

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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866.850.4200 www.atwell-group.com
TWO TOWNE SQUARE, SUITE 700
SOUTHFIELD, MI 48076
248.447.2000

HEARTWOOD SOLAR II

HILLSDALE COUNTY, MICHIGAN

FAYETTE TOWNSHIP

SPECIAL LAND USE PERMIT - FINAL SITE PLAN

APPLICANT:

HEARTWOOD SOLAR II, LLC
320 N. SANGAMON ST, #1025
CHICAGO, IL 60607
PHONE: 734.680.3556
ATTN: BRADY FRISS

CONSULTANT:

ATWELL, LLC
TWO TOWNE SQUARE, SUITE 700
SOUTHFIELD, MICHIGAN 48076
PHONE: 248.447.2000
FAX: 248.447.2001
PROJ. MGR/ENVIRONMENTAL: ERNEST SCHENK
ENGINEERING: CRAIG KANTOLA, PE
SURVEYING: CHRIS KELLY, PS

PROJECT SUMMARY:

COUNTY: HILLSDALE COUNTY
TOWNSHIP: FAYETTE TOWNSHIP

THIS PERMIT APPLICATION COVERS THE FOLLOWING PROPOSED PROJECT FACILITIES:

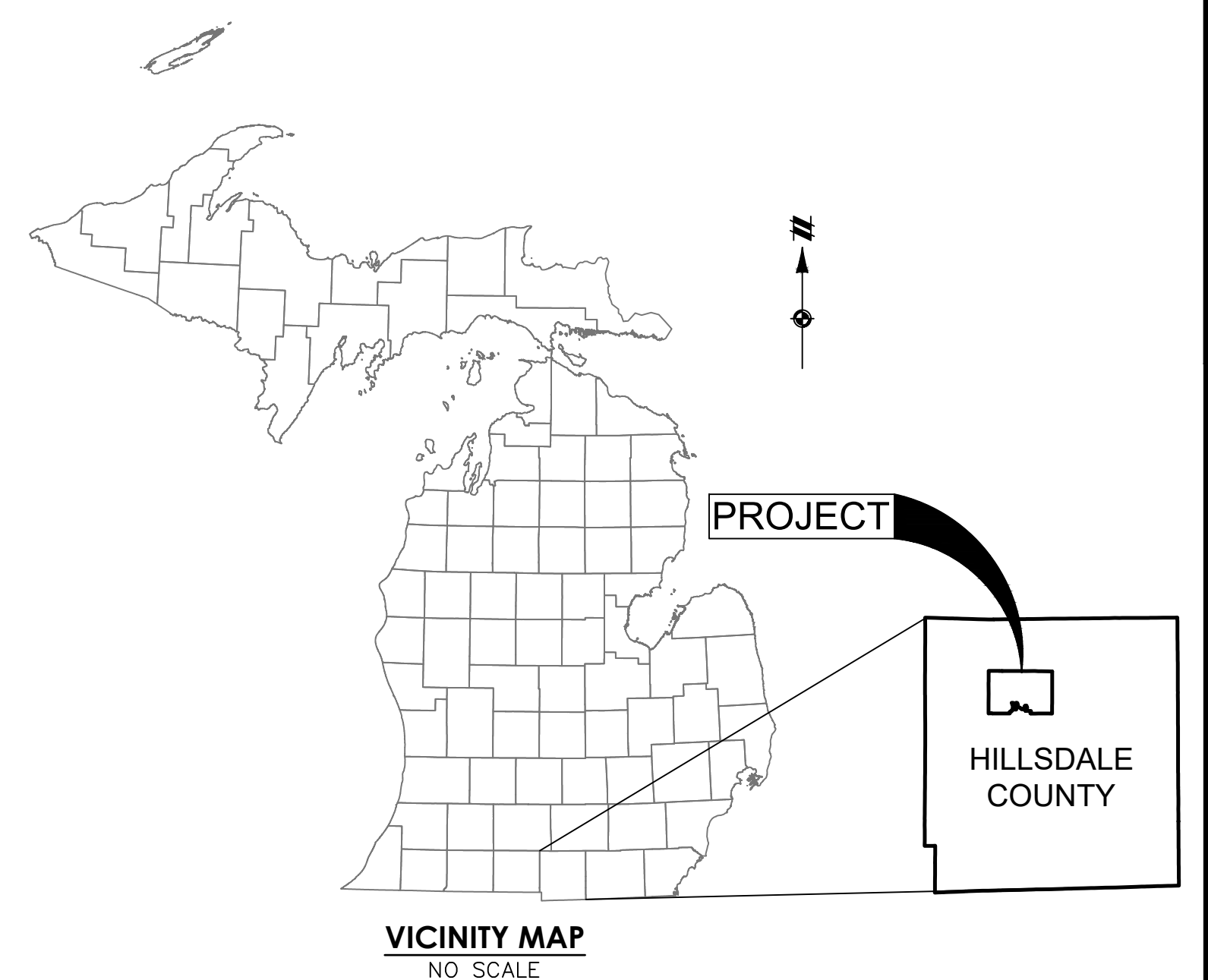
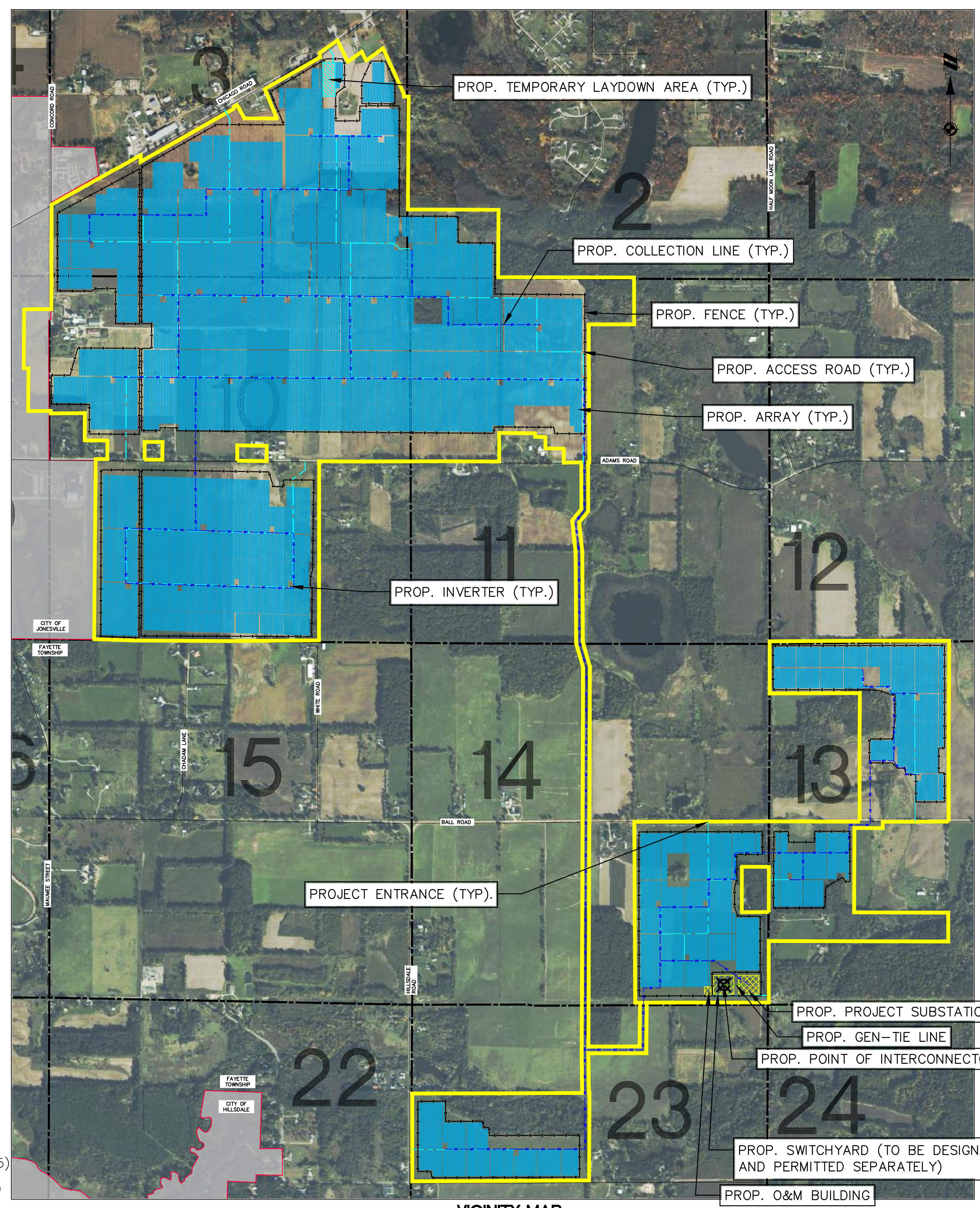
- SOLAR ARRAYS, INVERTERS, AND COLLECTION LINES
- ACCESS ROADS
- PERIMETER FENCING
- PROJECT SUBSTATION
- VEGETATIVE SCREENING

SITE DATA:

TOTAL PROJECT CAPACITY: 140 MW AC
TOTAL FENCED AREA: 1,033 ACRES
INVERTER QUANTITY: 42
ACCESS ROAD TOTAL LENGTH: 48,796 LF

DATA SOURCES:

TOPOGRAPHICAL INFORMATION	USGS NATIONAL ELEVATION DATASET (NED), 3 METER DEM
FINAL WETLAND DELINEATION	DRAIN MAPS PER COUNTY RECORDS (FIELD WORK COMPLETED AUGUST 2025)
LANDMARK TREE SURVEY	PROVIDED BY ATWELL (FIELD WORK COMPLETED AUGUST 2025)
PROPERTY BOUNDARY INFORMATION	GIS PERFORMED BY ATWELL (JULY 2025)
PARCEL PARTICIPATION	PROVIDED BY HEARTWOOD SOLAR II (JULY 2025)
HABITABLE STRUCTURE LOCATIONS	AERIAL PHOTO REVIEW BY ATWELL (JULY 2025)
PROJECT LAYOUT	PROVIDED BY ATWELL (AUGUST 2025)



LEGEND

[Yellow outline]	PROJECT AREA
[Dashed line]	EX. ROAD CENTERLINE
[Dotted line]	SECTION LINE
[Red outline]	CITY BOUNDARY
[Blue hatched area]	PROP. SOLAR ARRAY
[Dashed line with 'x' markers]	PROP. FENCE
[Dashed line with 'x' markers]	PROP. GRAVEL ACCESS ROAD
[Red square]	PROP. INVERTER
[Blue dashed line]	PROP. COLLECTION LINE
[Circle with 'X']	PROP. POINT OF INTERCONNECTION (POI)
[Green dashed line]	PROP. GEN-TIE LINE
[Yellow hatched box]	PROP. SUBSTATION AND OPERATIONS & MAINTENANCE (O&M)
[Yellow hatched box]	PROP. SWITCHYARD
[Blue hatched box]	PROP. TEMPORARY LAYDOWN YARD

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
01	COVER SHEET
02	PARTICIPATING LAND OWNER TABLE
03	FAYETTE ZONING MAP
04	EXISTING CONDITIONS
05	PROPOSED CONDITIONS - OVERALL
06-15	PROPOSED CONDITIONS - 200' SCALE
16	PROPOSED HAUL ROUTE PLAN
17	PROPOSED LANDSCAPING PLAN
18	PROPOSED VEGETATION MANAGEMENT PLAN
19	PROBABLE GRADING AREAS
20	SESC PLAN
21	SECURITY DETAILS
22	PROPOSED VEGETATION MANAGEMENT DETAILS
23	CROSSING & ACCESS ROAD DETAILS
24	SOLAR DETAILS & CONSTRUCTION

SECTIONS: 2-3, 9-11, 13-14, 23-24
TOWN, RANGE: T05S, R03W
FAYETTE TOWNSHIP
HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP SLUP
FINAL SITE PLAN
COVER SHEET

DATE: 12/05/2025

REVISIONS

DR. MB | CH. ES
P.M. ES
BOOK --
JOB 24000089
SHEET NO. 01

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION



Know what's below.
Call before you dig.

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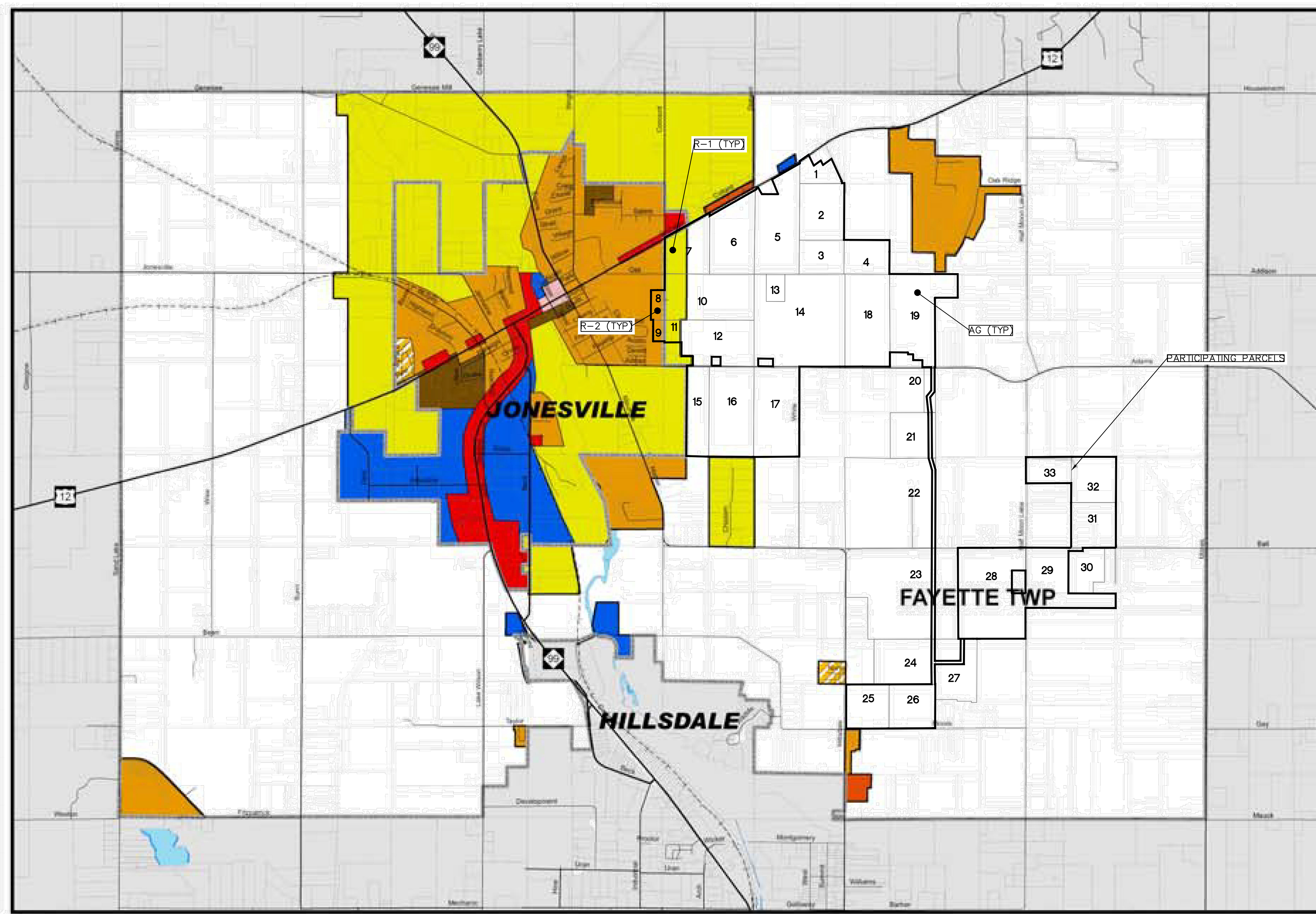
SECTIONS: 2-3, 9-11, 13-14, 23-24
 TOWN, RANGE: T05S, R03W
 FAYETTE TOWNSHIP
 HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
 HEARTWOOD SOLAR II
 FAYETTE TOWNSHIP SLUP
 FINAL SITE PLAN
 FAYETTE TOWNSHIP ZONING MAP

DATE: 12/05/2025

REVISIONS

DR.	MB	CH.	ES
P.M.	ES		
BOOK	--		
JOB	24000089		
SHEET NO.	03		



LEGEND

- MUNICIPAL LIMITS
- PARCELS

ZONING

- AG** AGRICULTURE
- R-1** SINGLE-FAMILY RESIDENTIAL
- R-2** SINGLE-FAMILY RESIDENTIAL
- R-3** MULTIPLE-FAMILY RESIDENTIAL
- MHP** MANUFACTURED HOUSING PARK
- CBD** CENTRAL BUSINESS DISTRICT (CBD)
- HC** HIGHWAY COMMERCIAL
- LI** LIGHT INDUSTRIAL

LEGEND

- PROJECT AREA

FAYETTE TOWNSHIP ZONING MAP

NOT TO SCALE
 INCLUDED WITH 2010 MASTER PLAN

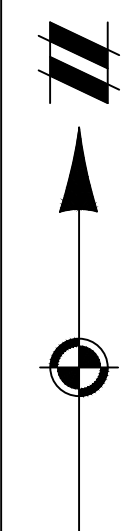
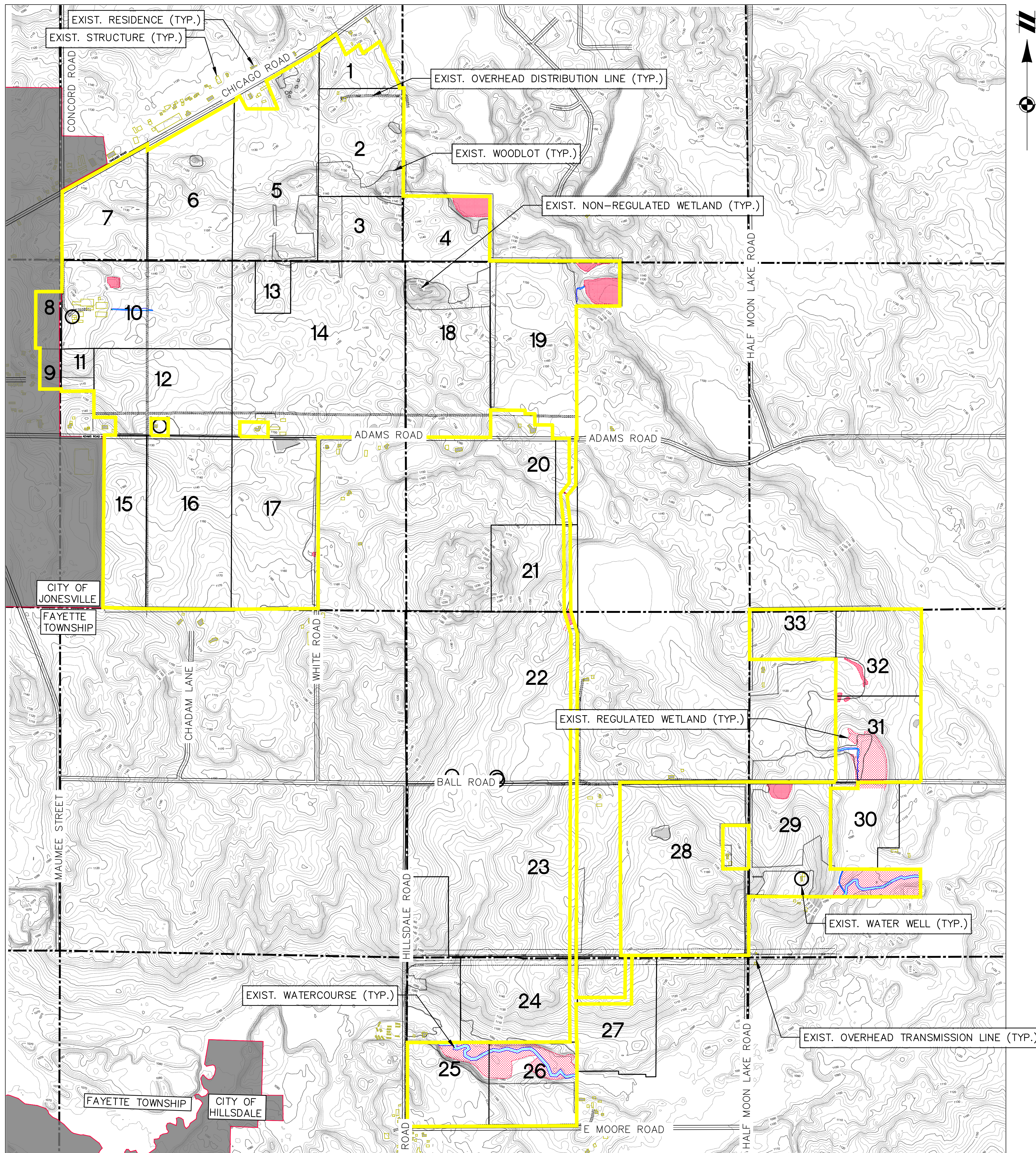
VILLAGE OF JONESVILLE AND FAYETTE TOWNSHIP CURRENT ZONING DISTRICTS

NOTE: PARTICIPATING PARCELS LOCATED WITHIN THE AGRICULTURAL DISTRICT (AG) AND SINGLE-FAMILY RESIDENTIAL DISTRICT (R-1, R-2). PROPOSED PROJECT INFRASTRUCTURE IS ONLY SITED WITHIN AG OR R-1 ZONING, AS AN ALLOWABLE USE FOR SOLAR FARMS UNDER THE TOWNSHIP OF FAYETTE SOLAR ENERGY SYSTEMS ORDINANCE.
 1 = PARCEL ID (SEE SHEET 02 FOR PARTICIPATING LANDOWNER LIST).

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

12/05/2025 10:00 AM HEARTWOOD SOLAR II - SOLAR CAPACITY STUDY PLAN SET (3/13/2025) PRELIMINARY/04/05/2025 - SLUP-01 - 01/05/2025 4:53 PM MADRID, RAC

CAD FILE: 24000089-SLUP-01-CAD.DWG



NOTES

1. EXISTING CONTOURS ARE BASED ON PUBLICLY AVAILABLE USGS DATA AND ARE PROVIDED FOR PRELIMINARY DESIGN AND REVIEW ONLY – NOT TO BE USED FOR CONSTRUCTION.
2. PARCEL BOUNDARY INFORMATION IS BASED ON COUNTY GIS LINEWORK AND SUBJECT TO CONFIRMATION/ADJUSTMENT BASED ON FIELD BOUNDARY SURVEYS PRIOR TO CONSTRUCTION.
3. WATER RESOURCE DATA DISPLAYED IS BASED ON FIELD SURVEYS COMPLETED BY ATWELL.
4. THERE IS NO MAPPED FEMA 100-YEAR FLOODPLAIN LOCATED WITHIN THE PROJECT AREA.
5. EXISTING UTILITIES AND EASEMENTS ARE BASED ON PUBLIC GIS LINEWORK AND AERIAL INTERPRETATION AND SUBJECT TO CONFIRMATION/ADJUSTMENT BASED ON TITLE REVIEW AND ALTA SURVEY PRIOR TO CONSTRUCTION.
6. RESIDENCE AND STRUCTURE LOCATIONS BASED ON PUBLIC GIS LINEWORK AND AERIAL VERIFICATION AND SUBJECT TO CONFIRMATION/ADJUSTMENT BASED ON TITLE REVIEW AND ALTA PRIOR TO CONSTRUCTION.

LEGEND

- PROJECT AREA
- EXIST. STREAM CENTERLINE
- EXIST. STREAM TOP OF BANK
- EXIST. EGLE REGULATED WETLAND
- EXIST. NON-REGULATED WETLAND
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- SECTION LINE
- PARCEL BOUNDARY
- EXIST. WATER WELL
- EXIST. RESIDENCE
- EXIST. STRUCTURE
- EXIST. TREE LINE
- EXIST. OVERHEAD ELECTRICAL
- EXIST. EASEMENT
- EXIST. OVERHEAD TRANSMISSION
- EXIST. MAJOR CONTOUR
- EXIST. MINOR CONTOUR
- EXIST. CITY BOUNDARY
- 1** PARCEL ID



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SECTIONS: 2-3, 9-11, 13-14, 23-24
TOWN, RANGE: T05S, R03W
FAYETTE TOWNSHIP
HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP SLUP
FINAL SITE PLAN
EXISTING CONDITIONS - OVERALL

DATE: 12/05/2025

REVISIONS

SCALE: 0 400 800
1" = 800 FEET
DR. MB CH. ES
P.M. ES
BOOK --
JOB 24000089
SHEET NO. 04

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

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CAD FILE: 24000089-SLUP-02-EC.DWG



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FAYETTE TOWNSHIP
HILLSDALE COUNTY, MICHIGAN

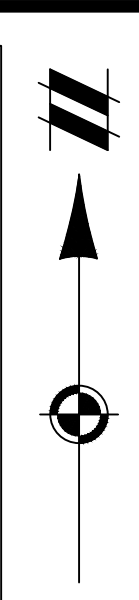
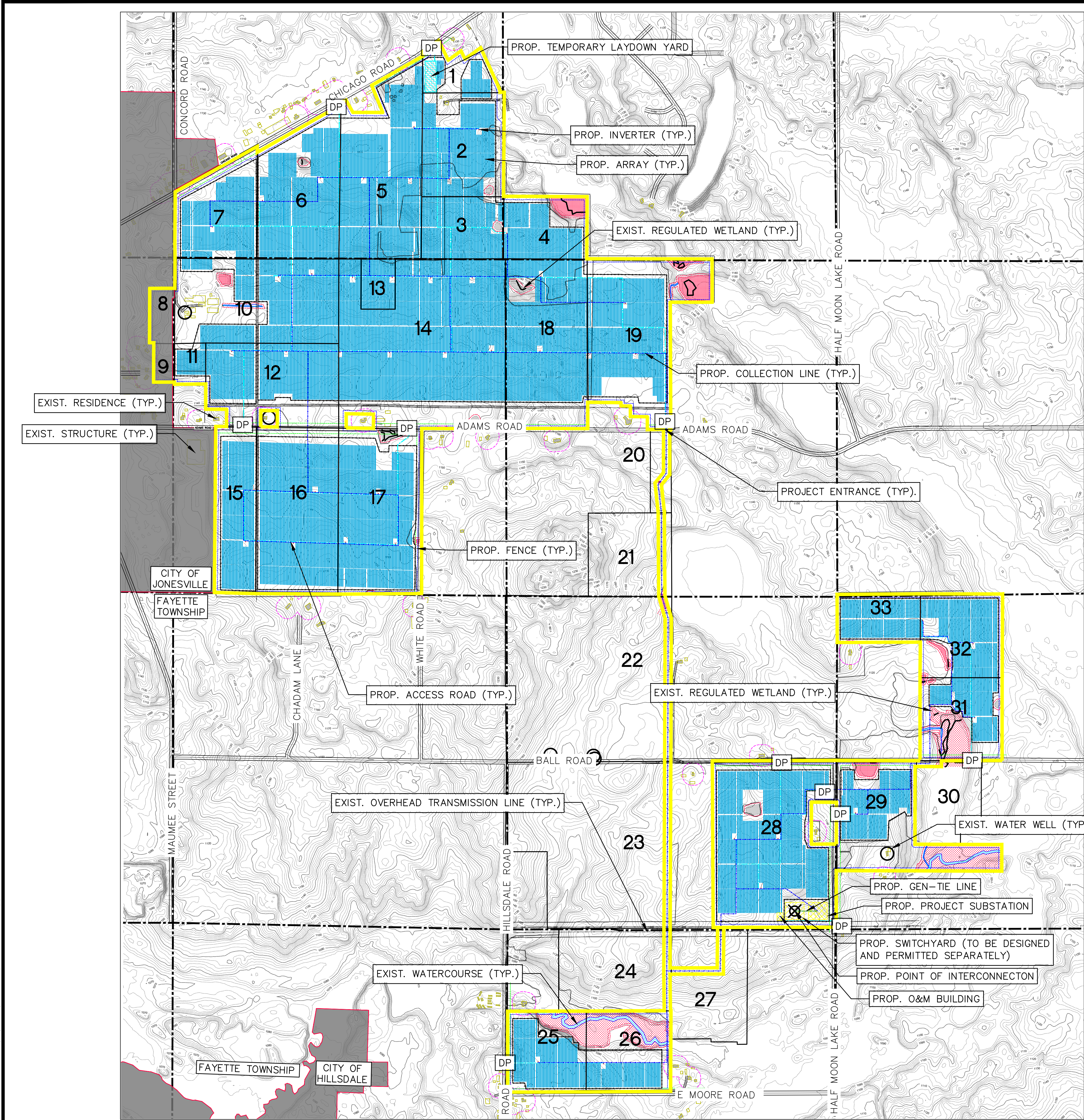
CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP SLUP
FINAL SITE PLAN
PROPOSED CONDITIONS - OVERALL

DATE: 12/05/2025

REVISIONS

SCALE 0 400 800
1" = 800 FEET
DR. MB CH. ES
P.M. ES
BOOK --
JOB 24000089
SHEET NO. 05

CAD FILE: 24000089-SLUP-03-PR.DWG



NOTES

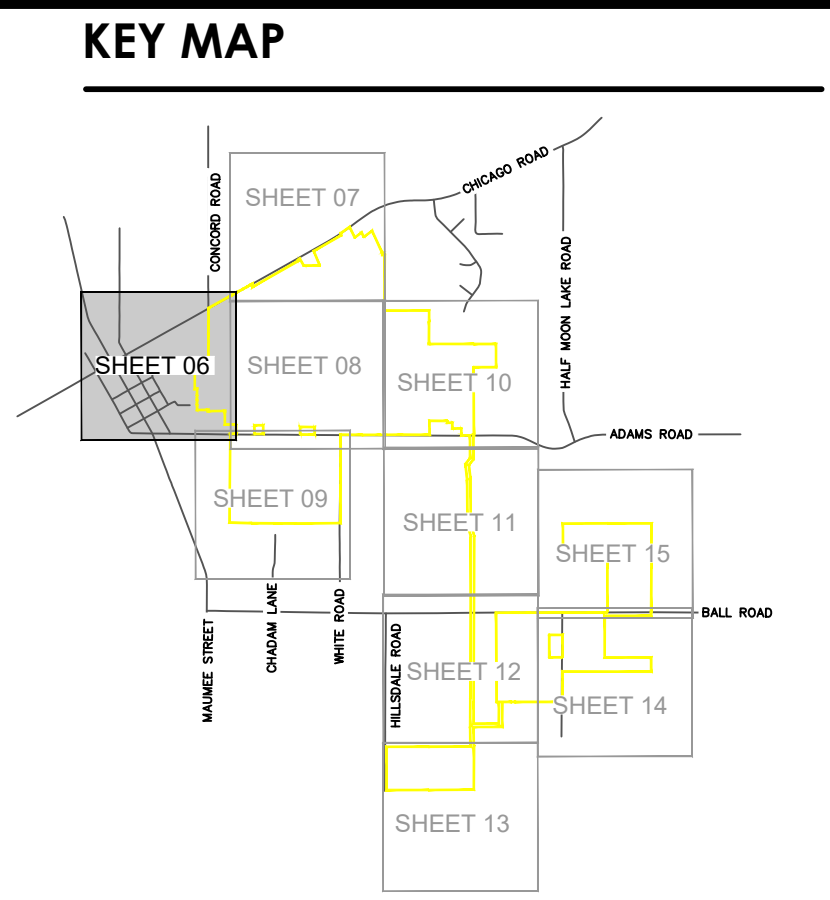
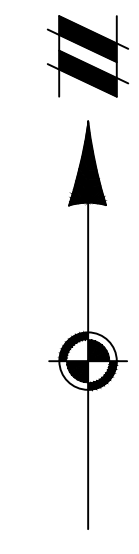
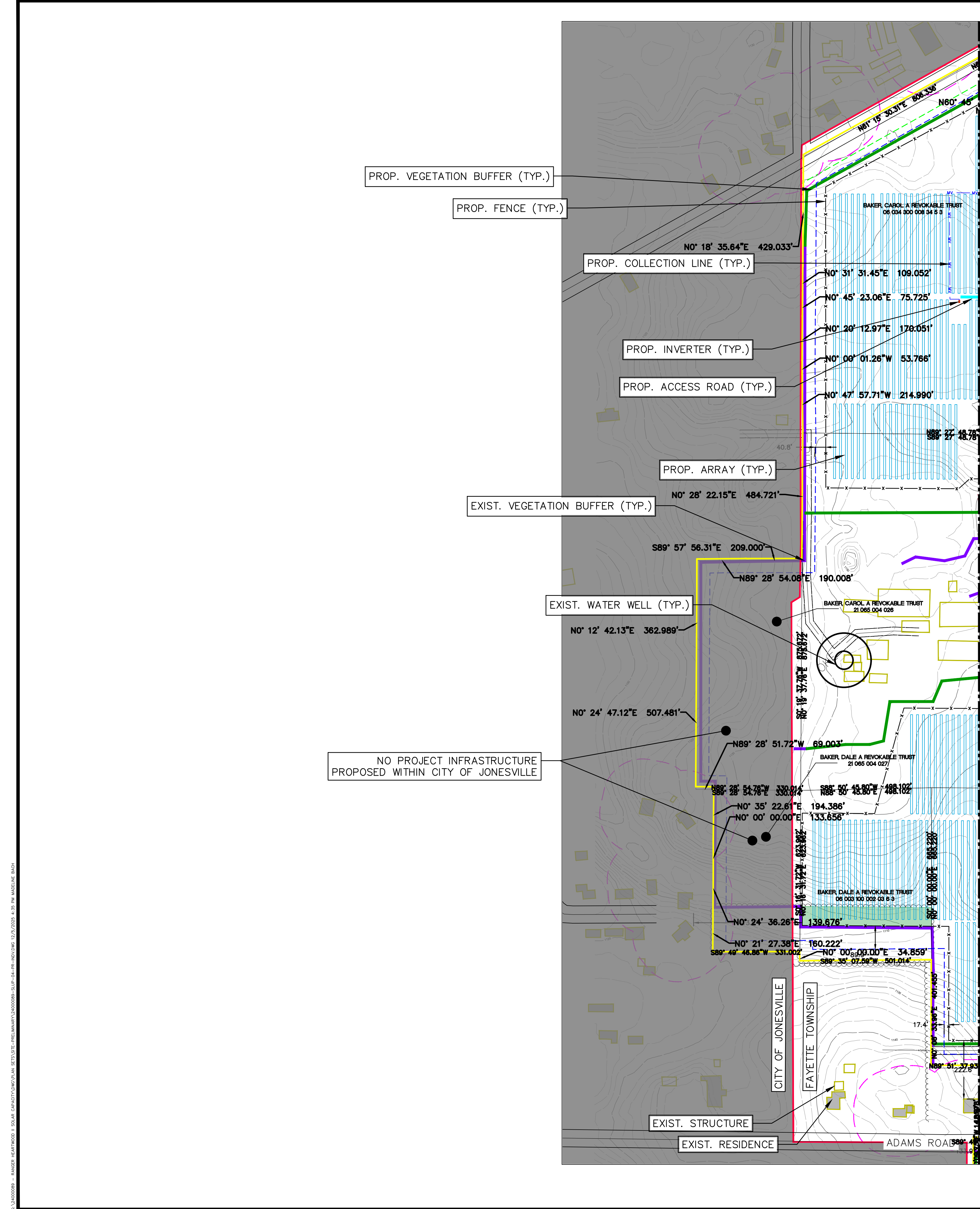
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- SEE SHEET 20-24 FOR ADDITIONAL NOTES & DETAILS.

LEGEND

	PROJECT AREA		PROP. SOLAR ARRAY
	EXIST. STREAM CENTERLINE		PROP. FENCE
	EXIST. STREAM TOP OF BANK		PROP. GRAVEL ACCESS ROAD
	EXIST. EGLE REGULATED WETLAND		PROP. INVERTER
	EXIST. NON-REGULATED WETLAND		PROP. POINT OF INTERCONNECTION (POI)
	EXIST. ROAD R.O.W.		PROP. GEN-TIE LINE
	EXIST. ROAD CENTERLINE		PROP. COLLECTION LINE
	SECTION LINE		PROP. SUBSTATION AND OPERATIONS & MAINTENANCE (O&M)
	PARCEL BOUNDARY		PROP. SWITCHYARD
	EXIST. WATER WELL		PROP. TEMPORARY LAYDOWN YARD
	EXIST. RESIDENCE		DRIVEWAY PERMIT REQUIRED FROM HILLSDALE COUNTY ROAD COMMISSIONER
	EXIST. STRUCTURE		PARCEL ID
	EXIST. TREE LINE		
	EXIST. OVERHEAD ELECTRICAL		
	EXIST. EASEMENT		
	EXIST. OVERHEAD TRANSMISSION		
	EXIST. MAJOR CONTOUR		
	EXIST. MINOR CONTOUR		
	EXIST. CITY BOUNDARY		

MINIMUM SETBACK TABLE (TO FENCELINE)		
TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING RESIDENCES SETBACK	150'	
RIGHT-OF-WAY SETBACK	50'	
NON-PARTICIPATING PROPERTY LINE SETBACK	50'	
WETLAND AND STREAM SETBACK (VOLUNTARY)	25'	

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION



NOTES

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- CULVERTS TO BE PROVIDED AT PROPOSED DRIVEWAYS WHERE NECESSARY BASED ON PRESENCE OF ROADSIDE DRAINAGE DITCH AND APPROVAL FROM THE COUNTY.
- THE PROPOSED TREE REMOVAL AREA INSIDE OF THE FENCED PV ARRAY IS 38.31 ACRES. IT IS UNDERSTOOD THAT FUTURE ADDITIONAL TREE REMOVAL SHALL BE REQUIRED OUTSIDE OF THE ARRAY FENCE.
- SEE SHEET 20-24 FOR ADDITIONAL NOTES & DETAILS.

LEGEND

	PROJECT AREA		EXIST. VEGETATION BUFFER
	EXIST. STREAM CENTERLINE		PROP. VEGETATION BUFFER
	EXIST. EGLE REGULATED WETLAND		PROP. SOLAR ARRAY
	EXIST. NON-REGULATED WETLAND		PROP. FENCE
	EXIST. ROAD R.O.W.		PROP. GRAVEL ACCESS ROAD
	EXIST. ROAD CENTERLINE		PROP. INVERTER
	PARCEL BOUNDARY		PROP. POINT OF INTERCONNECTION (POI)
	EXIST. WATER WELL		PROP. GEN-TIE LINE
	EXIST. RESIDENCE		PROP. SUBSTATION AND OPERATIONS & MAINTENANCE (O&M)
	EXIST. STRUCTURE		PROP. COLLECTION LINE
	EXIST. TREE LINE		PROP. TEMPORARY LAYDOWN YARD
	EXIST. OVERHEAD ELECTRICAL		PROP. TREE CLEARING
	EXIST. EASEMENT		DRIVEWAY PERMIT REQUIRED FROM HILLSDALE COUNTY ROAD COMMISSIONER
	EXIST. OVERHEAD TRANSMISSION		
	EXIST. MAJOR CONTOUR		
	EXIST. MINOR CONTOUR		
	EXIST. CITY BOUNDARY		

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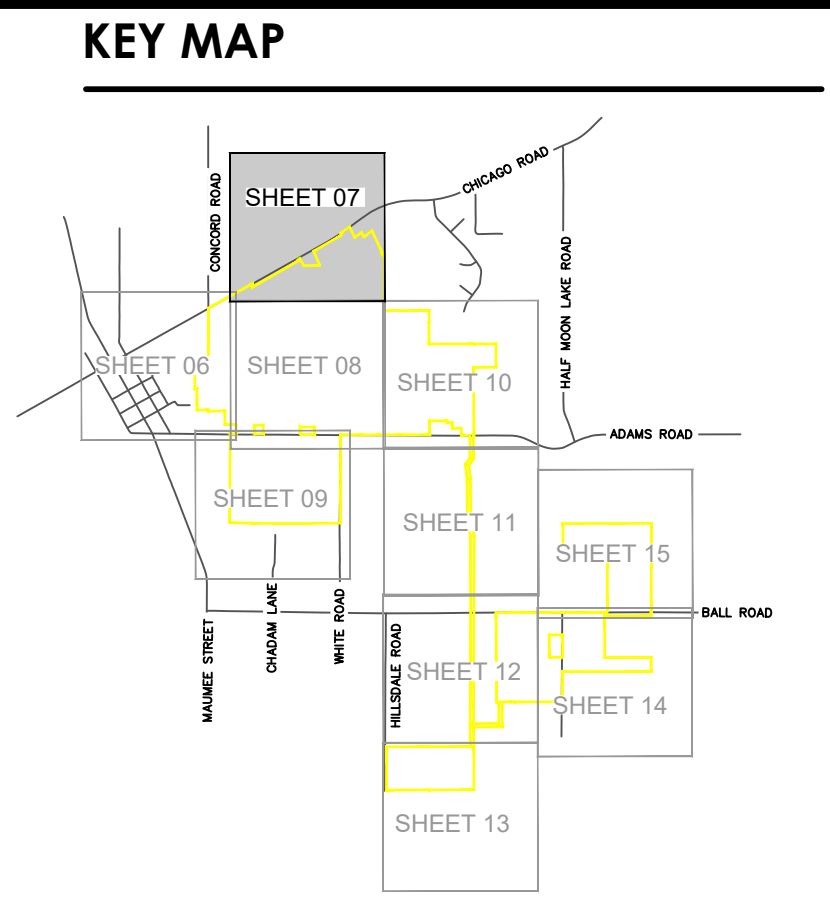
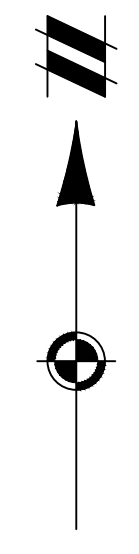
SECTIONS: 2-3, 9-11, 13-14, 23-24	TOWN, RANGE: TOSS, R03W	FAYETTE TOWNSHIP	HILLSDALE COUNTY, MICHIGAN
CLIENT: HEARTWOOD SOLAR II, LLC	HEARTWOOD SOLAR II FAYETTE TOWNSHIP SLUP FINAL SITE PLAN PROPOSED CONDITIONS		
DATE: 12/05/2025			
REVISIONS:			

SCALE: 0 100 200
1" = 200 FEET

DR. MB CH. ES
P.M. ES
BOOK --
JOB 24000089
SHEET NO. 06

CAD FILE: 24000089-SLUP-04-FR-INDV.DWG

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION



NOTES

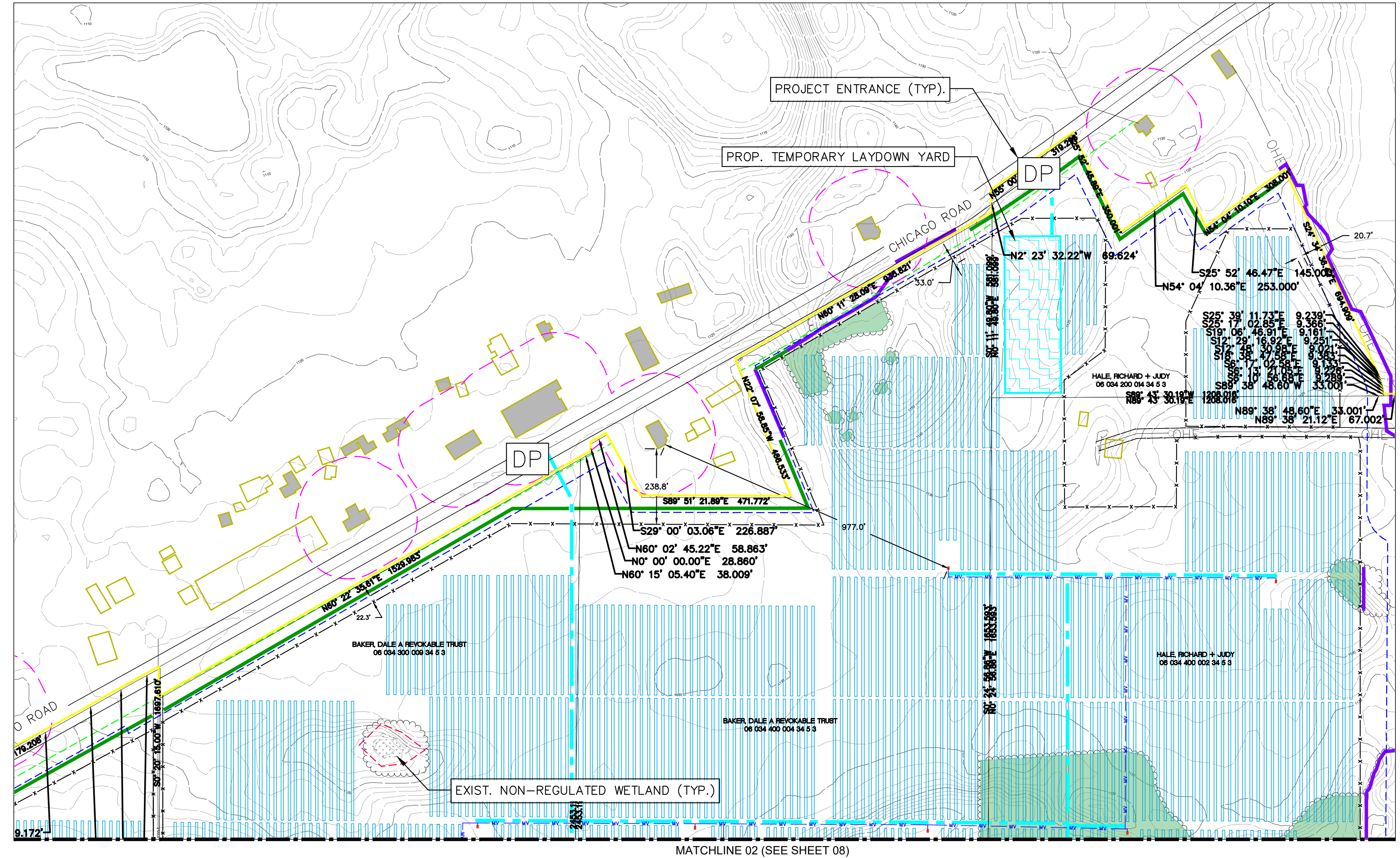
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LEGEND

	PROJECT AREA		EXIST. VEGETATION BUFFER
	EXIST. STREAM CENTERLINE		PROP. VEGETATION BUFFER
	EXIST. EGLE REGULATED WETLAND		PROP. SOLAR ARRAY
	EXIST. NON-REGULATED WETLAND		PROP. FENCE
	EXIST. ROAD R.O.W.		PROP. GRAVEL ACCESS ROAD
	EXIST. ROAD CENTERLINE		PROP. INVERTER
	PARCEL BOUNDARY		PROP. POINT OF INTERCONNECTION (POI)
	EXIST. WATER WELL		PROP. GEN-TIE LINE
	EXIST. RESIDENCE		PROP. SUBSTATION AND OPERATIONS & MAINTENANCE (O&M)
	EXIST. STRUCTURE		PROP. COLLECTION LINE
	EXIST. TREE LINE		PROP. TEMPORARY LAYDOWN YARD
	EXIST. OVERHEAD ELECTRICAL		PROP. TREE CLEARING
	EXIST. EASEMENT		DRIVEWAY PERMIT REQUIRED FROM HILLSDALE COUNTY ROAD COMMISSIONER
	EXIST. OVERHEAD TRANSMISSION		
	EXIST. MAJOR CONTOUR		
	EXIST. MINOR CONTOUR		
	EXIST. CITY BOUNDARY		

MINIMUM SETBACK TABLE (TO FENCELINE)

TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING RESIDENCES SETBACK	150'	
RIGHT-OF-WAY SETBACK	50'	
NON-PARTICIPATING PROPERTY LINE SETBACK	50'	
WETLAND AND STREAM SETBACK (VOLUNTARY)	25'	



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SECTIONS: 2-3, 9-11, 13-14, 23-24
TOWN, RANGE: T05S, R03W
FAYETTE TOWNSHIP
HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP SLUP
FINAL SITE PLAN
PROPOSED CONDITIONS

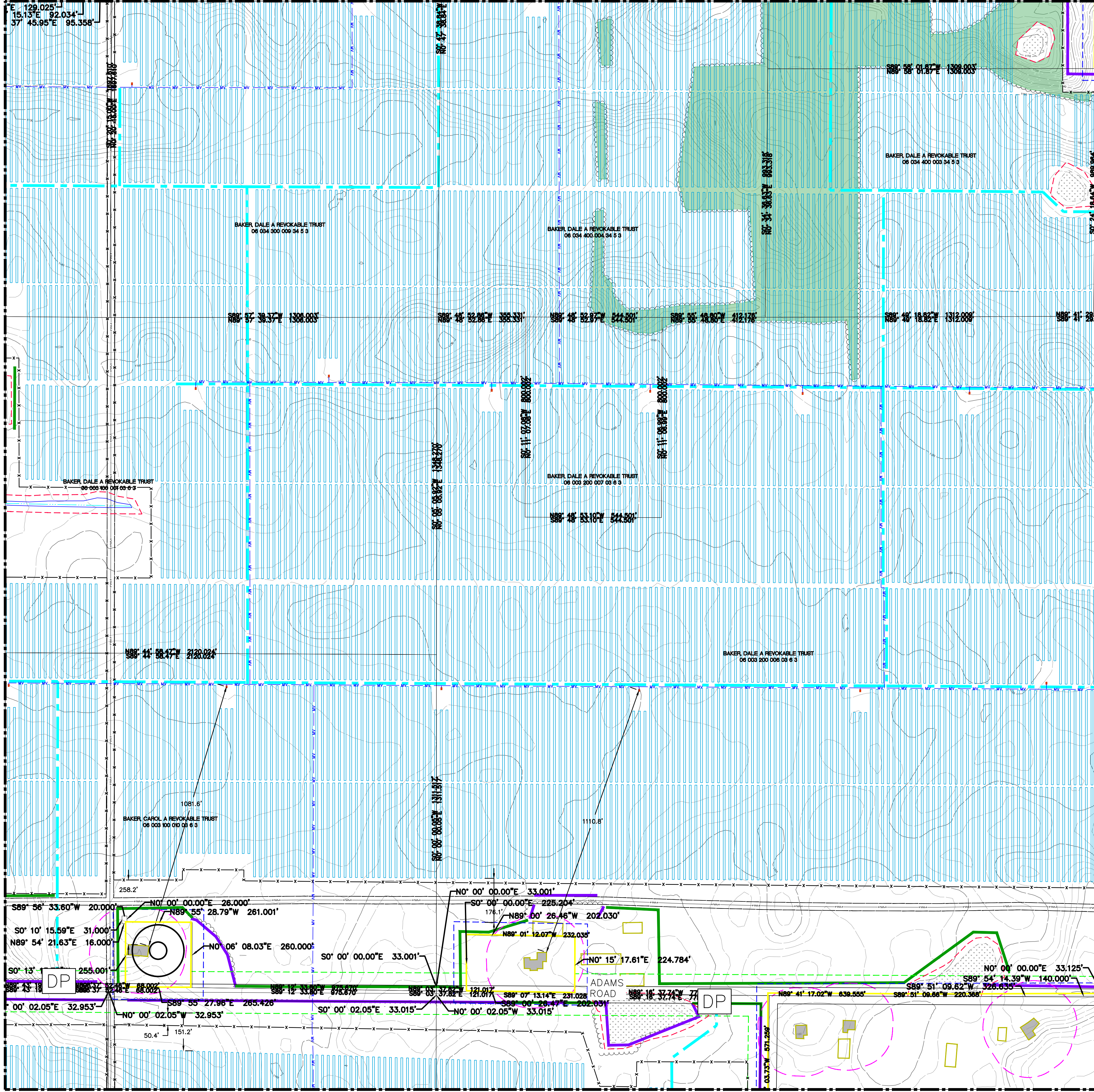
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REVISIONS

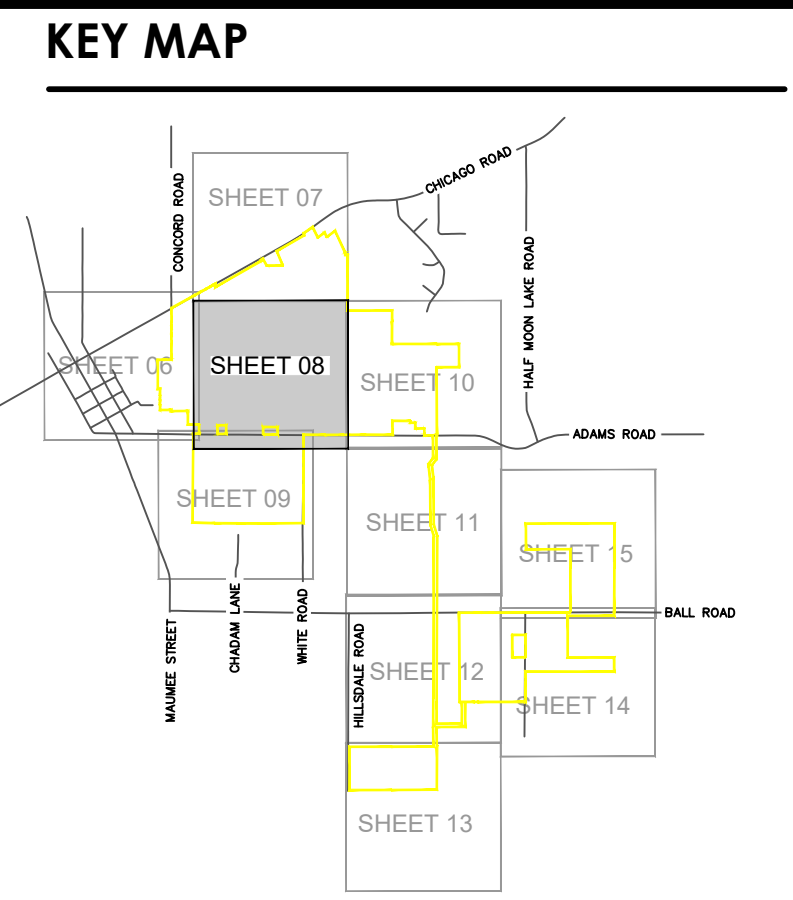
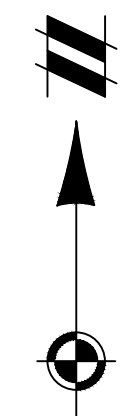
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1" = 200 FEET
DR. MB CH. ES
P.M. ES
BOOK --
JOB: 24000089
SHEET NO. 07

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

MATCHLINE 02 (SEE SHEET 07)



MATCHLINE 04 (SEE SHEET 09)



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LEGEND

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	EXIST. STREAM CENTERLINE		PROP. VEGETATION BUFFER
	EXIST. EGLE REGULATED WETLAND		PROP. SOLAR ARRAY
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	EXIST. STRUCTURE		PROP. COLLECTION LINE
	EXIST. TREE LINE		PROP. TEMPORARY LAYDOWN YARD
	EXIST. OVERHEAD ELECTRICAL		PROP. TREE CLEARING
	EXIST. EASEMENT		DRIVEWAY PERMIT REQUIRED FROM HILLSDALE COUNTY ROAD COMMISSIONER
	EXIST. OVERHEAD TRANSMISSION		
	EXIST. MAJOR CONTOUR		
	EXIST. MINOR CONTOUR		
	EXIST. CITY BOUNDARY		

TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING RESIDENCES SETBACK	150'	
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NON-PARTICIPATING PROPERTY LINE SETBACK	50'	
WETLAND AND STREAM SETBACK (VOLUNTARY)	25'	

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HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP, SLUP
FINAL SITE PLAN
PROPOSED CONDITIONS

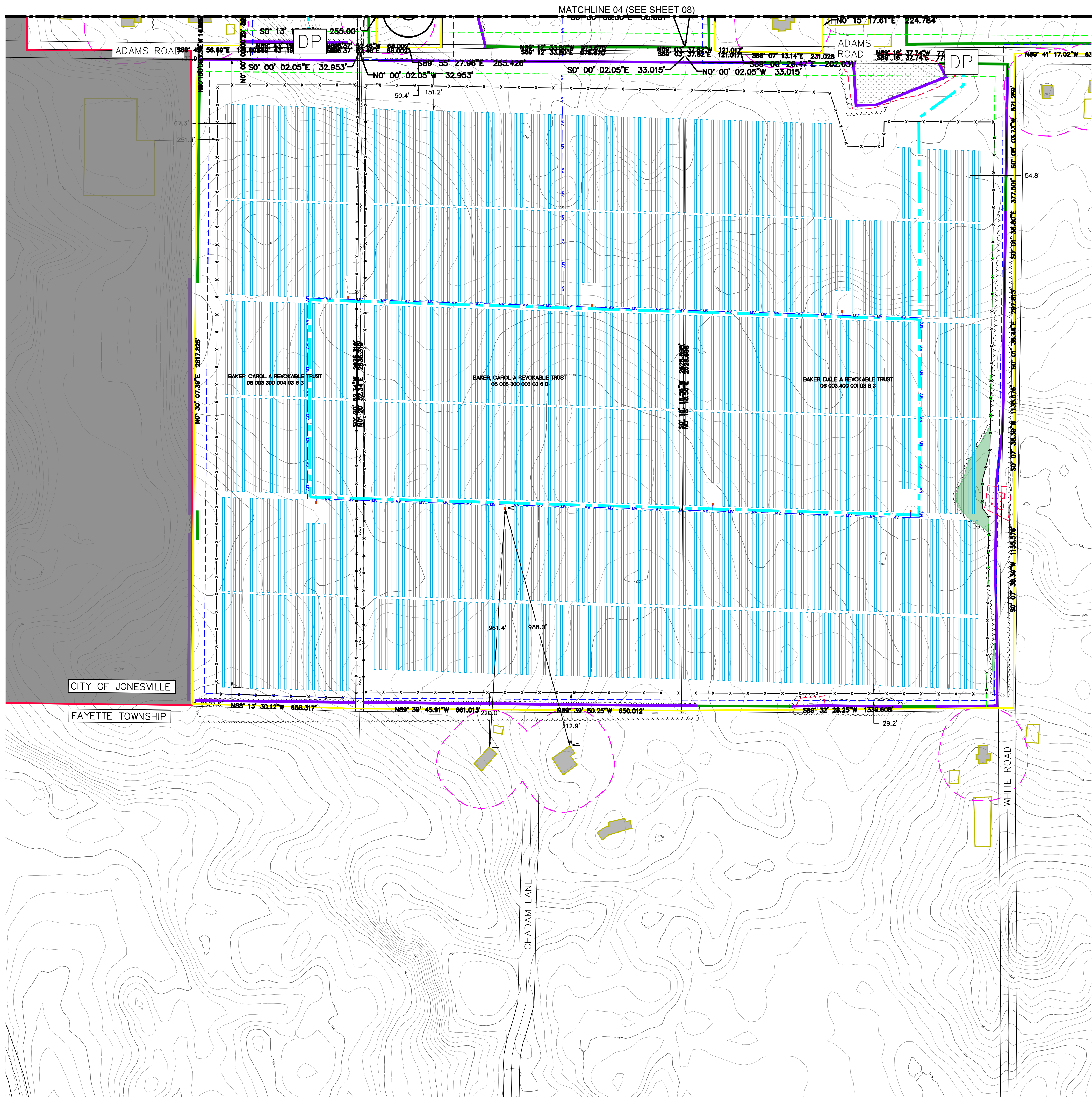
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REVISIONS

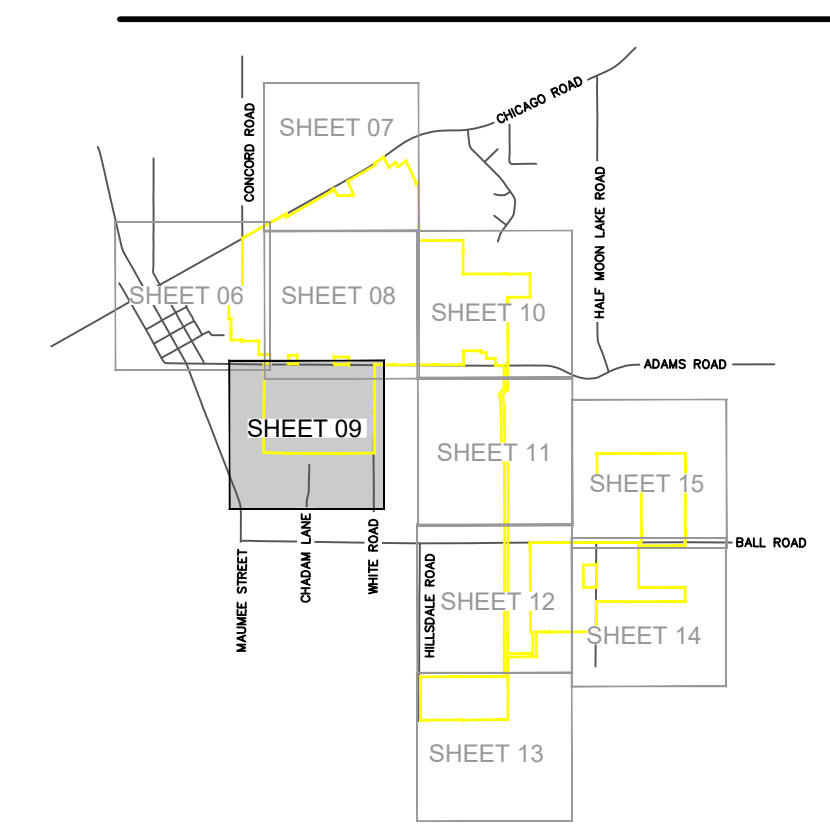
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1" = 200 FEET

DR. MB CH. ES
P.M. ES
BOOK --
JOB: 24000089
SHEET NO. 08

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION



KEY MAP



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	EXIST. OVERHEAD ELECTRICAL		PROP. TREE CLEARING
	EXIST. EASEMENT		DRIVEWAY PERMIT REQUIRED FROM HILLSDALE COUNTY ROAD COMMISSIONER
	EXIST. OVERHEAD TRANSMISSION		
	EXIST. MAJOR CONTOUR		
	EXIST. MINOR CONTOUR		
	EXIST. CITY BOUNDARY		

MINIMUM SETBACK TABLE (TO FENCELINE)

TYPE	DISTANCE	LINETYPE
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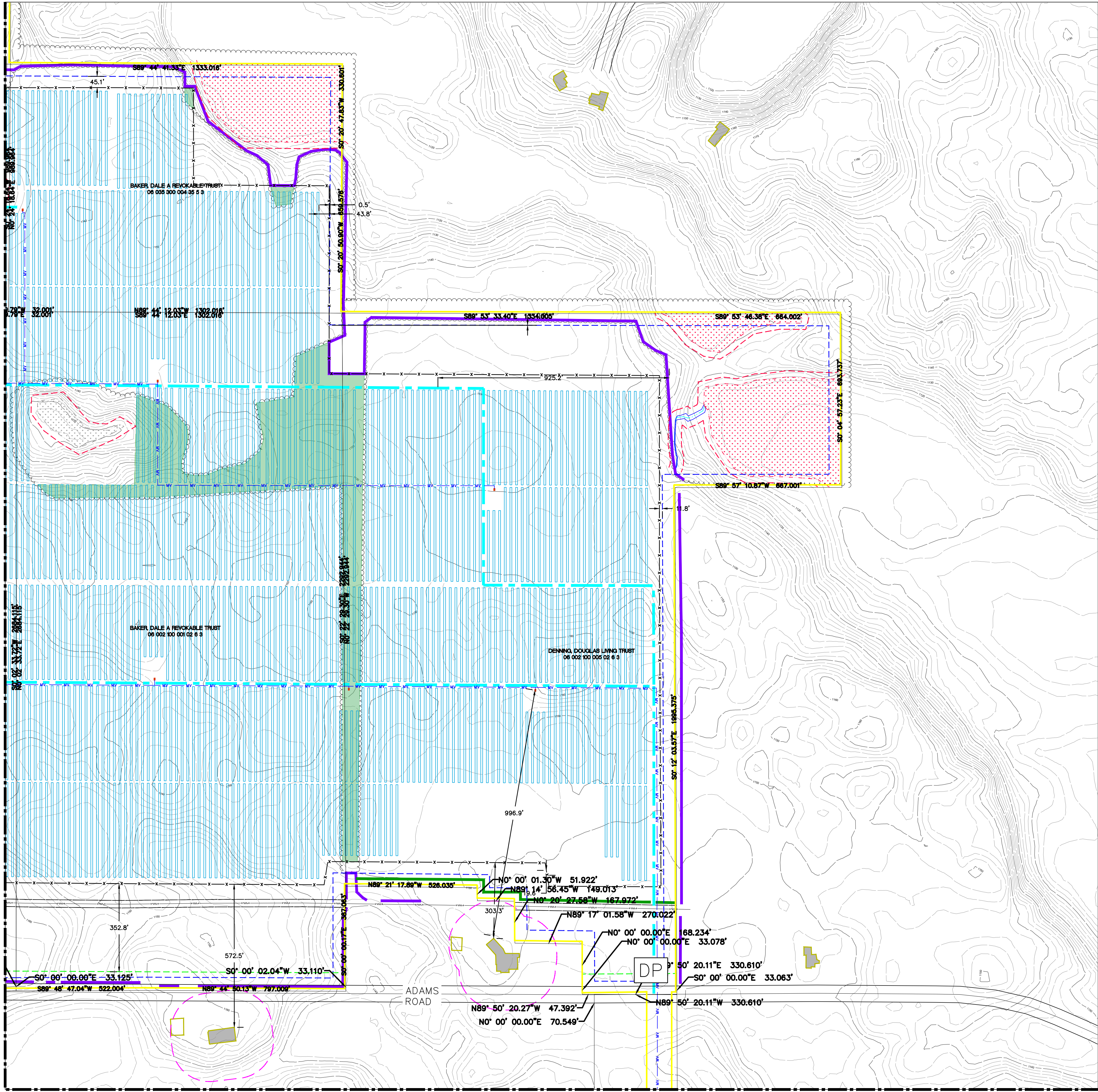
SECTIONS: 2-3, 9-11, 13-14, 23-24	TOWN, RANGE: TOSS, R03W	FAYETTE TOWNSHIP	HILLSDALE COUNTY, MICHIGAN
CLIENT: HEARTWOOD SOLAR II, LLC	HEARTWOOD SOLAR II FAYETTE TOWNSHIP SLUP FINAL SITE PLAN PROPOSED CONDITIONS		
DATE: 12/05/2025			
REVISIONS:			

SCALE: 0 100 200
1" = 200 FEET

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JOB 24000089
SHEET NO. 09

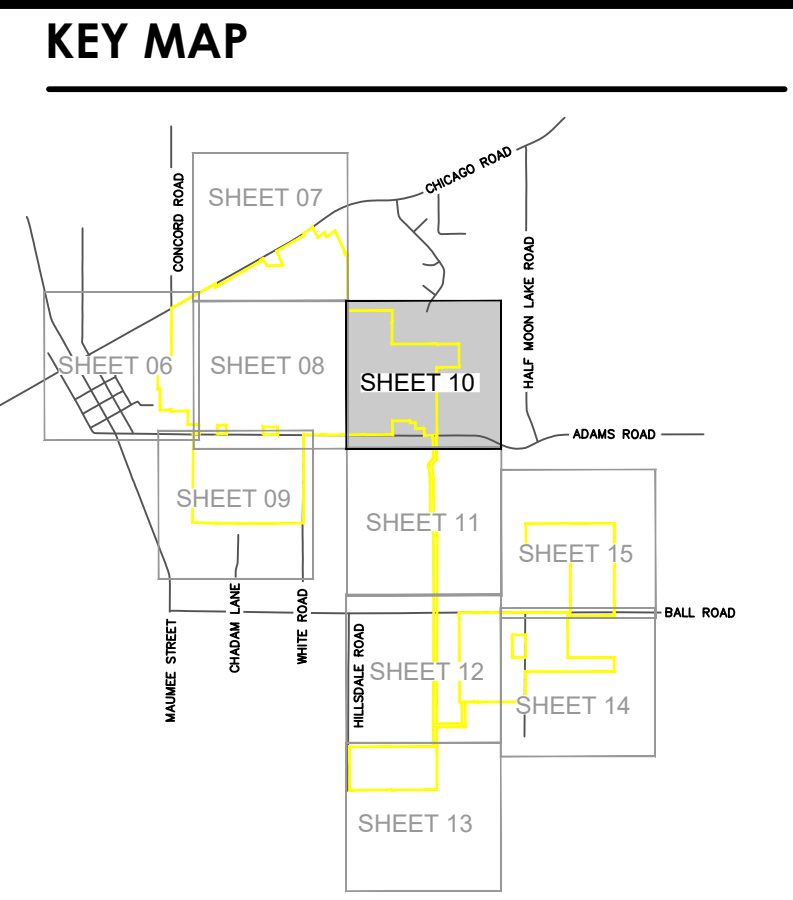
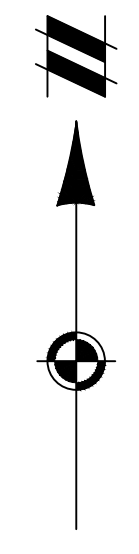
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SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION



MATCHLINE 03 (SEE SHEET 08)

MATCHLINE 05 (SEE SHEET 11)



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LEGEND

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	EXIST. STREAM CENTERLINE		PROP. VEGETATION BUFFER
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	EXIST. OVERHEAD TRANSMISSION		
	EXIST. MAJOR CONTOUR		
	EXIST. MINOR CONTOUR		
	EXIST. CITY BOUNDARY		

MINIMUM SETBACK TABLE (TO FENCELINE)

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NON-PARTICIPATING RESIDENCES SETBACK	150'	
RIGHT-OF-WAY SETBACK	50'	
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SECTIONS: 2-3, 9-11, 13-14, 23-24
TOWN, RANGE: T05S, R03W
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HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP, SLUP
FINAL SITE PLAN
PROPOSED CONDITIONS

DATE: 12/05/2025

REVISIONS

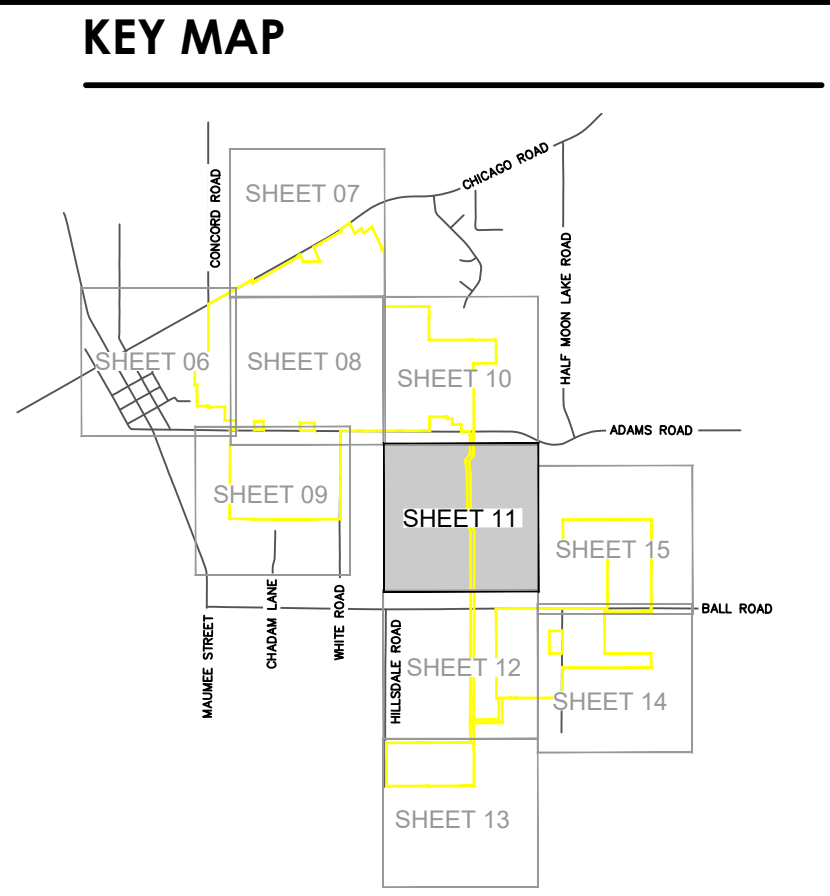
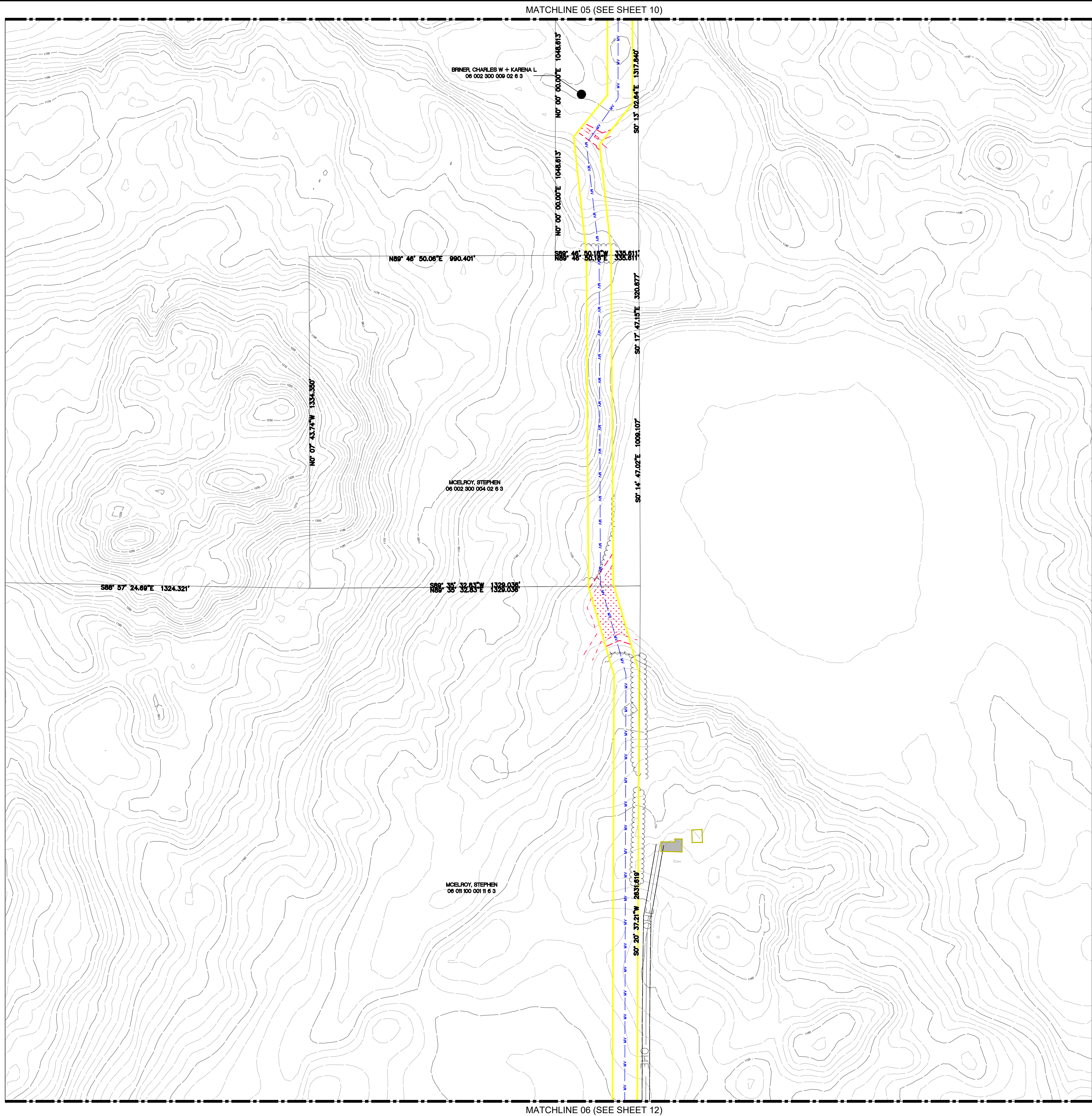
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P.M. ES
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JOB 24000089
SHEET NO. 10

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

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DATE: 12/05/2025

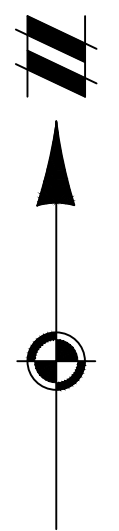
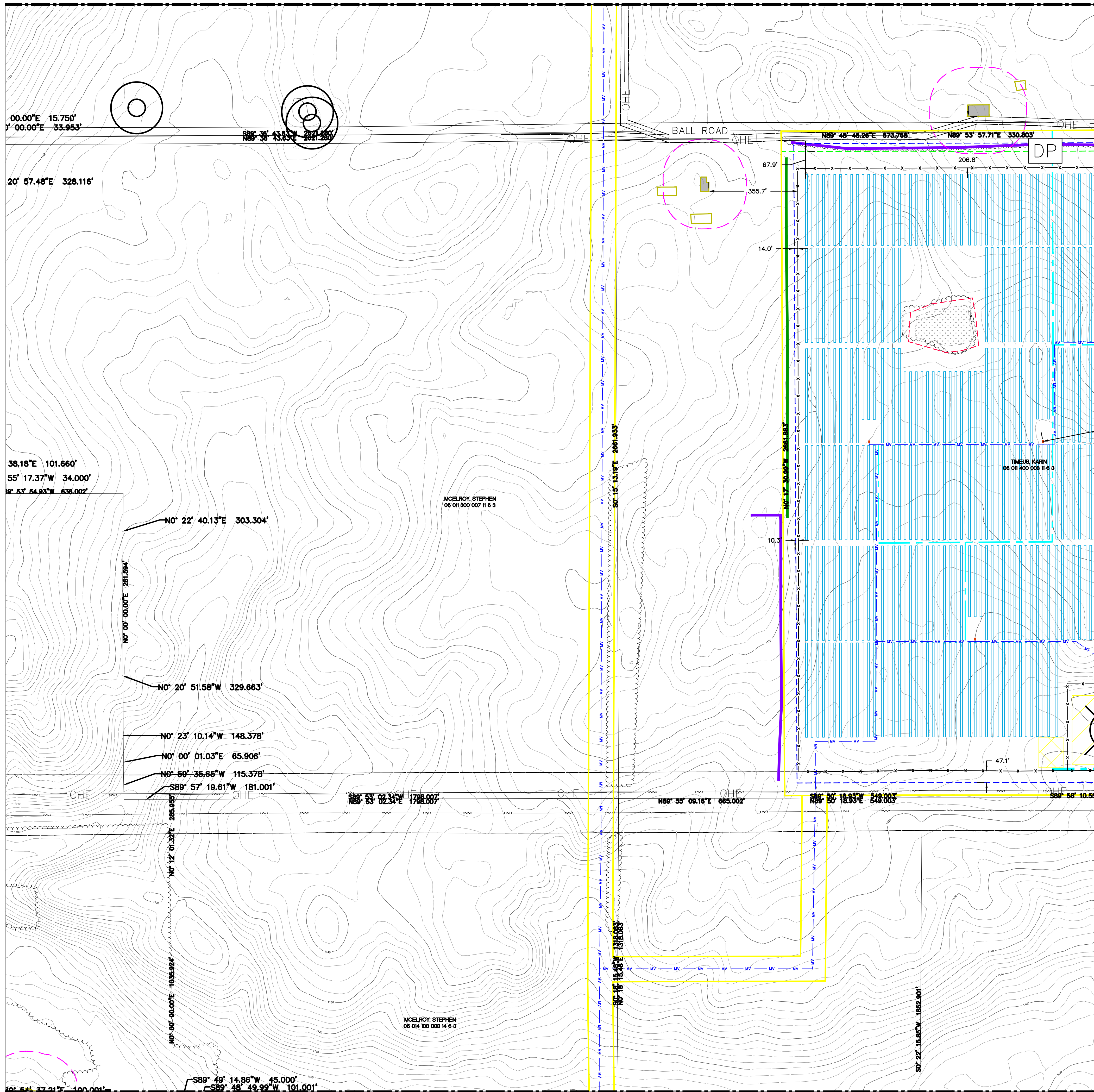
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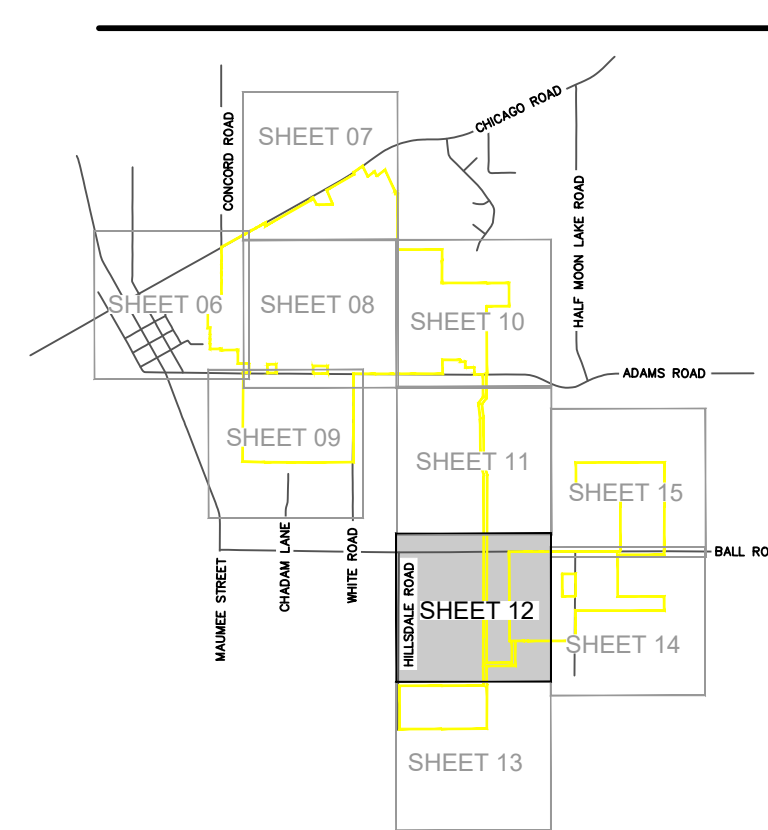
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P.M. ES
BOOK --
JOB 24000089
SHEET NO. 11

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

MATCHLINE 06 (SEE SHEET 11)



KEY MAP



NOTES

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- SEE SHEET 20-24 FOR ADDITIONAL NOTES & DETAILS.

LEGEND

	PROJECT AREA		EXIST. VEGETATION BUFFER
	EXIST. STREAM CENTERLINE		PROP. VEGETATION BUFFER
	EXIST. EGLE REGULATED WETLAND		PROP. SOLAR ARRAY
	EXIST. NON-REGULATED WETLAND		PROP. FENCE
	EXIST. ROAD R.O.W.		PROP. GRAVEL ACCESS ROAD
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	PARCEL BOUNDARY		PROP. POINT OF INTERCONNECTION (POI)
	EXIST. WATER WELL		PROP. GEN-TIE LINE
	EXIST. RESIDENCE		PROP. SUBSTATION AND OPERATIONS & MAINTENANCE (O&M)
	EXIST. STRUCTURE		PROP. COLLECTION LINE
	EXIST. TREE LINE		PROP. TEMPORARY LAYDOWN YARD
	EXIST. OVERHEAD ELECTRICAL		PROP. TREE CLEARING
	EXIST. EASEMENT		DRIVEWAY PERMIT REQUIRED FROM HILLSDALE COUNTY ROAD COMMISSIONER
	EXIST. OVERHEAD TRANSMISSION		
	EXIST. MAJOR CONTOUR		
	EXIST. MINOR CONTOUR		
	EXIST. CITY BOUNDARY		

MINIMUM SETBACK TABLE (TO FENCELINE)

TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING RESIDENCES SETBACK	150'	
RIGHT-OF-WAY SETBACK	50'	
NON-PARTICIPATING PROPERTY LINE SETBACK	50'	
WETLAND AND STREAM SETBACK (VOLUNTARY)	25'	

811
Know what's below.
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SECTIONS: 2-3, 9-11, 13-14, 23-24

TOWN, RANGE: TOSS, R03W
FAYETTE TOWNSHIP
HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC

HEARTWOOD SOLAR II
FAYETTE TOWNSHIP, SLUP
FINAL SITE PLAN
PROPOSED CONDITIONS

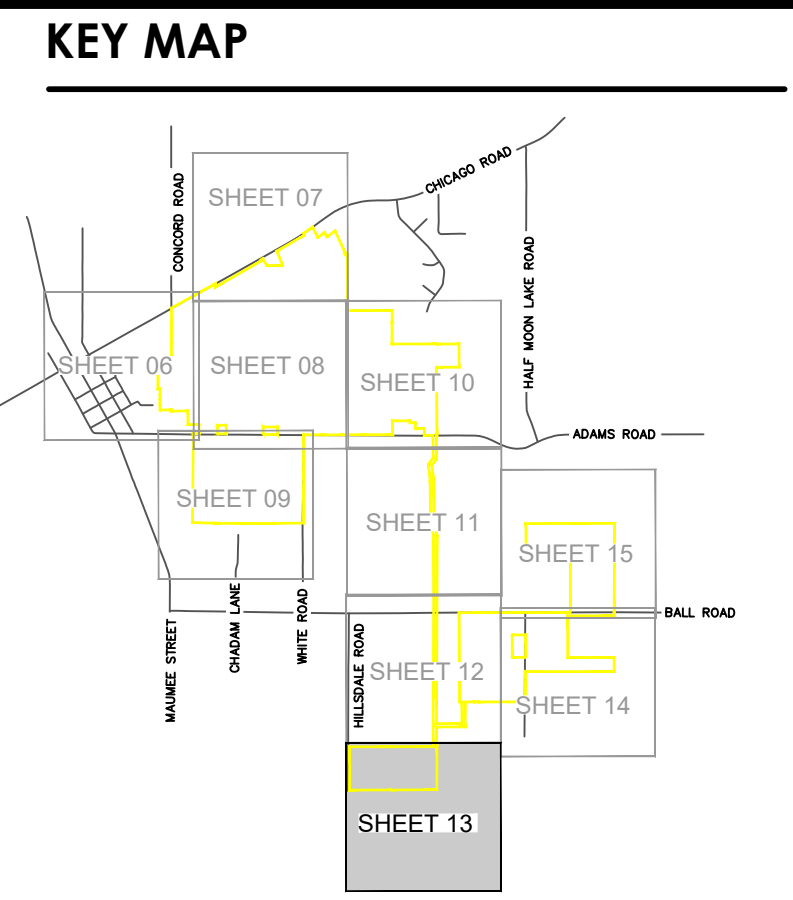
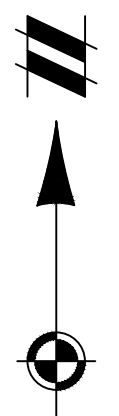
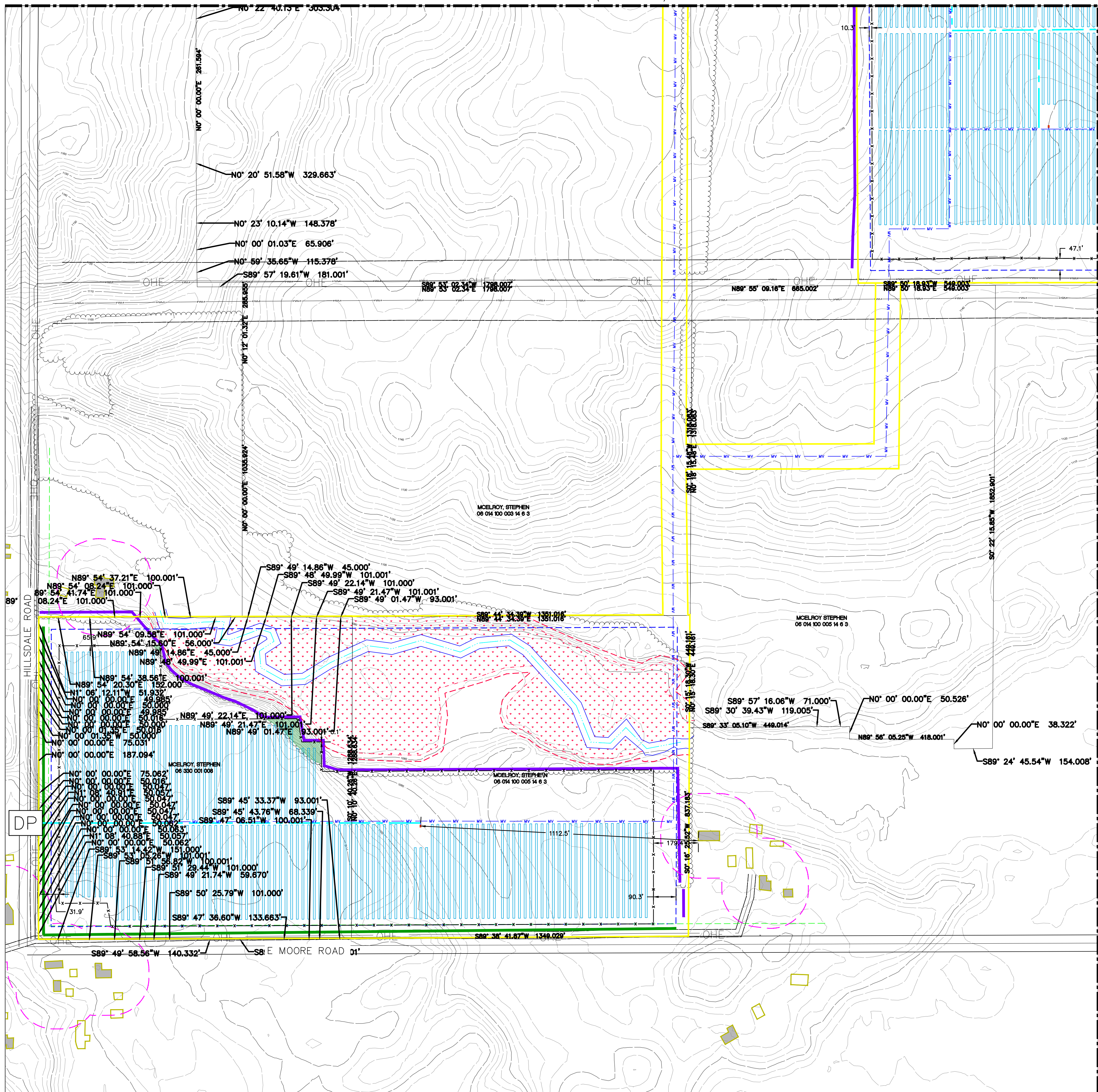
DATE: 12/05/2025

REVISIONS

SCALE: 0 100 200
1" = 200 FEET

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P.M. ES
BOOK --
JOB: 24000089
SHEET NO. 12

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION



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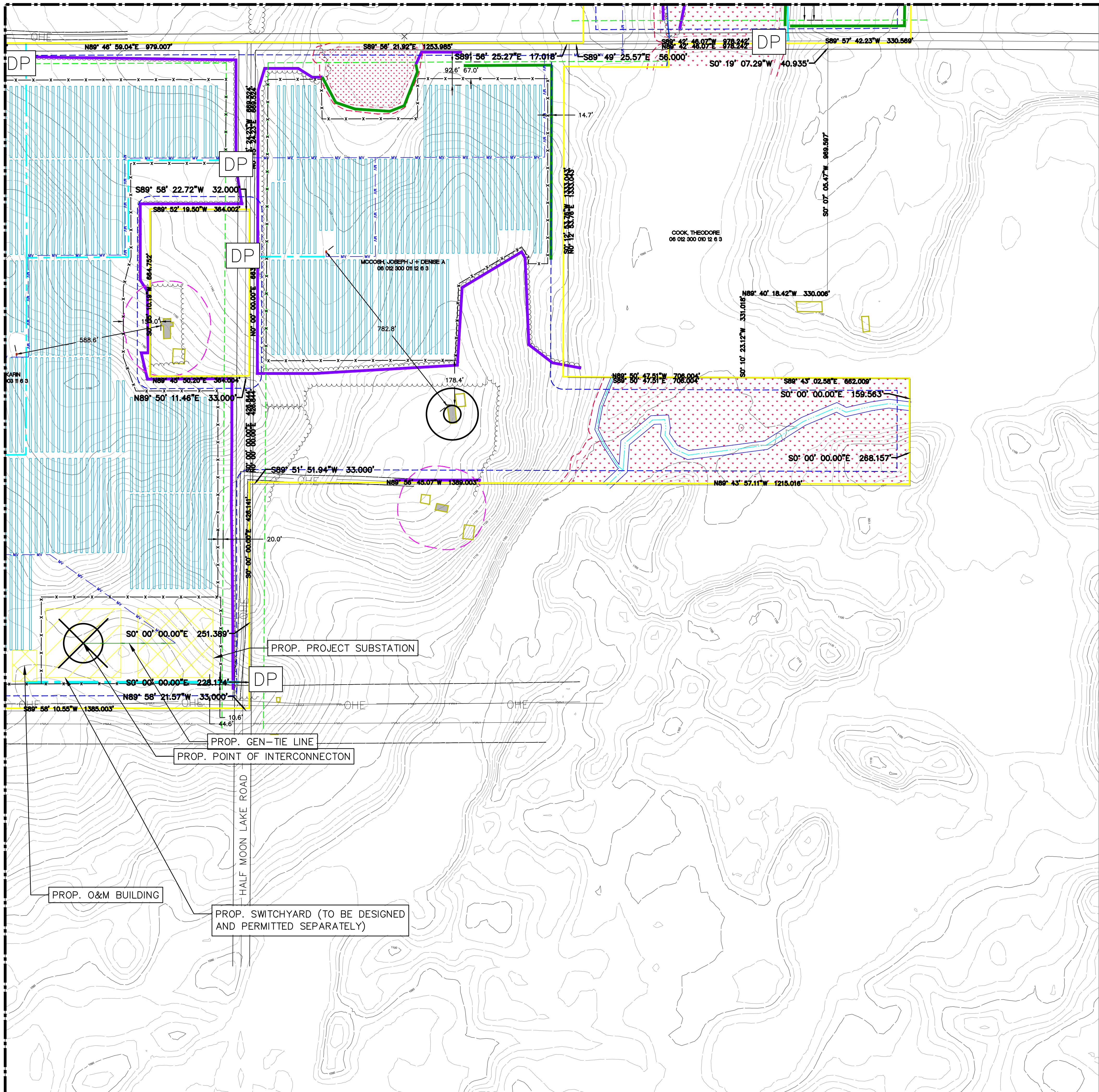
SECTIONS: 2-3, 9-11, 13-14, 23-24	TOWN, RANGE: T05S, R03W	FAYETTE TOWNSHIP	HILLSDALE COUNTY, MICHIGAN
CLIENT: HEARTWOOD SOLAR II, LLC	HEARTWOOD SOLAR II FAYETTE TOWNSHIP SLUP FINAL SITE PLAN PROPOSED CONDITIONS		
DATE: 12/05/2025			
REVISIONS:			

SCALE: 0 100 200
1" = 200 FEET

DR. MB CH. ES
P.M. ES
BOOK --
JOB 24000089
SHEET NO. 13

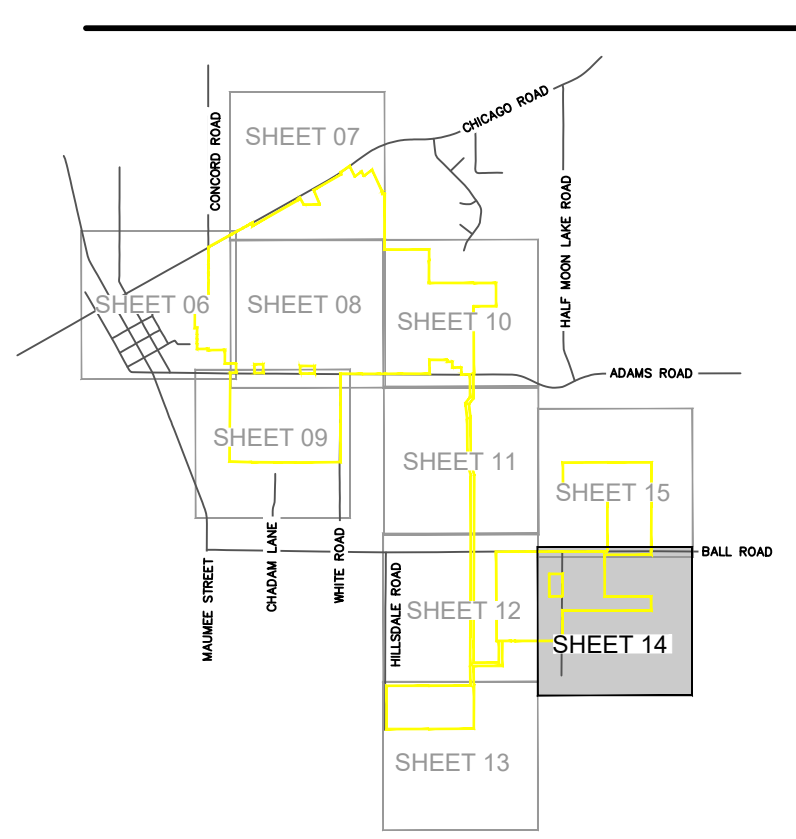
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SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION



MATCHLINE 08 (SEE SHEET 12)

KEY MAP



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HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II FAYETTE TOWNSHIP SLUP FINAL SITE PLAN PROPOSED CONDITIONS

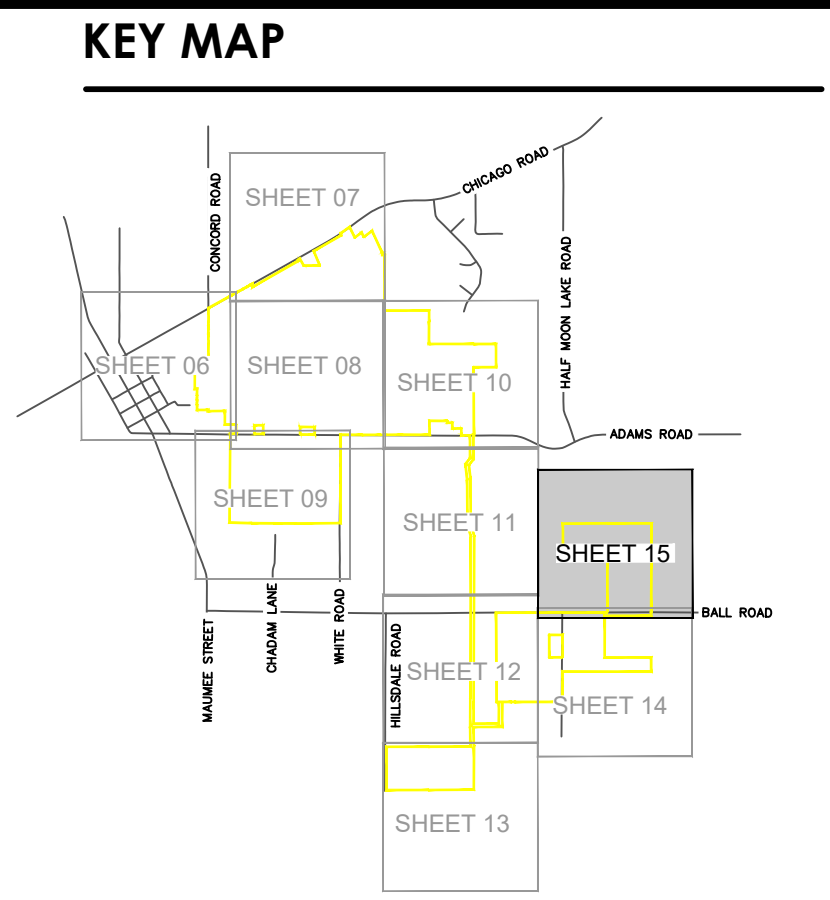
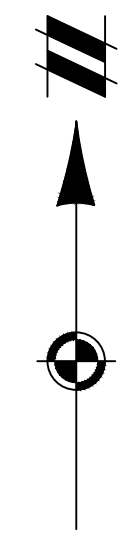
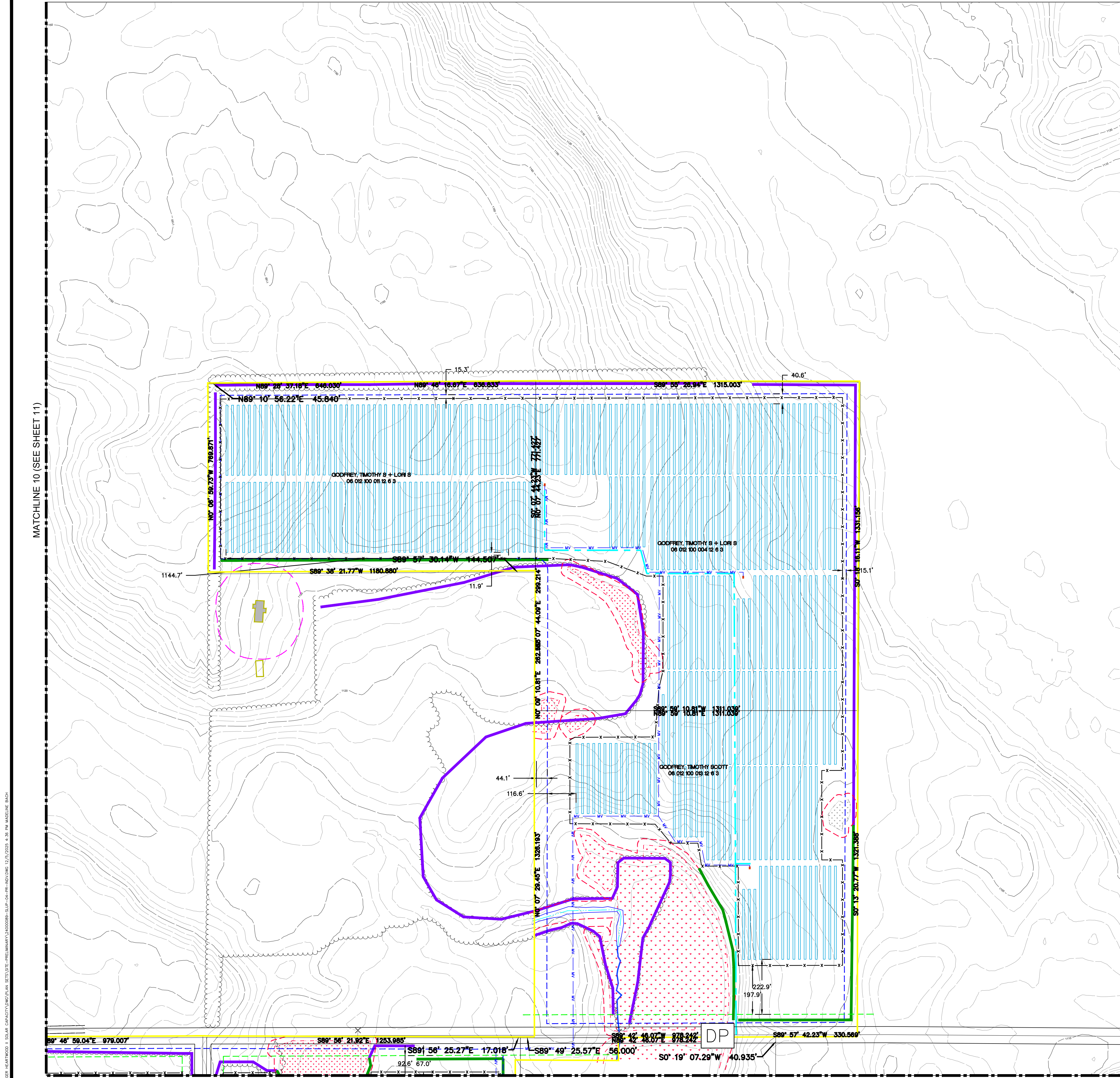
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REVISIONS:

SCALE: 0 100 200 1" = 200 FEET
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P.M. ES
BOOK: --
JOB: 24000089
SHEET NO. 14

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

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FAYETTE TOWNSHIP, SLUP
FINAL SITE PLAN
PROPOSED CONDITIONS

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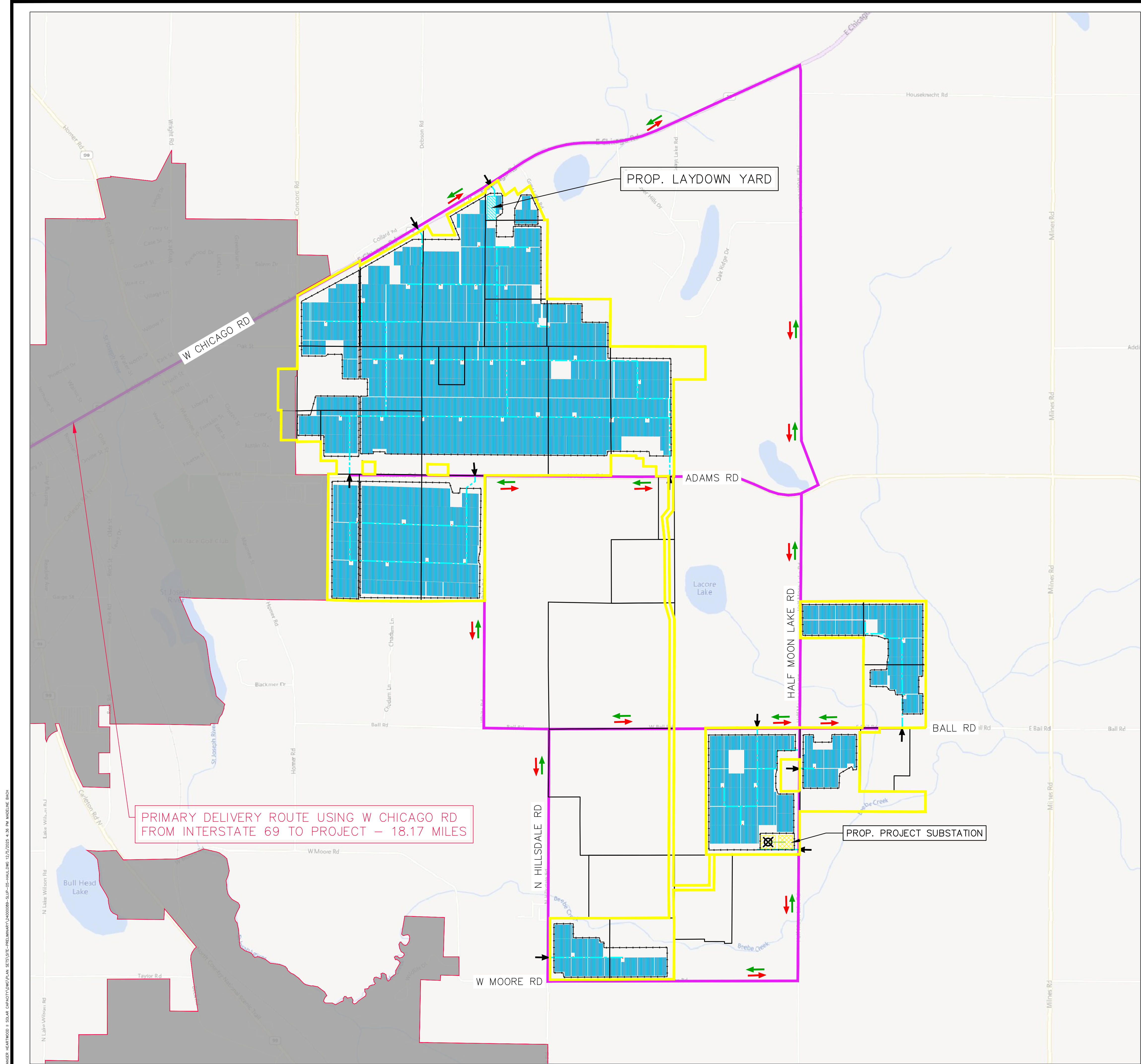
SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

MATCHLINE 10 (SEE SHEET 11)

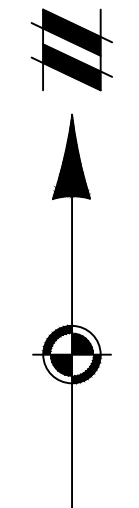
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PRIMARY DELIVERY ROUTE USING W CHICAGO RD FROM INTERSTATE 69 TO PROJECT - 18.17 MILES



LEGEND

- PROJECT AREA
- EXIST. CITY BOUNDARY
- PROP. SOLAR ARRAY
- PROP. FENCE
- PROP. GRAVEL ACCESS ROAD
- PROP. INVERTER
- X PROP. POINT OF INTERCONNECTION (POI)
- PROP. GEN-TIE LINE
- PROP. SUBSTATION AND OPERATIONS & MAINTENANCE (O&M)
- PROP. SWITCHYARD
- PROP. TEMPORARY LAYDOWN YARD

TRANSPORTATION LEGEND:


- DELIVERY INGRESS
- DELIVERY EGRESS
- SOLAR ARRAY ACCESS ROAD ENTRANCE
- PROPOSED HAUL ROUTE

PROJECT DELIVERY ASSUMPTIONS:

1. PROJECT DELIVERIES WILL COME FROM INTERSTATE 69.
2. PRIMARY DELIVERIES WILL BE MADE TO THE ACCESS ROAD CONTAINING THE PRIMARY LAYDOWN YARD OR PROJECT SUBSTATION. PRIMARY DELIVERY ROUTE USING W. CHICAGO ROAD IS THE ONLY PROPOSED ROUTE TO BE USED WITHIN THE CITY OF JONESVILLE DURING CONSTRUCTION.
3. ASSUMED ALL SOLAR EQUIPMENT TO BE DELIVERED WITH STANDARD TRACTOR TRAILER RIG.
4. SUBSTATION EQUIPMENT MAY BE DELIVERED WITH SPECIALIZED TRACTOR TRAILER RIG AS NECESSARY.
5. NO PUBLIC ROAD IMPROVEMENTS ARE ANTICIPATED.
6. HEARTWOOD SOLAR II WILL OBTAIN NECESSARY PERMITS WITH THE HILLSDALE COUNTY ROAD COMMISSION AND MDOT PRIOR TO DELIVERY.

GENERAL NOTES:

1. ALL PROJECT DELIVERIES SHALL FOLLOW ROUTES SHOWN OR NOTED UNLESS OTHERWISE APPROVED BY PROJECT OWNER AND ATWELL, LLC. CONSTRUCTION OF THE PROJECT WILL PRODUCE A MINOR INCREASE IN LOCAL TRAFFIC; HOWEVER, THIS SMALL INCREASE WILL BE TEMPORARY, AND MEASURES WILL BE PUT IN PLACE TO ENSURE TRAFFIC SAFETY. DURING OPERATION, VEHICULAR TRAFFIC WILL NOT INCREASE IN ASSOCIATION WITH THE PROJECT.
2. CONSTRUCTION OF THE PROJECT WILL BE CONDUCTED USING CURRENT STREET AND HIGHWAY INFRASTRUCTURE. THE PROJECT DOES NOT INCLUDE ANY NEW PUBLIC ROADWAYS. TRANSPORTATION AND INSTALLATION OF THE PROJECT'S COMPONENTS ARE UNLIKELY TO REQUIRE SPECIAL ACCOMMODATIONS OF EXISTING INFRASTRUCTURE.
3. HEARTWOOD SOLAR II WILL WORK WITH HILLSDALE COUNTY ROAD COMMISSION FOR MITIGATION IN THE EVENT OF DAMAGES DURING CONSTRUCTION.

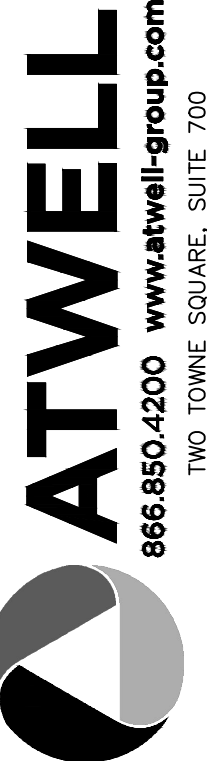


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SECTIONS: 2-3, 9-11, 13-14, 23-24	TOWN, RANGE: TOSS, R03W	FAYETTE TOWNSHIP	HILLSDALE COUNTY, MICHIGAN
CLIENT HEARTWOOD SOLAR II, LLC	HEARTWOOD SOLAR II FAYETTE TOWNSHIP SLUP FINAL SITE PLAN PROPOSED HAUL ROUTE PLAN		
DATE 12/05/2025			
REVISIONS			
SCALE 0 500 1000 1" = 1000 FEET			
DR. MB	CH. ES		
P.M. ES			
BOOK --			
JOB 24000089			
SHEET NO.	16		

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

S:\24000089 - RANGER HEARTWOOD II - SOLAR CAPACITY/SLUP PLAN SET\SLUP_FINAL\HEARTWOOD_24000089-SLUP-05-HAUL.DWG 12/27/2025 3:38 PM MADRID.BAG

CAD FILE: 24000089-SLUP-05-HAUL.DWG

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTIONS: 2-3, 9-11, 13-14, 23-24
TOWN, RANGE: TOSS, R03W
FAYETTE TOWNSHIP
HILLSDALE COUNTY, MICHIGAN

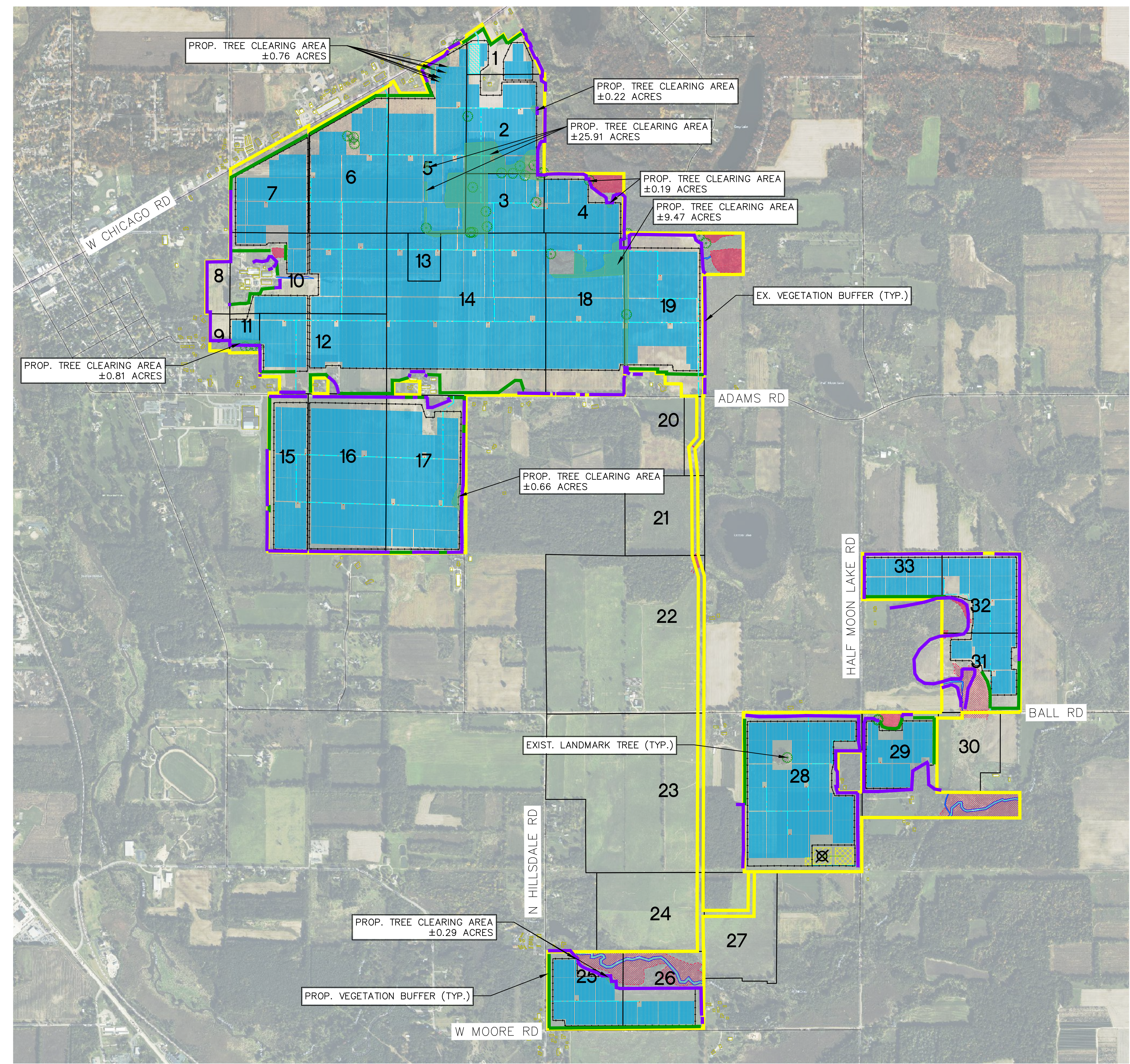
CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP SLUP
FINAL SITE PLAN
PROPOSED LANDSCAPING PLAN

DATE: 12/05/2025

REVISIONS

SCALE 0 400 800
1" = 800 FEET
DR. MB CH. ES
P.M. ES
BOOK --
JOB 24000089
SHEET NO. 17

CAD FILE: 24000089-SLUP-05-HALL.DWG



LEGEND

- PROJECT AREA
- EXIST. ROAD CENTERLINE
- SECTION LINE
- EXIST. STREAM CENTERLINE
- EXIST. STREAM TOP OF BANK
- EXIST. EGLE REGULATED WETLAND
- EXIST. NON-REGULATED WETLAND
- PARCEL BOUNDARY
- EXIST. RESIDENCE
- EXIST. STRUCTURE
- EXIST. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROP. SOLAR ARRAY
- PROP. FENCE
- PROP. GRAVEL ACCESS ROAD
- PROP. INVERTER
- X PROP. POINT OF INTERCONNECTION (POI)
- PROP. GEN-TIE LINE
- PROP. SUBSTATION AND OPERATIONS & MAINTENANCE (O&M)
- PROP. SWITCHYARD
- PROP. TEMPORARY LAYDOWN YARD
- PROP. TREE CLEARING
- 1 PARCEL ID
- o EXIST. LANDMARK TREE

GENERAL NOTES:

- VEGETATIVE BUFFERS ARE PROPOSED BETWEEN ALL NON-PARTICIPATING RESIDENTIAL STRUCTURES WHERE EXISTING BUFFERING IS NOT ADEQUATE.
- PARTICIPATING LAND OWNERS WITH RESIDENCES WILL HAVE THE OPTION OF BUFFERING IF REQUESTED.
- ALL PROPOSED BUFFERING WILL BE PLACED OUTSIDE THE PERIMETER FENCING.
- APPROXIMATELY 25,857 LINEAR FEET OF VEGETATIVE BUFFERING IS PROPOSED FOR THE PROJECT.
- A LANDMARK TREE SURVEY WAS PERFORMED BY ATWELL ON AUGUST 13TH, 2025 WITHIN AREAS OF THE PROJECT WITH PROPOSED DEVELOPMENT.

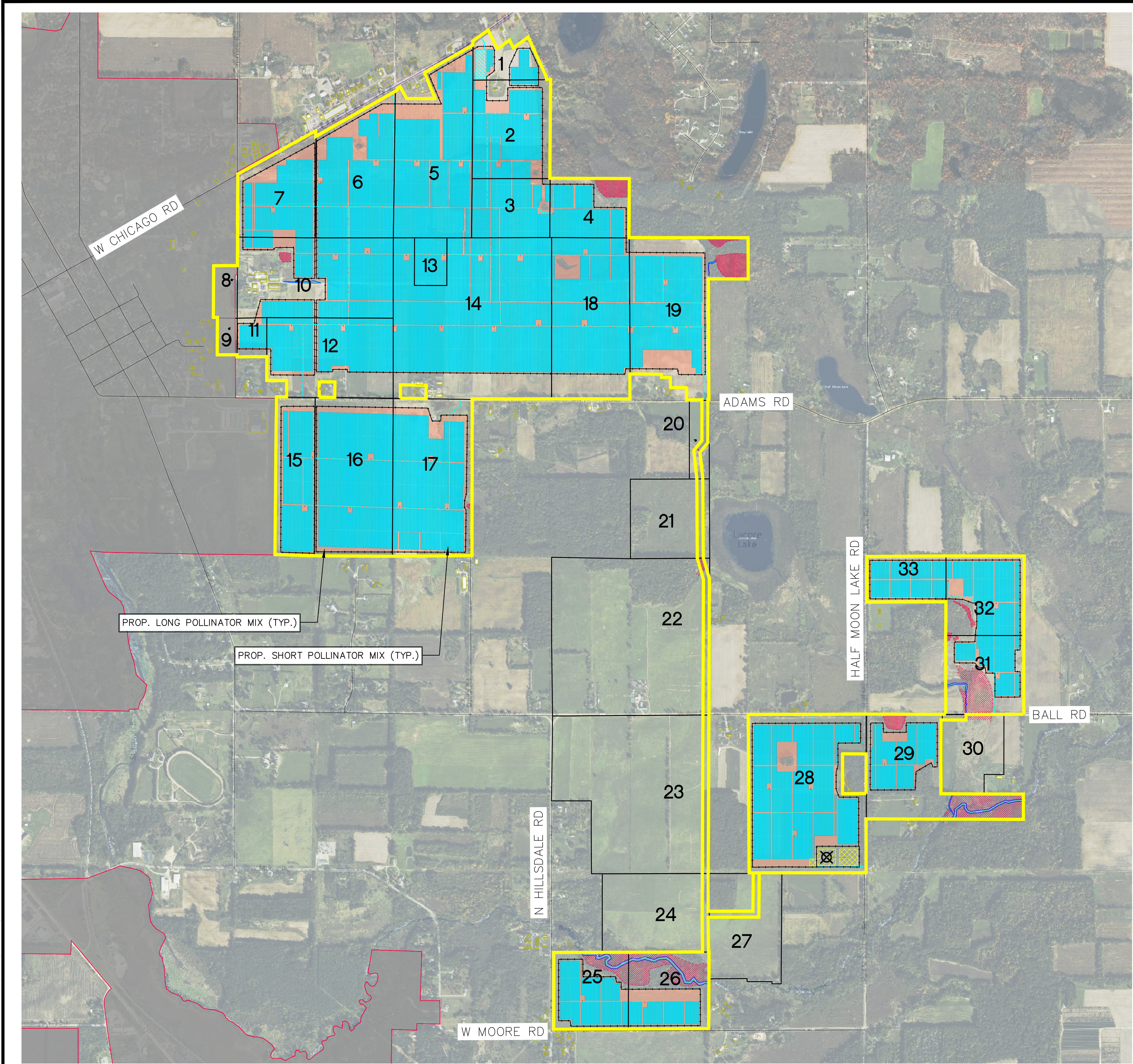
EXISTING VEGETATION BUFFER:

- EXISTING HEALTHY TREES AND SHRUBS TO REMAIN THAT ARE NOT IMPACTED BY THE PROJECT.
- PRESERVED TREES WILL BE PROTECTED AND UNDAMAGED DURING CONSTRUCTION.

PROPOSED LANDSCAPE BUFFER:

- ALL TREES WITHIN BUFFERS SHALL BE INSTALLED AT A MINIMUM HEIGHT OF 4' AT WHICH THE SOLAR FACILITY IS OBSTRUCTED FROM VIEW.
- ALL PROPOSED BUFFERS WILL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
- ALL UNHEALTHY (60% DEAD OR GREATER) AND DEAD MATERIAL WILL BE REPLACED BY THE APPLICANT WITHIN ONE YEAR, OR THE NEXT APPROPRIATE PLANTING PERIOD, WHICHEVER COMES FIRST.
- ALL PLANT MATERIALS WILL BE INSTALLED BETWEEN MARCH 15 AND NOVEMBER 15.
- REFER TO SHEET 22 FOR ADDITIONAL BUFFER/PLANTING DETAILS.

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION



- GENERAL NOTES**
1. THE PROJECT PROPOSES POLLINATOR HABITAT BE CREATED WITHIN ALL FENCED IN AREAS OUTSIDE OF ACCESS ROADS, INVERTER PADS, EXISTING WETLANDS, AND TREES.
 2. EXISTING FARMLAND OUTSIDE OF FENCED IN AREAS OF THE PROJECT WILL EITHER BE USED FOR CONTINUED FARMING BY THE LAND OWNER OR CONVERTED TO POLLINATOR HABITAT, MANAGED BY HEARTWOOD SOLAR II. THIS WILL BE DETERMINED DURING LANDOWNER NEGOTIATIONS AND INCLUDED ON THE FINAL SITE PLAN PRIOR TO CONSTRUCTION.
 3. APPROXIMATELY 132 ACRES OF LONG VEGETATION SEED MIX WILL BE USED WITHIN FENCED IN AREAS SURROUNDING SOLAR ARRAY PANELS.
 4. APPROXIMATELY 843 ACRES OF SHORT VEGETATION SEED MIX WILL BE USED UNDERNEATH SOLAR ARRAY PANELS.
 5. THE SHORT AND LONG SEED MIXES WILL BE GUARANTEED NOT TO CONTAIN MICHIGAN INVASIVE SPECIES OR NOXIOUS WEEDS.
 6. POLLINATOR HABITAT WILL BE MANAGED IF INVASIVE SPECIES OR NOXIOUS WEEDS EXCEEDS 10% OF THE VEGETATION WITHIN THE AREA.
 7. REFER TO SHEET 22 FOR ADDITIONAL PLANTING NOTES.

- LEGEND**
- PROJECT AREA
 - EXIST. ROAD CENTERLINE
 - SECTION LINE
 - EXIST. STREAM CENTERLINE
 - EXIST. STREAM TOP OF BANK
 - EXIST. EGLE REGULATED WETLAND
 - EXIST. NON-REGULATED WETLAND
 - PARCEL BOUNDARY
 - EXIST. RESIDENCE
 - EXIST. STRUCTURE
 - PROP. SOLAR ARRAY
 - PROP. FENCE
 - PROP. GRAVEL ACCESS ROAD
 - PROP. INVERTER
 - PROP. POINT OF INTERCONNECTION (POI)
 - PROP. GEN-TIE LINE
 - PROP. SUBSTATION AND OPERATIONS & MAINTENANCE (O&M)
 - PROP. SWITCHYARD
 - PROP. TEMPORARY LAYDOWN YARD
 - 1 PARCEL ID
 - PROP. LONG POLLINATOR MIX
 - PROP. SHORT POLLINATOR MIX

Know what's below. Call before you dig.

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ATWELL
 866.850.4200 www.atwell-group.com
 TWO TONNE SQUARE, SUITE 700
 SOUTHFIELD, MI 48076
 248.447.2000

CLIENT	HEARTWOOD SOLAR II, LLC
DATE	12/05/2025
REVISIONS	
SCALE	0 400 800 1" = 800 FEET
DR. MB	CH. ES
P.M. ES	
BOOK	--
JOB	24000089
SHEET NO.	18

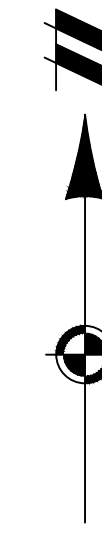
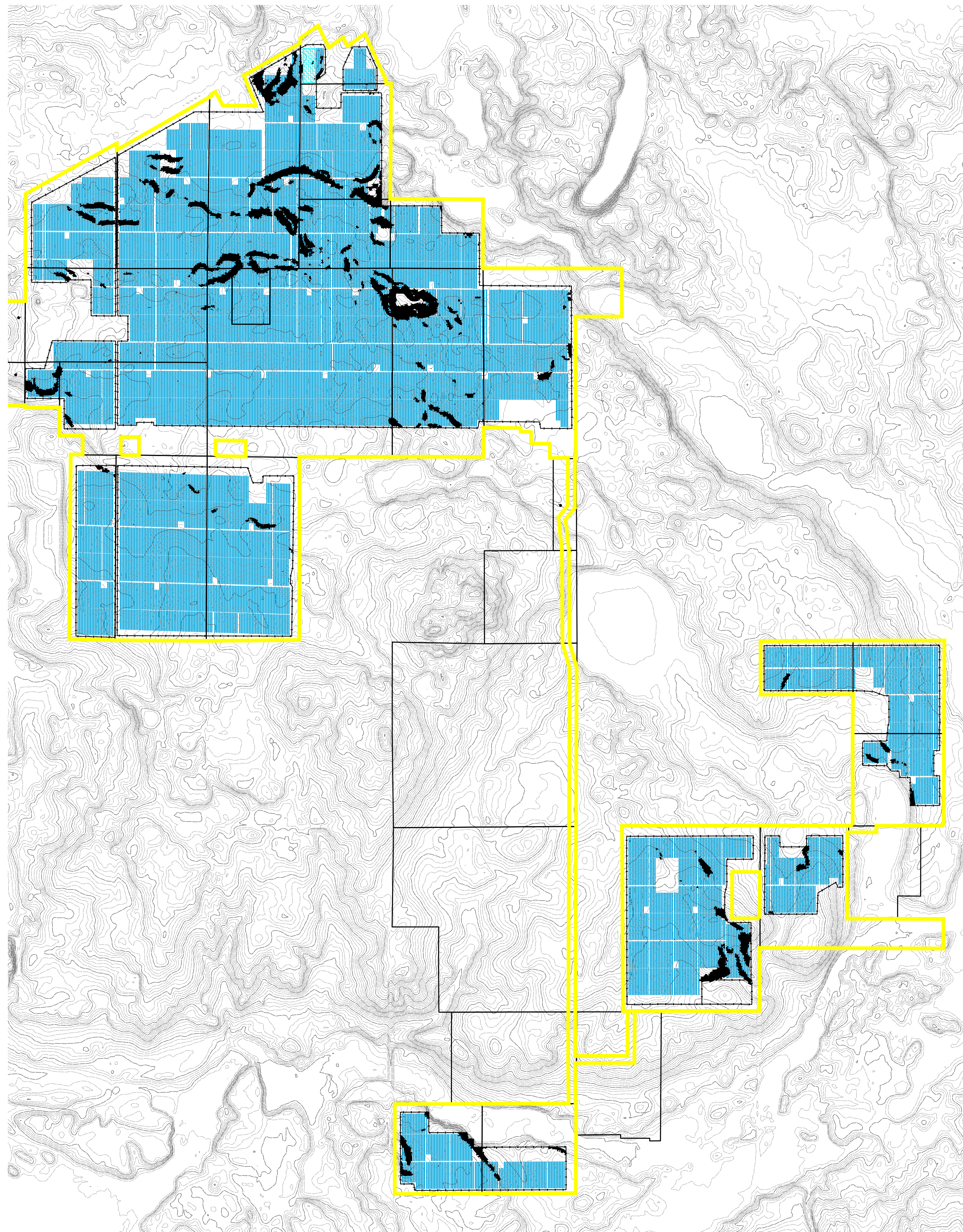
SECTIONS: 2-3, 9-11, 13-14, 23-24
 TOWN, RANGE: T05S, R03W
 FAYETTE TOWNSHIP
 HILLSDALE COUNTY, MICHIGAN

HEARTWOOD SOLAR II, LLC
 HEARTWOOD SOLAR II
 FAYETTE TOWNSHIP SLUP
 FINAL SITE PLAN
 PROPOSED VEGETATION
 MANAGEMENT PLAN

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

S:\24000089 - RANGER HEARTWOOD - SOLAR CAPACITY/SLUP PLAN SET\3\31-HEARTWOOD-SLUP-05-HALL.DWG 12/02/2025 4:36 PM MADRIDE BACH

CAD FILE: 24000089-SLUP-05-HALL.DWG



GENERAL NOTES

1. LOCALIZED GRADING WILL BE NECESSARY TO MEET TRACKER VENDOR TOLERANCES AND FOR MAINTAINING DRAINAGE. THE EPC WILL BE RESPONSIBLE FOR DEVELOPING A FINAL GRADING AND SOIL EROSION CONTROL PLAN UPON FINAL ELECTRICAL AND TRACKER DESIGN.
2. REFER TO SHEET 20 FOR ADDITIONAL SESC NOTES.

LEGEND

- PROJECT AREA
- PARCEL BOUNDARY
- EXIST. MAJOR CONTOUR
- EXIST. MINOR CONTOUR
- PROP. SOLAR ARRAY
- PROP. FENCE
- PROBABLE GRADING OVER 10% SLOPES



Know what's below.
Call before you dig.

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SECTIONS: 2-3, 9-11, 13-14, 23-24
TOWN, RANGE: TOSS, R03W
FAYETTE TOWNSHIP
HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP SLUP
FINAL SITE PLAN
PROBABLE GRADING AREAS

DATE: 12/05/2025

REVISIONS

SCALE: 0 400 800
1" = 800 FEET

DR. MB | CH. ES

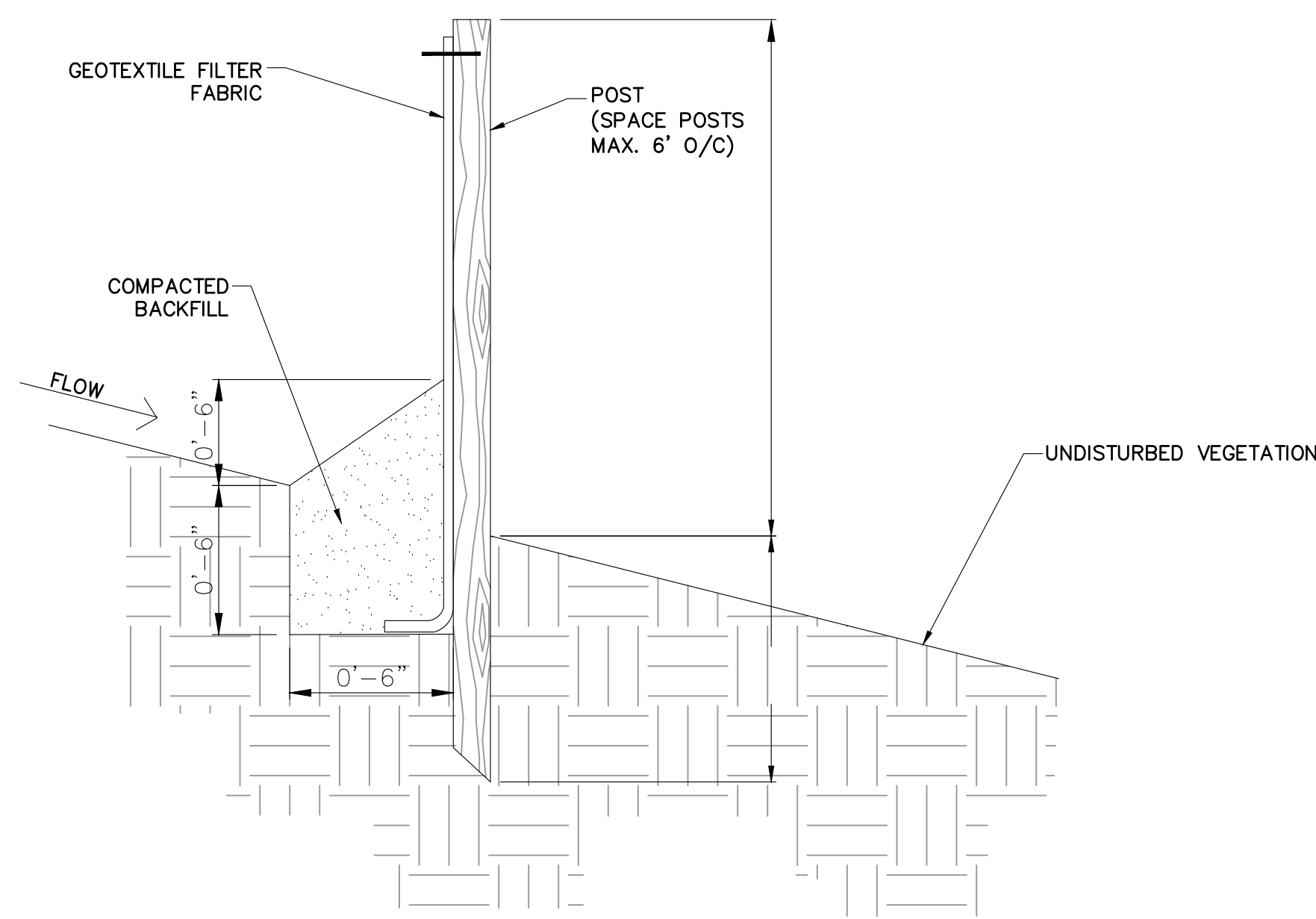
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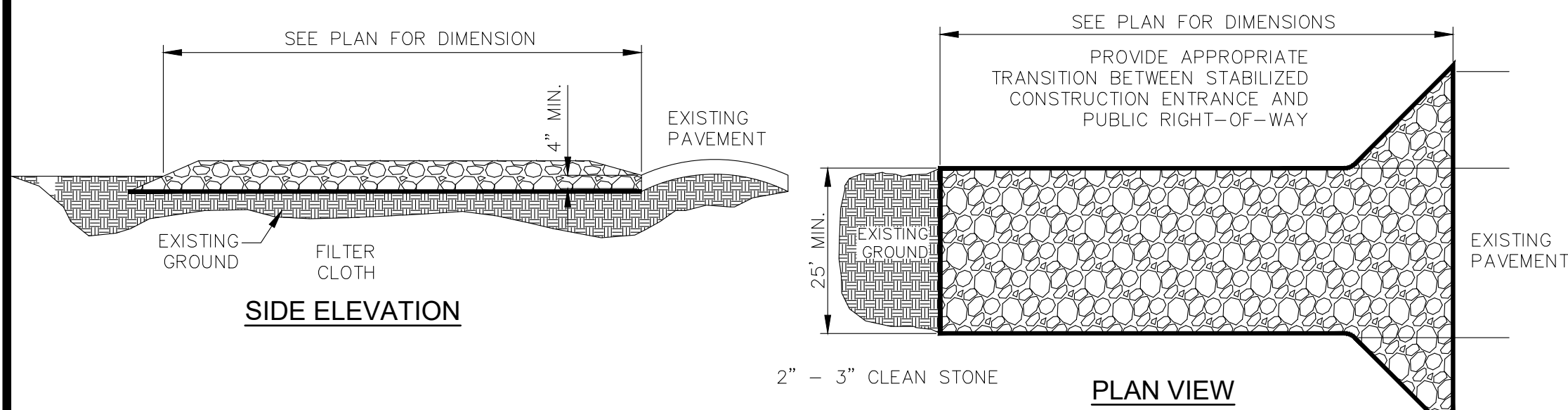
JOB: 24000089

SHEET NO.

PRELIMINARY PLANS - NOT FOR CONSTRUCTION



SILT FENCE



STABILIZED CONSTRUCTION ENTRANCE AND STONE LAYDOWN
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS AND MAINTAINANCE PLAN

- STONE - USE COARSE AGGREGATE (2 - 3 INCH STONE)
- LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 100 FEET.
- THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
- WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- DUST CONTROL SHALL BE EXERCISED AT ALL TIMES.
- 12' X 24' METAL GRATE MAY BE USED. GRATE SHALL BE 25' AWAY FROM PAVEMENT AND APPROPRIATE SEDIMENT CONTROL TRAPPING DEVICE SHALL BE USED AT GRATE OUTLET POINT.

CONSTRUCTION SEQUENCE (SESC):

- SOIL EROSION AND SEDIMENTATION CONTROL PRE-GRADING MEETING
- COMMENCEMENT OF CONSTRUCTION
- INSTALL TEMPORARY EROSION AND SEDIMENTATION MEASURES
- DEMOLISH EXISTING INFRASTRUCTURE
- MINOR GRADING, AS NECESSARY FOR SITE
- INSTALL TEMPORARY STABILIZATION ON ALL AREAS NOT IMMEDIATELY BEING BUILT UPON
- INSTALL SILT FENCE
- COMMENCE CONSTRUCTION OF ACCESS ROAD
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND STONE LAYDOWN
- COMMENCE CONSTRUCTION OF SOLAR FACILITY
- FINAL GRADING AND LANDSCAPING
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES
- COMPLETE CONSTRUCTION OF SOLAR FACILITY
- COMPLETION OF PROJECT

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE PLANS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED. SHE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, STOCKPILES AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED.
- LOW GROUND PRESSURE EQUIPMENT SHALL BE USED TO MINIMIZE LAND DISTURBANCE BETWEEN STRUCTURES.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE TUSCOLA COUNTY DRAIN COMMISSIONER.
- CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- DUST ON THE SITE SHALL BE CONTROLLED WITH SWEEP EQUIPMENT AND/OR WATER SUPPRESSION. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- ALL DENUDE AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAW/HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS. ALL MUD/DIRT/MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAYS OR INTO WATER COURSES SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
- ON-SITE & OFF-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 SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- ALL STOCKPILED SOILS SHALL BE MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM THE WORK AREA.
- ALL GRADING TO BE PERFORMED AS NOT TO OBSTRUCT UPSTREAM DRAINAGE.
- SITES WILL BE INSPECTED WEEKLY. ANY AREAS OF OFF-SITE EROSION WILL BE CORRECTED WITHIN 2 BUSINESS DAYS.

STORMWATER DRAINAGE

THE CONVERSION OF LAND USED FOR AGRICULTURAL CROP DEVELOPMENT TO SOLAR ARRAY WITH PREDOMINANTLY GRASSY GROUND COVER AND GRAVEL ACCESS DRIVEWAYS WILL REDUCE THE OVERALL RUNOFF GENERATED BY THE PROPOSED SITE. THERE ARE THREE KEY VARIABLES THAT DETERMINE THE AMOUNT OF RUNOFF WHEN USING EITHER THE RATIONAL METHOD OR THE STATE OF MICHIGAN EGLE METHODOLOGY DOCUMENT 'COMPUTING FLOOD DISCHARGES FOR SMALL UNGAGED WATERSHEDS'

- DRAINAGE AREA:** THE PROJECT DOES NOT PROPOSE TO ALTER THE NATURAL DRAINAGE PATTERNS. GRADING FOR THE PROJECT WILL BE LIMITED TO SMOOTHING LARGER HUMPS AND DIPS AS NECESSARY TO ALLOW FOR THE ARRAY TRACKERS TO MEET VENDOR AND TOWNSHIP REQUIREMENTS FOR MINIMUM HEIGHT AND MAXIMUM HEIGHT. THEREFORE THE DRAINAGE AREAS FOR EXISTING AND PROPOSED CONDITIONS ARE THE SAME.
- TIME OF CONCENTRATION:** AS NOTED ABOVE, GRADING WILL BE LIMITED TO LOCALIZED HUMPS AND DIPS, AND WILL NOT HAVE AN IMPACT ON THE LENGTH OF DRAINAGE PATTERNS ONSITE. THEREFORE THE TIME OF CONCENTRATION FOR EXISTING AND PROPOSED CONDITIONS ARE THE SAME.
- LAND USE / GROUND COVER:** THE RATIONAL METHOD IS SIMPLISTIC IN ITS CONSIDERATION OF GROUND COVER (TYPICALLY LIMITED TO PERVIOUS OR IMPERVIOUS), THEREFORE THE MORE COMPREHENSIVE EGLE METHODOLOGY IS MORE SUITABLE TO ACCOUNT FOR THE LAND USE CHANGE FROM AGRICULTURAL CROP DEVELOPMENT TO A VEGETATED GRASSY MEADOW COVER BENEATH THE ARRAY. PER THE EGLE METHOD, THE RUNOFF CURVE NUMBERS (CN) ARE LISTED BELOW FOR COMPARISON WHERE IT CAN BE SEEN THAT THE COMBINATION OF GRASSY MEADOW AND GRAVEL DRIVEWAYS HAS A MUCH LOWER CN THAN THE AGRICULTURAL CROP CONDITION, AND IS LESS THAN OR EQUAL TO A WOODED CONDITION.

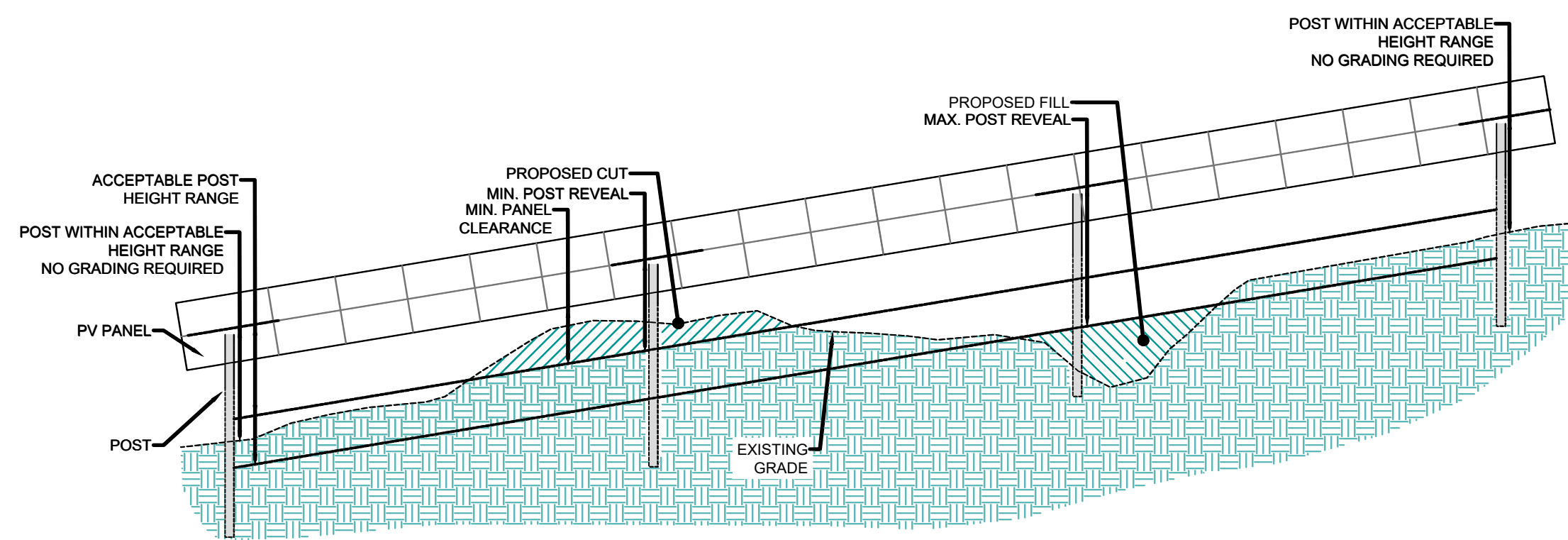
HYDROLOGIC SOIL GROUP:	A	B	C	D
ROW CROPS, GOOD CONDITION	67	78	85	89
WOODS, AVERAGE CONDITION	36	60	73	79
MEADOW	30	58	71	78
IMPERVIOUS (GRAVEL)	98	98	98	98
MEADOW (97% W/ GRAVEL (3%*))	32	59	72	79

*GRAVEL COVER IS TYPICALLY 3% OR LESS WITHIN THE ARRAY AREA

THEREFORE AS A RESULT, THE OVERALL RUNOFF FROM THE SITE WILL NOT BE INCREASED (POST-DEVELOPMENT RUNOFF WILL NOT EXCEED PRE-DEVELOPMENT RUNOFF).

THIS CONCLUSION IS CONSISTENT WITH A STUDY PERFORMED BY ASCE THAT COMPARED RUNOFF FROM AN EXISTING GRASSY (MEADOW) LAND COVER WITH AND WITHOUT A SOLAR ARRAY INSTALLED, WHERE IT WAS DETERMINED THAT THE SMALL AMOUNT OF RUNOFF INCREASE FROM THE ARRAY WOULD NOT WARRANT THE NEED FOR STORMWATER DETENTION FACILITIES. IT'S IMPORTANT TO NOTE THAT THE ASCE COMPARISON WAS BASED ON A CONDITION WHERE THE EXISTING LAND COVER WAS THE SAME AS THE ARRAY CONDITION (BOTH GRASSY MEADOW), AND DID NOT REFLECT A CHANGE FROM A HIGHER CN CONDITION (CROPS) TO A GRASSY MEADOW CONDITION (ARRAY). A COPY OF THE ASCE CAN BE PROVIDED FOR REFERENCE.

IN AREAS WHERE ALL OR NEARLY ALL THE PROPOSED ARRAY IS SITED IN LAND CURRENTLY CATEGORIZED AS WOODED OR MEADOW, THE PROPOSED SOLAR ARRAY MAY RESULT IN A CALCULATED INCREASE IN STORMWATER RUNOFF. FOR THOSE AREAS, PERMANENT STORMWATER MANAGEMENT FACILITIES SUCH AS DETENTION BASINS OR RETENTION/INFILTRATION BMPs MAY BE NECESSARY TO PROPERLY MANAGE THE INCREASED RUNOFF VOLUME. THE SELECTION OF DETENTION BASINS WITH RESTRICTED OUTLETS WOULD NEED TO CONSIDER THE DOWNSIDE RECEIVING LANDS TO ENSURE BASIN DISCHARGE DOES NOT NEGATIVELY IMPACT ADJACENT PROPERTIES OR WATERCOURSES. RETENTION BASINS OR INFILTRATION BMPs WOULD NEED TO CONSIDER THE CAPACITY OF THE EXISTING SOILS TO ADEQUATELY INFILTRATE STORMWATER INTO THE GROUND AND SOIL TESTING BY A LICENSED GEOTECHNICAL ENGINEER IS RECOMMENDED TO CONFIRM IN-SITU INFILTRATION RATES. THE FINAL STORMWATER DRAINAGE PLAN WILL BE PREPARED BY THE EPC.



TYPICAL SITE GRADING
NO SCALE

BMP MAINTENANCE NOTES TO CONTRACTOR:

ALL MEASURES STATED ON THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION. SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS (WHO IS ALSO A CERTIFIED STORM WATER OPERATOR), AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEED AS NEEDED.
- SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST CONFORM TO THE REQUIREMENTS OF MICHIGAN'S PERMIT-BY-RULE FOR CONSTRUCTION ACTIVITIES. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE BY A CERTIFIED STORM WATER OPERATOR ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT RESULTS IN A DISCHARGE FROM THE SITE. PROVIDED WILL BE THE NAME OF STORM WATER OPERATOR, CERTIFICATION NUMBER, MAJOR OBSERVATIONS, DATE OF INSPECTION AND CORRECTIVE MEASURES TAKEN. AN EGLE 'SOIL EROSION AND SEDIMENTATION CONTROL INSPECTION LOG' SHALL BE FILLED OUT FOR EACH INSPECTION.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE CHECKED ON A DAILY BASIS BY THE CONTRACTOR AND MISSING OR DEFICIENT MEASURES SHALL BE REPLACED OR REPAIRED IMMEDIATELY.
- THE CONSTRUCTION ACCESS POINTS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY.
- EXCESS DIRT/FILL IS NOT TO BE PLACED ON ANY AREAS ON OR ADJACENT TO THE SITE BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THE SOIL EROSION PLANS UNLESS WRITTEN AUTHORIZATION IS PROVIDED BY THE ACCEPTING LAND OWNER AND AGREED TO BY THE DEVELOPER.
- DUST CONTROL WILL BE EXERCISED AT ALL TIMES WITHIN THE PROJECT BY THE CONTRACTOR.
- PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. ANY DEBRIS AND/OR SEDIMENT REACHING THE PUBLIC STREET SHALL BE CLEANED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.

BEST MANAGEMENT PRACTICES SEQUENCE:

NOTE: THE FOLLOWING SECS SEQUENCE AND MEASURES ARE GENERAL TO EACH STRUCTURE LOCATION. ADDITIONAL MEASURES AND PHASING MAY BE REQUIRED DEPENDING ON THE INDIVIDUAL CONDITIONS AT THE LOCATION WORK IS BEING PERFORMED. FOUNDATION SPOIL LOCATIONS SHOWN ON THE PLAN(S) ARE FOR REFERENCE ONLY. CONTRACTOR MAY ADJUST ACTUAL LOCATION AS NECESSARY TO BEST MAINTAIN EXISTING DRAINAGE COURSES AND MINIMIZE IMPACTS TO THE EXISTING CONDITIONS SURROUNDING EACH WORK AREA. ALL EARTH DISTURBANCES ARE TO OCCUR ONLY WITHIN THE PERMITTED EASEMENT.

- PULL ALL NECESSARY LOCAL, COUNTY, AND STATE PERMITS. THE CONTRACTOR SHALL CONTACT THE EGLE, IF NECESSARY, TO AMEND THE NOTICE OF COVERAGE (NOC) WITH THE NAME AND CERTIFICATION NUMBER OF THE STORM WATER OPERATOR CHARGED WITH CONDUCTING THE REQUIRED INSPECTIONS. WRITTEN NOTIFICATION FROM THE EGLE APPROVING THE CHANGE TO THE NOC SHALL BE INCLUDED IN THE INSPECTION LOG.
- INSTALL SILT FENCING AS CALLED FOR AS REQUIRED BY SESC PERMIT. ONLY CLEAR AREAS NECESSARY TO INSTALL FENCING. FENCING SHALL BE ERECTED PRIOR TO DEMOLITION OF THE EXISTING STRUCTURE(S) AND SHALL BE MAINTAINED UNTIL THE DISTURBED AREAS AND FOUNDATION SPOIL STOCKPILE AT THE INDIVIDUAL LOCATION ARE STABILIZED (90% VEGETATIVE COVER). SILT FENCE SHALL NOT BE PLACED ACROSS ANY ACCESS ROAD.
- CLEAR AND GRUB AREA AS NECESSARY TO ALLOW FOR PLACEMENT OF FOUNDATION SPOILS.
- DEMOLISH EXISTING STRUCTURE(S) & FOUNDATION(S) AS NECESSARY. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF MATERIALS/CONCRETE AT AN APPROVED AND LICENSED OFF-SITE LOCATION.
- COMPLETE CONSTRUCTION OF NEW STRUCTURE AND REPAIR SURROUNDING AREAS AS NECESSARY.
- INSPECT DISTURBED AREA WEEKLY FOR VEGETATIVE GROWTH, RESEED AS NECESSARY.
- ONCE THE AREA HAS ACHIEVED A MINIMUM OF 90% VEGETATIVE COVER, REMOVE SILT FENCE (AND/OR OTHER REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES). STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF BMPs. SILT FENCE AND OTHER BMPs WHICH ARE STILL IN A SERVICEABLE CONDITION MAY BE RE-USED AS WORK PROGRESSES.
- IF IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE THE EARTH CHANGE, THEN MAINTAIN TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IN PLACE AND THE AREA IS STABILIZED. AREAS TEMPORARILY STABILIZED DURING THE NON-GROWING SEASON WILL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING THE COMMENCEMENT OF THE NEXT PLANTING SEASON. ALL STRAW OR HAY MULCH WILL BE REMOVED OR DEEPLY INCORPORATED INTO THE SOIL BEFORE PROVIDING PERMANENT STABILIZATION. DORMANT SEEDING IS ALSO RECOMMENDED FOR EARLY SPRING GROWTH.
- OWNER WILL BE RESPONSIBLE FOR PERMANENT STABILIZATION OF DISTURBED AREAS FOR ONE YEAR.

FINAL PROJECT CLOSEOUT (ALL PROPOSED IMPROVEMENTS ARE COMPLETE)

- ONCE ALL PERMANENT SOIL EROSION CONTROL MEASURES ARE COMPLETED AND PERMANENT VEGETATION ESTABLISHED, THE CONTRACTOR SHALL CONTACT THE GOVERNING AUTHORITIES FOR A FINAL INSPECTION. ONCE THE SITE HAS PASSED ITS FINAL INSPECTION, THE S.E.S.C. PERMIT IS CLOSED AND NO FURTHER EARTH DISRUPTION CAN OCCUR WITHOUT A NEW PERMIT.
- THE NOTICE OF COVERAGE PERMITTEE SHALL FILE A NOTICE OF TERMINATION (NOT) WITH THE EGLE AND RETAIN S.E.S.C. LOGS (HARD COPIES & ELECTRONICALLY) FOR A MINIMUM OF 5 YEARS.

TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A STREAM	DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY IS SCHEDULED TO BE INACTIVE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED OR STABILIZED IN ANOTHER APPROPRIATE WAY AS SOON AS POSSIBLE.
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER (NOVEMBER 1)

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. THIS CAN INCLUDE AGGREGATE COVER, EROSION CONTROL BLANKETS, TURF REINFORCEMENT MATS, OR OTHER STABILIZATION PRACTICE.

PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN FIVE (5) CALENDAR DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE	WITHIN 2 CALENDAR DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN FIVE (5) CALENDAR DAYS OF REACHING FINAL GRADE WITHIN THAT AREA



Know what's below. Call before you dig.

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NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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ATWELL
866.850.4200 www.atwell-group.com
TWO TOWNS SQUARE, SUITE 700
SOUTHFIELD, MI 48076
248.447.2000

SECTIONS: 2-3, 9-11, 13-14, 23-24	TOWN, RANGE: T08S, R03W	FAYETTE TOWNSHIP	HILLSDALE COUNTY, MICHIGAN
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CLIENT: HEARTWOOD SOLAR II, LLC	HEARTWOOD SOLAR II FAYETTE TOWNSHIP SLUP FINAL SITE PLAN
DATE: 12/05/2025	SITE GRADING, EROSION CONTROL, AND STORMWATER DRAINAGE PLAN

REVISIONS	
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SCALE: 0 500 1000	1" = 1000 FEET
DR: MB	CH: ES
P.M. ES	
BOOK: --	
JOB: 24000089	
SHEET NO. 20	

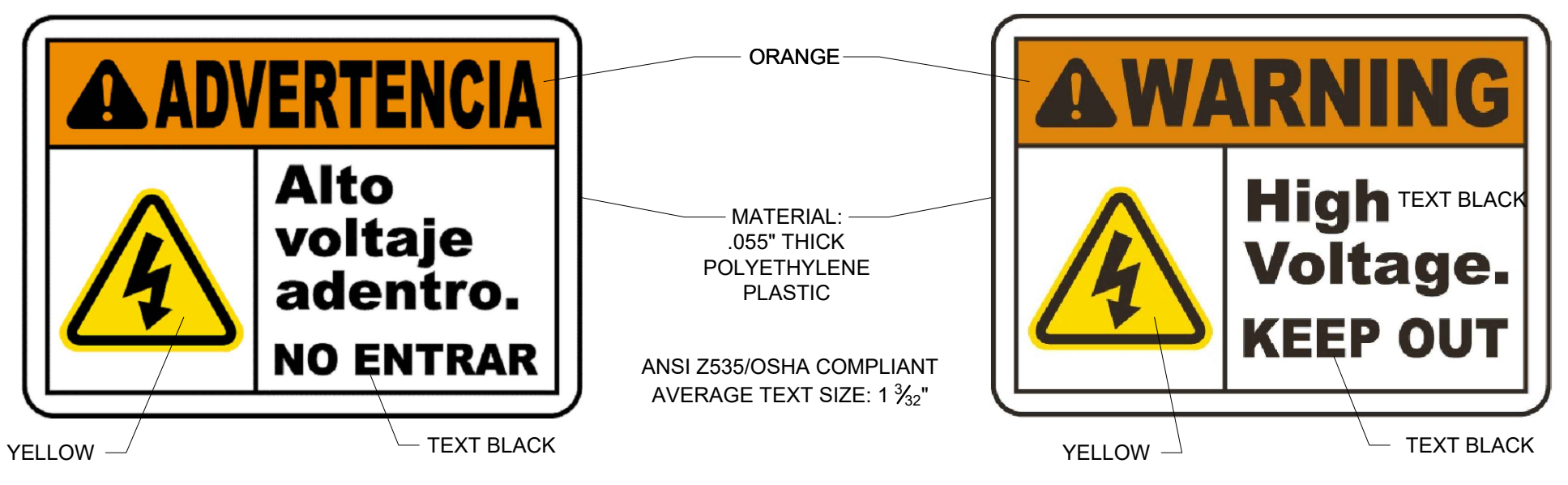
SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

FILE NAME: S:\24000089 - Heartwood Solar - Fayette Township Slup - Final Site Plan - 12/05/2025.dwg USER: JMB/RSJ DATE: 12/05/2025 4:37 PM PLOTTER: HP DesignJet T1100E PLOT: HP DesignJet T1100E PLOT DATE: 12/05/2025 4:37 PM PLOT SCALE: 1:1000

SIGNAGE DETAILS

HEARTWOOD SOLAR II, LLC
EMERGENCY CONTACT: (XXX) XXX-XXXX
OPERATOR CONTACT: (XXX) XXX-XXXX
COMPLAINT RESOLUTION: (XXX) XXX-XXXX

WARNING:
HAZARDOUS VOLTAGE
AUTHORIZED ACCESS
ONLY



NOTES:

- SIGNAGE WILL BE IN COMPLIANCE WITH NESC AND APPLICABLE REVIEW AND APPROVAL FROM LOCAL EMERGENCY SERVICES AND FIRE DEPARTMENTS.
- PHONE CONTACTS TO BE UPDATED BEFORE CONSTRUCTION.
- TOP OF SIGN TEXT 125 MM (5") MIN CLEAR SPACE FROM GATE OR DOOR JAMB (STRIKE SIDE).
- PROVIDE A BLANK PANEL FOR BACK SIDE.
- CONTRAST BETWEEN CHARACTER, SYMBOLS AND THEIR BACKGROUND SHALL BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
- CHARACTERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
- SIGN SHALL BE 1 MM (0.04") THK (MIN) ALUMINUM SHEET.
- RAISED UPPERCASE LETTER 1 MM (1/32") TALL, MIN.
- FOR ALL GATED ACCESS POINT ENTRANCES.

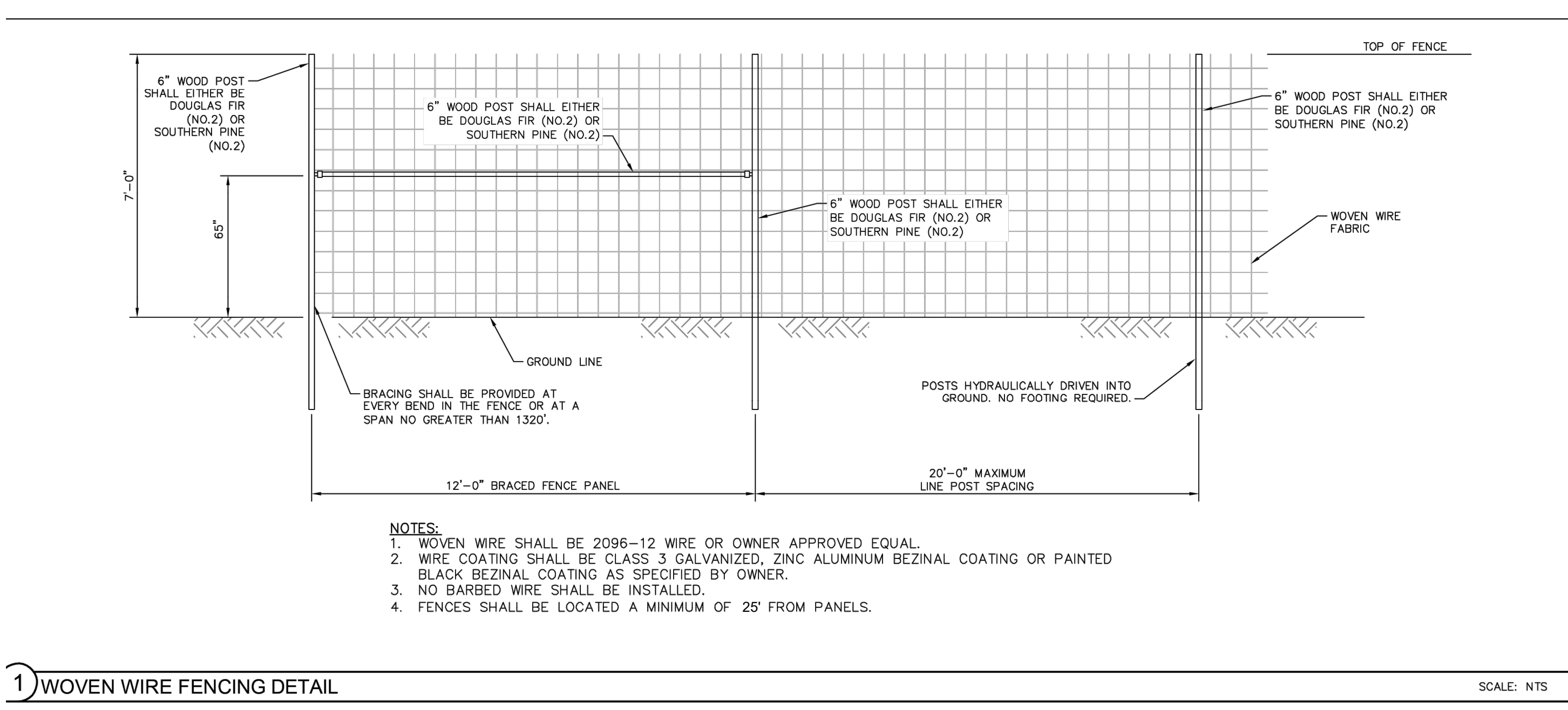
NOTES:

- SIGNAGE WILL BE IN COMPLIANCE WITH NESC AND APPLICABLE REVIEW AND APPROVAL FROM LOCAL EMERGENCY SERVICES AND FIRE DEPARTMENTS.
- TOP OF SIGN TEXT 125 mm (5") MIN CLEAR SPACE FROM GATE OR DOOR JAMB (STRIKE SIDE).
- PROVIDE A BLANK PANEL FOR BACK SIDE.
- CONTRAST BETWEEN CHARACTER, SYMBOLS AND THEIR BACKGROUND SHALL BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
- CHARACTERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
- SIGN SHALL BE 1 mm (0.04") THK (MIN) ALUMINUM SHEET.
- RAISED UPPERCASE LETTER 1 mm (1/32") TALL, MIN.
- FOR ON PCS TRANSFORMER MV COMPARTMENT.

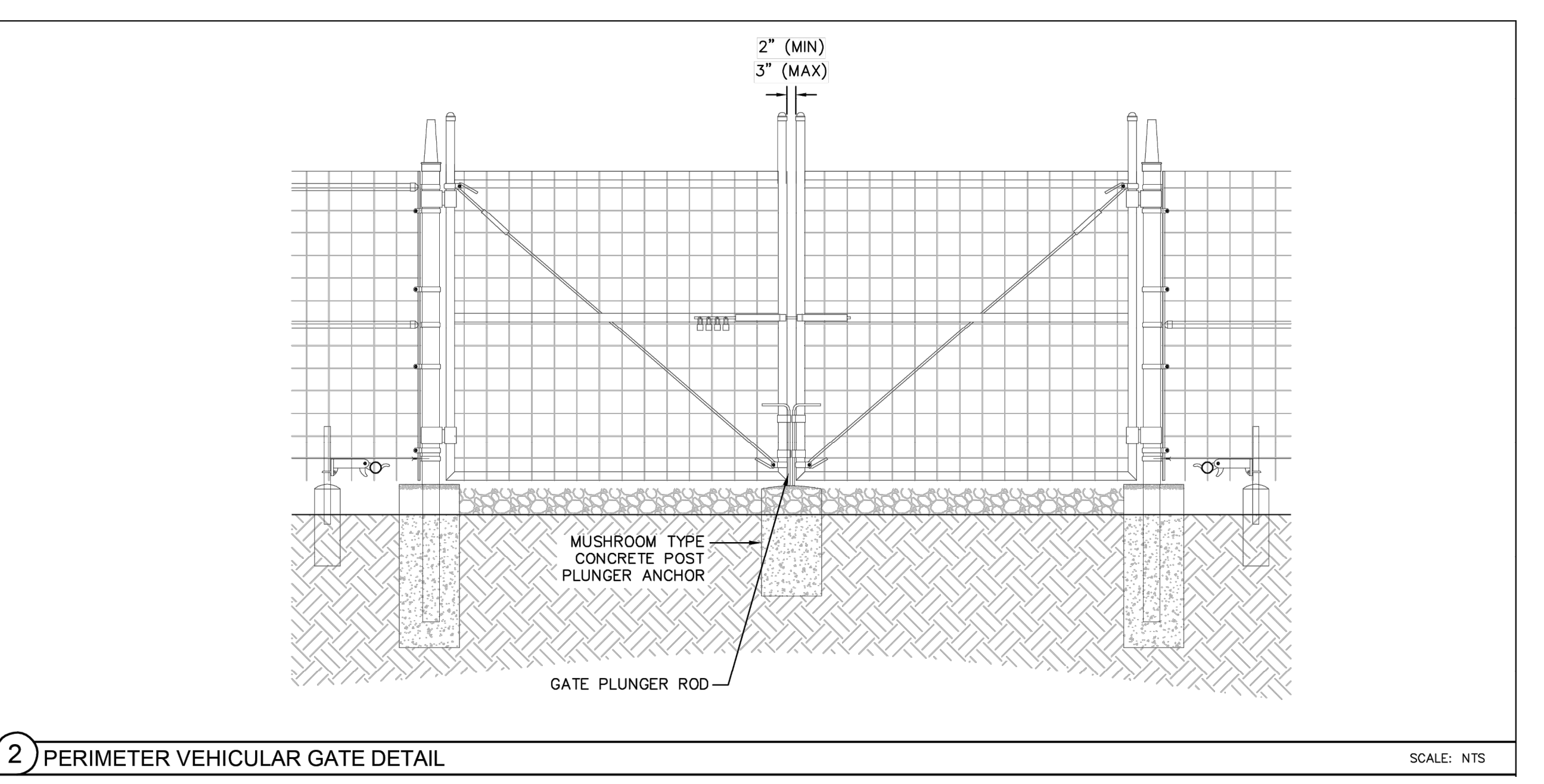
CONTACT INFORMATION SIGNAGE
NO SCALE

- ALL SIGNAGE WILL COMPLY WITH REQUIRED SETBACKS AND BE PLACED ON PROJECT FENCELINE.
- THE APPLICANT UNDERSTANDS THE PROJECT'S SIGNAGE MAY NOT BE UTILIZED FOR ADVERTISING OF ANY KIND.

AUTHORIZED PERSONNEL SIGNAGE
NO SCALE

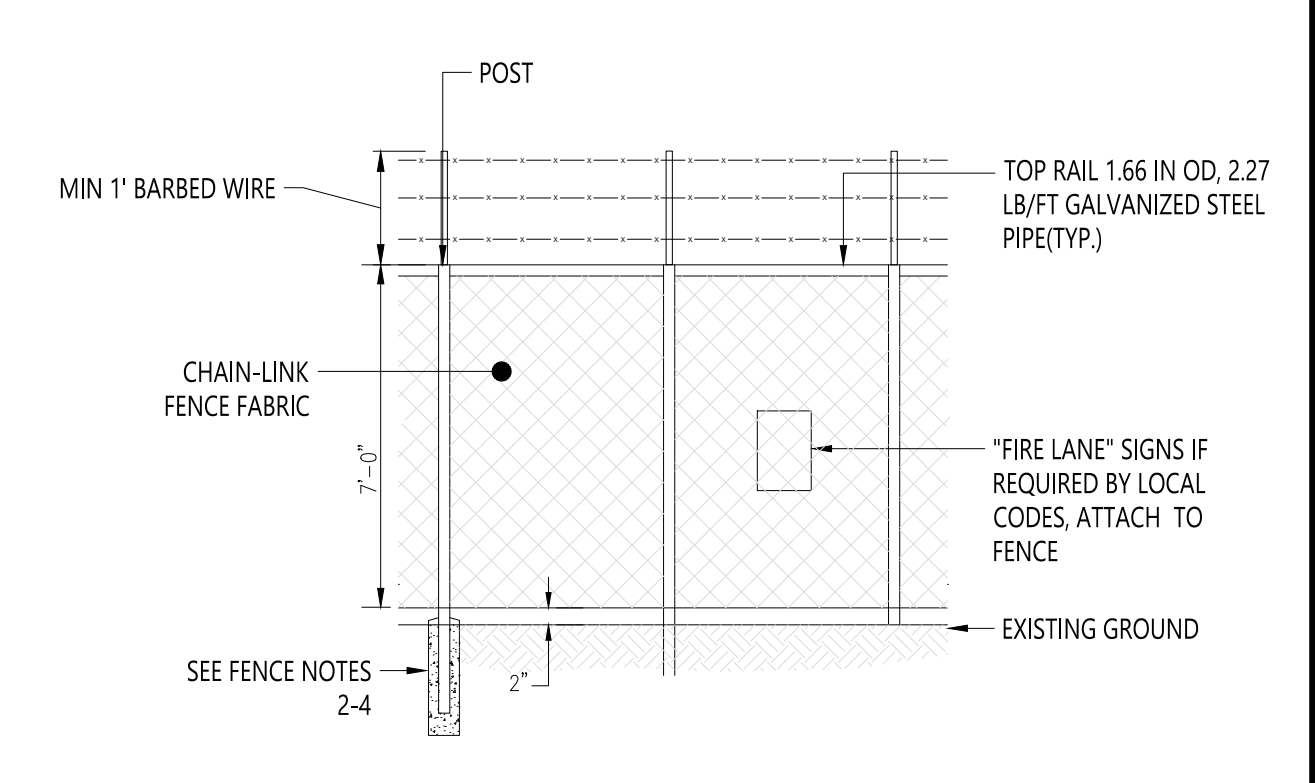
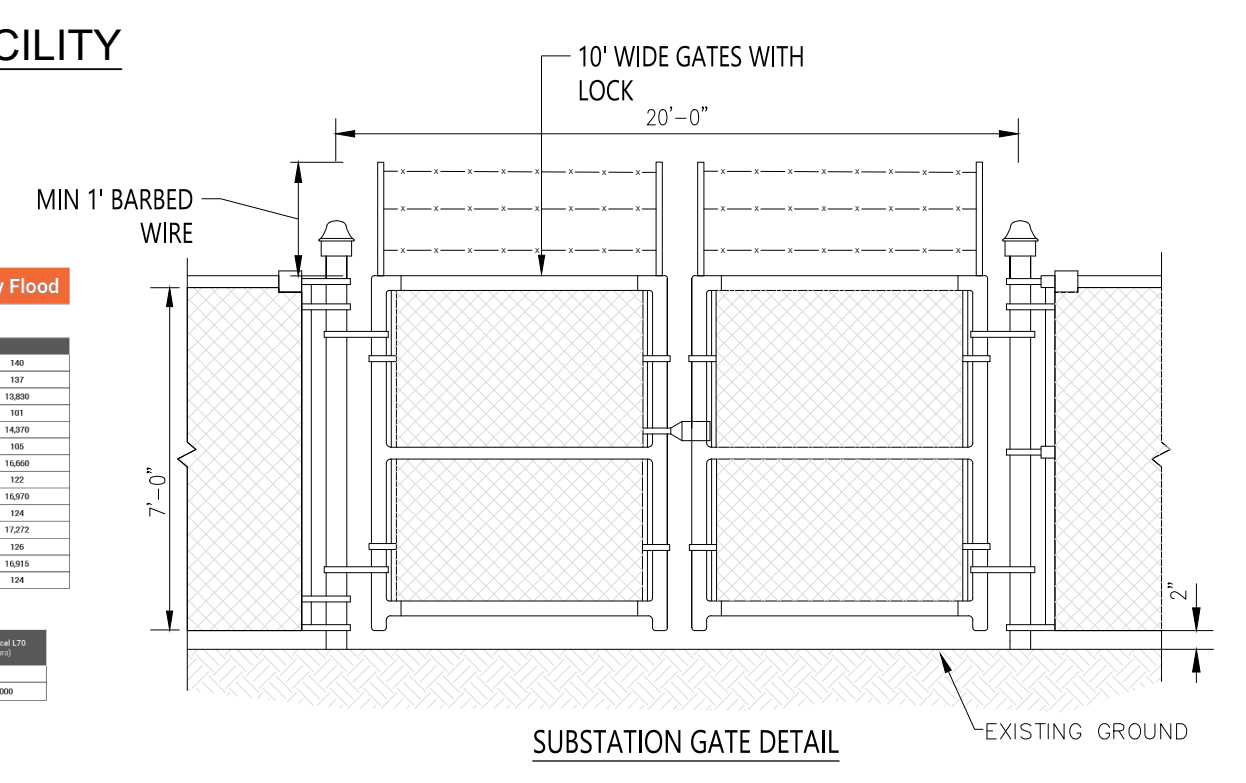


1) WOVEN WIRE FENCING DETAIL



2) PERIMETER VEHICULAR GATE DETAIL

SECURITY FENCE DETAIL - SOLAR FACILITY
NO SCALE



SECURITY FENCE DETAIL - SUBSTATION
NO SCALE

SUBSTATION FENCE NOTES:

- FENCE INSTALLATION AND MATERIALS SHALL BE PER CURRENT MDOT SPECIFICATIONS AND STANDARD PLAN R-98-B "CHAIN LINK FENCE (USING TENSION WIRE)", EXCEPT AS MODIFIED / CLARIFIED BY THE NOTES BELOW.
- CORNER, END AND PULL POSTS SHALL HAVE CONCRETE FOOTINGS (COMPRESSIVE STRENGTH 2,500 PSI MIN.), 18" DIAMETER AND 36" MIN. DEPTH.
- TYPICAL LINE POSTS MAY BE DIRECT-DRIVEN PER FENCE CONTRACTOR RECOMMENDATION (MINIMUM EMBEDMENT DEPTH T.B.D.), OR HAVE CONCRETE FOOTINGS (9" DIA., 36" MIN. DEPTH).
- SLOPE TOP OF CONCRETE FENCE FOOTINGS TO SHED WATER AWAY FROM POST.
- LINE POSTS SHALL BE CIRCULAR PIPE SECTION, 2" NOMINAL (2.375" ACTUAL) O.D.

Streetworks
UFLD Utility Flood
Floodlight & Sign Lighting Luminaire
Product Features
Product Certifications
Quick Facts
Dimensional Details

Streetworks
UFLD Utility Flood
Ordering Information
Product Specifications
Mounting Details

Streetworks
UFLD Utility Flood
Energy and Performance Data
Mounting Details

Streetworks
UFLD Utility Flood
Energy and Performance Data
Mounting Details

LIGHTING DETAIL

NOTE: LIGHTING IS TO BE USED ONLY AT THE PROJECT SUBSTATION AND O & M FACILITY. NO LIGHTING IS PROPOSED WITHIN THE SOLAR FACILITY. ONE OUTDOOR LIGHT IS PROPOSED OUTSIDE THE PROJECT SUBSTATION CONTROL ROOM, CENTRAL TO THE SUBSTATION FOOTPRINT. ONE OUTDOOR LIGHT IS PROPOSED AT THE ENTRY TO THE O & M BUILDING.

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION



Know what's below.
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SECTIONS: 2-3, 9-11, 13-14, 23-24
TOWN, RANGE: T05S, R03W
FAYETTE TOWNSHIP
HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP SLUP
FINAL SITE PLAN
LANDSCAPING & VEGETATION
MANAGEMENT DETAILS

DATE: 12/05/2025

REVISIONS

DR. MB CH. ES
P.M. ES
BOOK --
JOB 24000089
SHEET NO. 22

SEEDING SPECIFICATION

GENERAL
SEEDING CAN BE USED FOR TEMPORARY OR PERMANENT STABILIZATION. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED. AREAS WHERE FINAL GRADING HAS BEEN COMPLETED SHALL BE TEMPORARILY AND/OR PERMANENTLY SEEDED IMMEDIATELY FOLLOWING THE CONCLUSION OF GRADING ACTIVITIES (WEATHER PERMITTING) AND MUST BE COMPLETED WITHIN FIVE (5) DAYS. TEMPORARY AND PERMANENT SEED MIXTURES ARE SPECIFIED BELOW. TEMPORARY SEED MIX SHALL ALSO BE APPLIED DURING THE APPLICATION OF THE PERMANENT SEED MIX TO ENSURE TIMELY VEGETATIVE COVER OF EXPOSED AREAS.

IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH STRAW UNIFORMLY AT THE RATE OF 1-1/2 TONS TO 2 TONS PER ACRE OR 100 POUNDS PER 1000 SQUARE FEET. ANCHOR MULCH WITH DISC-TYPE ANCHORING TOOL OR OTHER MEANS APPROVED BY THE LOCAL REGULATORY AGENCY.

NOTE, SPECIFIC VEGETATION MANAGEMENT PRACTICES MAY CHANGE BASED ON SITE CONDITIONS, AVAILABILITY OF SEED MIX, CONTRACTOR REQUIREMENTS, OR OTHER FACTORS.

SEEDING MIXTURES
SEE SEED MIXES IN TEMPORARY & PERMANENT SEED CHARTS.

SEED MIXES MEET THE SPECIFICATIONS OF MICHIGAN DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT'S POLICY FOR ALLOWING COMMERCIAL SOLAR PANEL DEVELOPMENT ON P.A. 116 LANDS. NOTE THAT HEARTWOOD SOLAR HAS VOLUNTARILY ELECTED TO INSTALL ALL AREAS BEING DISTURBED WITH SEED MIXES MEETING THESE SPECIFICATIONS, REGARDLESS OF P.A. 116 ENROLLMENT STATUS. SUBSTITUTIONS MAY BE NECESSARY BASED ON SEED AVAILABILITY AT THE TIME OF CONSTRUCTION.

SLOPES FLATTER THAN 3:1 (NOT INCLUDING BASINS)
SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

TEMPORARY SEEDING PLANTING DATES
LAST DISTURBANCE OR WITHIN 14 DAYS

PERMANENT SEEDING PLANTING DATES
PREFERABLE EARLY SPRING OR EARLY FALL

SLOPES 3:1 OR GREATER (NOT INCLUDING BASINS)
SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

TEMPORARY SEEDING PLANTING DATES
LAST DISTURBANCE OR WITHIN 5 DAYS

PERMANENT SEEDING PLANTING DATES
PREFERABLE EARLY SPRING OR EARLY FALL

Michigan Pollinator Mix		
Application Rate: 4.1 lbs/ac		
Summary		
Species Count	Acres	Planting Location
19	132	Outside of solar arrays, within fenceline
Common Name	Scientific Name	
little bluestem	<i>Schizachyrium scoparium</i>	
sideoats grama	<i>Bouteloua curtipendula</i>	
black-eyed susan	<i>Rudbeckia hirta</i>	
lanceleaf coreopsis	<i>Careopsis lanceolata</i>	
sand dropseed	<i>Sporobolus cryptandrus</i>	
blue vervain	<i>Verbena hastata</i>	
evening primrose	<i>Oenothera biennis</i>	
Maximilian sunflower	<i>Helianthus maximiliani</i>	
purple prairie clover	<i>Dalea purpurea</i>	
grayheaded coneflower	<i>Ratibida pinnata</i>	
purple coneflower	<i>Echinacea purpurea</i>	
false sunflower	<i>Helopsis helianthoides</i>	
wild bergamot	<i>Monarda fistulosa</i>	
New England aster	<i>Symphotrichum novae-angliae</i>	
partridge pea	<i>Chamaecrista fasciculata</i>	
stiff goldenrod	<i>Oligoneuron rigidum</i>	
golden alexander	<i>Zizia aurea</i>	
butterfly milkweed	<i>Asclepias tuberosa</i>	
common milkweed	<i>Asclepias syriaca</i>	

Solar Array-Area Mix (under 24")		
Application Rate: 3.4 lbs/ac		
Summary		
Species Count	Acres	Planting Location
31	938	Underneath solar arrays, within fenceline
Common Name	Scientific Name	
yarrow	<i>Achillea millefolium</i>	
columbine	<i>Aquilegia canadensis</i>	
butterfly milkweed	<i>Asclepias tuberosa</i>	
whorled milkweed	<i>Asclepias verticillata</i>	
blue grama	<i>Bouteloua gracilis</i>	
pointed broom sedge	<i>Carex scoparia</i>	
mist flower	<i>Conoclinium coelestinum</i>	
lanceleaf coreopsis	<i>Careopsis lanceolata</i>	
plains coreopsis	<i>Careopsis tinctoria</i>	
white prairie clover	<i>Dalea candida</i>	
purple prairie clover	<i>Dalea purpurea</i>	
sheep fescue	<i>Festuca ovina</i>	
Indian blanket	<i>Gaillardia pulchella</i>	
prairie junegrass	<i>Koeleria macrantha</i>	
seedbox	<i>Ludwigia alternifolia</i>	
monkey flower	<i>Mimulus ringens</i>	
lemon mint	<i>Monarda citriodora</i>	
hairy beardtongue	<i>Penstemon hirsutus</i>	
fowl bluegrass	<i>Poa palustris</i>	
prairie cinquefoil	<i>Drmocallis arguta</i>	
narrowleaf mountain	<i>Pycnanthemum tenuifolium</i>	
black-eyed susan	<i>Rudbeckia hirta</i>	
blue-eyed grass	<i>Sisyrinchium angustifolium</i>	
gray goldenrod	<i>Solidago nemoralis</i>	
composite dropseed	<i>Sporobolus compositus</i>	
sand dropseed	<i>Sporobolus cryptandrus</i>	
alsike clover	<i>Trifolium hybridum</i>	
crimson clover	<i>Trifolium incarnatum</i>	
Ladino clover	<i>Trifolium repens 'Ladino'</i>	
hoary vervain	<i>Verbena stricta</i>	
golden alexander	<i>Zizia aurea</i>	

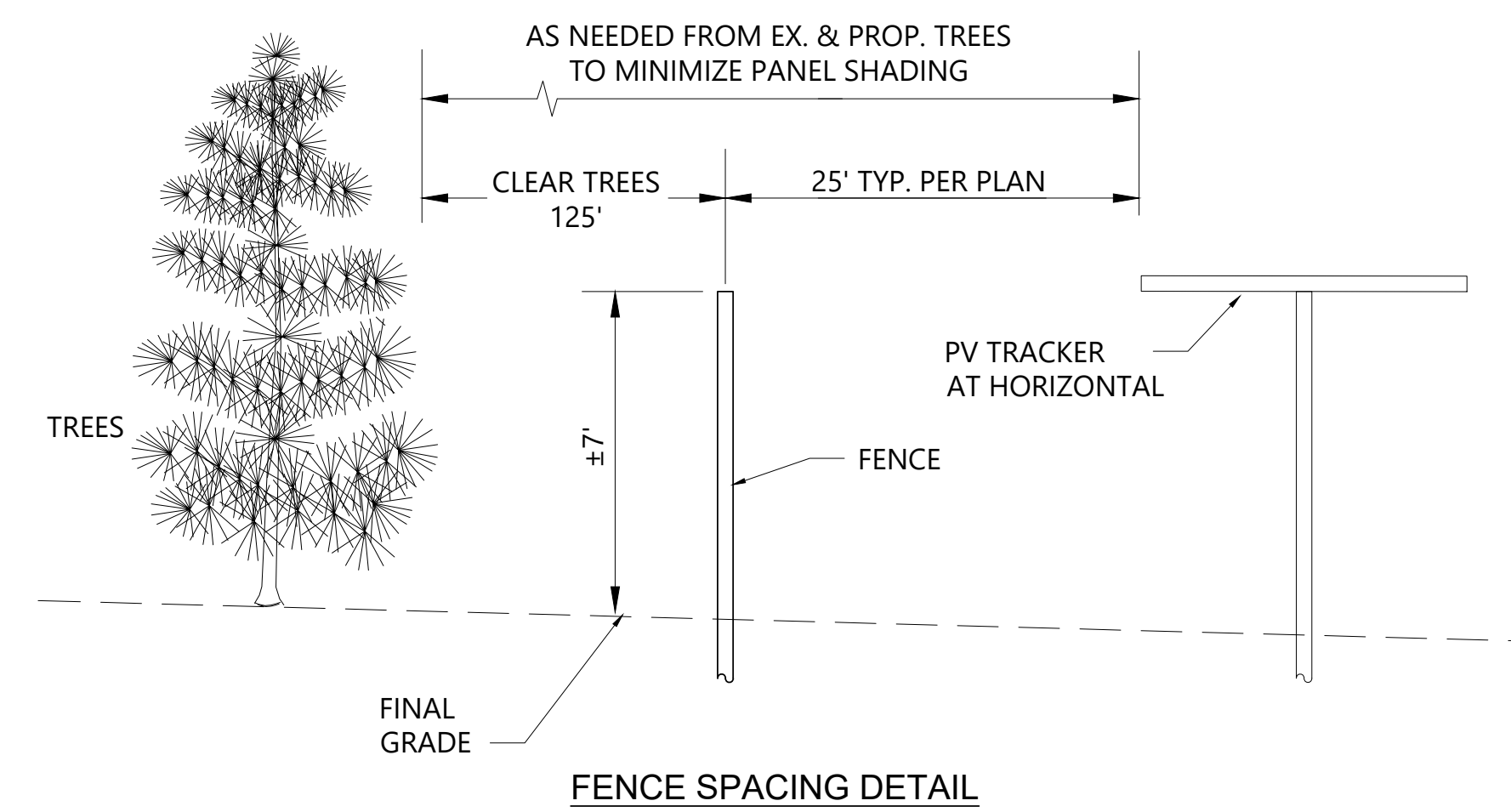
SEED BED PREPARATION (PERMANENT SEEDING)
WEED CONTROL MEASURES SHALL BE TAKEN THE SEASON PRIOR TO PERMANENT PLANTING. SURFACE WATER CONTROL MEASURES SHALL BE IN PLACE. THE PLANTING AREA MUST BE WEED-FREE FOR SUCCESSFUL VEGETATIVE ESTABLISHMENT. AREA TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL. TOTAL SEEDBED PREPARED DEPTH SHOULD BE AT LEAST 4 INCHES. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS NEED TO BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH THE ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION SHOULD BE AT FINISH GRADE AND BE REASONABLY SMOOTH AND UNIFORM.

TOPSOIL IN THE AREA TO BE SEEDED SHALL BE TESTED FOR PH, MAGNESIUM (MG), POTASSIUM (K), AND PHOSPHOROUS (P) PRIOR TO PERMANENT PLANTING. APPLY FERTILIZER AND LIME ACCORDING TO SOIL TEST REPORT. FERTILIZER AND LIME SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION. WEIGHTS, SEED SPECIES AND PERCENTAGE OF PURITY AND GERMINATION MUST BE CHECKED PRIOR TO SEEDING.

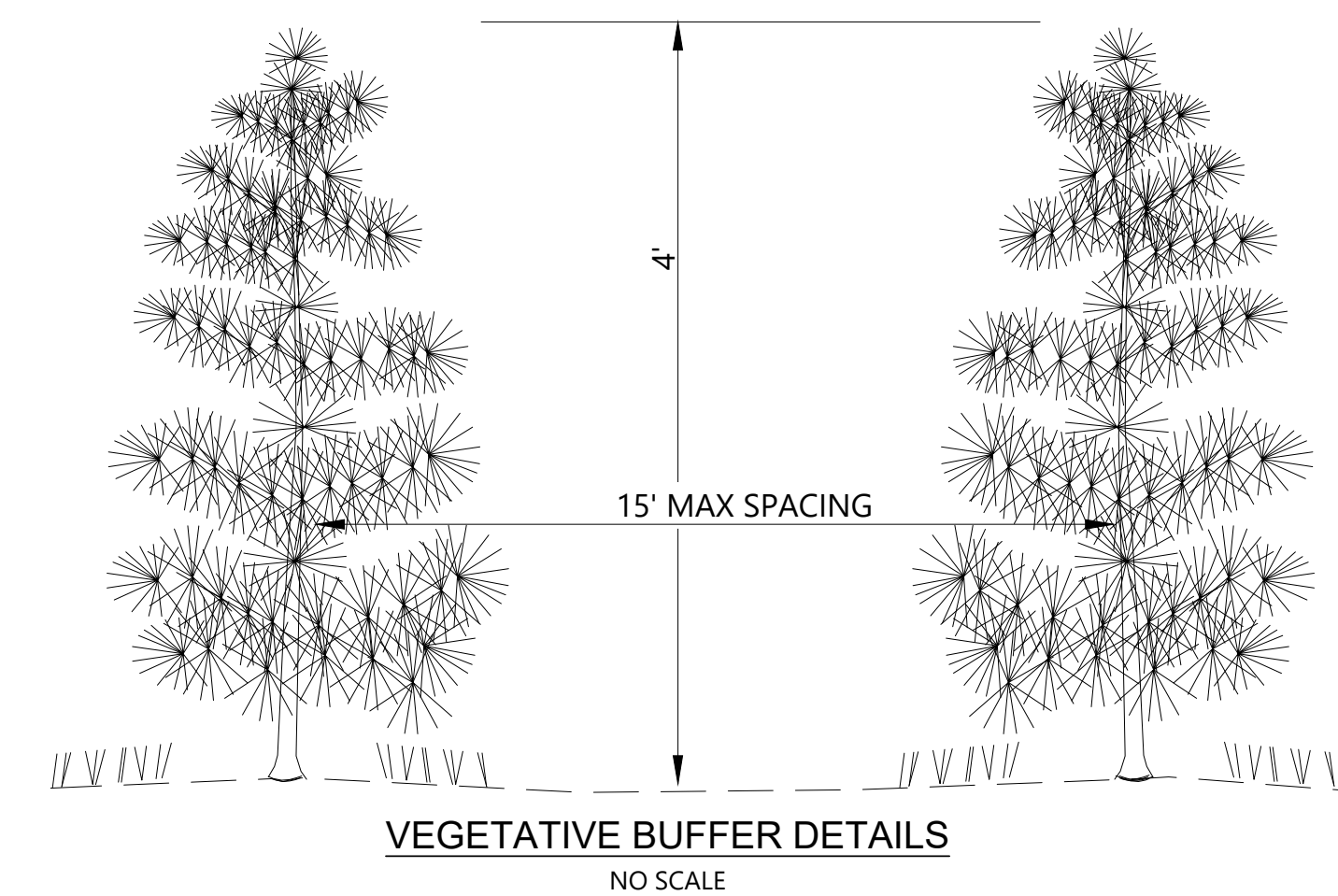
SEEDING SHALL BE ACCOMPLISHED IN TWO DIRECTIONS AND AT RIGHT ANGLES TO EACH OTHER. LAWN AREAS SHALL BE SEEDED AT THE RATE INDICATED ABOVE BY SOWING EVENLY WITH AN APPROVED SEEDER TO COVER THE SEED AND FORM THE SEEDBED IN ONE OPERATION. IF BROADCAST SEEDER IS USED THE SEEDING RATE SHALL BE TWO (2) TIMES THE DRILL RATE. IN INACCESSIBLE AREAS, THE SEED SHALL BE LIGHTLY RAKED WITH FLEXIBLE RAKES AND ROLLED WITH A WATER BALLAST ROLLER. AFTER ROLLING SEEDED AREAS ARE TO BE MULCHED ACCORDING TO SPECIFICATION. IF HYDRO-SEED OPERATION IS USED, SEEDING RATE SHALL BE FIVE (5) TIMES THE DRILL RATE INDICATED ON THE DRAWINGS.

IF SEEDING CAN NOT BE ACCOMPLISHED DUE TO SEASONAL CONSTRAINTS, APPLY STRAW MULCH AND TACKIFIER TO ALL SLOPES AND DISTURBED AREAS UNTIL PERMANENT SEEDING IS ALLOWED. IN THE EVENT SEEDING OCCURS OUT OF SEASON, MAINTENANCE SHALL OCCUR AND CONTINUE INTO THE FOLLOWING GROWING SEASON OR UNTIL A UNIFORM STAND OF THE SPECIFIED PERMANENT GRASSES HAVE BEEN ESTABLISHED AND THE SITE HAS REACHED STABILIZATION. THE POLLINATOR HABITAT SEED MIX WILL TAKE APPROXIMATELY THREE YEARS TO ESTABLISH. THE PERMANENT AND TEMPORARY SEEDING SHALL BE ACCOMPLISHED THROUGHOUT THE CONSTRUCTION PROCESS.

INSPECTION
INSPECT SEEDED AREAS FREQUENTLY. IF SEEDED AREAS FAIL TO GERMINATE, OR TO PROVIDE ADEQUATE GROUND COVERAGE, THE AREA SHALL BE RE-SEEDED UNTIL FINAL STABILIZATION IS ACHIEVED.



- FENCING NOTES:**
1. FENCING MAY BE INSTALLED WITHIN REQUIRED PERIMETER SETBACK AREAS.
 2. FINAL SPACING BETWEEN FENCE AND ARRAY TO BE DETERMINED DURING THE ENGINEERING PHASE. (MINIMUM AS REQUIRED PER NEC)
 3. ALL PROPOSED BUFFERING PLACED OUTSIDE THE PERIMETER FENCING.



- NOTES:**
1. PROPOSED LANDSCAPE BUFFER WILL INCLUDE NATIVE EVERGREEN TREES, SPACED NO MORE THAN 15' APART, AND PLANTED AT A MINIMUM HEIGHT OF 4'.

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION

C:\Users\... \DRAWING HEARTWOOD II SOLAR CAPACITY PLAN SET\313131-HEARTWOOD II\313131-08-DT.DWG 12/05/2025 4:57 PM MARLENE BURK

CAD FILE: 24000089-SLUP-08-DT.DWG

Tiger Neo N-type 72HL4-BDV 560-580 Watt

BIFACIAL MODULE WITH
DUAL GLASS

N-Type
Positive power tolerance of 0~+3%

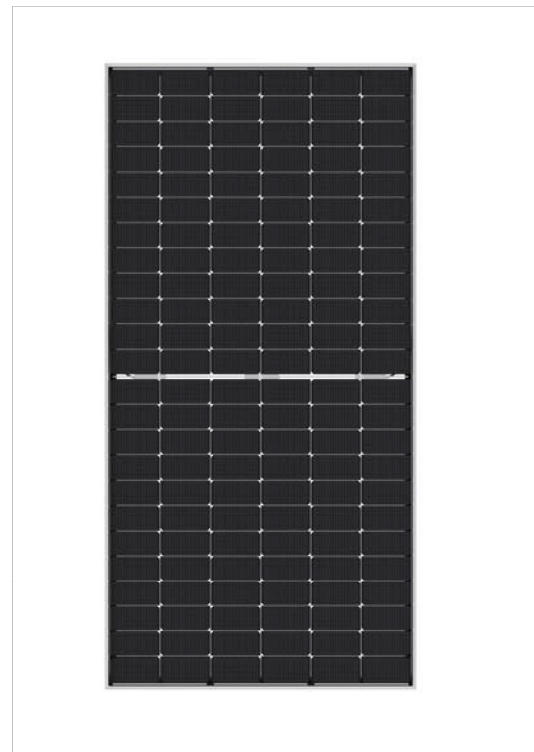
- IEC61215(2016), IEC61730(2016)
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018 Occupational health and safety management systems

Key Features

SMBB Technology
Better light trapping and current collection to improve module power output and reliability.

PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

Higher Power Output
Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

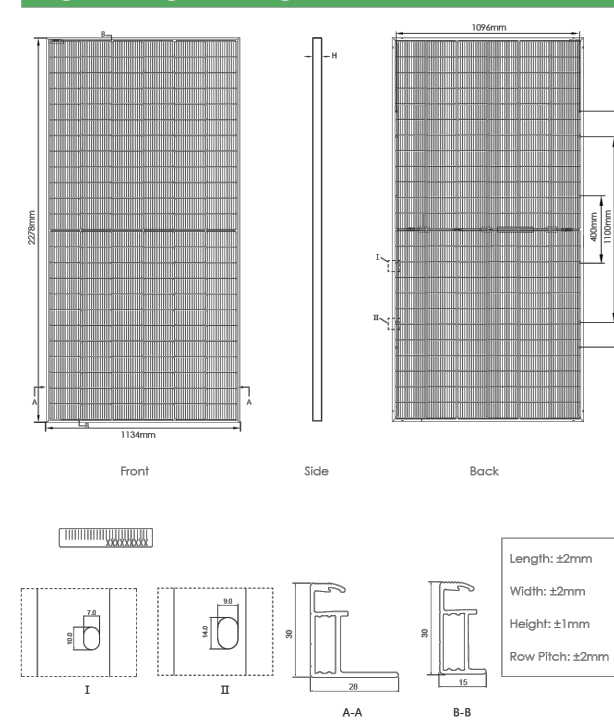


Hot 2.0 Technology
The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

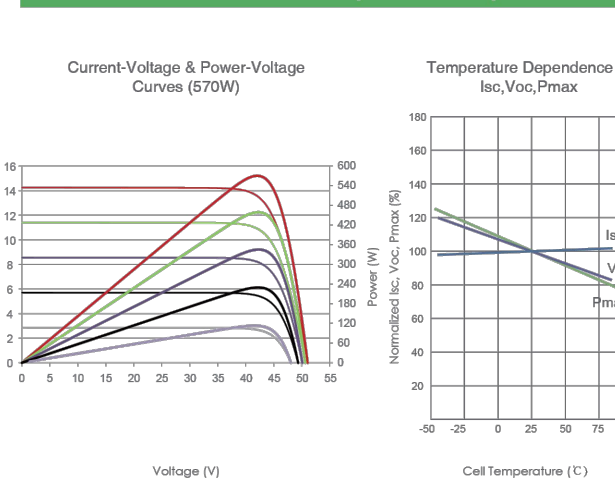
Enhanced Mechanical Load
Certified to withstand: wind load (2400 Pasca) and snow load (5400 Pasca).



Engineering Drawings



Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N-type Mono-crystalline
No. of cells	144 (2x72)
Dimensions	2278x1134x30mm (89.7x44.6x1.18 inch)
Weight	32 kg (70.55 lb)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0mm ² (+), 4.0mm ² (-), 200mm or Customized Length

Packaging Configuration

1 (two panels = one stack)
Mpcs/pallets: 72pcs/stack, 720pcs/40HQ Container

SPECIFICATIONS

Module Type	JKM56N-72HL4-BDV	JKM56N-72HL4-BDV	JKM57N-72HL4-BDV	JKM57N-72HL4-BDV	JKM58N-72HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	560Wp	421Wp	565Wp	425Wp	570Wp	429Wp
Maximum Power Voltage (Vmp)	41.95V	39.39V	42.14V	39.52V	42.29V	39.65V
Maximum Power Current (Imp)	13.35A	10.69A	13.41A	10.75A	13.48A	10.81A
Open-circuit Voltage (Voc)	50.67V	48.13V	50.87V	48.32V	51.07V	48.51V
Short-circuit Current (Isc)	14.15A	11.41A	14.19A	11.46A	14.25A	11.50A
Module Efficiency STC (%)	21.68%	21.87%	22.07%	22.26%	22.45%	
Operating Temperature(°C)	-40°C~+85°C					
Maximum system voltage	1500VDC (IEC)					
Maximum series fuse rating	30A					
Power tolerance	0~+3%					
Temperature coefficients of Pmax	-0.30%/°C					
Temperature coefficients of Voc	-0.25%/°C					
Temperature coefficients of Isc	0.046%/°C					
Nominal operating cell temperature (NOCT)	45/2°C					
Refer. Bifacial Factor	80±0%					

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

	5%	15%	25%
Maximum Power (Pmax)	589Wp	679Wp	779Wp
Module Efficiency STC (%)	22.74%	22.97%	23.17%
Maximum Power (Pmax)	444Wp	650Wp	656Wp
Module Efficiency STC (%)	24.93%	25.15%	25.37%
Maximum Power (Pmax)	700Wp	706Wp	713Wp
Module Efficiency STC (%)	27.10%	27.34%	27.58%

STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5
NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

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SG4400UD-MV-US

Turnkey Station for 1500 Vdc System MV Transformer Integrated



HIGH YIELD

- Advanced three-level technology, max. inverter efficiency 98.9 %
- Full power operation at 40 °C (104 °F)
- Effective cooling, wide operation temperature

EASY O&M

- Integrated current, voltage and MV parameters monitoring function for online analysis and trouble shooting
- Modular design, easy for maintenance

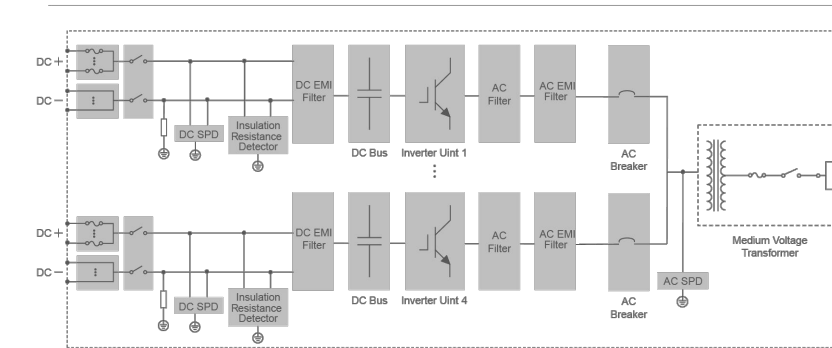
SAVED INVESTMENT

- Low transportation and installation cost due to 20-foot container size design
- DC 1500V system, low system cost
- Integrated MV transformer and LV auxiliary power supply
- Q at night optional

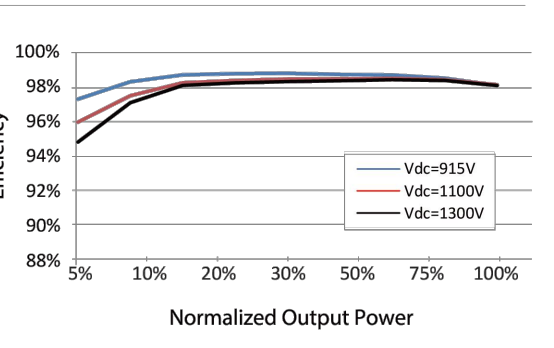
GRID SUPPORT

- Compliance with standards:UL 1741,UL 1741 SA/SB, IEEE 1547, Rule 21 and NEC code
- Low / High voltage ride through (L/HVRT), L/HFRT, soft start / stop
- Active & reactive power control and power ramp rate control

CIRCUIT DIAGRAM



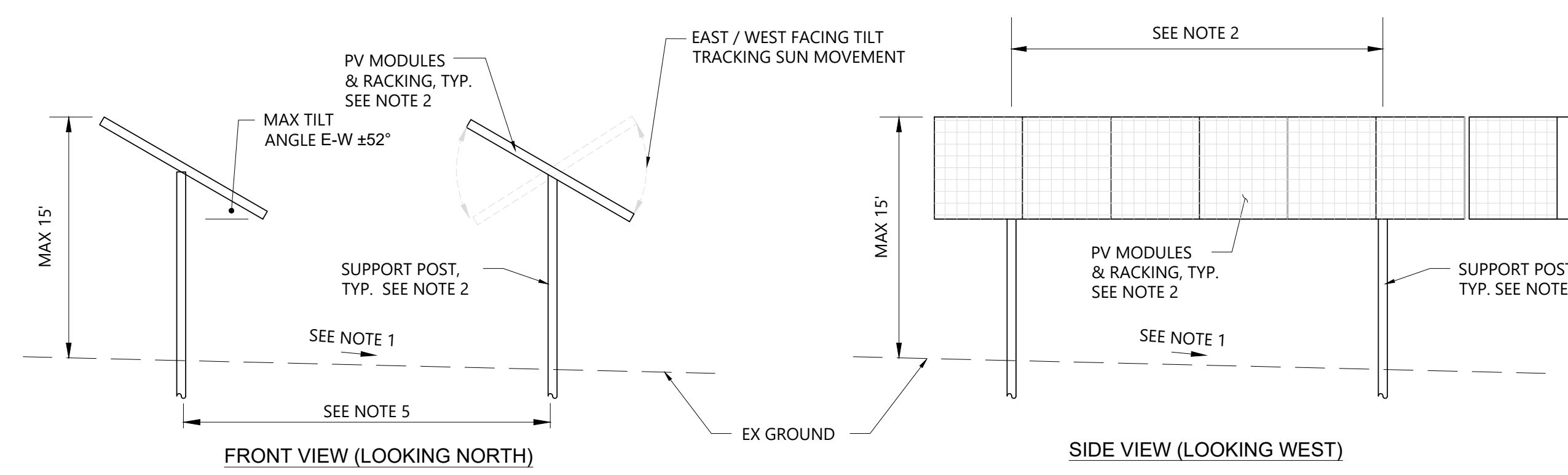
EFFICIENCY CURVE



INVERTER STATION DETAILS

NO SCALE
QUANTITY: 34

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CONCEPTUAL SOLAR PV TRACKER DETAIL

GENERAL ARRAY NOTES:

- SITE DRAINAGE IS INTENDED TO FOLLOW NATURAL DRAINAGE PATTERNS WITH LOCALIZED GRADING AS REQUIRED TO MEET TRACKER VENDOR REQUIREMENTS FOR MAX SLOPE AND POST HEIGHT TOLERANCES.
- FINAL PV MODULE RACKING CONFIGURATION AND SUPPORT POST DESIGN (SIZE, EMBEDMENT DEPTH, SPACING, ETC.) TO BE DETERMINED DURING THE ENGINEERING PHASE.
- SOLAR MODULES SHALL NOT BE INSTALLED WITHIN REQUIRED PERIMETER SETBACK AREAS.
- PROPOSED SPACING BETWEEN ROWS ±15 FEET, SUBJECT TO CHANGE PENDING FINAL DESIGN.

CONSTRUCTION INFORMATION

- ARRAY SOURCE: ATWELL, LLC, AUGUST 2025. THIS PLAN IS PRELIMINARY FOR PERMITTING PURPOSES. FINAL ARRAY CONFIGURATION TO BE OPTIMIZED DURING ENGINEERING PHASE.
- FINAL STRING SIZING TO BE CONFIRMED BY ENGINEER-OF-RECORD.
- MV COLLECTION CROSSINGS ARE TBD AFTER MV COLLECTION LAYOUT. ALL CROSSINGS TO BE FINALIZED BY ENGINEER OF RECORD. ALL COLLECTION LINES FROM PV ARRAYS WILL JOIN WITH PROJECT SUBSTATION UNDERGROUND AT A MINIMUM DEPTH OF 3' BELOW SURFACE.
- PROJECT SUBSTATION SIZE AND LOCATION IS PRELIMINARY. FINAL SUBSTATION DESIGN TO BE COMPLETED BY EPC.
- VEHICULAR AND PEDESTRIAN TRAFFIC, IN RELATION TO STREETS AND SIDEWALKS WILL BE SAFE AND CONVENIENT.
- CONSTRUCTION: CONSTRUCTION OF THE PROJECT SHALL COMPLY WITH THE NATIONAL ELECTRIC SAFETY CODE (NEC), STATE CONSTRUCTION CODE, AND COUNTY BUILDING CODE. COMPONENTS OF THE SOLAR ARRAY SHALL BE APPROVED BY THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE), SOLAR RATING AND CERTIFICATION CORPORATION (SRCC), ELECTRONICS TESTING LABORATORY (ETL), OR OTHER CERTIFICATION ORGANIZATION APPROVED BY THE TOWNSHIP.
- DISTRIBUTION, TRANSMISSION & INTERCONNECTION: ALL COLLECTION LINES FROM THE SOLAR ARRAY TO ANY ELECTRICAL COLLECTION POINT SHALL BE LOCATED AND MAINTAINED UNDERGROUND INSIDE THE FENCED ARRAY, EXCEPT IN AREAS WHERE TECHNICAL OR PHYSICAL CONSTRAINTS MAKE IT PREFERABLE TO INSTALL EQUIPMENT ABOVE GROUND. THIS REQUIREMENT EXCLUDES TRANSMISSION EQUIPMENT MEANT TO CONNECT THE PROJECT TO THE LOCAL TRANSMISSION OR DISTRIBUTION SYSTEM.
- UNDERGROUND UTILITY CROSSINGS OF COUNTY ROADS, DRAINS, WATERCOURSES, AND REGULATED WETLANDS SHALL BE VIA TRENCHLESS INSTALLATION TO MINIMIZE IMPACTS TO THOSE FEATURES.
- THE PERIMETER OF THE ARRAY WILL BE COMPLETELY ENCLOSED BY PERIMETER FENCING.
- WATER AND SANITARY SEWER IS NOT ANTICIPATED FOR THE PV FACILITY. IF A WATER WELL IS REQUIRED FOR DEWATERING DURING CONSTRUCTION A WELL PERMIT WILL BE ACQUIRED.
- A SANITARY SEWER AND WATER WELL MAY BE NECESSARY FOR THE OPERATIONS AND MAINTENANCE BUILDING. FINAL DESIGN TO BE COMPLETED BY EPC. IF NECESSARY, A WELL AND PLUMBING PERMIT WILL BE PURSUED PRIOR TO CONSTRUCTION.
- THE OPERATIONS & MAINTENANCE BUILDING WILL SUPPORT 3-5 PERSONNEL. THE NUMBER OF PARKING SPACES WILL BE DETERMINED BY BUILDING CODE.
- EMERGENCY VEHICLE ACCESS WITHIN THE ARRAY SHALL BE PROVIDED TO THE INVERTER STATIONS AND WILL CONSIST OF AN ADEQUATE GRAVEL SURFACING CAPABLE OF SUPPORTING EMERGENCY VEHICLES AND ALSO SHALL PROVIDE A TURNAROUND OR LOOPED ROADWAY FOR EASE OF EGRESS. KNOX BOXES AND KEYS SHALL BE PROVIDED AT EACH LOCKED ENTRANCE.
- EXISTING DRAINAGE PATTERNS WILL GENERALLY BE MAINTAINED TO FOLLOW EXISTING CONDITIONS. LOCALIZED GRADING WILL BE PERFORMED AS NECESSARY TO SMOOTH TERRAIN TO SUIT TRACKER VENDOR REQUIREMENTS AND OPTIMIZE POST HEIGHT REQUIREMENTS.
- STORMWATER RUNOFF (VOLUME AND FLOW RATE) FROM THE ARRAY WILL NOT EXCEED EXISTING AGRICULTURAL RUNOFF.
- THE PROJECT WILL CONDUCT SOIL SURVEYING AND TESTING, PURSUANT TO NREPA. IN ADDITION, THE PROJECT WILL FOLLOW BMPs WHEN PERFORMING CONSTRUCTION ACTIVITIES RESULTING IN THE DISTURBANCE OF SOILS.
- DURING CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH PERMITTING REQUIREMENTS OF THE HILLSDALE COUNTY DRAIN COMMISSIONER.
- FINAL GROUND COVER OF THE ARRAY WILL CONSIST OF SHORT AND LONG SEED MIXES SUITABLE FOR GROWTH IN THIS AREA WITH MINIMAL MAINTENANCE (NO IRRIGATION). MAINTENANCE WILL CONSIST OF MOWING AS NECESSARY TO AVOID SHADING ON PANELS.
- EXISTING SURVEY INFORMATION ON THESE PLANS IS BASED ON DESKTOP DATA SOURCES (GIS, ETC.) AND IS NOT SUITABLE TO BE USED FOR CONSTRUCTION. FIELD SURVEY IS REQUIRED TO BE PERFORMED PRIOR TO PROCEEDING WITH DETAILED DESIGN AND IFC DRAWINGS.
- THE APPLICANT SHALL PROVIDE UPDATED PARCEL LINES ON THE SITE PLAN ONCE A CERTIFIED SURVEY HAS TAKEN PLACE.
- DRIVEWAY APPROACHES TO AND/OR UTILITY CROSSINGS OF EXISTING COUNTY ROADS SHALL REQUIRE A PERMIT AND BE DESIGNED IN ACCORDANCE WITH HILLSDALE COUNTY ROAD COMMISSIONER REQUIREMENTS.
- CONNECTIONS AND/OR CROSSINGS OF EXISTING COUNTY DRAINS WILL REQUIRE A PERMIT AND BE DESIGNED IN ACCORDANCE WITH HILLSDALE COUNTY DRAIN COMMISSIONER REQUIREMENTS.
- DEVELOPER WILL WORK WITH LANDOWNERS TO CORRECT ANY DAMAGES TO DRAIN TILES ENCOUNTERED DURING PROJECT CONSTRUCTION.
- SNOW REMOVAL WILL BE PERFORMED AS NECESSARY BY A LOCAL CONTRACTOR FOR MAINTENANCE AND EMERGENCY SERVICES. SNOW WILL NOT BE STORED IN LOCATIONS THAT WILL INTERFERE WITH THE PUBLIC OR ADJACENT LANDOWNERS.
- THE PROJECT WILL INCLUDE A PRIMARY TEMPORARY LAYDOWN YARD LOCATED ON THE PROJECT SUBSTATION PARCEL. THE LAYDOWN YARD WILL BE MADE OF A GRAVEL SURFACE AND CONTAIN OFFICE TRAILERS, CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIALS, AND A TEMPORARY BATHROOM. THE AREA WILL BE RESTORED TO EXISTING CONDITIONS FOLLOWING THE COMPLETION OF CONSTRUCTION.
- PERMANENT OUTDOOR STORAGE AREAS ARE NOT ANTICIPATED FOR THE PROJECT. TEMPORARY STORAGE AREAS MAY BE UTILIZED DURING CONSTRUCTION AT LAYDOWN YARDS. WASTE MATERIALS AT THE LAYDOWN YARD WILL BE SCREENED USING TEMPORARY BARRIERS.
- ADDITIONAL SECONDARY LAYDOWN YARDS WILL BE UTILIZED WITHIN THE PV AREAS DURING CONSTRUCTION. FINAL SIZE AND LOCATION WILL BE DETERMINED PRIOR TO CONSTRUCTION. THERE ARE NO PLANNED ROUTES FOR CRANES OR HEAVY EQUIPMENT TO TRAVEL OUTSIDE OF ACCESS ROADS CONSTRUCTED FOR THE PROJECT.
- TOP SOIL SHALL NOT BE REMOVED FROM THE PROPERTY DURING CONSTRUCTION NOR DURING OPERATION OF THE FACILITY.

FAYETTE TOWNSHIP SITE PLAN NOTES

OWNER COMMITMENTS

DESIGN STANDARDS

- ACCESS ROAD SIZING:
 - 14' WIDE CLEARANCE REQUIRED FOR EMERGENCY PATHWAYS LEADING TO INVERTERS (20' WITHIN COUNTY ROAD R.O.W.)
 - 20' WIDE CLEARANCE REQUIRED FOR PATHWAYS LEADING TO SUBSTATION.
- COLLECTION LINE
 - ALL COLLECTION LINES WILL BE UNDERGROUND. THE ONLY ABOVE GROUND ELECTRICAL LINE WILL BE THE GEN-TIE CONNECTING THE PROJECT SUBSTATION TO THE ITC SWITCHYARD

SETBACKS

- A MINIMUM SETBACK DISTANCE OF FIFTY (50) FEET OF THE EDGE OF THE PROPOSED FENCE LINE TO ALL NON-PARTICIPATING PARTY LINES. INTERNAL PROPERTY LINES OF PARTICIPATING PARCELS UTILIZED FOR PLACEMENT OF THE SOLAR ARRAY ARE NOT SUBJECT TO ANY SETBACKS.
- A MINIMUM SETBACK DISTANCE OF FIFTY (50) FEET OF THE EDGE OF THE PROPOSED FENCE LINE TO ROAD RIGHT-OF-WAYS.
- A MINIMUM SETBACK DISTANCE OF ONE HUNDRED FIFTY (150) FEET FROM THE PROPOSED FENCE LINE AND EDGE OF ANY NON-PARTICIPATING DWELLING.
- A MINIMUM VOLUNTARY SETBACK DISTANCE OF TWENTY FIVE (25) FEET FROM PROJECT INFRASTRUCTURE AND WETLANDS AND STREAMS, WHEREVER APPLICABLE.

GLARE STANDARDS

- SOLAR ENERGY SYSTEMS SHALL BE LOCATED OR PLACED SO THAT HAZARDOUS SOLAR GLARE SHALL NOT BE DIRECTED TOWARD OR ONTO NEARBY PROPERTIES OR ROADWAYS AT ANY TIME OF THE DAY.

SOUND STANDARDS

- SOUND MODELED AT THE RECEPTOR LOCATIONS ANALYZED WAS PREDICTED AS RANGING FROM 30 TO 48 A-WEIGHTED DECIBELS (dBA).

LIGHTING STANDARDS

- ANY REQUIRED LIGHTING FOR THE SOLAR FACILITY OR BUILDINGS OF THE SOLAR FACILITY SHALL BE DIRECTED AWAY AND BE SHIELDED FROM ADJACENT PROPERTIES AND PUBLIC ROADWAYS. PERMANENT LIGHTS MAY BE INCLUDED AT PROJECT SUBSTATION AND O & M FACILITY. NO TEMPORARY LIGHTING WILL BE USED.

FENCING STANDARDS

- THE SOLAR FACILITY SHALL BE COMPLETELY ENCLOSED BY A SEVEN (7) FOOT HIGH PERIMETER FENCE TO RESTRICT UNAUTHORIZED ACCESS AS REQUIRED BY FEDERAL REGULATION.

SAFETY & CERTIFIED COMPONENTS STANDARDS

- ALL COMPONENTS OF THE SOLAR FACILITY WILL COMPLY WITH THE NATIONAL ELECTRIC SAFETY CODE (NEC) AND INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE).

SOIL EROSION AND SEDIMENTATION CONTROL PLANS

- SESC PLANS WILL BE CREATED WITH EVERY APPLICATION TO SHOW EACH COMMUNITY HOW THEIR CONSTRUCTION ACTIVITY WILL PROTECT THE SURROUNDINGS AND STORMWATER ENCOUNTERED ONSITE. A SESC PERMIT WITH HILLSDALE COUNTY WILL BE ACQUIRED FOR THE PROJECT BEFORE CONSTRUCTION.

HEIGHTS

- SUBSTATION
 - TO BE DETERMINED PENDING FINAL DESIGN. ASSUMED APPROXIMATE STRUCTURE HEIGHT IS 120 FEET FOR TRANSMISSION STRUCTURES, AND APPROXIMATELY 9 FEET FOR FINISHED BUILDINGS.
- O & M
 - TO BE DETERMINED PENDING FINAL DESIGN. ASSUMED APPROXIMATE STRUCTURE HEIGHT IS 9 FEET.
- INVERTERS
 - APPROXIMATE HEIGHT OF 10 FEET.
 - ARRAYS
 - APPROXIMATE HEIGHT OF 15 FEET.



Know what's below.
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE RESPONSIBLE TO ASSURE THE SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTIONS: 2-3, 9-11, 13-14, 23-24
TOWN, RANGE: T05S, R03W
FAYETTE TOWNSHIP
HILLSDALE COUNTY, MICHIGAN

CLIENT: HEARTWOOD SOLAR II, LLC
HEARTWOOD SOLAR II
FAYETTE TOWNSHIP SLUP
FINAL SITE PLAN
SOLAR DETAILS & CONSTRUCTION INFORMATION

DATE: 12/05/2025

REVISIONS

DR. MB CH. ES
P.M. ES
BOOK --
JOB 24000089
SHEET NO. 24

SLUP FINAL SITE PLANS - NOT FOR CONSTRUCTION