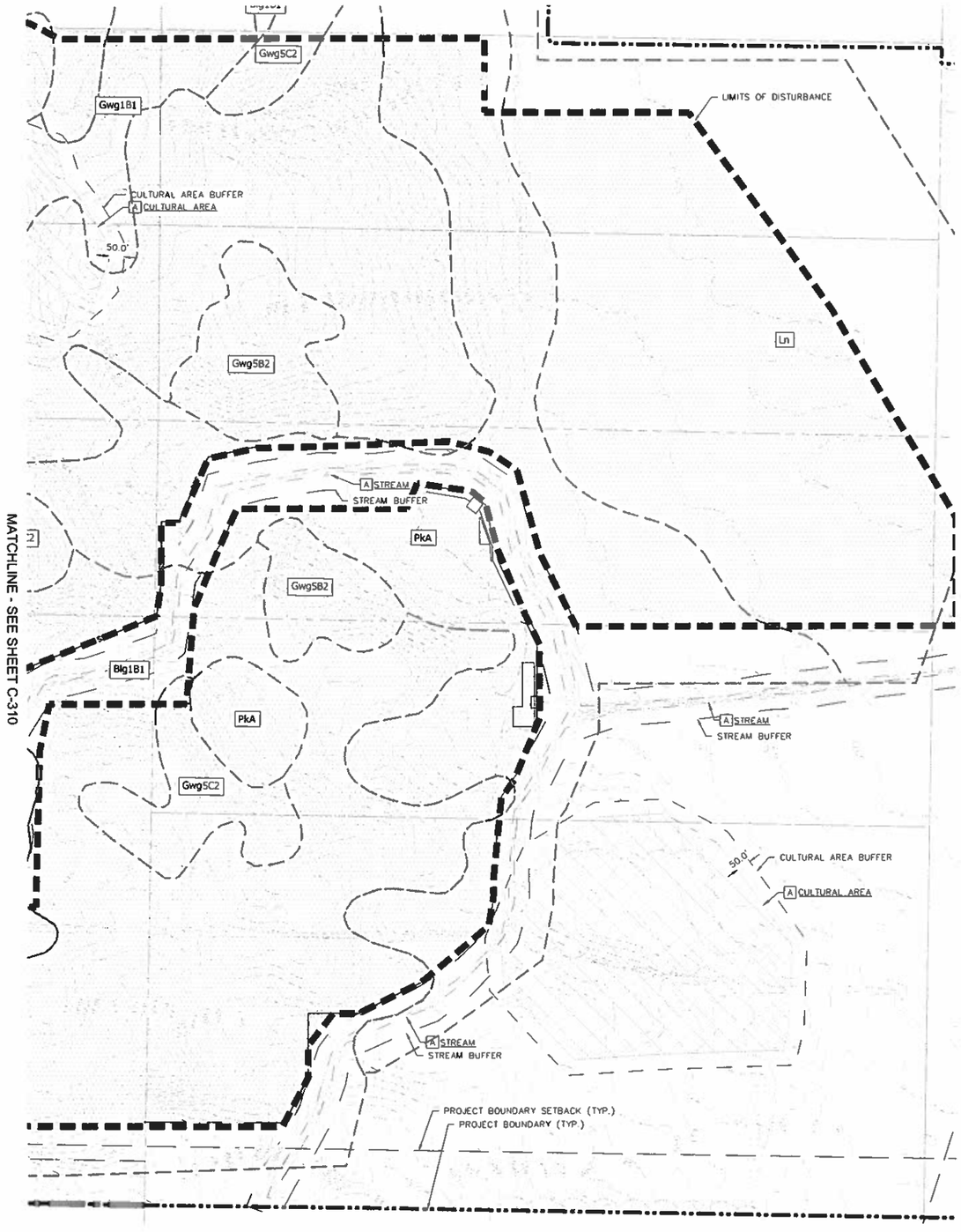
EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-410



NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
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EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-411

Drawing name: K:\Hen_cad\Solar\RES\168754044_ownership_hardin iii solar_cd\3 Design\CAD\plansheets\EX-Cont.dwg C-411 Jan 21, 2022 11:56am by: Evan Zawacka
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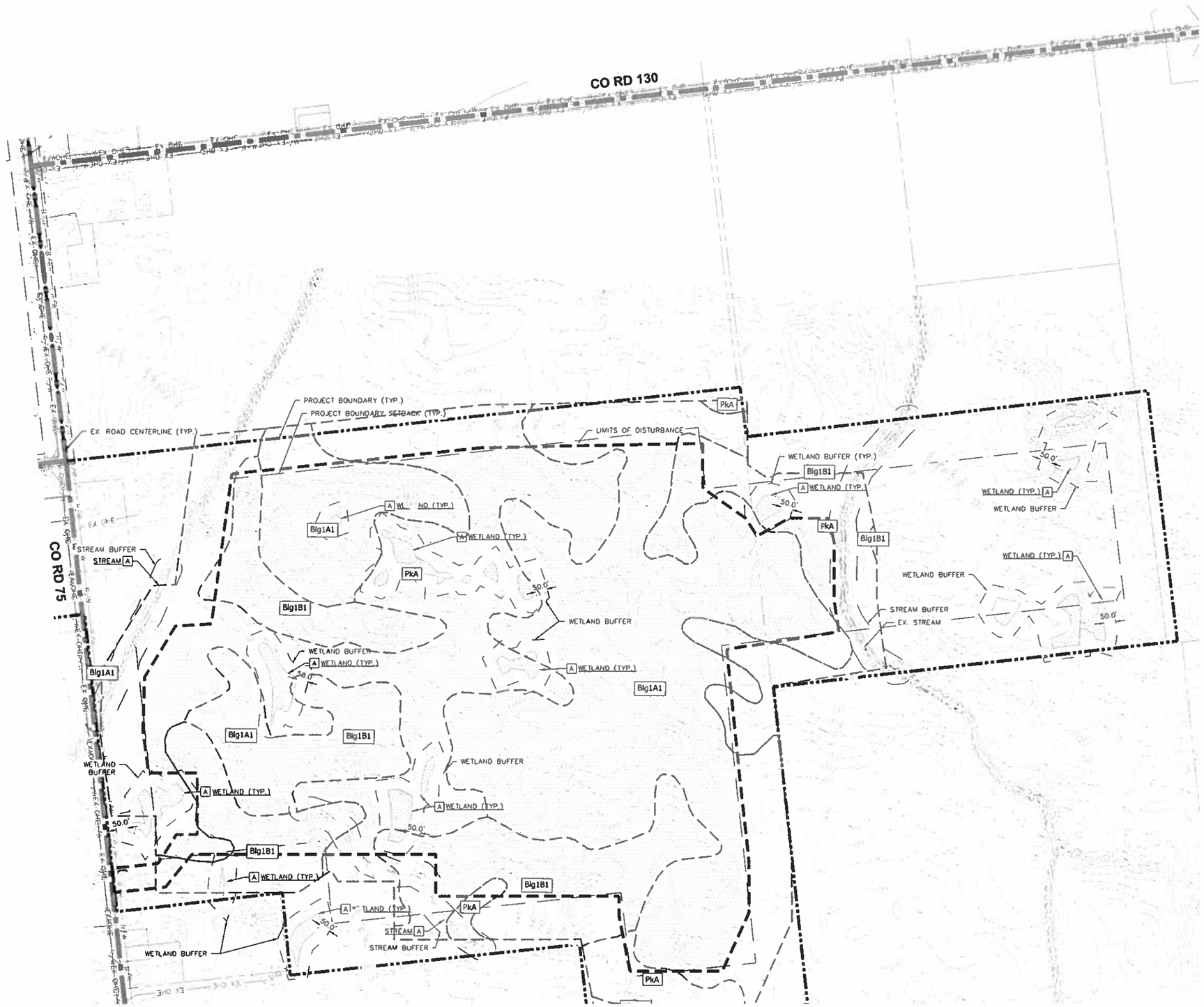

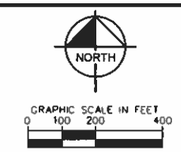

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- EX. TREE LINE
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- EX. STREAM
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- PANEL LIMITS
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KEY MAP

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EXISTING CONDITIONS AND DEMO

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-412

Drawing name: K:\den_civil\Solar\RES\168754044_greenwhip_hardin iii solar_oh\2 Design\CAD\plansheets\EX-Exist.dwg C-412 Jan 21, 2022 11:56am by: Evan.Zemaitis
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NORTH

GRAPHIC SCALE IN FEET
0 1000 2000 4000

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
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- EX. CULTURAL BUFFER
- EX. CONTOURS
- EX. FLOW (DIRECTION AND SLOPE)
- PR. CONTOURS
- PR. FLOW (DIRECTION AND SLOPE)
- PR. GRADING AREA (LESS THAN 6" FROM EG)
- PR. GRADING AREA (CUT)
- PR. GRADING AREA (FILL)
- PR. GRAVEL ACCESS ROAD
- PR. INVERTER
- PR. FENCE
- PR. CULVERT

CONSTRUCTION NOTES

1. 7' CHAIN LINK FENCE, SEE DETAIL 1, SHEET C-802.
2. 20' SWING ACCESS GATE, SEE DETAIL 3, SHEET C-802.
3. 16' SITE GRAVEL ACCESS ROAD, SEE DETAILS 1 AND 2, SHEET C-803.
4. EQUIPMENT PAD. REFER TO ELECTRICAL AND STRUCTURAL PLANS, SEE DETAIL 4, SHEET C-804.
5. TYPICAL ROAD ENTRANCE, SEE DETAIL 2, SHEET C-804.
6. 12" RCP CULVERT.
7. TYPICAL TURN AROUND, SEE DETAIL 3, SHEET C-804.

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SITE GRADING AND DRAINAGE PLAN - OVERALL

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE
01/21/2022
KHA PROJECT NO.
168754044
SHEET NUMBER
C-600

Drawing name: K:\Cols_Civil\Solar\RES\168754044_Hardin III Solar\Hardin III Solar_KH\2 Design\CAD\plansheets\CD-DV.dwg C-600 Jan 21, 2022 11:38am by Evan.Zanetta
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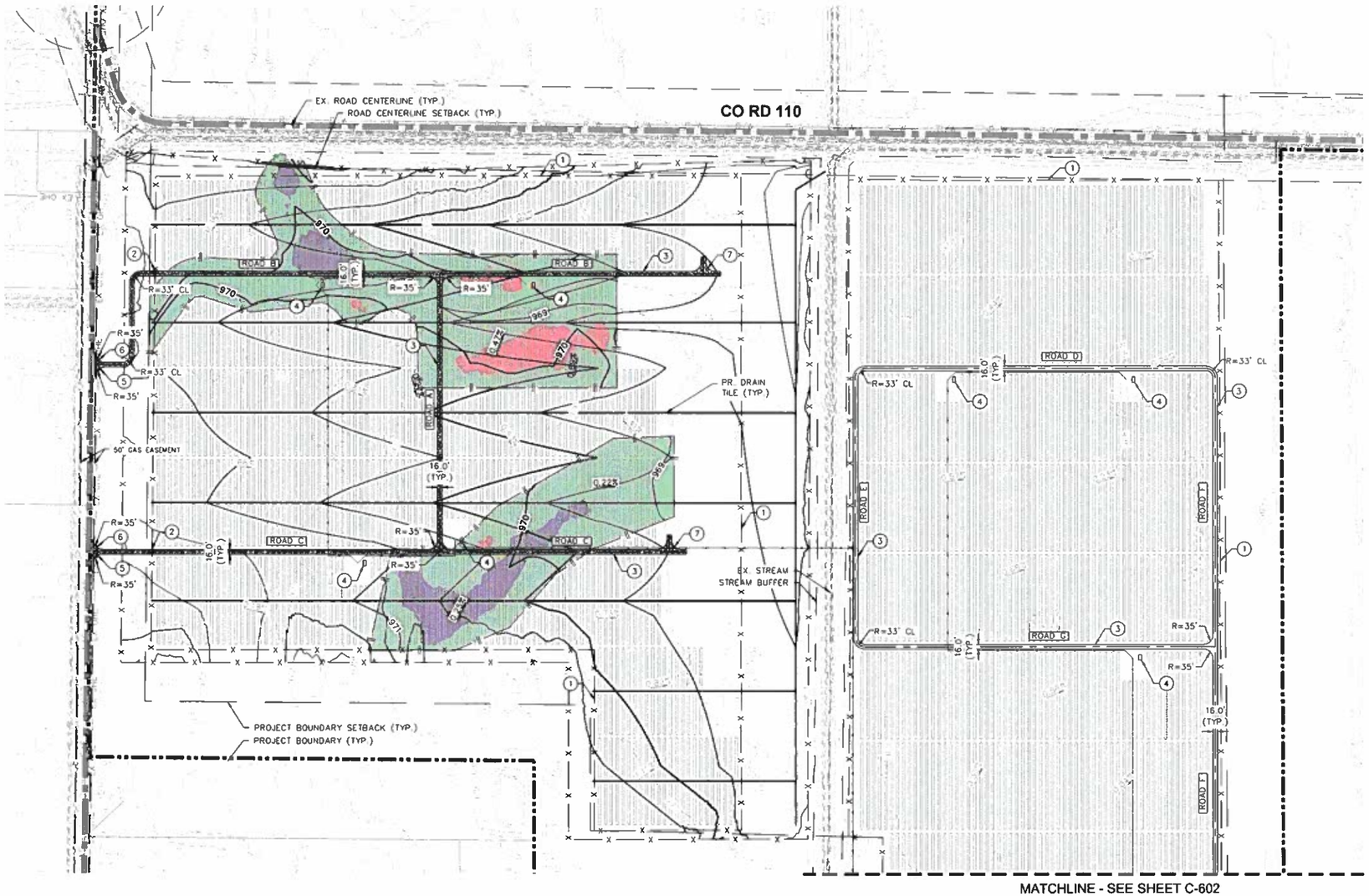

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
- EX. TREE LINE
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- EX. FLOW (DIRECTION AND SLOPE)
- PR. CONTOURS
- PR. FLOW (DIRECTION AND SLOPE)
- PR. GRADING AREA (LESS THAN 6" FROM EG)
- PR. GRADING AREA (CUT)
- PR. GRADING AREA (FILL)
- PR. GRAVEL ACCESS ROAD
- PR. INVERTER
- PR. FENCE
- PR. CULVERT

CONSTRUCTION NOTES

1. 7' CHAIN LINK FENCE, SEE DETAIL 1, SHEET C-802.
2. 20' SWING ACCESS GATE, SEE DETAIL 3, SHEET C-802.
3. 16' SITE GRAVEL ACCESS ROAD, SEE DETAILS 1 AND 2, SHEET C-803.
4. EQUIPMENT PAD. REFER TO ELECTRICAL AND STRUCTURAL PLANS, SEE DETAIL 4, SHEET C-804.
5. TYPICAL ROAD ENTRANCE, SEE DETAIL 2, SHEET C-804.
6. 12" RCP CULVERT.
7. TYPICAL TURN AROUND, SEE DETAIL 3, SHEET C-804.

KEY MAP

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DRAWN BY: AJH
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PREPARED FOR: rES power for good

SITE GRADING AND DRAINAGE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-601

Drawing name: K:\Min_Civil\Solar\RES\168754044_Inverterfp_Hardin III solar_civil\2 Design\CAD\plansheets\CD-Hardin.dwg C-601 Jan 21, 2022 11:38am by: Cole.Tamolis
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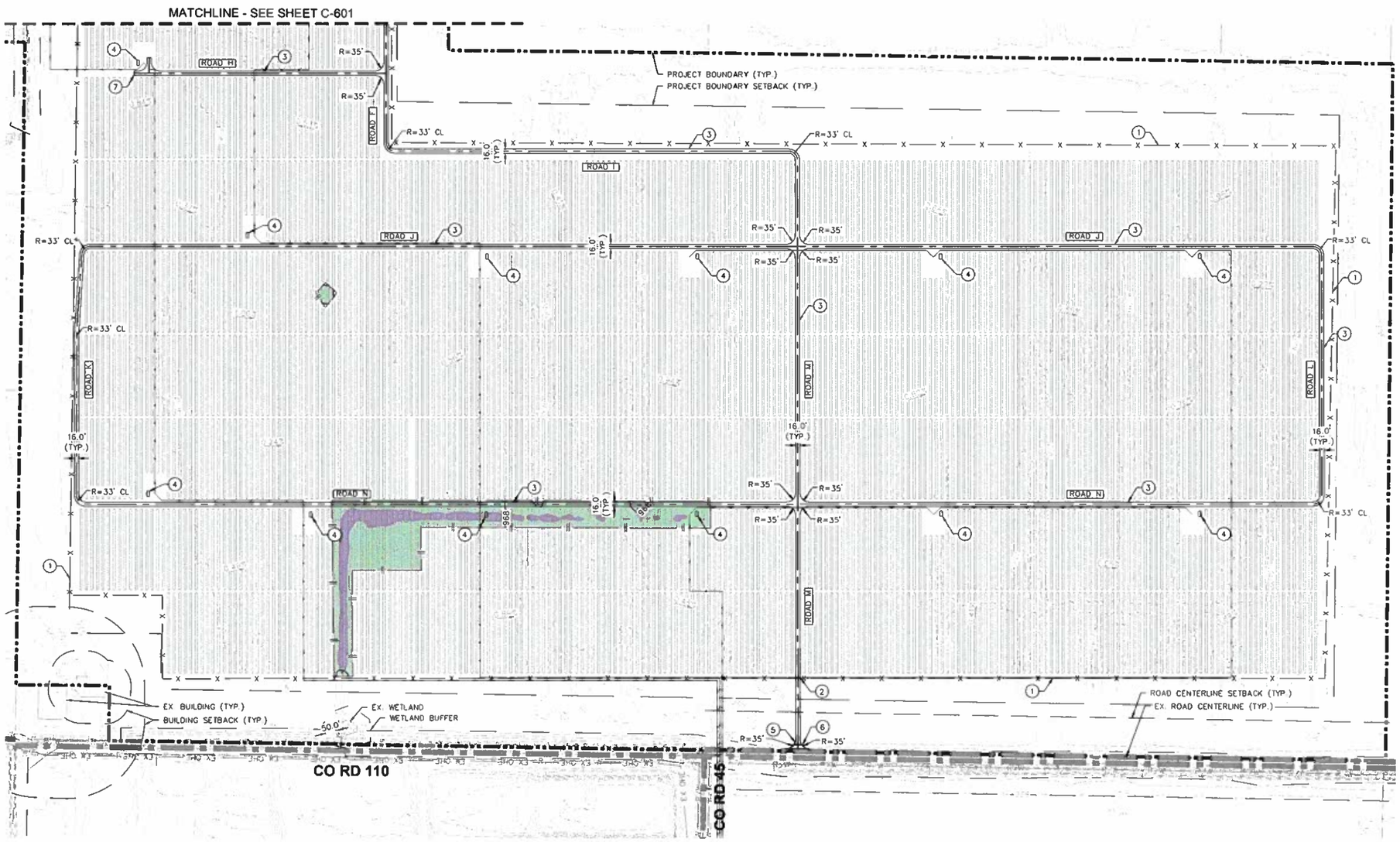

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
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5. TYPICAL ROAD ENTRANCE, SEE DETAIL 2, SHEET C-804.
6. 12" RCP CULVERT.
7. TYPICAL TURN AROUND, SEE DETAIL 3, SHEET C-804.

KEY MAP

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SITE GRADING AND DRAINAGE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-602

Drawing name: K:\lan_chf\Solar\RES\168754044_Jupiter_Hardin_III_solar_oh\2 Design\CAD\plansheets\C0-North.dwg C-602 Jan 21, 2022 11:38am by f.van.fenestra
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NORTH

GRAPHIC SCALE IN FEET
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5. TYPICAL ROAD ENTRANCE, SEE DETAIL 2, SHEET C-804.
6. 12" RCP CULVERT.
7. TYPICAL TURN AROUND, SEE DETAIL 3, SHEET C-804.

KEY MAP

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SITE GRADING AND DRAINAGE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO 168754044
SHEET NUMBER
C-603

Drawing name: K:\Sen_civil\Sites\RES\168754044_Invenergy_Hardin III solar_ob\2 Design\CAD\plansheets\C03-North.dwg C-603 Jan 21, 2022 11:58am by: Evan.Zamecka
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0 100 200 400

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- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
- EX. TREE LINE
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- EX. FLOW (DIRECTION AND SLOPE)
- PR. CONTOURS
- PR. FLOW (DIRECTION AND SLOPE)
- PR. GRADING AREA (LESS THAN 6" FROM EG)
- PR. GRADING AREA (CUT)
- PR. GRADING AREA (FILL)
- PR. GRAVEL ACCESS ROAD
- PR. INVERTER
- PR. FENCE
- PR. CULVERT

CONSTRUCTION NOTES

1. 7' CHAIN LINK FENCE, SEE DETAIL 1, SHEET C-802.
2. 20' SWING ACCESS GATE, SEE DETAIL 3, SHEET C-802.
3. 16' SITE GRAVEL ACCESS ROAD, SEE DETAILS 1 AND 2, SHEET C-803.
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HARDIN III SOLAR
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ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-604

Drawing name: K:\Man_civil\Solar\MES\168754044_Jeremy_Hardin III solar_civil\2 Design\CAD\plansheets\C2c-North.dwg C-604 Jan 21, 2022 11:36am by: Evan.Samorie
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KHA PROJECT NO. 168754044
SHEET NUMBER
C-605

Drawing name: K:\Man_civil\Solar\RES\168754044_pinnacrgy_hardin solar_sh12 Design\CAD\plansheets\C0-North.dwg C-605 Jan 21, 2022 11:56am by Evan.Zamolla
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SHEET NUMBER
C-606

Drawing name: K:\Man_civil\Solar\RES\168754044_Invenergy_Jordan B solar_oh\2 Design\CAD\plansheets\C01-North.dwg C-606 Jan 21, 2022 11:38am by Cole.Zemaitis
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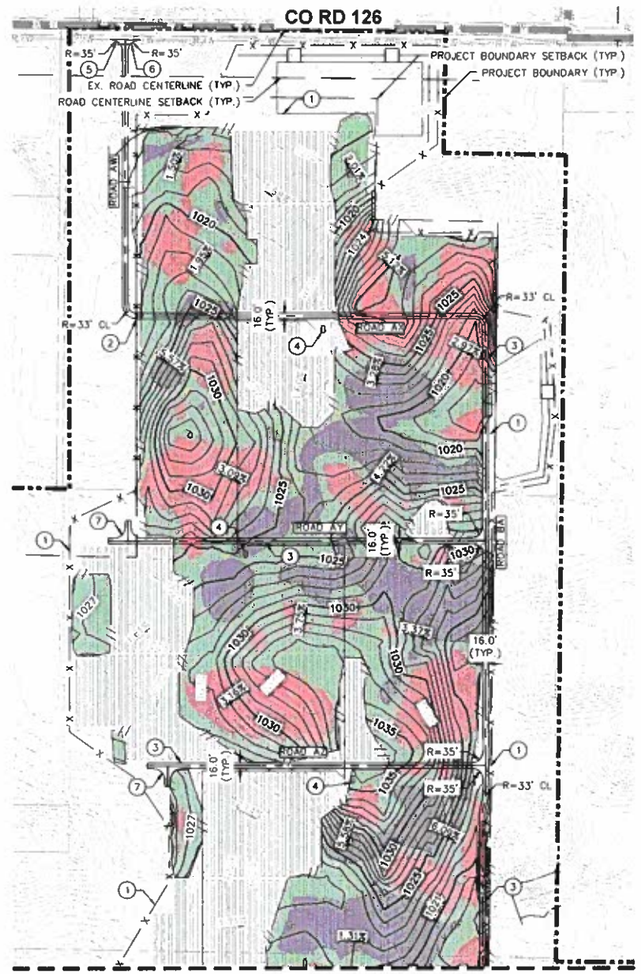

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0 100 200 400

LEGEND:

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- EX. RIGHT OF WAY
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7. TYPICAL TURN AROUND, SEE DETAIL 3, SHEET C-804.

KEY MAP

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SITE GRADING AND DRAINAGE PLAN

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ORIGINAL ISSUE
01/21/2022
KHA PROJECT NO.
168754044
SHEET NUMBER
C-607

Drawing name: F:\data_civil\Solar\PROJ\168754044_juwaney_hardin iii solar_oh\2 Design\CAD\plansheets\C2D-Rev1.dwg C-607 Jan 21, 2022 11:58am by: Evan.Zimmolis
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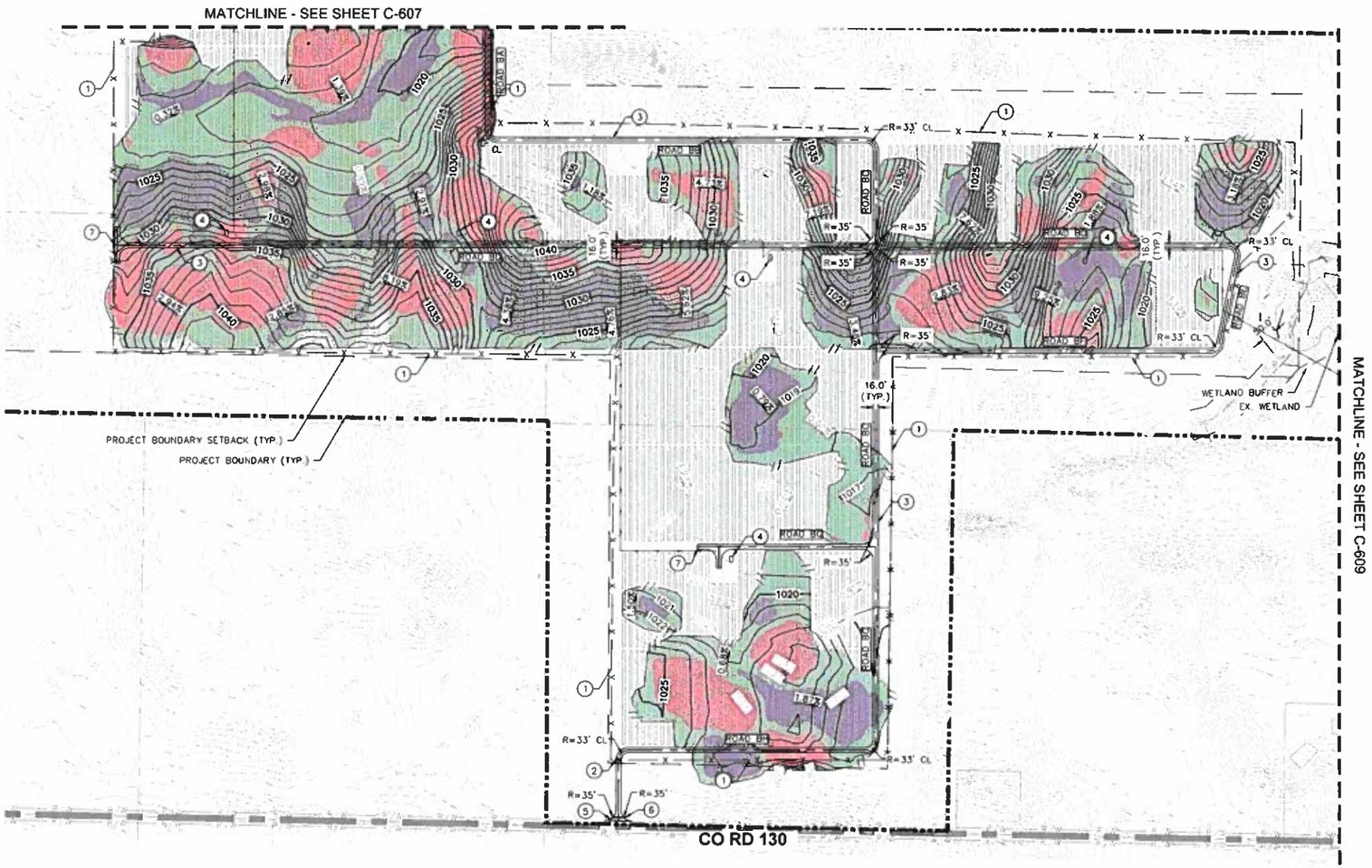

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0 100 200 400

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KEY MAP

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SITE GRADING AND DRAINAGE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-608

Drawing name: K:\dan_cleft\Solar\RES\168754044_Janesville_Hardin III solar_alt\2 Design\CAD\planesets\C2b-Rev1.dwg C-608 Jan 21, 2022 11:58am by: Evan.Zemplis
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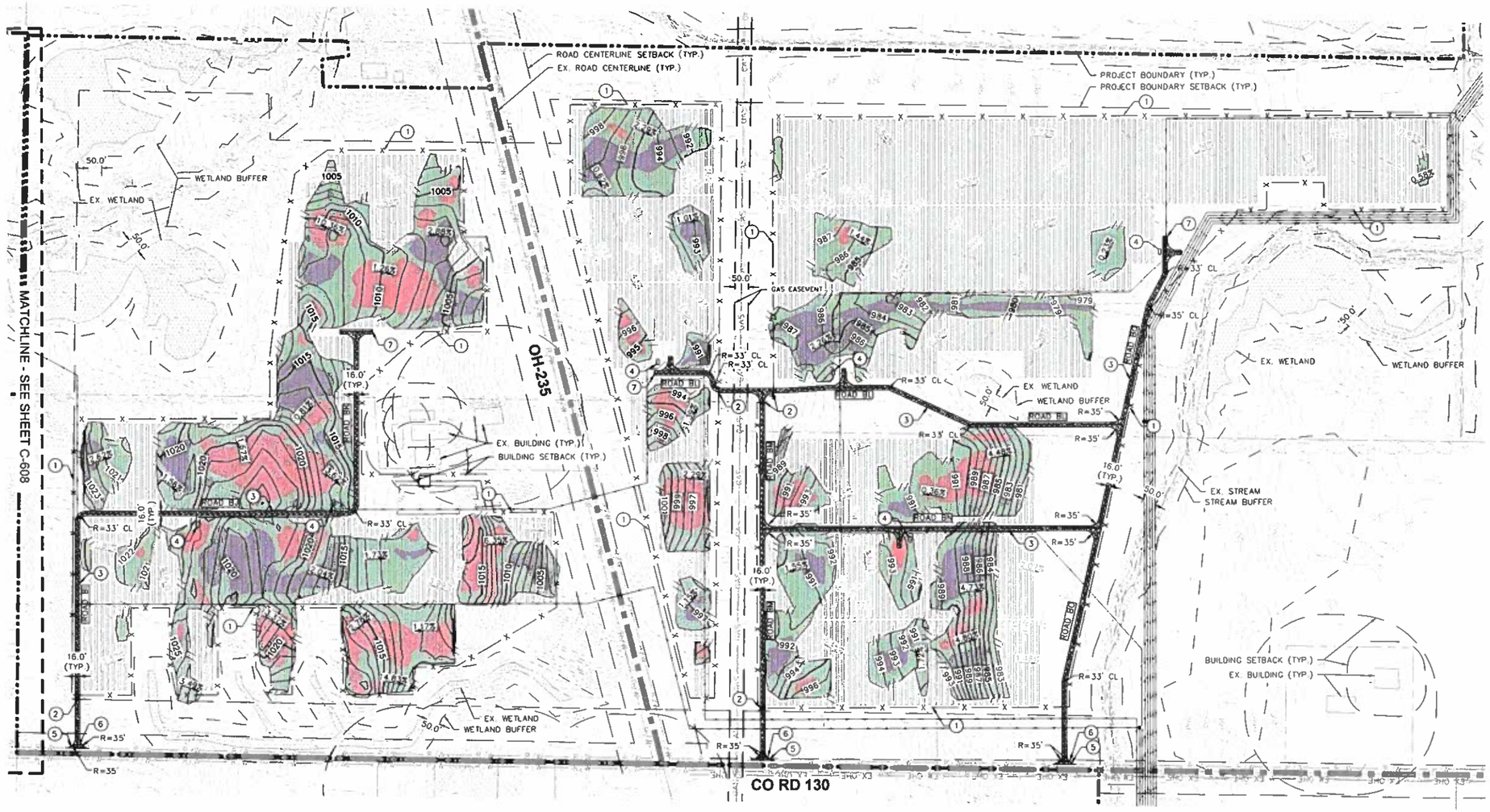

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
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CONSTRUCTION NOTES

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6. 12" RCP CULVERT.
7. TYPICAL TURN AROUND. SEE DETAIL 3, SHEET C-804.

KEY MAP

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SITE GRADING AND DRAINAGE PLAN

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ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-609

NORTH

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KEY MAP

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ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
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C-610

Drawing name: K:\Lan_Civil\Solar\RES\168754044_Jerusalem_Garden B solar_civil\2 Design\CAD\plansheets\C01-Fast.dwg C-610 Jan 21, 2022 11:56am by Evan.Zemaitis
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SITE GRADING AND DRAINAGE PLAN

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ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-611

Drawing name: K:\cen_ohd\Solar\PES\168754044_Invenergy_Hardin III solar only\2 Design\CAD\plansheets\C0-Fast.dwg C-611 Jan 21, 2022 11:50am by: Evan.Zemolin
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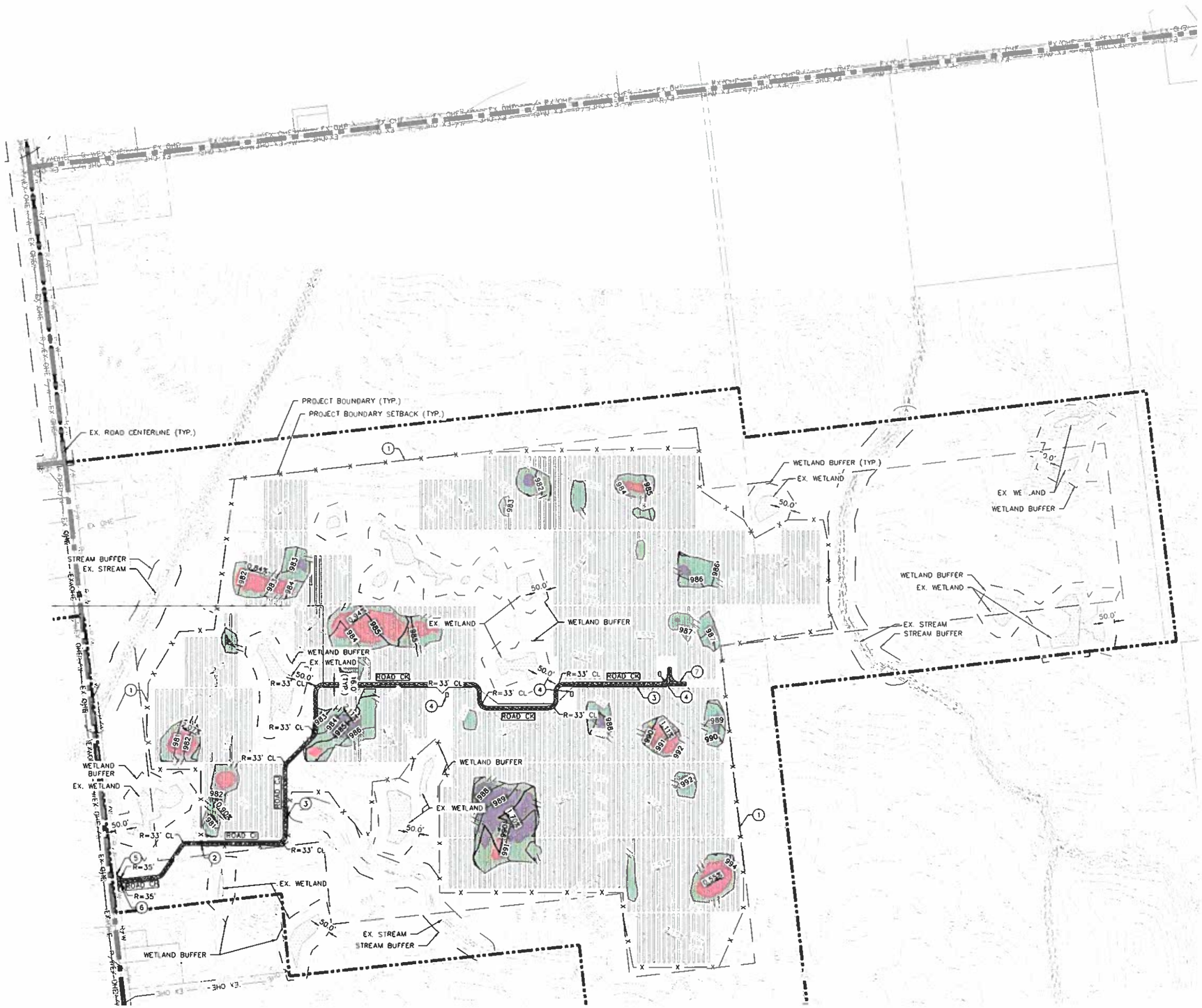

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

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- EX. TREE LINE
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- EX. FLOW (DIRECTION AND SLOPE)
- PR. CONTOURS
- PR. FLOW (DIRECTION AND SLOPE)
- PR. GRADING AREA (LESS THAN 6" FROM EG)
- PR. GRADING AREA (CUT)
- PR. GRADING AREA (FILL)
- PR. GRAVEL ACCESS ROAD
- PR. INVERTER
- PR. FENCE
- PR. CULVERT

CONSTRUCTION NOTES

1. 7' CHAIN LINK FENCE, SEE DETAIL 1, SHEET C-802.
2. 20' SWING ACCESS GATE, SEE DETAIL 3, SHEET C-802.
3. 16' SITE GRAVEL ACCESS ROAD, SEE DETAILS 1 AND 2, SHEET C-803.
4. EQUIPMENT PAD. REFER TO ELECTRICAL AND STRUCTURAL PLANS, SEE DETAIL 4, SHEET C-804
5. TYPICAL ROAD ENTRANCE, SEE DETAIL 2, SHEET C-804.
6. 12" RCP CULVERT.
7. TYPICAL TURN AROUND, SEE DETAIL 3, SHEET C-804.

KEY MAP

OHIO Utilities Protection SERVICE
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No.	REVISIONS	DATE	BY
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Kimley»Horn
2601 WALNUT-HORN AND ASSOCIATES, INC
7453 N. HIGH STREET, SUITE 200
COLUMBUS, OHIO 43235
PHONE: 630-487-5550
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SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
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SITE GRADING AND DRAINAGE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-612

Drawing name: K:\pm_civil\Solar\RES\168754044_hrnwarp_hardin iii solar civil2 Design\CAD\plansheets\GD-Grad.dwg C-612 Jan 21, 2022 11:58am by Evan.Zamolka
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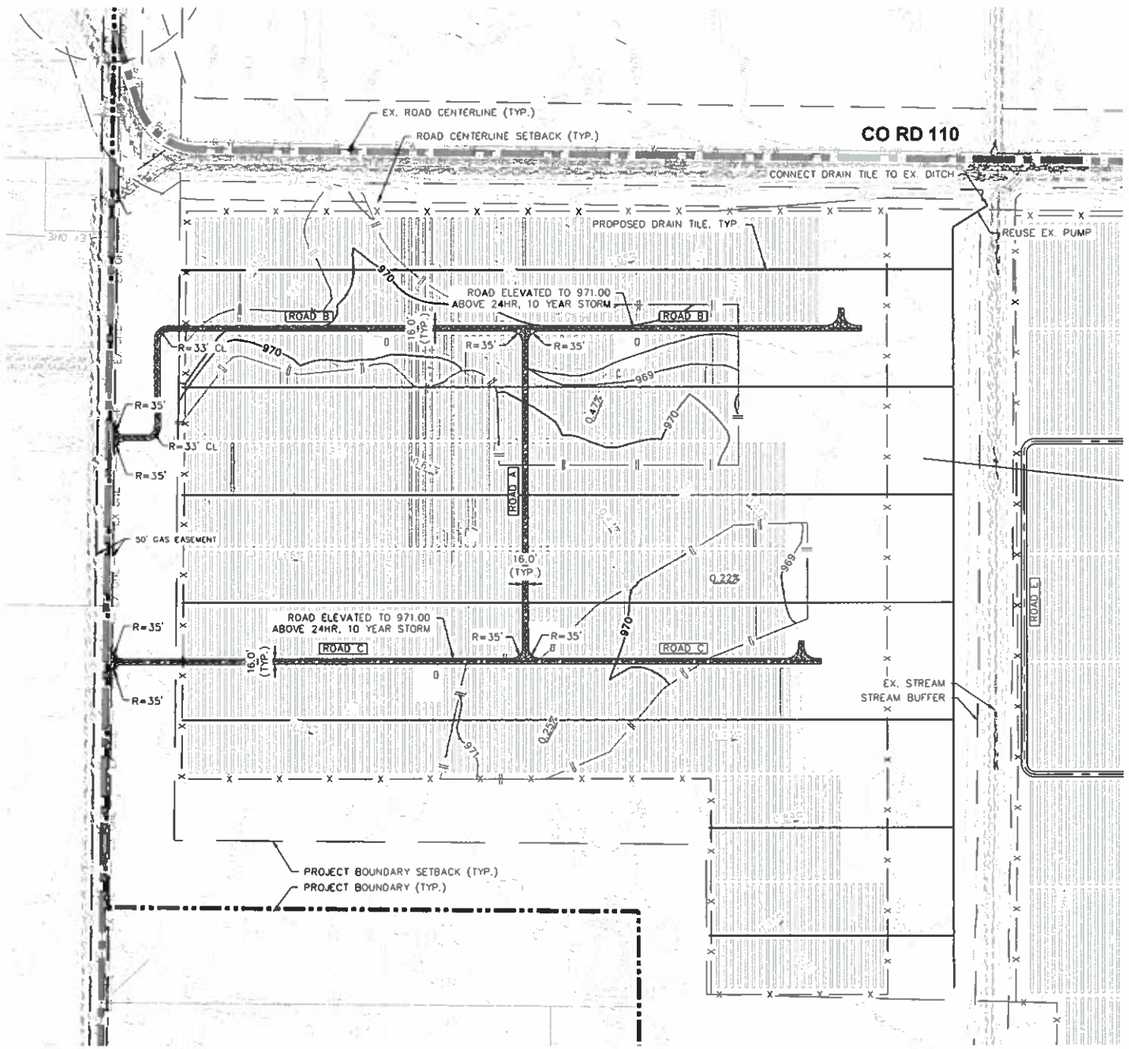
*DRAIN TILE DESIGN TO BE FURTHER DESIGNED IN 90%



NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

LEGEND:

- PROJECT BOUNDARY
- ADJ. / INTERIOR PROPERTY LINE
- EX. RIGHT OF WAY
- EX. EASEMENT
- SETBACK
- APPROXIMATE EX. ROAD CENTERLINE
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. STREAM
- EX. TREE LINE
- EX. WETLAND
- EX. WETLAND/STREAM BUFFER
- EX. CULTURAL EXCLUSION AREA
- EX. CULTURAL BUFFER
- EX. CONTOURS
- EX. FLOW (DIRECTION AND SLOPE)
- PR. CONTOURS
- PR. FLOW (DIRECTION AND SLOPE)
- PR. GRAVEL ACCESS ROAD
- PR. INVERTER
- PR. FENCE
- PR. DRAIN TILE

KEY MAP

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DRAIN TILE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-620

Drawing name: K:\OKI_Civil\Solar\RES\168754044_Jiverness_Hardin III Solar_DV\2 Design\CAD\PlanSheets\C0-DrainTile.dwg C-620 Jan 21, 2022 2:28pm by Erik.Sirock
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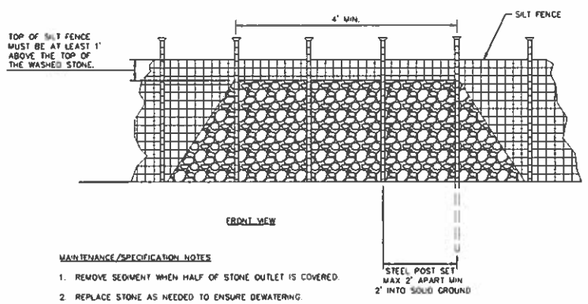
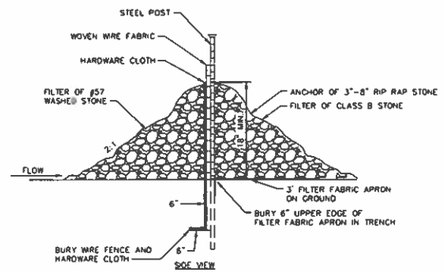




MAINTENANCE/SPECIFICATION NOTES

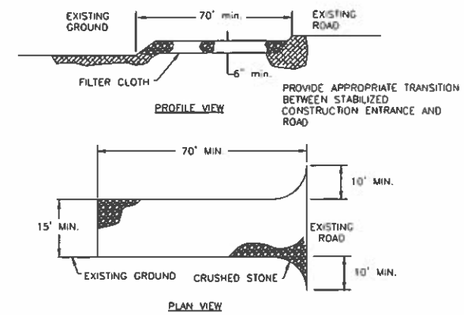
1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.
3. SILT FENCE OUTLETS SHOULD NOT BE LOCATED WHERE THE OUTFLOW WILL ERODE THE SOIL BELOW.

1 / C-800 SILT FENCE ROCK OUTLET DETAIL

SCALE: NTS

INSPECTION AND MAINTENANCE

1. INSPECT ROCK OUTLET FOR DISPLACEMENT AND REPLACE AS NECESSARY TO ENSURE PROPER FUNCTIONING.
2. VISUALLY INSPECT FOR SEDIMENT AND DEBRIS ACCUMULATION WHENEVER RAINFALL IS FORECASTED AND AFTER EVERY SIGNIFICANT STORM EVENT.
3. SEDIMENT MUST BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES HALF OF THE DEPTH OF THE BMP.
4. VISUALLY INSPECT FOR GEOTEXTILE FABRIC DEGRADATION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES. REPLACE GEOTEXTILE FABRIC IMMEDIATELY TO PREVENT CONTENTS FROM BEING TRANSPORTED.
5. REMOVE AND DISPOSE OF THE STRUCTURE AND ACCUMULATED SEDIMENT WHEN THE STRUCTURE IS NO LONGER NEEDED. SEDIMENT AND AGGREGATE MAY BE DISPERSED ONSITE.



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE ODOT #2 (1.2-2.5 INCH), OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 70 FEET.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE PROPOSED ENTRANCE.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE SURFACE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING ROAD. THIS MANY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO EXISTING ROAD SHALL BE REMOVED IMMEDIATELY.

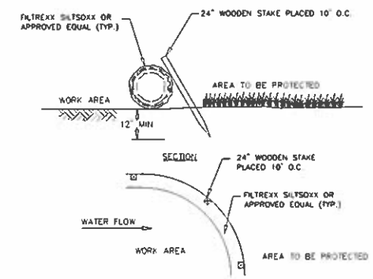
2 / C-800 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE DETAIL

SCALE: NTS

INSPECTION AND MAINTENANCE

1. VISUALLY INSPECT THE BMP ON A REGULAR BASIS TO ENSURE VEHICLE TRACKING PAD IS INSTALLED AND ANCHORED PROPERLY.
2. DAILY CLEANUP MAY BE REQUIRED, IF DIRT IS TRACKED ONTO THE STREET IT MUST BE CLEANED UP WITHIN 24 HOURS.
3. VEHICLE TRACKING PADS SHOULD ONLY BE REMOVED WHEN SITE IS STABILIZED AND THE POTENTIAL FOR VEHICLE TRACKING TO OCCUR DOES NOT EXIST. AGGREGATE FROM TRACKING PAD MAY BE WASHED AND DISPERSED ONSITE.

THESE CONSTRUCTION DETAILS HAVE BEEN PROVIDED FOR REFERENCE ONLY WITH THE 30% CIVIL DESIGN. THE DETAILS ARE BASED ON SIMILAR PROJECTS IN OHIO, BUT HAVE NOT BEEN FINALIZED AND ARE SUBJECT TO CHANGE BASED ON FINAL ENGINEERING.



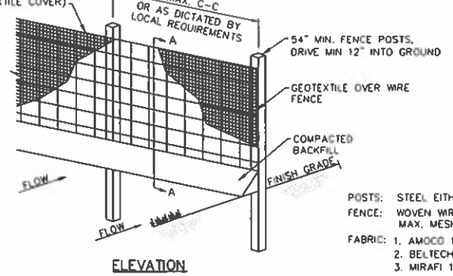
1. FILTER SOCK SHALL BE 8" DIAMETER MIN.
2. SOCKS TO BE FILLED WITH BIODEGRADABLE COMPOST MATERIAL.
3. WOODEN STAKES SHALL BE PLACED DOWNSLOPE OF THE FILTER SOCK.

3 / C-800 FILTER SOCK SEDIMENT CONTROL

SCALE: NTS

INSPECTION AND MAINTENANCE

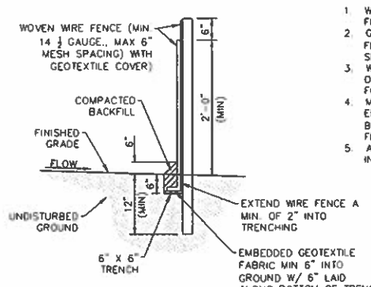
1. INSPECT BMP ON A WEEKLY BASIS AND AFTER STORM EVENTS OF > 0.5" OF PRECIPITATION
2. SEDIMENT SHALL BE REMOVED FROM THE BMP WHEN IT REACHES 6" IN DEPTH.
3. IF STRUCTURAL DEFICIENCIES ARE FOUND DURING INSPECTIONS, THE BMP SHALL BE IMMEDIATELY REPAIRED OR REPLACED.



ELEVATION

POSTS: STEEL EITHER T OR U TYPE.
FENCE: WOVEN WIRE, 14-1/2 GA. 6" MAX. MESH OPENING
FABRIC: 1. AMOCO 1198
2. BELTECH 810
3. MIRAFI 130X
4. LING GTF 190
5. SI 915 SC

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE



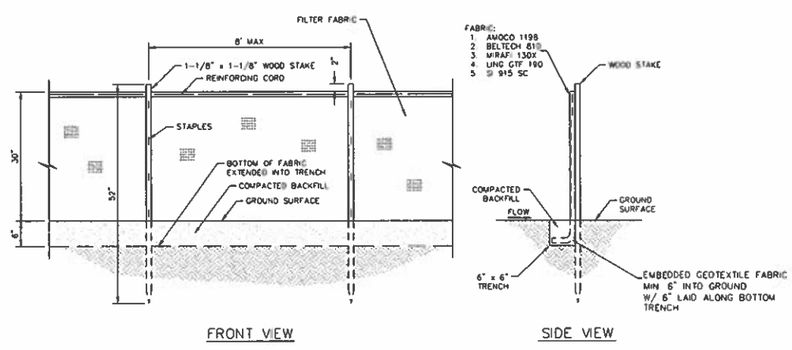
SECTION A-A

4 / C-800 SEDIMENTATION/ SILT FENCE WITH WIRE SUPPORT

SCALE: NTS

INSPECTION AND MAINTENANCE

1. INSPECT BMP ON A WEEKLY BASIS AND AFTER STORM EVENTS OF > 0.5" OF PRECIPITATION.
2. IF STRUCTURAL DEFICIENCIES ARE FOUND DURING INSPECTIONS, THE BMP SHALL BE IMMEDIATELY REPAIRED OR REPLACED.
3. SEDIMENT SHALL BE REMOVED FROM THE BMP WHEN IT REACHES 6" IN DEPTH.



FRONT VIEW

SIDE VIEW

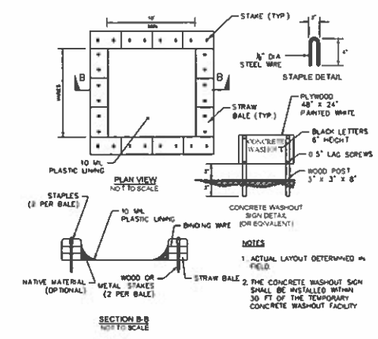
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

5 / C-800 STANDARD SILT FENCE

SCALE: NTS

INSPECTION AND MAINTENANCE

1. INSPSECT BMP ON A WEEKLY BASIS AND AFTER STORM EVENTS OF > 0.5" OF PRECIPITATION.
2. IF STRUCTURAL DEFICIENCIES ARE FOUND DURING INSPECTIONS, THE BMP SHALL BE IMMEDIATELY REPAIRED OR REPLACED.
3. SEDIMENT SHALL BE REMOVED FROM THE BMP WHEN IT REACHES 6" IN DEPTH.



NOTES

1. ACTUAL LAYOUT DETERMINED IN FIELD
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY

6 / C-800 CONCRETE WASHOUT DETAIL

SCALE: NTS

INSPECTION AND MAINTENANCE

1. INSPECT WASHOUT FACILITY DAILY AND AFTER STORM EVENTS OF > 0.5" OF PRECIPITATION. PRIOR TO EXPECTED RAIN EVENTS, THE WASHOUTS LIQUID LEVEL SHOULD BE LOWERED OR THE CONTAINER COVERED TO AVOID OVERFLOW DURING EVENT.
2. IMMEDIATELY REPAIR OR REPLACE STRUCTURAL DEFICIENCIES.
3. WHEN THE WASHOUT CONTAINER IS FILLED TO 75% CAPACITY EXCESS WATER SHALL BE PROPERLY DISPOSED OF. REMAINING HARDENED CEMENTITIOUS SOLIDS SHALL BE REMOVED AND PROPERLY DISPOSED OF.

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No.	REVISIONS	DATE	BY
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7965 N. HIGH STREET, SUITE 200
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SCALE: AS NOTED
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DRAWN BY: ALH
CHECKED BY: CPC

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EROSION CONTROL DETAILS

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-800

Drawing name: K:\dev_civil\Solar\RES\168754044_everengy_hardin iii solar_oh\2 Design\CAD\plansheet\C800 - CONSTRUCTION DETAILS.dwg C-800 Jan 21, 2022 11:56am by Evan.Zemaitis
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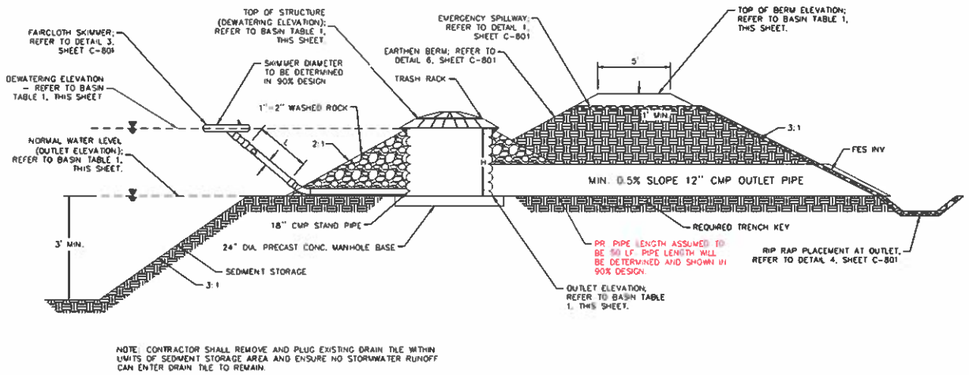


NOTE: CONTRACTOR SHALL REMOVE AND PLUG EXISTING DRAIN TILE WITHIN LIMITS OF SEDIMENT STORAGE AREA AND ENSURE NO STORMWATER RUNOFF CAN ENTER DRAIN TILE TO REMAIN.

1 / C-801 TEMPORARY SEDIMENT BASIN CROSS SECTION WITH EMERGENCY SPILLWAY

SCALE: NTS

BASIN NO.	DRAINAGE AREA (AC)	DISTURBED AREA (AC)	REQUIRED DEWATERING VOLUME (ft^3)	REQUIRED SEDIMENT STORAGE (ft^3)
DA_009	11.96	5.75	21,528	5,750
DA_030	15.4	11.88	27,720	11,880
DA_039	27.08	12.45	48,744	12,450
DA_046	79.9	8.81	143,820	8,810
DA_048	33.57	17.75	60,426	17,750
DA_051	47.44	32.08	85,392	32,080
DA_054	38.18	18.03	68,724	18,030
DA_074	8.45	5.29	15,210	5,290
DA_103	104.93	8.52	188,874	8,520
DA_112	13.4	5.3	24,120	5,300
DA_115	10.77	7.84	19,386	7,840

INSPECTION AND MAINTENANCE

1. INSPECT SEDIMENT BASINS BEFORE, DURING, AND AFTER EVERY STORM EVENT AND AT REGULAR INTERVALS FOR PROPER FUNCTIONING. PRESENCE OF ANY EMBANKMENT DAMAGE, OR DAMAGE TO THE OUTLET STRUCTURE.
2. REPAIR ANY DAMAGE TO STRUCTURE AND REMOVE ANY OUTLET OBSTRUCTIONS IMMEDIATELY AFTER INSPECTION.
3. SEDIMENT SHALL BE REMOVED AND THE AREA DIRECTLY BEHIND THE BERM SHALL BE REGARDED TO ITS ORIGINAL DIMENSIONS AT SUCH POINT WHEN THE CAPACITY OF THE IMPOUNDMENT HAS BEEN REDUCED TO ONE-HALF OF ITS ORIGINAL STORAGE CAPACITY.
4. THE REMOVED SEDIMENT SHALL BE STOCKPILED OR REDISTRIBUTED IN AREAS WHICH ARE PROTECTED FROM EROSION.

RANDOM RIPRAP REQUIREMENTS

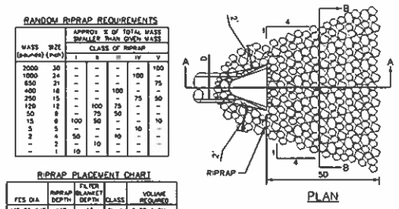
MASS SIZE (lbs.-inch)	(inch)	APPROX. % OF TOTAL MASS SMALLER THAN GIVEN MASS				
		CLASS OF RIPRAP				
		I	II	III	IV	V
2000	30	–	–	–	–	100
1000	24	–	–	–	100	–
850	21	–	–	–	–	75
400	18	–	–	100	–	–
250	15	–	–	–	75	50
120	12	–	100	75	–	–
50	9	–	75	50	–	–
15	6	100	50	–	–	10
5	5	50	–	–	10	–
2	4	50	–	10	–	–
–	3	–	10	–	–	–
–	1	10	–	–	–	–

RIPRAP PLACEMENT CHART

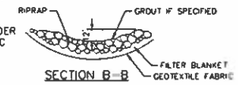
FES DIA	RIPRAP DEPTH	FILTER BLANKET DEPTH	CLASS	VOLUME REQUIRED
12" TO 24"	12"	6"	CL. I	3 TO 4 CY
27" TO 33"	18"	9"	CL. III	9 TO 12 CY
36" TO 48"	18"	9"	CL. III	14 TO 20 CY
54" AND UP	24"	12"	CL. IV	25 CY AND UP

(ONE CUBIC YARD IS APPROXIMATELY 2,800 LBS.)

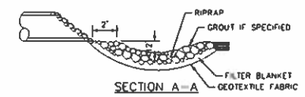
NOTE:
FILTER BLANKET REQUIRED UNDER RIP RAP OR GEOTEXTILE FABRIC



PLAN



SECTION B–B



SECTION A–A

* GEOTEXTILE FABRIC TO BE 100 lb. TENSILE STRENGTH SUCH AS US FABRIC'S US 100-NW OR APPROVED EQUAL

2 / C-801 RIP RAP PLACEMENT AT OUTLET

SCALE: NTS

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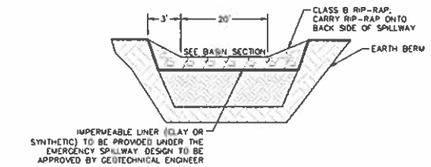
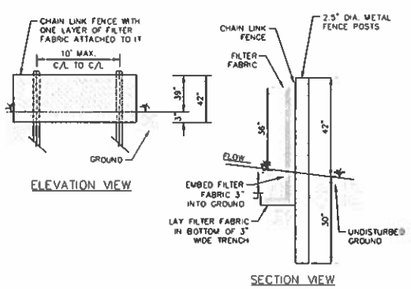


3 / C-801 EMERGENCY SPILLWAY DETAIL

SCALE: NTS



SUPER SILT FENCE
NO SCALE

FENCING

CHAIN LINK FENCE MUST BE 39" ABOVE GRADE WITH 3" EMBEDDED FOR A TOTAL FABRIC WIDTH OF 42". THE POST MUST BE 42" ABOVE GRADE WITH 30" PLACED BELOW GRADE (WITHOUT CONCRETE) FOR A TOTAL LENGTH OF 72".

NOTES

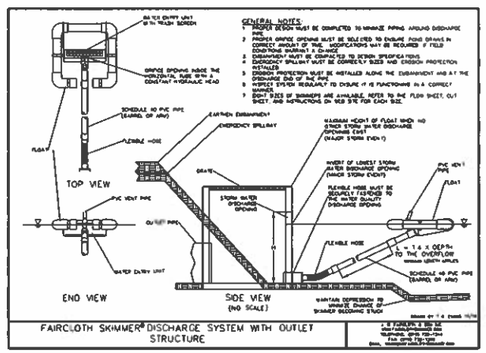
1. CHAIN LINK FENCE MUST BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES
2. FILTER FABRIC MUST BE FASTENED SECURELY TO CHAIN LINK FENCE WITH TIES SPACED HORIZONTALLY 24" AT THE TOP AND MIDSECTION.
3. PHYSICAL PROPERTIES OF THE FILTER FABRIC MUST CONFORM TO THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
4. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, THEY MUST BE OVERLAPPED BY 6".
5. MAINTENANCE MUST BE PERFORMED AS NEEDED AND MATERIAL MUST BE REMOVED WHEN SEDIMENT BUILD-UP REACHES 50% OF THE HEIGHT OF THE SUPER SILT FENCE.

4 / C-801 SUPER SILT FENCE

SCALE: NTS

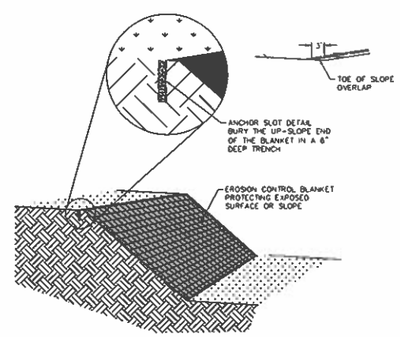
INSPECTION AND MAINTENANCE

1. INSPECT BMP ON A WEEKLY BASIS AND AFTER STORM EVENTS OF > 0.5" OF PRECIPITATION.
2. IF STRUCTURAL DEFICIENCIES ARE FOUND DURING INSPECTIONS, THE BMP SHALL BE IMMEDIATELY REPAIRED OR REPLACED.
3. SEDIMENT SHALL BE REMOVED FROM THE BMP WHEN IT REACHES 6" IN DEPTH.



5 / C-801 SKIMMER DISCHARGE SYSTEM

SCALE: NTS



NOTES:

STRIPS OF THE BLANKET SHALL BE INSTALLED PARALLEL TO THE DIRECTION OF FLOW OVER THE SURFACE WHICH IS TO BE PROTECTED.

THE UP-SLOPE END OF THE BLANKET SHALL BE BURIED IN A TRENCH MEASURING 6 INCHES DEEP AND 6 INCHES WIDE FOR THE ENTIRE WIDTH OF THE END. THE SOIL SHALL BE BACKFILLED INTO THE TRENCH AND TAMPED FIRMLY INTO PLACE. STAPLES SHALL BE PLACED EVERY 12 INCHES ALONG THE END OF THE BLANKET.

EDGES OF ADJACENT STRIPS OF THE BLANKET SHALL BE OVERLAPPED A MINIMUM OF 4 INCHES AND SHALL BE STAPLED EVERY 3 FEET ALONG THE OVERLAP.

WHEN JOINING STRIPS OF THE BLANKET END TO END, A TRENCH SIMILAR TO THE ONE DUG AT THE BEGINNING OF THE ORIGINAL STRIP SHALL BE DUG AT THE UP-SLOPE END OF THE NEW STRIP. THE END OF THE NEW STRIP SHALL BE FOLDED UNDER AT LEAST 12 INCHES WITH THE FOLD BEING PLACED IN A LIKE MANNER IN THE TRENCH AS THE BEGINNING END OF THE ORIGINAL STRIP. STAPLES SHALL BE INSTALLED AT 12 INCH INTERVALS ALONG THE TRENCH.

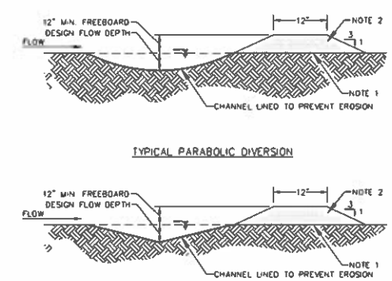
STAPLES FOR ANCHORING SOIL STABILIZING MATERIALS SHALL BE MADE OF 10 GAUGE WIRE OR HEAVIER. THEY SHALL BE 6 TO 10 INCHES IN LENGTH, WITH THE LONGER BEING USED IN LOOSE OR UNSTABLE SOILS. THERE SHALL BE ONE STAPLE FOR EACH 4 SQUARE FEET OF THE BLANKET TO ASSURE PROPER BONDING BETWEEN THE SOIL AND THE MAT MATERIAL.

6 / C-801 EROSION CONTROL BLANKET DETAIL

SCALE: NTS

INSPECTION AND MAINTENANCE

1. INSPECT BMP ON A WEEKLY BASIS AND AFTER STORM EVENTS OF > 0.5" OF PRECIPITATION.
2. IMMEDIATELY REPAIR OR REPLACE THE BLANKET DUE TO ANY DAMAGE.
3. DO NOT MOW WHEN THE BLANKETED AREA IS WET.
4. COMPOSTABLE OR PHOTODEGRADABLE BLANKETS DO NOT NEED TO BE REMOVED FROM THE SITE.



NOTES:

1. REMOVE ANY EXISTING VEGETATION AND SCARIFY OR BENCH ADJACENT SOILS PRIOR TO PLACING BERM.
2. BERM MATERIALS MUST BE ADEQUATELY COMPACTED AND IMMEDIATELY STABILIZED.
3. DIVERSION DITCHES/BERMS MUST BE IMMEDIATELY STABILIZED TO PREVENT EROSION AND TRANSPORT OF SEDIMENT.

7 / C-801 TEMPORARY DIVERSION SWALE WITH BERM

SCALE: NTS

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DRAWN BY: ALH
CHECKED BY: CPC

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EROSION CONTROL DETAILS

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-801

Drawing name: K:\Mes_civil\Solar\NES\168754044_riverwoop_hardin III solar_oh\12 Design\CAD\plansheet\C800 - CONSTRUCTION DETAILS.dwg Jan 21, 2022 11:58am by: Evan.Zamolla
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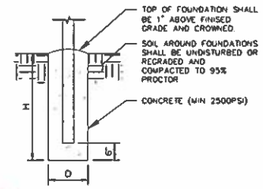
FENCE POST SCHEDULE				
FENCE POST	NOMINAL PIPE SIZE (NPS) (1)	FOUNDATION DIMENSIONS (2)		
		CONCRETE		DRIVEN POST
		H	D	H
LINE POST	2"	3'-6"	0'-10"	4'-0"
TERMINAL POST	2-1/2"	3'-6"	1'-0"	4'-0"
GATE POST - VEHICLE	3-1/2"	4'-0"	1'-4"	5'-0"
GATE POST - PEDESTRIAN	2-1/2"	3'-6"	1'-0"	4'-0"
BRACE RAIL	1-1/4"	-	-	-
WELDED GATE FRAME	1-1/2"	-	-	-

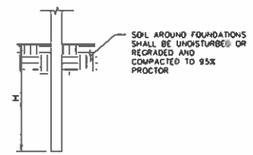
(1) FENCE POST DIMENSIONS ARE LISTED BELOW AND ALL POSTS SHALL BE IN ACCORDANCE WITH ASTM F1083, SCHEDULE 40 OR ASTM F1043, GROUP C

(2) FOUNDATIONS SHALL BE CONCRETE OR DRIVEN DIRECTLY INTO GRADE (LINE POST ONLY) AS SHOWN BELOW. DEPTH SHALL BE A MINIMUM OF 6" BELOW FROST DEPTH OR AS LISTED IN THE FENCE POST SCHEDULE, WHICHEVER IS DEEPER

CONCRETE



DRIVEN (LINE POST ONLY)



NOMINAL PIPE SIZE AND FOUNDATION DIMENSIONS ARE ROUGH ESTIMATES BASED ON HARDIN 2. THE HARDIN 3 FENCE POST SCHEDULE WILL BE FINALIZED DURING 90% DESIGN

NPS (NOMINAL PIPE SIZE)	OUTSIDE DIAMETER	PIPE WALL THICKNESS	
		ASTM F1083 SCHEDULE 40 F_y= 30 KSI	ASTM F1043 GROUP 1C F_y= 50 KSI
1-1/2"	1-5/8"	0.140"	0.111"
1-1/2"	1-7/8"	0.145"	0.120"
2"	2-3/8"	0.154"	0.130"
2-1/2"	2-7/8"	0.203"	0.160"
3"	3-1/2"	0.216"	0.160"
3-1/2"	4"	0.226"	0.160"
4"	4-1/2"	0.237"	N/A

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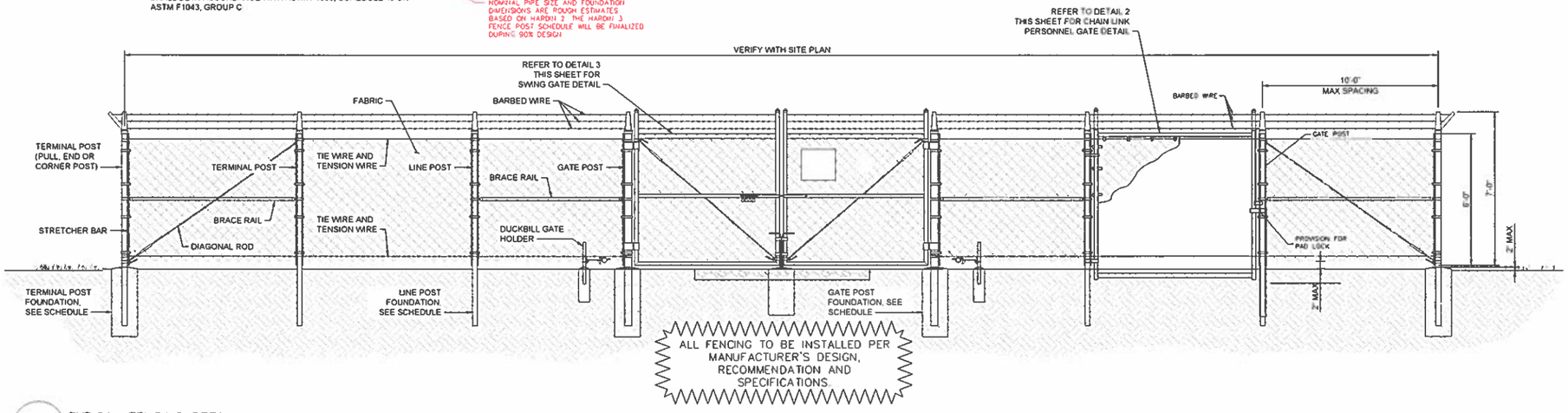
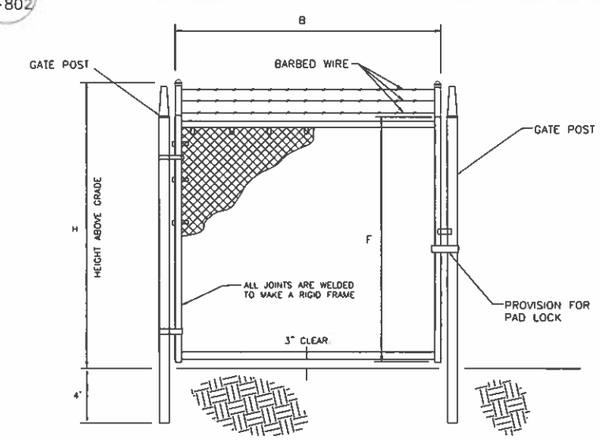


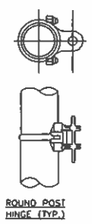
1 C-802 TYPICAL FENCING DETAIL

SCALE: NTS



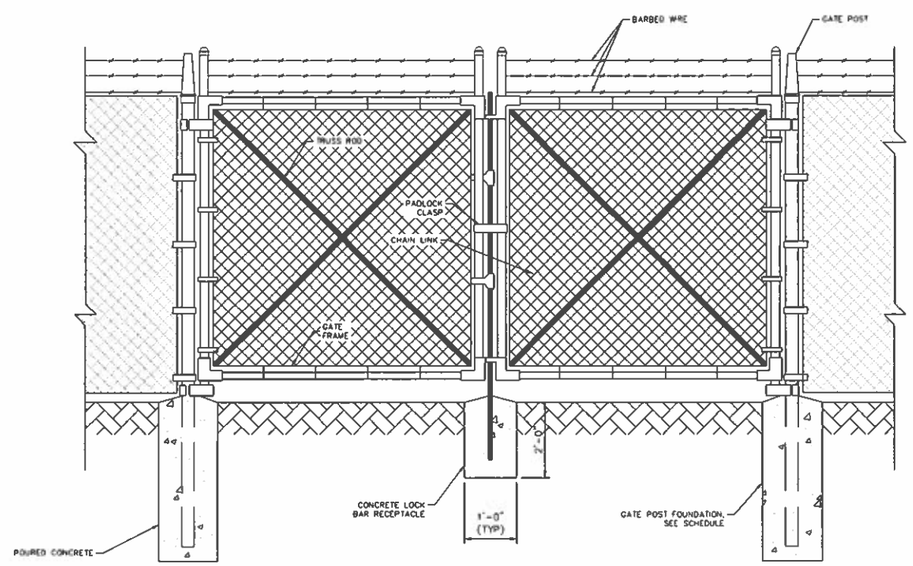
ELEVATION

NOMINAL HEIGHT (H)	ACTUAL (F)	OPENING (B)
7'-0"	6'-0"	4'-0"



2 C-802 CHAIN LINK PERSONNEL GATE

SCALE: NTS



3 C-802 SWING GATE DETAIL

SCALE: NTS

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DESIGNED BY: CRS
DRAWN BY: ALH
CHECKED BY: CPC

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CONSTRUCTION DETAILS

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
C-802

Drawing name: K:\cen_civil\Solar\KES\168754044_evenergy_hardin iii solar_oh\2 Design\CAD\plansheets\C800 - CONSTRUCTION DETAILS.dwg C-802 Jan 21, 2022 11:58am by: Evan.Zemaitis
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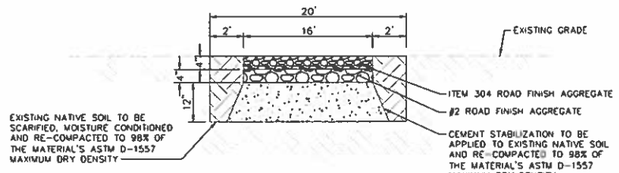
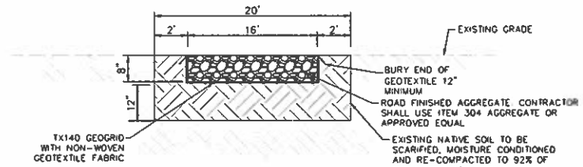


NOTES:
1. REMOVE ALL GRASSES AND ORGANICS WITHIN ACCESS ROAD AREA.
2. SCARIFY, MOISTURE CONDITION, AND RE-COMPACT EXISTING NATIVE SOILS (THICKNESS PER DETAIL) TO 98% OF THE MATERIAL'S ASTM D-1557 MAXIMUM DRY DENSITY.
3. COMPACTION SHALL BE VERIFIED BY TESTING BY THE GEOTECHNICAL CONSULTANT

1 / C-803 SITE ACCESS ROAD SECTION DETAIL, OPTION 1

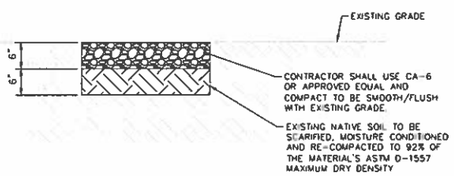
SCALE: NTS



NOTES:
1. REMOVE ALL GRASSES AND ORGANICS WITHIN ACCESS ROAD AREA.
2. SCARIFY, MOISTURE CONDITION, AND RE-COMPACT EXISTING NATIVE SOILS (THICKNESS PER DETAIL) TO 92% OF THE MATERIAL'S ASTM D-1557 MAXIMUM DRY DENSITY.
3. COMPACTION SHALL BE VERIFIED BY TESTING BY THE GEOTECHNICAL CONSULTANT.
4. THE FILTER FABRIC SHALL MEET THE REQUIREMENTS IN MATERIAL SPECIFICATIONS 592 GEOTEXTILE 1 OR 2, CLASS I, II, OR III.

2 / C-803 ALTERNATE TEMPORARY SITE ACCESS ROAD SECTION DETAIL

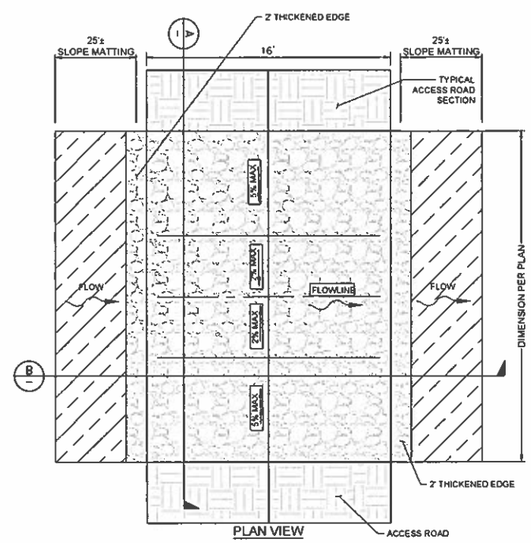
SCALE: NTS

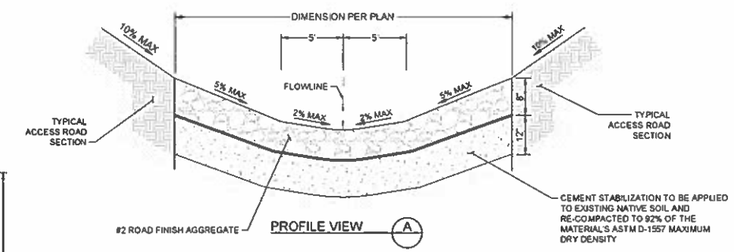


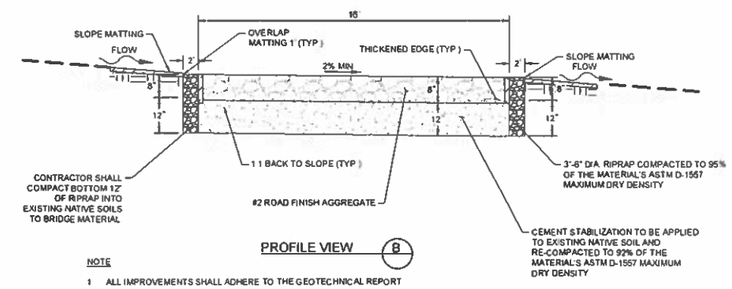
NOTES:
1. REMOVE ALL GRASSES AND ORGANICS WITHIN TEMPORARY LAYDOWN AREA.

3 / C-803 TEMPORARY GRAVEL LAYDOWN AREA

SCALE: NTS



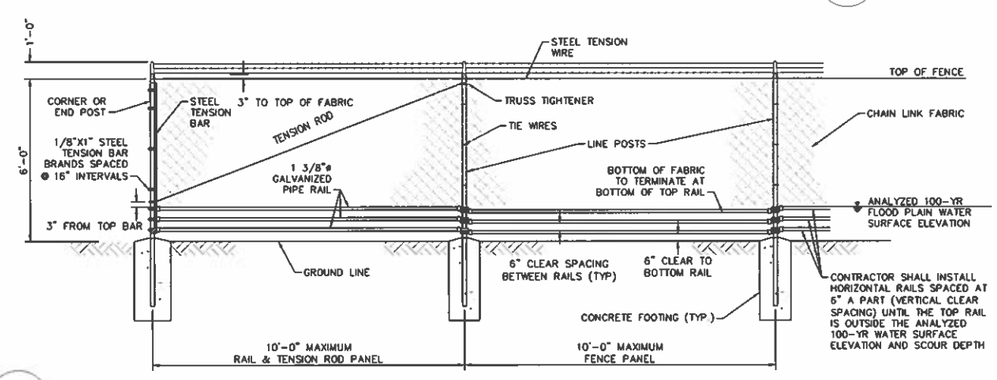




NOTE
1. ALL IMPROVEMENTS SHALL ADHERE TO THE GEOTECHNICAL REPORT

4 / C-803 LOW WATER CROSSING DETAIL

SCALE: NTS



5 / C-803 "FLOW-THROUGH" FENCE DETAIL

SCALE: NTS

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HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
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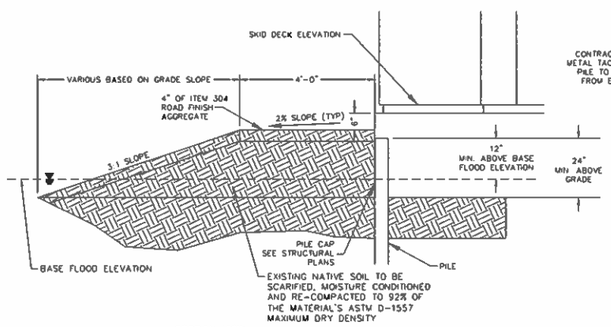
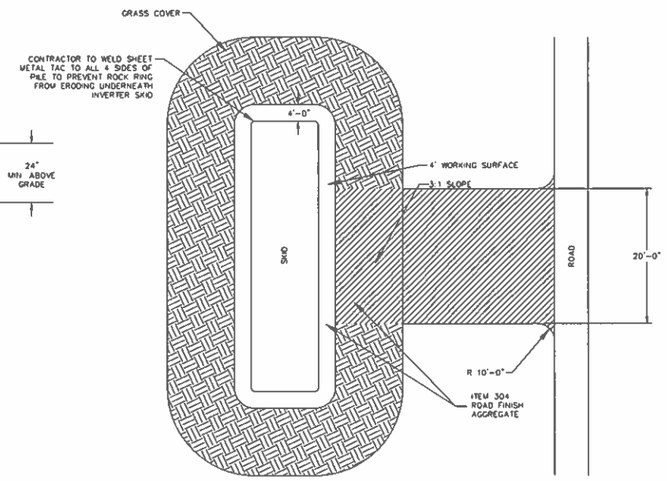


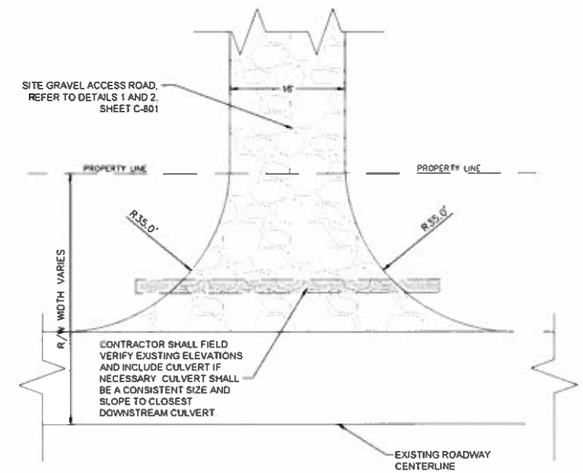
SECTION VIEW



PLAN VIEW

1 C-804 EQUIPMENT SKID GRADING DETAIL (PHASE II)

SCALE: NTS

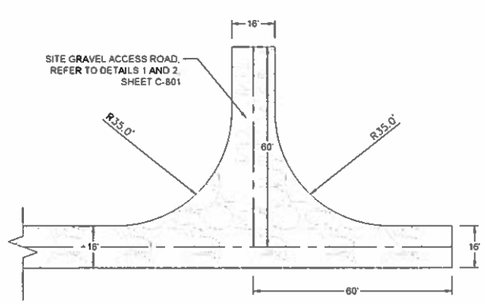


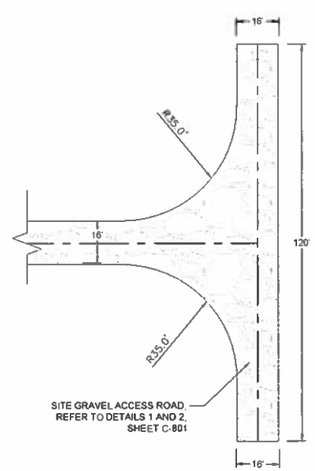
NOTES

1. SEED DISTURBED AREA WITH FESCUE BLEND OR APPROVED EQUIVALENT
2. CULVERT MATERIAL MUST BE C M P OR R C P. ANY MATERIALS USED MUST BE ON APPROVED ODOT MATERIALS LIST
3. CULVERT LENGTH MUST BE 30 FEET MINIMUM
4. CONTRACTOR SHALL GRADE AS NECESSARY TO ENSURE MAXIMUM SLOPE OF 8% ALONG ENTRANCE AND ENSURE POSITIVE DRAINAGE

2 C-804 TYPICAL ROAD ENTRANCE DETAIL

SCALE: NTS





3 C-804 TYPICAL TURN AROUND DETAIL

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CONSTRUCTION DETAILS

HARDIN III SOLAR
HARDIN COUNTY, OH

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KHA PROJECT NO. 168754044
SHEET NUMBER
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ARRAY AREA SEED MIX

PERMANENT SOLAR FARM SEED MIX

34.0% Festuca rubra	Creeping Red Fescue
33.0% Festuca ovina	Sheep fescue
10.0% Festuca Brevipila 'Beacon'	Hard Fescue 'Beacon'
5.0% Festuca Ovina Var. Duriuscula 'Rhino'	Hard Fescue 'Rhino'
5.0% Festuca Ovina Var. Glauca 'Blue Ray'	Blue Fescue 'Blue Ray'
5.0% Poa Pratensis 'Argyle'	Kentucky Bluegrass 'Argyle'
5.0% Poa Pratensis 'Shamrock'	Kentucky Blugrass 'Shamrock'
3.0% Agrostis Perennans, Albany Pine Bush - NY Ecotype	Autumn Bengrass, Albany Pine Bush-NY Ecotype

SEEDING RATE: 200 LB PER ACRE

POLLINATOR SEED MIX

NATIVE DETENTION AREA SEED MIX

40% Schizachyrium scoparium	Little Bluestem 'Prairie View'-IN Ecotype
23.40% Bouteloua Curtipendula	Sideoats Grama
7.30% Cosmos Bipinnatus	Cosmos
3.5% Coreopsis lanceolata	Lanceleaf Coreopsis
3.5% Echinacea purpurea	Purple Coneflower
3.0% Elymus virginicus	Virginia Wildrye, Madison-NY Ecotype
2.50% Sorghastrum nutans	Indiangrass, WI Ecotype
2.20% Lupinus Polyphyllus	Bigleaf Lupine
2.0% Chamaecrista fasciculata	Partridge Pea, PA Ecotype
2.0% Rudbeckia hirta	Blackeyed Susan
1.50% Gaillardia Aristata	Blanket Flower
1.0% Senna hebecarpa	Wild Senna, VA & WV Ecotype
1.0% Penstemon digitalis	Tall White Beardtongue
0.60% Papaver Rhoeas	Shirley Mix (Corn Poppy, Shirley Mix)
0.50% Andropogon Gerardii	Big Bluestem
0.50% Elymus Canadensis	Canada Wildrye
0.50% Coreopsis Tinctoria	Plains Coreopsis
0.40% Liatris Spicata	Blazing Star
0.40% Asclepias syriaca	Common Milkweed
0.40% Asclepias tuberosa	Butterfly Milkweed
0.30% Zizia aurea	Golden Alexanders
0.30% Asclepias incarnata	Swamp Milkweed, PA Ecotype
0.20% Monarda fistulosa	Wild Bergamot, Fort Indiantown Gap-PA Ecotype\
0.20% Penstemon laevigatus	Appalachian Beartongue
0.20% Senna marilandica	Maryland Senna
0.10% Solidago nemoralis	Gray Goldenrod, PA Ecotype
0.10% Tradescantia ohiensis	Ohio Spiderwort, PA Ecotype
0.10% Aster laevis	Smooth Blue Aster
0.10% Aster novae-angliae	New England Aster, PA Ecotype
0.10% Aster prenanthoides	Zigzag Aster
0.10% Heliopsis helianthoides	Oxeye Sunflower, PA Ecotype

SEEDING RATE: 20 LB PER ACRE
NOTE: APPLY AT INDICATED RATE FOLLOWED BY ANNUAL RYE COVER CROP AT 30 LB PER ACRE.

PRODUCT: ERNST SEED ITEM NUMBER ERNMX-105 OR EQUAL

VEGETATION MANAGEMENT NOTES

1. SOIL PH IS TO BE TESTED PRIOR TO AMENDMENT AND FINAL GRADING. LIME OR SULFUR IS TO BE ADDED IN APPROPRIATE QUANTITY TO BRING PH TO ACCEPTABLE LEVELS FOR SEED APPLICATION AS NEEDED.
2. IN AREAS OF SOIL AMENDMENT OR EXISTING AGRICULTURAL LAND, SOIL IS RECOMMENDED TO BE DISKED, CULTIVATED, AND ROLLED AS NEEDED.
3. IN AREAS OF SATURATED SOILS WITH POOR DRAINAGE, AERIFICATION SHOULD BE PERFORMED WITH MECHANICAL AERATORS OR SPIKE ROLLERS.
4. SEED TO BE HYDRO APPLICATION WITH 2 TONS OF STRAW MULCH PER ACRE.
5. SITE MANAGER TO OBSERVE SITE IN THE SPRING, TWICE IN THE SUMMER, AND ONCE IN THE FALL. TO IDENTIFY GROWTH RATES, NOXIOUS WEEDS AND ESTABLISHMENT PROBLEMS.
6. MOWING AND WEEDING MAY NEED TO OCCUR AT EACH OBSERVATION. IF PROBLEMS ARE NOT IDENTIFIED WITH EITHER HEIGHT OF VEGETATION OR QUANTITY OF WEEDS, NO ACTON SHOULD BE TAKEN.
7. THE INITIAL THREE YEARS WILL REQUIRE MORE FREQUENT MAINTENANCE AND MONITORING TO PROVIDE NATIVE PLANT ESTABLISHMENT INSTEAD OF INVASIVE WEEDS.
8. WITHIN FIRST TWO YEARS OF COMPLETION, SITE MANAGER TO VISIT THE SITE ONCE PER MONTH THROUGHOUT THE GROWING SEASON TO CONTROL INVASIVE WEEDS. ALSO DURING THIS TIME, MOWING SHOULD OCCUR AT LEAST TWICE PER YEAR TO ELIMINATE SHADING FROM AGRONOMIC, ANNUAL WEEDS.
9. SITE MANAGER SHOULD PERFORM YEARLY INSPECTIONS WITH A LANDSCAPE MAINTENANCE PROFESSIONAL TO IDENTIFY WEED PROBLEMS AND TO DISCUSS A STRATEGY FOR MAINTENANCE FOR THE YEAR.
10. ANNUALLY, AT THE START OF SPRING, SITE SHOULD BE MOWED WITH A ROTARY MOWER AT A HEIGHT BETWEEN 4 AND 6 INCHES TO KNOCKDOWN STANDING VEGETATION FROM THE PREVIOUS SEASONS.
11. IF SITE MANAGER DETERMINES THE NEED TO REMOVE INVASIVE WEEDS WITH A HERBICIDE, THE MOST EFFECTIVE METHOD IS DURING THE FALL WITH A DIRECT APPLICATION. SITE MANAGER SHOULD CONDUCT A THOROUGH WALK-THROUGH OF THE SITE TO FIND WEEDS AND APPLY HERBICIDE.

LANDSCAPE NOTES

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MATERIALS AND PLANTS SHOWN ON THE LANDSCAPE PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT LANDSCAPE, PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION OR DURING THE SPECIFIED MAINTENANCE PERIOD. CALL FOR UTILITY LOCATIONS PRIOR TO ANY EXCAVATION.
2. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY IN PLAN VS. FIELD CONDITIONS IMMEDIATELY TO THE LANDSCAPE ARCHITECT, PRIOR TO CONTINUING WITH THAT PORTION OF WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
4. SEED LIMIT LINES ARE APPROXIMATE. CONTRACTOR SHALL SEED ALL AREAS WHICH ARE DISTURBED BY GRADING WITH THE SPECIFIED SEED MIXES.
5. DO NOT DISTURB THE EXISTING PAVING, LIGHTING, OR LANDSCAPING THAT EXISTS ADJACENT TO THE SITE UNLESS OTHERWISE NOTED ON PLAN.
6. PLANT QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE OWNER AND JURISDICTIONAL REVIEW AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES AS DRAWN.
7. THE CONTINUED MAINTENANCE OF ALL REQUIRED LANDSCAPING SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY ON WHICH SAID MATERIALS ARE REQUIRED. ALL PLANT MATERIALS REQUIRED BY THIS SECTION SHALL BE MAINTAINED AS LIVING VEGETATION AND SHALL BE PROMPTLY REPLACED IF THE PLANT MATERIAL HAS DIED PRIOR TO FINAL ACCEPTANCE. PLANTING AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO KEEP PLANT MATERIAL WATERED AND IN GOOD HEALTHY CONDITION THROUGHOUT THE WARRANTY PERIOD.

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7965 N. HIGH STREET, SUITE 200
COLUMBUS, OH 43235
PHONE: 614-847-1500
www.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: EKS
DRAWN BY: ALH
CHECKED BY: CPC

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LANDSCAPE GENERAL NOTES

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
L-200

Drawing name: K:\lan_cle\Solar\RES\168754044_Invenergy_Jordan & solar_oh\2 Design\CAD\plansheets\L1-Dir.dwg L-200 Jan 21, 2022 11:58am by Evan.Zemaitis
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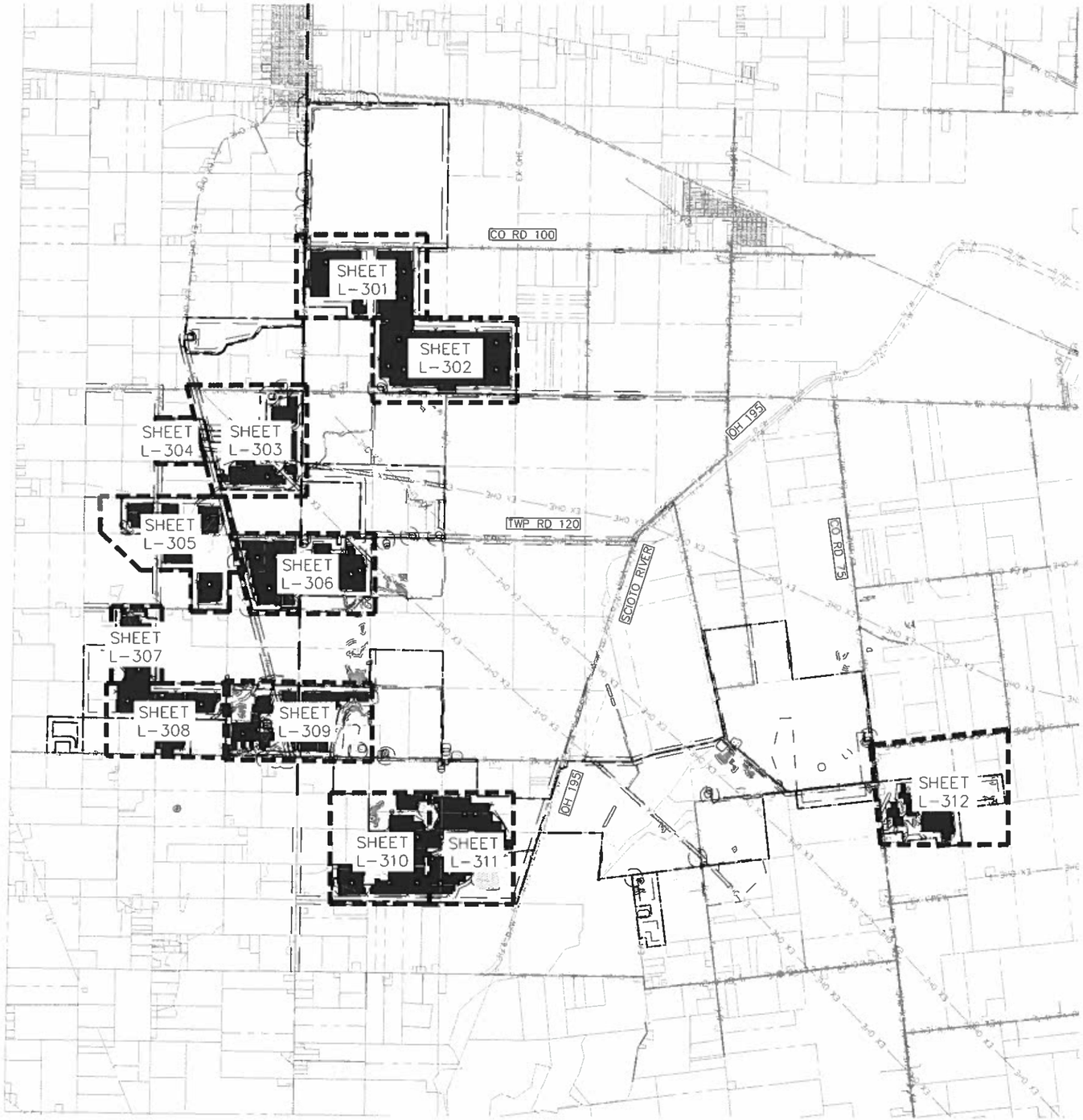

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LANDSCAPE PLAN OVERALL

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
L-300

KEY MAP

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NORTH

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PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON / NAME	TYPE
	X1	105,572.045 SF	ARRAY AREA SEED MIX	—
	X3	16,575.866 SF	POLLINATOR SEED MIX	—

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LANDSCAPE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
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SHEET NUMBER
L-301

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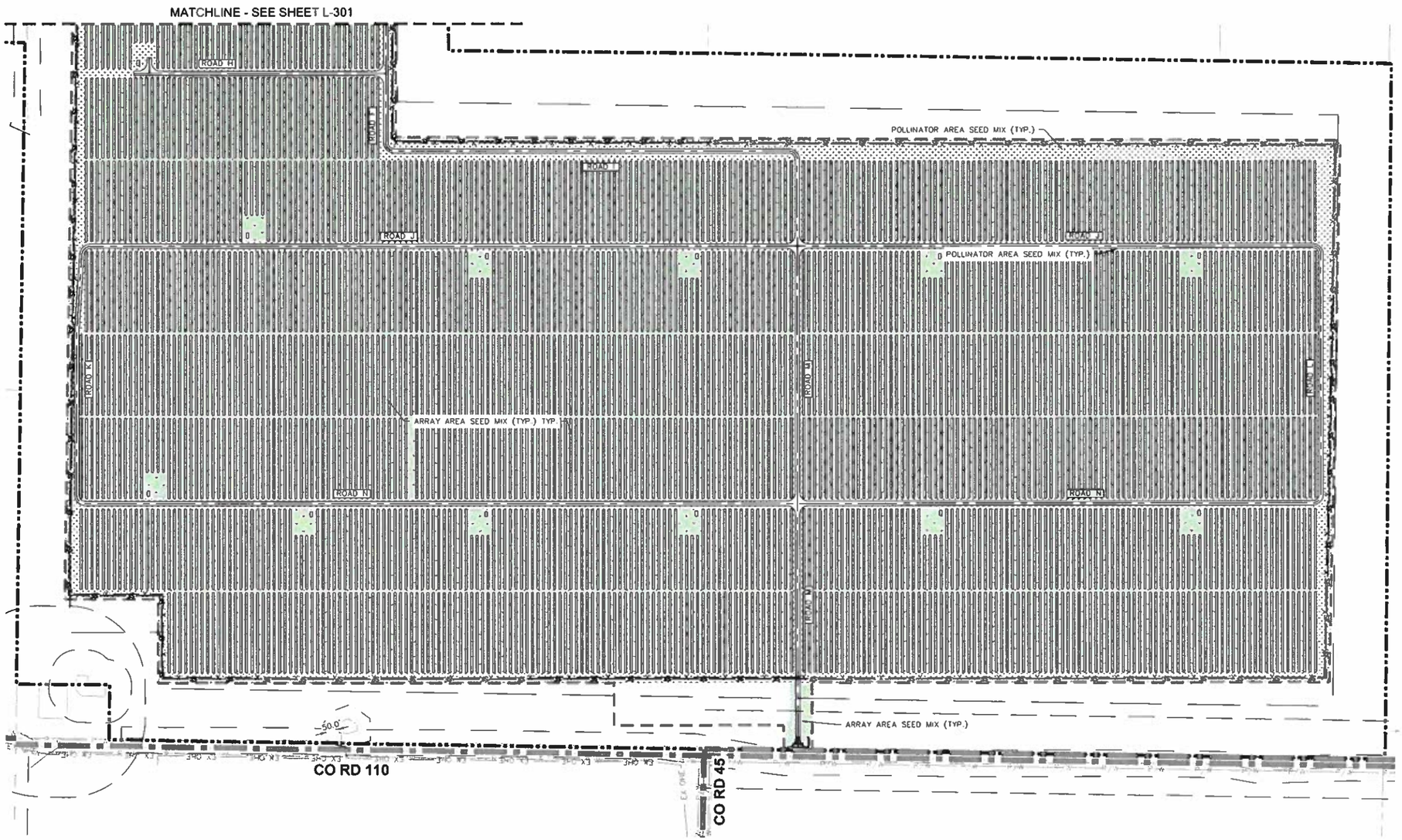

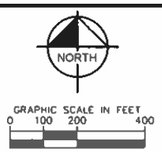

PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105.572.045 SF	ARRAY AREA SEED MIX	—
	X3	18.575.868 SF	POLLINATOR SEED MIX	—

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LANDSCAPE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
L-302

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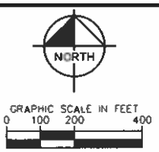

PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	108,572.045 SF	ARRAY AREA SEED MIX	—
	X3	18,575.868 SF	POLLINATOR SEED MIX	—

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LANDSCAPE PLAN

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HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
L-303

Drawing name: K:\Sou_Cost\Solar\RES\168754044_energy_hardin iii solar_oh\2 Design\CAD\plansheets\ul-north.dwg L-303 Jan 21, 2022 11:38am by: Evan.Jamaila
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PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105 572.045 SF	ARRAY AREA SEED MIX	—
	X3	16,575.868 SF	POLLINATOR SEED MIX	—

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HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
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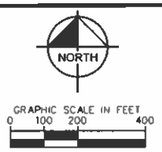

PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105,572.045 SF	ARRAY AREA SEED MIX	—
	X3	16,575.086 SF	POLLINATOR SEED MIX	—

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HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
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SHEET NUMBER
L-305

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PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105.572.045 SF	ARRAY AREA SEED MIX	—
	X3	18.575.886 SF	POLLINATOR SEED MIX	—

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HARDIN III SOLAR
HARDIN COUNTY, OH

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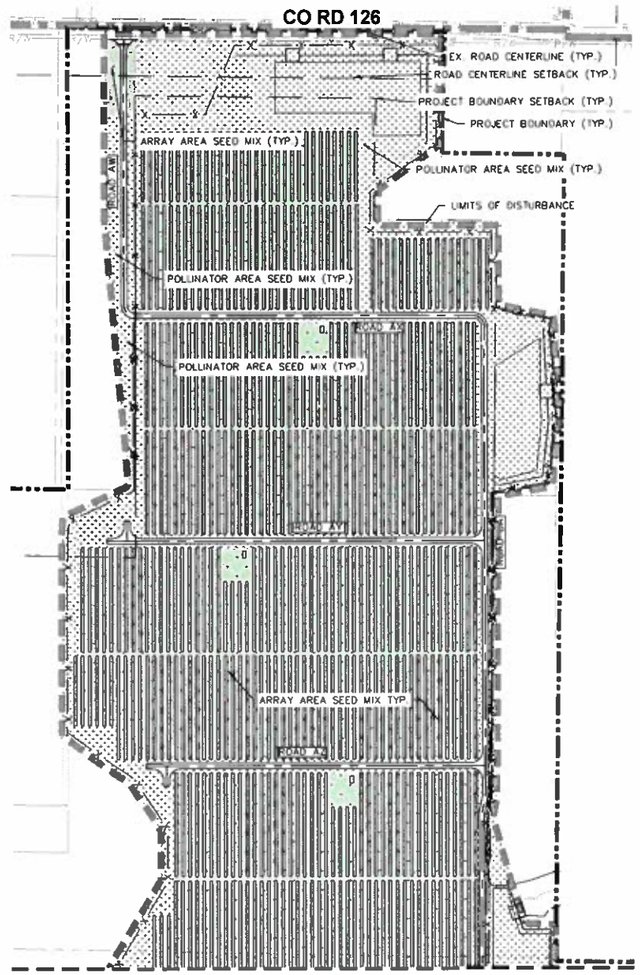

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NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105.572.045 SF	ARRAY AREA SEED MIX	—
	X3	18.575.888 SF	POLLINATOR SEED MIX	—

KEY MAP

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LANDSCAPE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE
01/21/2022
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168754044
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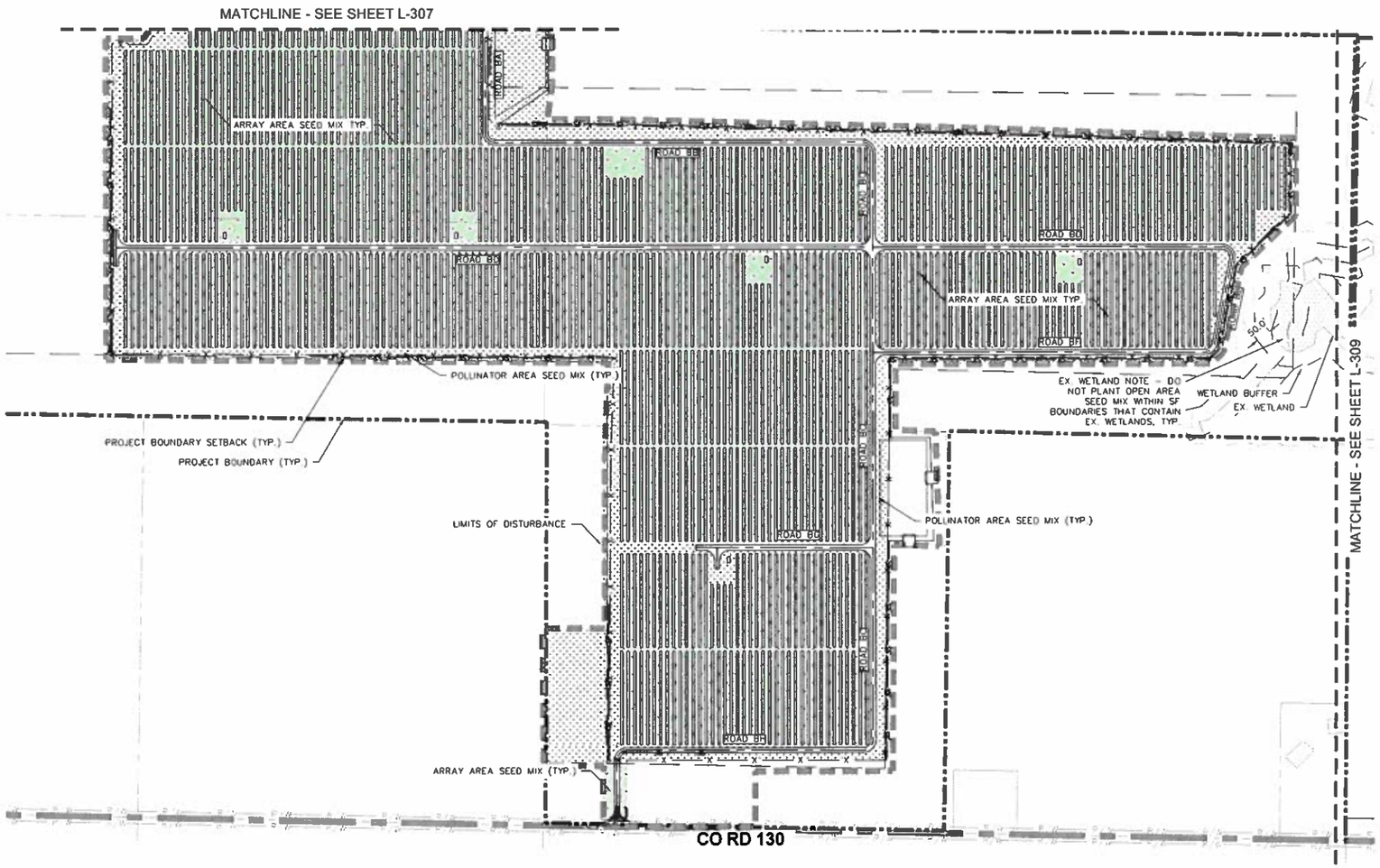

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PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105.572.045 SF	ARRAY AREA SEED MIX	—
	X3	18.575.886 SF	POLLINATOR SEED MIX	—

KEY MAP

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LANDSCAPE PLAN

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HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
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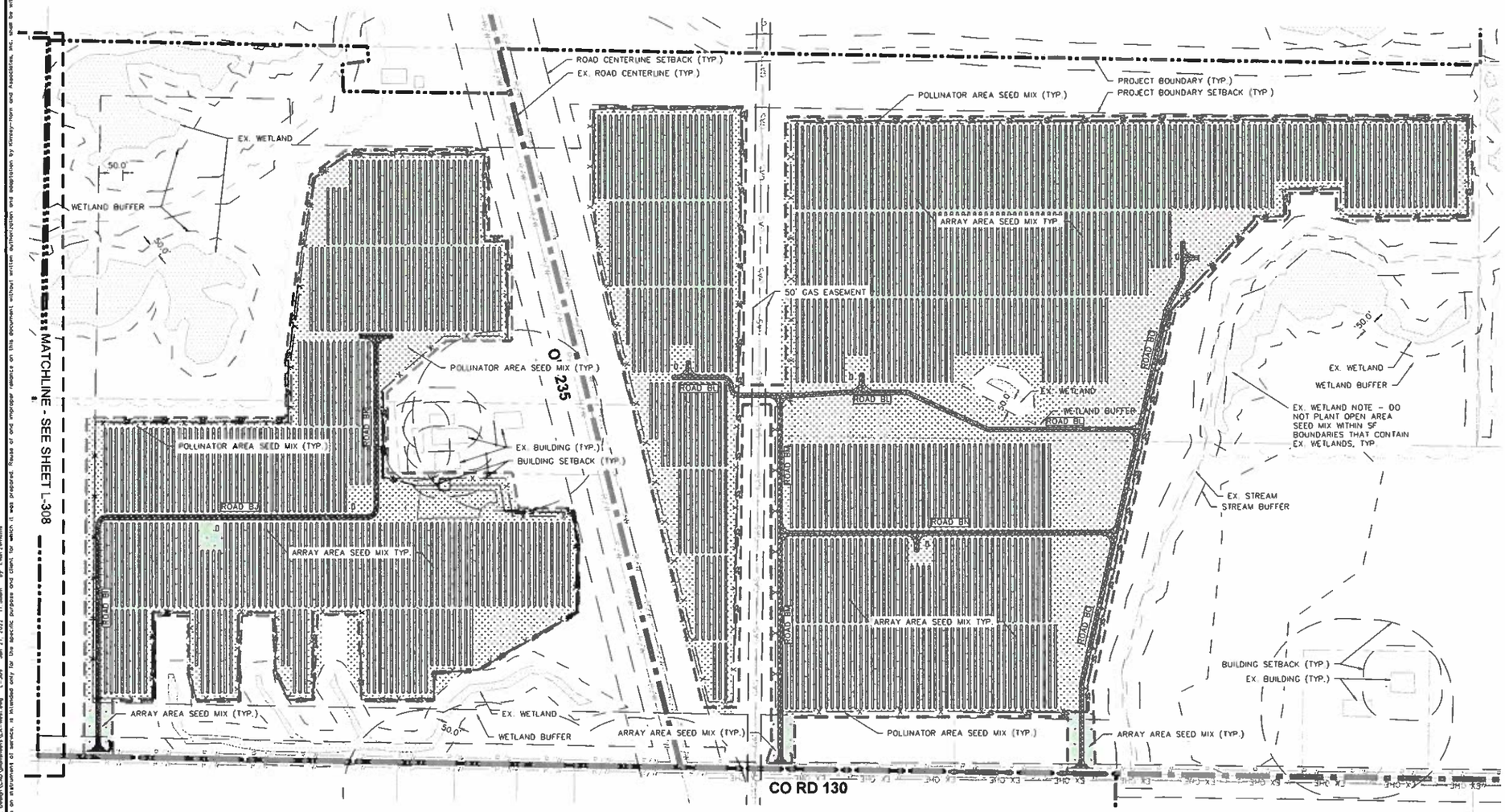

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GRAPHIC SCALE IN FEET
0 100 200 400

PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105,572.045 SF	ARRAY AREA SEED MIX	—
	X3	18,575.886 SF	POLLINATOR SEED MIX	—

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LANDSCAPE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
L-309

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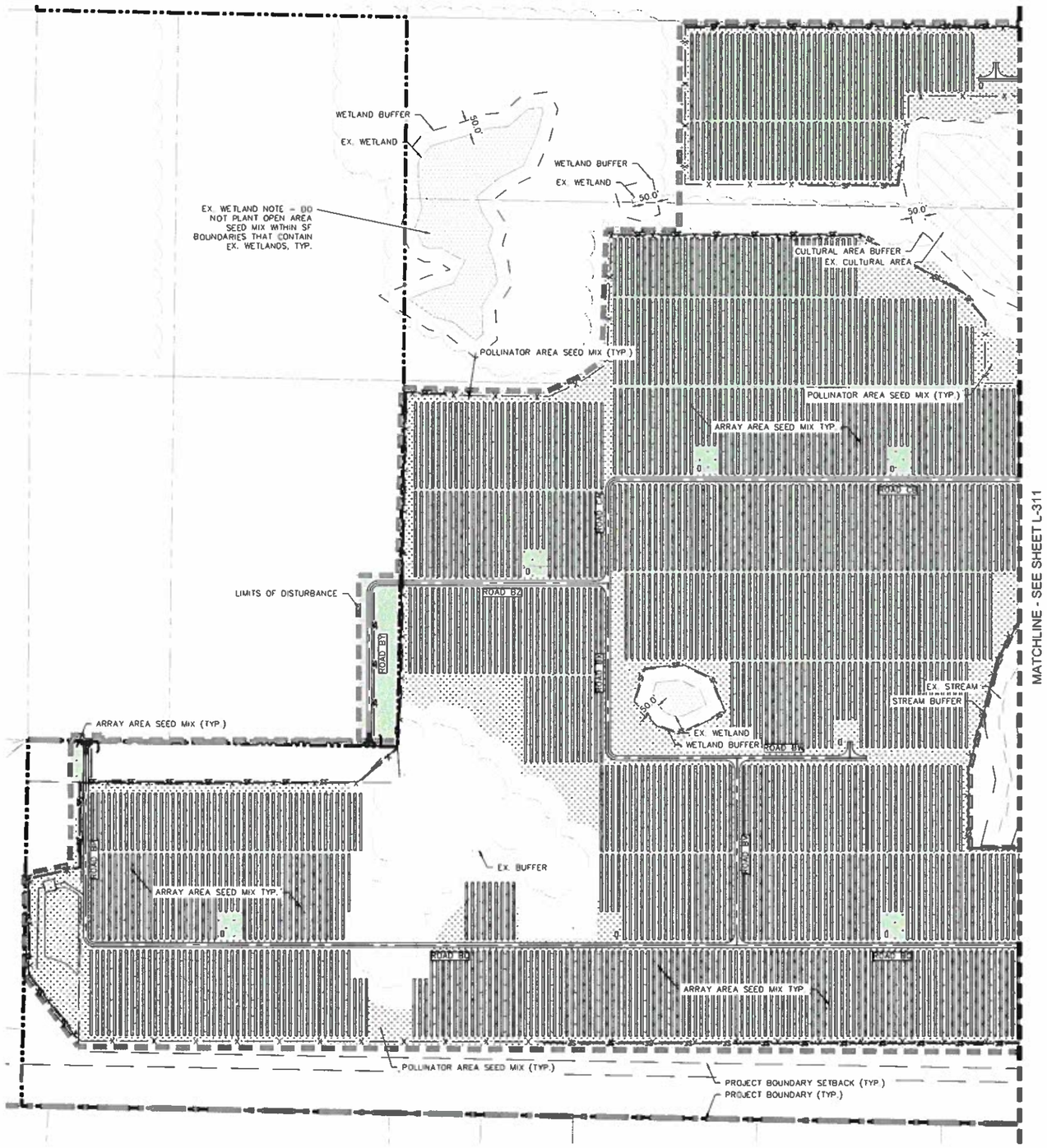

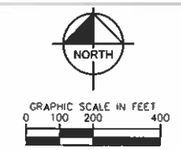

PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105.572.045 SF	ARRAY AREA SEED MIX	—
	X3	16.575.858 SF	POLLINATOR SEED MIX	—

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LANDSCAPE PLAN

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HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
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SHEET NUMBER
L-310

Drawing name: K:\Nsv_civil\Solar\KES\168754044_Lumenergy_Jackson_III_solar_pt\13 Design\CAD\plansheets\L1-Civil.dwg L-310 Jan 21, 2022 11:56am by: Evan.Zemsky
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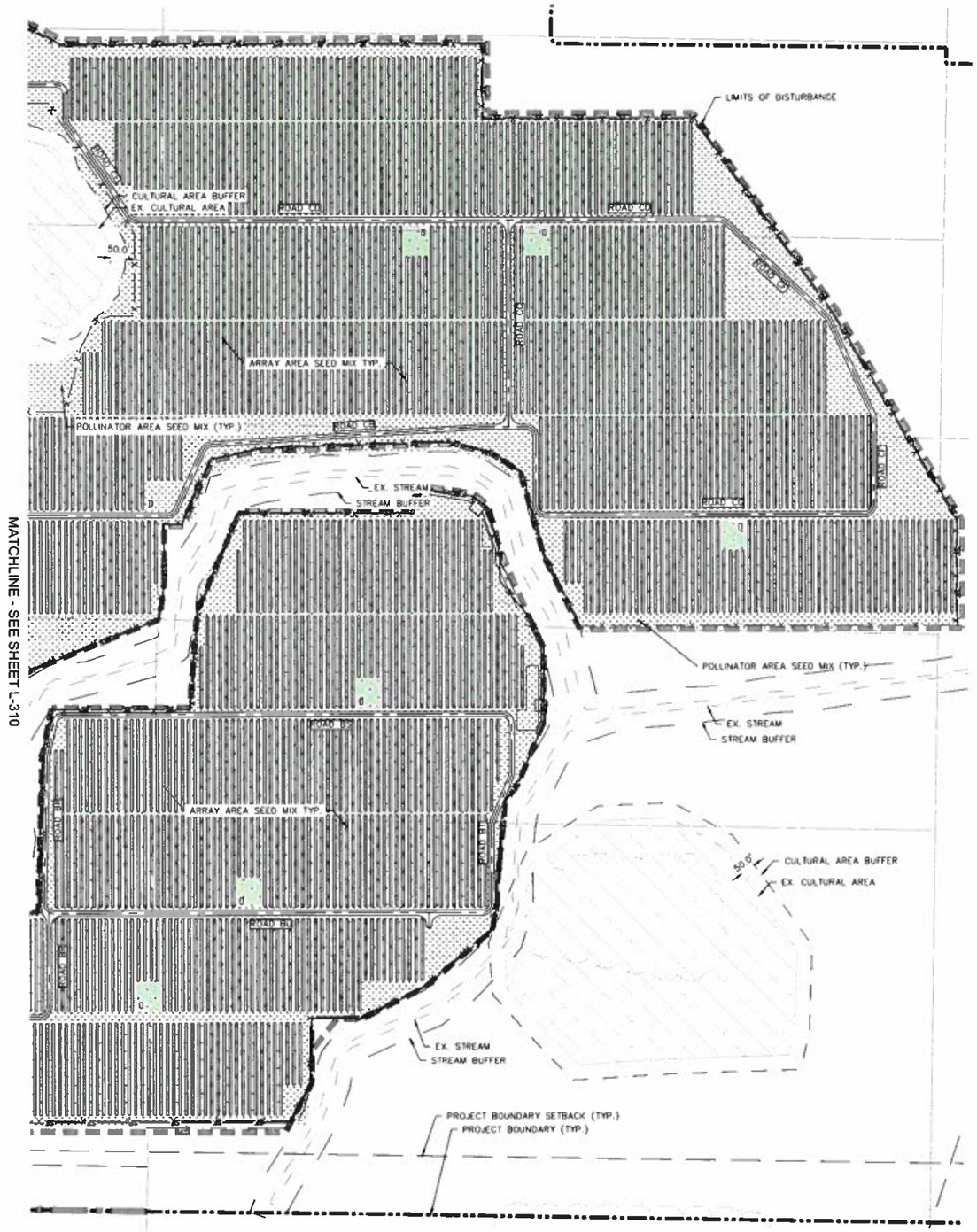

MATCHLINE - SEE SHEET L-310

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105.572.046 SF	ARRAY AREA SEED MIX	--
	X3	18.575.888 SF	POLLINATOR SEED MIX	--

KEY MAP

OHIO Utilities Protection SERVICE
Click, Call or Tap Before You Dig
1-800-362-2764

No.	REVISIONS	DATE	By
1	30% DESIGN	11/19/2021	CPC
2	60% DESIGN	01/21/2022	CPC

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7965 N. HIGH STREET, SUITE 200
COLUMBUS, OH 43235
PHONE: 614-772-2200
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: EAS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR
rES power for good

LANDSCAPE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO. 168754044
SHEET NUMBER
L-311

Drawing name: K:\Kim_civil\Solar\REF\168754044_owenbrg_hardin iii solar_ph12 Design\CAD\Landscape\L-L-311 Jan 21, 2022 11:58am by: Evan Zemaitis
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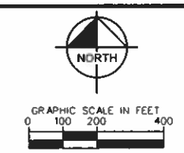
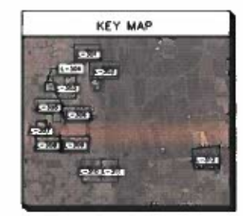


PLANT SCHEDULE

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	TYPE
	X1	105,572.045 SF	ARRAY AREA SEED MIX	—
	X3	18,575.888 SF	POLLINATOR SEED MIX	—



OHIO Utilities Protection SERVICE
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No.	REVISIONS	DATE	BY
1	30% DESIGN	11/19/2021	CPC
2	60% DESIGN	01/21/2022	CPC

Kimley»Horn
2601 WALT-HORN AND ASSOCIATES, INC
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SCALE: AS NOTED
DESIGNED BY: ERS
DRAWN BY: ALH
CHECKED BY: CPC

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR: res power for good

LANDSCAPE PLAN

HARDIN III SOLAR
HARDIN COUNTY, OH

ORIGINAL ISSUE: 01/21/2022
KHA PROJECT NO 168754044
SHEET NUMBER
L-312

Drawing name: K:\dsn_civil\Solar\168754044_Hardin III Solar_Phase 1\3 Design\CAD\plansheets\LA-Cont.dwg L-312 Jan 21, 2022 11:36am by: Evan.Tamarin
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Attachment 5
Example Cable Cut Sheet

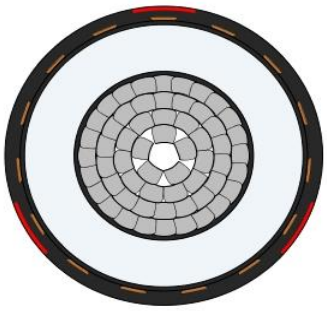
EmPowr

October 10, 2018

General Cable EmPowr®

Drawing / Data Sheet

Single Conductor EmPowr® Link CL™ BIFILL® Concentric Neutral (Flat Strap) Power Cable 35kV



Representative drawing not to scale

Component Description	Thickness (inches) Min.	Nom.*	Max.	Diameter (inches) Min.	Nom.*	Max.
A: Conductor : 3/4 To Hard 1250 kcmil Class B Compact Stranded Filled AL Conductor	--	--	--	1.160	1.184	1.208
B: Conductor Shield Semiconducting Thermoset Polymer	0.024	0.030	--	--	1.244	--
C: Insulation **Insulation Level** Tree Retardant Crosslinked Polyethylene 100%	0.330	0.345	0.375	1.890	1.934	1.995
D: Insulation Shield Semiconducting Thermoset Polymer	0.024	0.030	0.060	1.940	1.994	2.085
E: Concentric Neutral / Metallic Shield 15 x .025 " x .193 " Bare Copper Flat Strap with Water Swellable Powder	--	0.025	--	--	2.044	--
F: Jacket EXTRUDED-TO-FILL Crosslinked Polyethylene w/ 3 Red Extruded Stripes	0.070	0.080	0.120	--	2.204	--

Single Conductor Finished Cable Nominal Weight: 2616 lb/kft *
Single Conductor Finished Cable Nominal Overall Diameter: 2.204 inches *

* - Nominal Values are Subject to Manufacturing Tolerances; Bold Font Indicates Minimum Average Values

Customer:	RENEWABLE ENERGY	**Customer P/N:**	**EA/PC Number:**
		NONE	253647 Rev. 4
Specification / Standard:	AEIC CS8-13, ICEA S-94-649, UL 1072 TYPE MV-105	**Prepared By:**	**Date:**
		HQQUTYO	10/10/2018

Dimensions and weights not designated minimum or maximum are nominal and subject to manufacturing tolerances.

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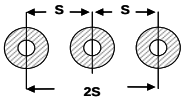
General Cable EmPowr®

Electrical Characteristics

Single Conductor EmPowr® Link CL™ BIFILL® Concentric Neutral (Flat Strap) Power Cable 35kV

Cable Description:	**1250 kcmil Al, 0.345'' TRXLPE, 15 x 0.193'' x 0.025'' Cu, XLPE**
Input Parameters:	**Electrical Characteristics Based on** **Normal Operating Temperature:** 105 °C **IR Constant @ 60°F:** 20000 **Dielectric Constant:** 2.35 **Earth Resistivity:** 100 Ω-m **Dissipation Factor:** 0.01 % **Voltage (line to ground):** 20.21 kV **Conductor Center to Center Spacing (S):** 7.5 in  **Flat Arrangement**
Conductor Resistance:	**Rdc @ 25°C:** 0.0141 Ω/kft 0.0463 Ω/km **Rac @ 25°C:** 0.0149 Ω/kft 0.0489 Ω/km **Rac @ 105°C:** 0.0202 Ω/kft 0.0663 Ω/km
Shield Resistance:	**Rac @ 25°C:** 0.124 Ω/kft 0.407 Ω/km **Rac @ 95°C:** 0.158 Ω/kft 0.517 Ω/km
Capacitance:	0.090 µF/kft 0.296 µF/km
Shunt Capacitive Reactance/Susceptance:	**Shunt Capacitive Reactance:** 29390 Ω-kft 8958 Ω-km **Shunt Capacitive Susceptance:** 34.03 µS/kft 111.64 µS/km
Charging Current:	687.6 mA/kft 2256.2 mA/km
Single Phase Reactance/Impedance:	**Inductive Reactance:** 0.018 Ω/kft 0.060 Ω/km **Real / Imag. / Impedance** — **Real / Imag. / Impedance** **Pos. & Neg. Seq. Impedance (Met. Shield):** 0.020 0.018 0.027 Ω/kft 0.066 0.060 0.090 Ω/km **Zero Seq. Impedance (Earth & Met. Shield):** 0.339 0.223 0.406 Ω/kft 1.113 0.733 1.333 Ω/km
3-Phase Reactance/Impedance:	**Inductive Reactance:** 0.070 Ω/kft 0.229 Ω/km **Real / Imag. / Impedance** — **Real / Imag. / Impedance** **Pos. & Neg. Seq. Impedance (Met. Shield):** 0.035 0.065 0.074 Ω/kft 0.116 0.213 0.242 Ω/km **Zero Seq. Impedance (Earth & Met. Shield):** 0.165 0.054 0.174 Ω/kft 0.543 0.179 0.571 Ω/km **Zero Seq. Impedance (Earth Only):** 0.074 0.633 0.638 Ω/kft 0.244 2.078 2.093 Ω/km **Zero Seq. Impedance (Met. Shield Only):** 0.178 0.018 0.179 Ω/kft 0.583 0.060 0.587 Ω/km
Dielectric Losses: (Per Phase)	1.38 W/kft 4.54 W/km
Electrical Stress:	**Insulation Average:** 58.58 V/mil 2.31 kV/mm **Conductor Shield - Insulation Interface Maximum:** 73.58 V/mil 2.90 kV/mm **Insulation - Insulation Shield Interface Minimum:** 47.33 V/mil 1.86 kV/mm
Insulation Resistance:	3832.72 MΩ-kft 1168.16 MΩ-km
Velocity of Propagation	477.33 ft/µs 145.49 m/µs

Customer:	RENEWABLE ENERGY	**Customer P/N:** NONE	**EA/PC Number:** 253647 Rev. 4
Specification / Standard:	AEIC CS8-13, ICEA S-94-649, UL 1072 TYPE MV-105	**Prepared by:** HQQUTYO	**Date:** 10/10/2018

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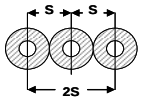
General Cable EmPowr®

Electrical Characteristics

Single Conductor EmPowr® Link CL™ BIFILL® Concentric Neutral (Flat Strap) Power Cable 35kV

Cable Description:	**1250 kcmil Al, 0.345'' TRXLPE, 15 x 0.193'' x 0.025'' Cu, XLPE**
Input Parameters:	**Electrical Characteristics Based on** **Normal Operating Temperature:** 105 °C **IR Constant @ 60°F:** 20000 **Dielectric Constant:** 2.35 **Earth Resistivity:** 100 Ω-m **Dissipation Factor:** 0.01 % **Voltage (line to ground):** 20.21 kV **Conductor Center to Center Spacing (S):** 2.204 in  **Flat Adjacent Arrangement**
Conductor Resistance:	**Rdc @ 25°C:** 0.0141 Ω/kft 0.0463 Ω/km **Rac @ 25°C:** 0.0149 Ω/kft 0.0489 Ω/km **Rac @ 105°C:** 0.0202 Ω/kft 0.0663 Ω/km
Shield Resistance:	**Rac @ 25°C:** 0.124 Ω/kft 0.407 Ω/km **Rac @ 95°C:** 0.158 Ω/kft 0.517 Ω/km
Capacitance:	0.090 µF/kft 0.296 µF/km
Shunt Capacitive Reactance/Susceptance:	**Shunt Capacitive Reactance:** 29390 Ω-kft 8958 Ω-km **Shunt Capacitive Susceptance:** 34.03 µS/kft 111.64 µS/km
Charging Current:	687.6 mA/kft 2256.2 mA/km
Single Phase Reactance/Impedance:	**Inductive Reactance:** 0.018 Ω/kft 0.060 Ω/km **Real / Imag. / Impedance** — **Real / Imag. / Impedance** **Pos. & Neg. Seq. Impedance (Met. Shield):** 0.020 0.018 0.027 Ω/kft 0.066 0.060 0.090 Ω/km **Zero Seq. Impedance (Earth & Met. Shield):** 0.339 0.223 0.406 Ω/kft 1.113 0.733 1.333 Ω/km
3-Phase Reactance/Impedance:	**Inductive Reactance:** 0.042 Ω/kft 0.136 Ω/km **Real / Imag. / Impedance** — **Real / Imag. / Impedance** **Pos. & Neg. Seq. Impedance (Met. Shield):** 0.024 0.041 0.047 Ω/kft 0.077 0.135 0.155 Ω/km **Zero Seq. Impedance (Earth & Met. Shield):** 0.167 0.052 0.175 Ω/kft 0.549 0.171 0.575 Ω/km **Zero Seq. Impedance (Earth Only):** 0.074 0.690 0.694 Ω/kft 0.244 2.263 2.276 Ω/km **Zero Seq. Impedance (Met. Shield Only):** 0.178 0.018 0.179 Ω/kft 0.583 0.060 0.587 Ω/km
Dielectric Losses: (Per Phase)	1.38 W/kft 4.54 W/km
Electrical Stress:	**Insulation Average:** 58.58 V/mil 2.31 kV/mm **Conductor Shield - Insulation Interface Maximum:** 73.58 V/mil 2.90 kV/mm **Insulation - Insulation Shield Interface Minimum:** 47.33 V/mil 1.86 kV/mm
Insulation Resistance:	3832.72 MΩ-kft 1168.16 MΩ-km
Velocity of Propagation	477.33 ft/µs 145.49 m/µs

Customer:	RENEWABLE ENERGY	**Customer P/N:** NONE	**EA/PC Number:** 253647 Rev. 4
Specification / Standard:	AEIC CS8-13, ICEA S-94-649, UL 1072 TYPE MV-105	**Prepared by:** HQQUTYO	**Date:** 10/10/2018

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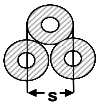
General Cable EmPowr®

Electrical Characteristics

Single Conductor EmPowr® Link CL™ BIFILL® Concentric Neutral (Flat Strap) Power Cable 35kV

Cable Description:	**1250 kcmil Al, 0.345'' TRXLPE, 15 x 0.193'' x 0.025'' Cu, XLPE**
Input Parameters:	**Electrical Characteristics Based on** **Normal Operating Temperature:** 105 °C **IR Constant @ 60°F:** 20000 **Dielectric Constant:** 2.35 **Earth Resistivity:** 100 Ω-m **Dissipation Factor:** 0.01 % **Voltage (line to ground):** 20.21 kV **Conductor Center to Center Spacing (S):** 2.204 in  **Trifoil Arrangement**
Conductor Resistance:	**Rdc @ 25°C:** 0.0141 Ω/kft 0.0463 Ω/km **Rac @ 25°C:** 0.0149 Ω/kft 0.0489 Ω/km **Rac @ 105°C:** 0.0202 Ω/kft 0.0663 Ω/km
Shield Resistance:	**Rac @ 25°C:** 0.124 Ω/kft 0.407 Ω/km **Rac @ 95°C:** 0.158 Ω/kft 0.517 Ω/km
Capacitance:	0.090 µF/kft 0.296 µF/km
Shunt Capacitive Reactance/Susceptance:	**Shunt Capacitive Reactance:** 29390 Ω-kft 8958 Ω-km **Shunt Capacitive Susceptance:** 34.03 µS/kft 111.64 µS/km
Charging Current:	687.6 mA/kft 2256.2 mA/km
Single Phase Reactance/Impedance:	**Inductive Reactance:** 0.018 Ω/kft 0.060 Ω/km **Real / Imag. / Impedance** — **Real / Imag. / Impedance** **Pos. & Neg. Seq. Impedance (Met. Shield):** 0.020 0.018 0.027 Ω/kft 0.066 0.060 0.090 Ω/km **Zero Seq. Impedance (Earth & Met. Shield):** 0.339 0.223 0.406 Ω/kft 1.113 0.733 1.333 Ω/km
3-Phase Reactance/Impedance:	**Inductive Reactance:** 0.036 Ω/kft 0.119 Ω/km **Real / Imag. / Impedance** — **Real / Imag. / Impedance** **Pos. & Neg. Seq. Impedance (Met. Shield):** 0.022 0.036 0.042 Ω/kft 0.073 0.118 0.139 Ω/km **Zero Seq. Impedance (Earth & Met. Shield):** 0.168 0.052 0.175 Ω/kft 0.550 0.169 0.575 Ω/km **Zero Seq. Impedance (Earth Only):** 0.074 0.700 0.704 Ω/kft 0.244 2.298 2.311 Ω/km **Zero Seq. Impedance (Met. Shield Only):** 0.178 0.018 0.179 Ω/kft 0.583 0.060 0.587 Ω/km
Dielectric Losses: (Per Phase)	1.38 W/kft 4.54 W/km
Electrical Stress:	**Insulation Average:** 58.58 V/mil 2.31 kV/mm **Conductor Shield - Insulation Interface Maximum:** 73.58 V/mil 2.90 kV/mm **Insulation - Insulation Shield Interface Minimum:** 47.33 V/mil 1.86 kV/mm
Insulation Resistance:	3832.72 MΩ-kft 1168.16 MΩ-km
Velocity of Propagation	477.33 ft/µs 145.49 m/µs

Customer:	RENEWABLE ENERGY	**Customer P/N:** NONE	**EA/PC Number:** 253647 Rev. 4
Specification / Standard:	AEIC CS8-13, ICEA S-94-649, UL 1072 TYPE MV-105	**Prepared by:** HQQUTYO	**Date:** 10/10/2018

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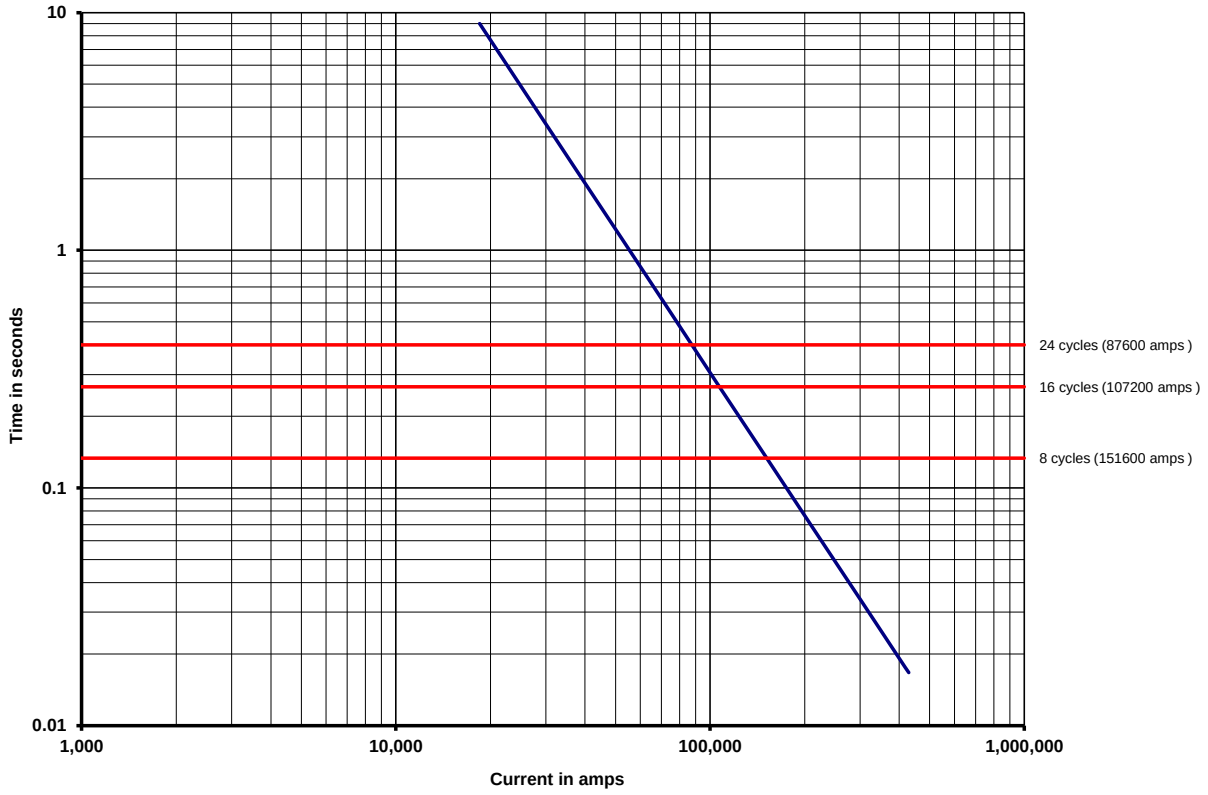
General Cable EmPowr®

Conductor Fault Current

1250 kcmil Al, 0.345" TRXLPE, 15 x 0.193" x 0.025" Cu, XLPE

MAXIMUM FAULT CURRENT OPERATING LIMITS FOR AN 1250 INSULATED ALUMINUM CONDUCTOR AT 60 Hz



1250 Insulated Aluminum Conductor

Number of Cycles	Time (s)	Current (amps)
8	0.13	151600
16	0.27	107200
24	0.40	87600

Notes -

The calculations are as per ICEA P-32-382. The calculations assume that all heat generated remains in the metal. The duration of a short circuit is considered to be up to approximately 2 seconds. The indicated short circuit value shown on this graph for durations longer than 2 seconds should be used with caution. The time shown is calculated for a given RMS fault current to bring the conductor to a temperature that will not cause damage to the conductor shield or the insulation. The calculations are based on a cross-sectional area of 1250000 cmil of Aluminum starting at an initial temperature of 105 C, and a final temperature of 250 C. The calculations utilize an absolute temperature of resisitvity of 228 and an ICEA calculation factor of 0.0125 The system frequency is 60 Hz

Customer:	RENEWABLE ENERGY	**Customer P/N:**	**EA/PC Number:**
		NONE	253647 Rev. 4
Specification / Standard:	AEIC CS8-13, ICEA S-94-649, UL 1072 TYPE MV-105	**Prepared by:**	**Date:**
		HQQUTYO	10/10/2018

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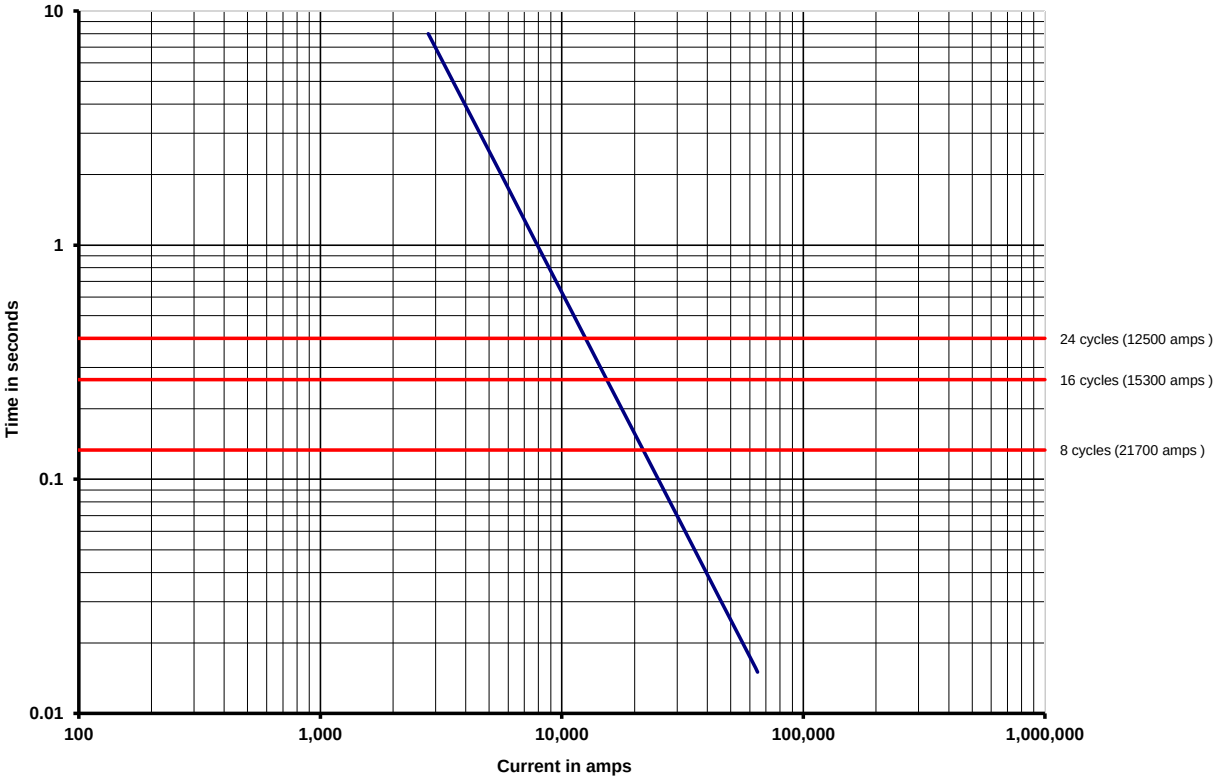
General Cable EmPowr®

Shield Fault Current

1250 kcmil Al, 0.345" TRXLPE, 15 x 0.193" x 0.025" Cu, XLPE

MAXIMUM FAULT CURRENT OPERATING LIMITS
FOR A 92151 cmil COPPER METALLIC SHIELD AT 60 Hz



15 x [25mil x 193mil] Copper Flat Strap Neutral

Number of Cycles	Time (s)	Current (amps)
8	0.13	21700
16	0.27	15300
24	0.40	12500

Notes -
The curves assume that all heat generated remains in the metal.
The time shown is that calculated for a given RMS fault current to bring the metallic shield to a temperature that will not cause damage to the insulation shield or cable jacket.
The calculations are as per ICEA P-45-482 using an "M factor" of 0.086 corresponding to a 35-46 kV rated cable, with a conductor temperature of 105 and a metallic shield starting temperature of 95 C and a metallic shield ending temperature of 350

Customer:	RENEWABLE ENERGY	**Customer P/N:**	**EA/PC Number:**
		NONE	253647 Rev. 4
Specification / Standard:	AEIC CS8-13, ICEA S-94-649, UL 1072 TYPE MV-105	**Prepared by:**	**Date:**
		HQQUTYO	10/10/2018

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General Cable EmPowr®

Cable Installation

Single Conductor EmPowr® Link CL™ BIFILL® Concentric Neutral (Flat Strap) Power Cable 35kV

Cable Description:

1250 kcmil Al, 0.345'' TRXLPE, 15 x 0.193'' x 0.025'' Cu, XLPE

Maximum Pulling Tension:

	Single Conductor		3x1/C Parallel		
Conductor Pulling Eye / Bolt:	10000 lb	44.5 kN	20000 lb	89.0 kN	
Cable Basket Grip:	10000 lb	44.5 kN	20000 lb	89.0 kN	3 grips, 1 per cable

NOTE: When exceeding 1000 lb pulling force with basket grips, proceed with caution. Pulling grips must be sized in accordance with grip manufacturer's recommendations and be installed in accordance with AEIC CG5-05

Maximum Sidewall Bearing Pressure:

2000 lb/foot of bend radius 29 kN/meter of bend radius

NOTE: When exceeding 1000 lb/foot of bend radius, proceed with caution

Minimum Bending Radius for Permanent Training Purposes:

NEC Applications:	12 x O.D.	26 inches	660 mm
Non-NEC Applications:	8 x O.D.	18 inches	457 mm

NOTE: These limits may not be suitable for conduit bends, sheaves, or other curved surfaces around which the cable may be pulled under tension while being installed due to sidewall bearing pressure limits of the cable

Conduit Information (EPEC-40/SCH 40):

Single Conductor							
Conduit Dimensions							
Metric	Imperial	ID		%	Jam	Clearance	
Size (mm)	Size (in.)	(in.)	(mm)	Fill	Ratio	(in.)	(mm)
91	3.5	3.522	89.46	39	N/A	1.318	33.48
78	3	3.042	77.27	53	N/A	0.838	21.29

3x1/C Parallel							
Conduit Dimensions							
Metric	Imperial	ID		%	Jam	Clearance	
Size (mm)	Size (in.)	(in.)	(mm)	Fill	Ratio	(in.)	(mm)
203	8	7.981	202.72	23	3.80	4.936	125.38
155	6	6.031	153.19	40	**2.87**	2.558	64.97

*Jam Ratio between 2.8 and 3.2; Jamming Probable
**Jam Ratio between 2.5 and 2.8; Jamming Possible

Customer:	RENEWABLE ENERGY	**Customer P/N:**	**EA/PC Number:**
		NONE	253647 Rev. 4
Specification / Standard:	AEIC CS8-13, ICEA S-94-649, UL 1072 TYPE MV-105	**Prepared by:**	**Date:**
		HQQUTYO	10/10/2018

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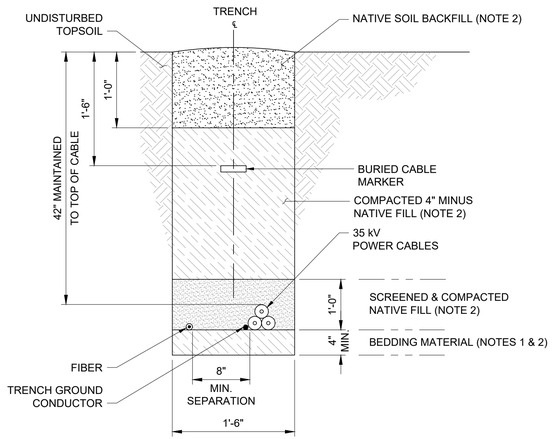
Attachment 6
Example Trench Detail Drawing
Hardin Solar Energy, LLC.
Case No. 17-773-EL-BGN

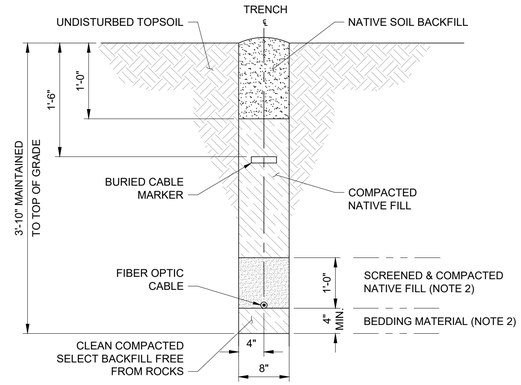
RRC Power & Energy, LLC

January 22, 2021

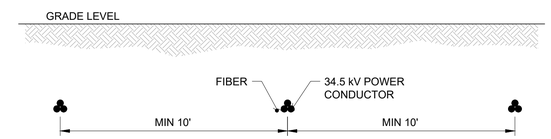
DICKINSON WRIGHT PLLC



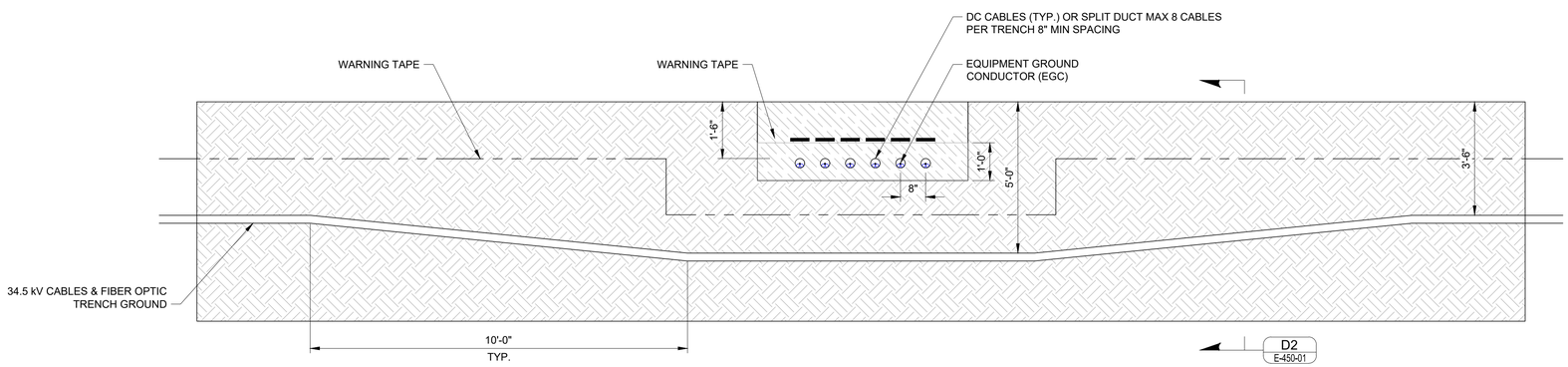
A SINGLE POWER CABLE TRENCH
SHOWN WITH FIBER OPTIC CABLES
SCALE: N.T.S



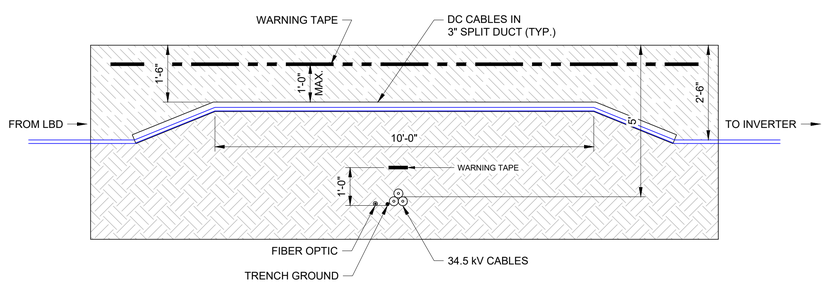
B SINGLE FIBER OPTIC TRENCH
SCALE: N.T.S



C POWER CABLE SPACING DETAIL (DIRECT BURIAL)
SCALE: N.T.S



D1 DC/AC CABLE CROSSING DETAIL
SCALE: N.T.S



D2 DC/AC CABLE CROSSING DETAIL
SCALE: N.T.S

SOIL INFORMATION

SOIL AMBIENT TEMPERATURE	= 27.2 °C
SOIL COMPACTION	= 90% SPD
DRYOUT REGION THERMAL RESISTIVITY AT 0% MOISTURE	= 235 °C - cm/W
IMPORTED FILL THERMAL RESISTIVITY AT 0% MOISTURE	=185 °C - cm/W
BACKFILL THERMAL RESISTIVITY AT 3% MOISTURE	= 160 °C - cm/W
IN SITU THERMAL RESISTIVITY AT 5% MOISTURE	= 135 °C - cm/W
LOAD FACTOR	= 75%

NOTES

1. SUPPLY, PLACE, AND COMPACT NATIVE BACKFILL. THE NATIVE BACKFILL SHALL BE INSTALLED IN A APPROVED METHOD THAT WILL ACHIEVE AN EFFECTIVE COMPACTION FOR THE ENTIRE DEPTH OF THE TRENCH. THE MATERIAL SHALL ACHIEVE A MINIMUM COMPACTION OF 90% SPD. 5% SPD WHERE APPROVED" AFTER "90% SPD" AND BEFORE "95% SPD IN VEHICULAR AREASAND 95% SPD IN VEHICULAR AREAS. ORGANIC SOIL (SOIL WITH 5% OR MORE ORGANICS) SHALL NOT BE USED AS BACKFILL MATERIAL.
2. PRIOR TO INSTALLATION OF NATIVE SOIL BACKFILL, ROCKS LARGER THAN ⅜" AND ANY HINDERING ORGANICS SHOULD BE REMOVED.
3. MINIMUM BENDING RADIUS FOR FIBER OPTIC CABLE SHALL BE 20 TIMES THE OUTSIDE DIAMETER OF THE CABLE, OR PER MANUFACTURER'S RECOMMENDATION, WHICHEVER IS GREATER.
4. MINIMUM BENDING RADIUS FOR MV AC CABLE SHALL BE 12 TIMES THE OUTSIDE DIAMETER OF THE CABLE, OR PER MANUFACTURER'S RECOMMENDATION, WHICHEVER IS GREATER.
5. FOR MV CABLE RUNS FROM SUBSTATION TO THE FIRST SKID ON EACH CIRCUIT, CABLE DEPTH MAY BE UP TO SIX FEET TO MINIMIZE DRAIN TILE DAMAGE AND REPAIR.
6. #9 GRADATION IMPORTED THERMAL BACKFILL MAY BE USED AS FIRST LIFT TO ALLOW FOR REQUIRED COMPACTION IN OVERSATURATED AREAS.

LEGEND

	NATIVE SOIL BACKFILL
	UNDISTURBED NATIVE SOIL
	SELECT NATIVE SOIL BACKFILL (NOTE 2)
SPD	STANDARD PROCTOR DENSITY
	9# GRADATION IMPORTED THERMAL BACKFILL (NOTE 6)

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PREPARED FOR:

RECORD DRAWING

THIS AS-RECORDED DRAWING WAS PRODUCED BASED ON FIELD CHANGES MADE AND RECORDED BY THE CONTRACTOR. THIS DRAWING RELIES ON THE INFORMATION PROVIDED BY THE CONTRACTOR AND IT HAS NOT BEEN VERIFIED BY THE ENGINEER- OF-RECORD.

REV	DATE	ISSUE DESCRIPTION
3	01/22/2021	AS RECORDED
2	02/04/2020	BACKFILL DIM UPDATED
1	01/09/2020	REISSUED FOR CONSTRUCTION
0	10/29/2019	ISSUED FOR CONSTRUCTION

APPROVED BY:	S. MOSER
CHECKED BY:	T. CARROLL
DESIGNED BY:	J. TAYLOR
DRAWN BY:	J. TAYLOR

SCALE: N.T.S.
0 1" 2"
BAR MUST SCALE 2" FOR FULL SIZE OR 1" FOR HALF SIZE DRAWING

PROJECT NUMBER: EE1905015

DRAWING NAME:
HARDIN SOLAR PROJECT

AC TRENCH DETAILS

DRAWING No.	SHEET:	REVISION
HDSP-E-450-01	1 of 2	3

CADFILE: HDSP-E-450-00

LAST SAVED BY: STUARTRICE ON 1/22/2021 1:25:27 PM

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6/3/2022 4:47:35 PM

in

Case No(s). 21-1231-EL-BGN

Summary: Response - Response to Fourth Data Request from Staff of the Ohio Power Siting Board electronically filed by Christine M.T. Pirik on behalf of Fountain Point Solar Energy LLC