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CHRISTINE M.T. PIRIK
CPirik@dickinsonwright.com

February 17, 2021

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

Re: Large Exhibit A, Site Plan

Case No. 20-1605-EL-BGN

In the Matter of the Application of Birch Solar 1, LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Allen and Auglaize Counties, Ohio.

Dear Ms. Troupe:

On February 12, 2021, Birch Solar 1, LLC ("Applicant") filed an application with the Ohio Power Siting Board for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Allen and Auglaize Counties, Ohio ("Application"). As part of its Application, the Applicant filed Exhibit A, the Site Plan for the Project.

At this time, the Applicant is filing a larger version of Exhibit A, the Site Plan. Due to its size, the document is being filed in several parts.

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)

Terrence O'Donnell (0074213)

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(Counsel agree to receive service by email.)

Attorneys for Birch Solar 1, LLC

Enclosures

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Jon Pawley

Theresa White

Randall Schumacher

ARIZONA CALIFORNIA FLORIDA KENTUCKY MICHIGAN
NEVADA OHIO TENNESSEE TEXAS TORONTO WASHINGTON DC

Ms. Tanowa Troupe Birch Solar 1, LLC Case No. 20-1605-EL-BGN Page 2

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 17th day of February, 2021.

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

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Administrative Law Judge:

michael.williams@puco.ohio.gov

4845-3950-5373 v1 [92234-1]

ARIZONA CALIFORNIA FLORIDA KENTUCKY

MICHIGAN

TORONTO

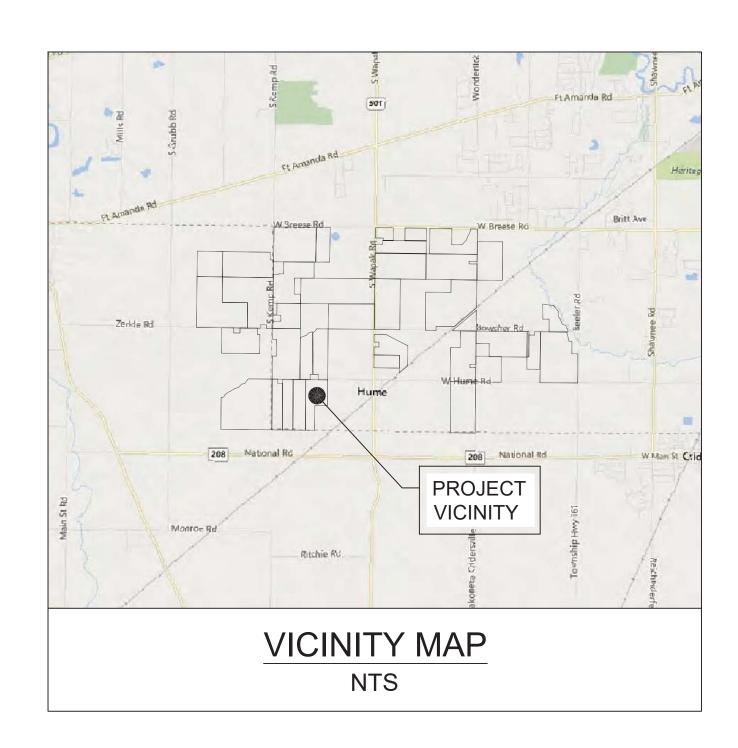
WASHINGTON DC

10% CIVIL DESIGN FOR BIRCH SOLAR PROJECT

ALLEN COUNTY, OH AUGLAIZE COUNTY, OH SITE LOCATION: 40°40'40.7"N, 84°11'04.4"W







DRAWING INDEX			
SHEET NUMBER	SHEET TITLE	REV	DATE
C-000	COVER	Α	01/14/2021
C-001	GENERAL NOTES	Α	01/14/2021
C-101 - C-112	EXISTING CONDITIONS & DEMOLITION PLAN	А	01/14/2021
C-201 - C-212	SITE PLAN	Α	01/14/2021
C-301 - C-312	GRADING & EROSION CONTROL PLAN	Α	01/14/2021
C-401	SITE DETAILS	Α	01/14/2021
C-402 - C-404	EROSION CONTROL DETAILS	Α	01/14/2021



	REVISIONS			
REV	DESCRIPTION	DSN	СНК	DATE
REV DESCRIPTION	DESCRIPTION	DWN	APP	DATE
A	ISSUED FOR REVIEW:	ARH	MDI	1/14/20
	10% CIVIL DESIGN	ARH	CGO	1/14/20

10% DESIGN
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SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH
ON ORIGINAL DRAWING

0 1"

L 1"

IF IT'S NOT 1 INCH ON THIS
SHEET ADJUST YOUR
SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 24 x 36

COVER

BIRCH SOLAR PROJECT ALLEN COUNTY, OH AUGLAIZE COUNTY, OH





400 MONTGOMERY ST, 8TH FLOOR

CGO SHEET

SAN FRANCISCO, CA 94104

10% CIVIL DESIGN

PROJECT NO. 2027	12135.001A
ISSUE DATE	01/14/2021
CURRENT REVISIO	N A
DESIGNED BY	ARH
DRAWN BY	ARH
CHECKED BY	MDI

APPROVED BY

C-000

OWNER:

LIGHTSOURCE bp
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JOSHUA.LARIMER@LIGHTSOURCEBP.COM

DESIGN CONSULTANT:

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STANDARD NOTES

- 1. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL REMOVE MUD/SOIL FROM PAVEMENT AS OFTEN AS REQUIRED.
- 2. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE
- A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS. 3. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION
- CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES. 4. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS,
- FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED. 5. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 6. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR
- ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE. 7. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER
- BAG, ETC.). 8. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
- WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
- WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
- FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
- SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING. 9. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE
- 10. CONTRACTOR TO CLEAR EXISTING CULVERTS/PIPES, CATCH BASINS, AND DITCHES ALONG FRONTAGE AND DOWNSTREAM AS NECESSARY TO ACHIEVE POSITIVE DRAINAGE.

MASTER LEGEND	
	EXISTING MAJOR CONTOUR (5')
324	EXISTING MINOR CONTOUR (1')
	EXISTING PROPERTY LINE
	EXISTING ABUTTING PROPERTY LINE
	EXISTING SETBACK LINE
	EXISTING SUBDIVISION LINE
	EXISTING EASEMENT
ROW ROW	EXISTING RIGHT-OF-WAY
—— 100 YR ——— 100 YR ——	EXISTING FEMA FLOODPLAIN
+++++++++++++++++++++++++++++++++++++++	EXISTING RAILROAD
	EXISTING ROAD CENTERLINE
<u> </u>	EXISTING GUARDRAIL
	EXISTING SOIL LINE
	EXISTING TREE LINE
0 0	EXISTING CHAINLINK FENCE
XX	EXISTING BARB WIRE FENCE
//	EXISTING WOOD FENCE
\wedge	EXISTING RETAINING WALL
•••••••••••••••••••••••••••••••••••••••	EXISTING STONE WALL
C C C	EXISTING COMMUNICATIONS LINE
CATV CATV	EXISTING TELEVISION LINE
тттт	EXISTING TELEPHONE LINE
FO FO	EXISTING FIBER OPTIC LINE
w w w	EXISTING WATER LINE
FP FP	EXISTING FIRE PROTECTION LINE
G G G	EXISTING GAS LINE
——————————————————————————————————————	EXISTING OVERHEAD POWER LINE
UGE — UGE —	EXISTING UNDERGROUND POWER LINE
FM FM	EXISTING FORCE MAIN
— L —— L —— L —	EXISTING LATERAL LINE
	EXISTING SANITARY SEWER LINE
ST ST	EXISTING STEAM LINE
	EXISTING STORM SEWER LINE
? — ? — ? —	EXISTING UNKNOWN UTILITY LINE
· ·	EXISTING CHANNEL
	EXISTING CHANNEL CENTERLINE
• • • • • • • • • • • • • • • • • • •	EXISTING EDGE OF WATER
	EXISTING RIVER CENTERLINE

MASTER PROPOSED LEGEND

323	THE COLD IN BOTT CONTOCK (C)
324	PROPOSED MINOR CONTOUR (1')
	PROPOSED PARCEL BOUNDARY
	PROPOSED SETBACK LINE
	PROPOSED SUBDIVISION LINE
	PROPOSED EASEMENT
+++++++++++++++++++++++++++++++++++++++	PROPOSED RAILROAD
	PROPOSED ROAD CENTERLINE
	PROPOSED GUARDRAIL
	PROPOSED TREE LINE
 0	PROPOSED CHAINLINK FENCE
××	PROPOSED BARB WIRE FENCE
//	PROPOSED WOOD FENCE
	PROPOSED RETAINING WALL
	PROPOSED STONE WALL
— c — c — c —	PROPOSED COMMUNICATIONS LINE
CATV CATV	PROPOSED TELEVISION LINE
<u>т т т т т т т т т т т т т т т т т т т </u>	PROPOSED TELEPHONE LINE
w w w	PROPOSED WATER LINE
——— FP ——— FP ———	PROPOSED FIRE PROTECTION LINE
— G — G — G —	PROPOSED NATURAL GAS LINE
——— OHE ——— OHE ———	PROPOSED OVERHEAD POWER LINE
——— UGE ———	PROPOSED UNDERGROUND POWER LINE
——— FM ——— FM ———	PROPOSED FORCE MAIN
— L — L — L —	PROPOSED LATERAL LINE
— s — s — s —	PROPOSED SANITARY SEWER LINE
ST ST	PROPOSED STEAM LINE
D D D	PROPOSED STORM SEWER LINE
LOD LOD	PROPOSED LIMITS OF DISTURBANCE
CL CL	PROPOSED CLEARING LIMITS
—X—X—X—X—X—	PROPOSED BAFFLE
CWD CWD	PROPOSED CLEAR WATER DIVERSION
ECM ECM	PROPOSED EROSION CONTROL MEASURE
——————————————————————————————————————	PROPOSED (COMPOST) FILTER SOCK
	PROPOSED SWALE
	PROPOSED TEMPORARY/PERMANENT DIVERSION
——————————————————————————————————————	PROPOSED SILT FENCE
——————————————————————————————————————	PROPOSED SUPER SILT FENCE
· ·	PROPOSED CHANNEL
	PROPOSED CHANNEL CENTERLINE
•••	PROPOSED EDGE OF WATER
	PROPOSED RIVER CENTERLINE
Х тс	TOP OF CURB ELEVATION
× BC	BOTTOM OF CURB ELEVATION
× TW	TOP OF WALL ELEVATION
× BW	BOTTOM OF WALL ELEVATION
× ELEV	SPOT ELEVATION

PROPOSED MAJOR CONTOUR (5')

EXISTING CONDITION NOTES

- 1. PRELIMINARY ALTA DATA PROVIDED BY LW SURVEY, DATED DECEMBER 22, 2020.
- 2. CONSTRAINTS WERE PROVIDED BY LIGHTSOURCE bp, DATED DECEMBER 22, 2020. THE CONSTRAINTS WERE ORIGINALLY PROVIDED IN COORDINATE SYSTEM UTM-WGS 1984 DATUM, ZONE 16 NORTH, METER; CENT. MERIDIAN 87D W. FOR COMPATIBILITY WITH OUR GEOLOCATION PROGRAM, THE CONSTRAINTS WERE CONVERTED TO NAD83 OHIO STATE PLANES, NORTH ZONE, US FOOT.
- 3. THIS PROPERTY IS WITHIN SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- 4. STREAM AND WETLAND IMPACTS ARE NOT PROPOSED FOR DEVELOPMENT OF THIS SOLAR FARM.

DEMOLITION KEYNOTES

1. REMOVE EXISTING ITEMS, AS NOTED ON DEMOLITION PLAN, COORDINATE REMOVAL AND REPLACEMENT WITH APPLICABLE FEDERAL, STATE, COUNTY, CITY, OR LOCAL AGENCIES; OR THE LOCAL UTILITY COMPANY/LANDOWNER.

SITE PLAN NOTES

- 1. SOLAR ARRAY LAYOUT PROVIDED BY FASTGRID, DATED JANUARY 6, 2021.
- 2. SITE DESIGN ITEMS INCLUDING SOLAR ELECTRICAL LAYOUT, INTERNAL ACCESS ROADS, FENCING, LAYDOWN AND EQUIPMENT STORAGE AREAS, SITE ENTRANCES, ETC. ARE PRELIMINARY AND SUBJECT TO CHANGE.
- 3. ALL MARKINGS WITHIN ODOT ROW SHALL BE THERMOPLASTIC (OR EPOXY IF CONCRETE) OR APPROVED PERMANENT EQUIVALENT.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING ALL APPLICABLE AND CURRENT ODOT STANDARD DRAWINGS INCLUDING, BUT NOT LIMITED TO, THE DRAWINGS INCLUDED WITHIN THESE PLANS AND THE APPROVED PERMIT PACKAGE.
- 5. PROPOSED TREE CLEARING WILL RESULT IN REMOVAL OF SOIL AROUND ROOT BALLS. CONTRACTOR SHALL BE RESPONSIBLE FOR FILLING AND COMPACTING ROOT AREA TO PREVENT LOCALIZED PONDING.
- 6. THE DEVELOPER, OR HIS AUTHORIZED REPRESENTATIVE, WILL BE RESPONSIBLE TO ENSURE THAT ANY AND ALL UTILITIES ARE RELOCATED AS NECESSARY.
- 7. THE ODOT RESERVES THE RIGHT TO REQUIRE FIELD CHANGES WITHIN STATE MAINTAINED RIGHTS OF WAY AS DEEMED NECESSARY.

SUMMARY INFORMATION

DEVELOPMENT NAME: BIRCH SOLAR PROJECT

LIMITS OF DISTURBANCE: TBD

PARCEL ACREAGE: 2,345 ACRES

PROPOSED USE: POWER GENERATION FACILITY

EXISTING USE: AGRICULTURAL

EROSION CONTROL NOTES

- 1. ALL LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH CHAPTERS 5, 6 & 7 OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL SEE EROSION CONTROL DETAIL SHEETS.
- 2. ALL TEMPORARY EROSION CONTROL MEASURES HAVE BEEN CONCEPTUALIZED USING CHAPTERS 5, 6 & 7 OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL
- 3. ADDITIONAL EROSION CONTROL MEASURES AND/OR MODIFICATIONS TO PROPOSED MEASURES MAY BE NECESSARY DEPENDING ON ACTUAL SITE CONDITIONS

SITE DATA		
SITE AREA	2,345 AC	
FENCED AREA	1,380 AC	
LF OF INTERNAL ACCESS ROADS	118,600 LF	
# OF CONSTRUCTION ENTRANCES	47	
APPROX. # OF SEDIMENT BASINS	20	
APPROX. # OF ALTERNATEIVE SEDIMENT BASINS (SEE NOTE)	24	
APPROX. LF OF SILT FENCE	129,200 LF	
APPROX. LF OF FILTER SOCK	77,750 LF	

ALTERNATIVE SEDIMENT BASIN NOTE:

1. SEE PLANS FOR RECOMMENDED ALTERNATIVE SEDIMENT BASIN LOCATIONS. THESE ARE BEING SHOWN FOR ILLUSTRATION PURPOSES IN AN EFFORT TO NOT IMPACT THE PROVIDED ARRAY LAYOUT CONFIGURATION. THE ITERATIVE NATURE OF THE LAYOUT DESIGN PROCESS SHOULD OCCUR PRIOR TO FUTURE PLAN SETS. ADDITIONAL CALCULATIONS ARE NEEDED TO CONFIRM SIZING OF COMPOST FILTER SOCK. IF COMPOST FILTER SOCK SIZING IS INADEQUATE, ARRAY LAYOUT MODIFICATIONS MAY BE REQUIRED TO ACCOMMODATE THE ALTERNATIVE SEDIMENT BASIN LOCATIONS FOR COMPLIANCE WITH CHAPTER 5, 6 & 7 OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.

EARTHWORK		
PROPOSED CUT	SEE NOTE 2	
PROPOSED FILL (IN AREAS OF 10"-30" OF FLOOD DEPTH)	141,300 CY	
PROPOSED FILL (IN AREAS OF 18"-30" OF FLOOD DEPTH)	14,400 CY	
PROPOSED FILL (IN AREAS OF 24"-30" OF FLOOD DEPTH)	700 CY	
NET EARTHWORK	SEE NOTES	

EARTHWORK NOTES:

- 1. THE EARTHWORK QUANTITIES REFERENCED HEREIN ARE CALCULATED FROM THE AREAS AND DEPTH RANGES SHOWN ON THE GRADING & EROSION CONTROL PLAN SHEETS. A 3D EARTHWORK ANALYSIS HAS NOT BEEN PERFORMED AT THIS TIME.
- 2. THIS PRELIMINARY EARTHWORK ANALYSIS IS AIMED AT REDUCING FLOOD DEPTHS AT OR BELOW VARYING MAXIMUM FLOOD DEPTHS WITH 10 INCHES AS THE DESIRED MAXIMUM FLOOD DEPTH; SOLAR ARRAYS ARE NOT CURRENTLY PROPOSED IN AREAS OF GREATER THAN 30 INCHES OF FLOOD DEPTH. FLOOD DEPTHS ARE BASED ON A 100-YEAR RAINFALL EVENT AND ARE MODELED PER KLEINFELDER HYRDOLOGY AND HYDRAULICS STUDY.
- 3. THE PROPOSED FILL QUANTITY IS AN ESTIMATE OF THE AMOUNT OF MATERIAL NEEDED TO FILL AREAS WITH VARYING MAXIMUM FLOOD DEPTHS. IN AN EFFORT TO BALANCE EARTHWORK, A PROPOSED CUT QUANTITY SHOULD BE PROVIDED WITH FUTURE PLAN SETS AND COULD INCLUDE MATERIAL FROM MASS GRADING ACTIVITIES AND/OR FROM INTERNAL ACCESS ROADS.
- 4. EARTHWORK IS AN ESTIMATE ONLY AND SHOULD BE USED FOR REFERENCE. CONTRACTOR SHALL COMPLETE A DETAILED EARTHWORK ANALYSIS FOR THE PURPOSES OF COST ESTIMATING AND CONSTRUCTION.
- 5. CUT AND FILL SOIL SHRINKAGE AND EXPANSION HAVE NOT BEEN CONSIDERED AT THIS TIME.



707 17TH STREET, SUITE 3000 DENVER, CO 80202 PHONE: 303-237-6601 WWW.KLEINFELDER.COM

	REVISIONS			
REV	DESCRIPTION	DSN CH	СНК	- DATE
KEV	DESCRIPTION	DWN	APP	
А	ISSUED FOR REVIEW:	ARH	MDI	1/14/20
A	10% CIVIL DESIGN	ARH	CGO	1/14/20
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10% DESIGN NOT FOR CONSTRUCTION

> SCALE VERIFICATION THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING IF IT'S NOT 1 INCH ON THIS

> > SHEET ADJUST YOUR SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 24 x 36

GENERAL NOTES

BIRCH SOLAR PROJECT ALLEN COUNTY, OH AUGLAIZE COUNTY, OH

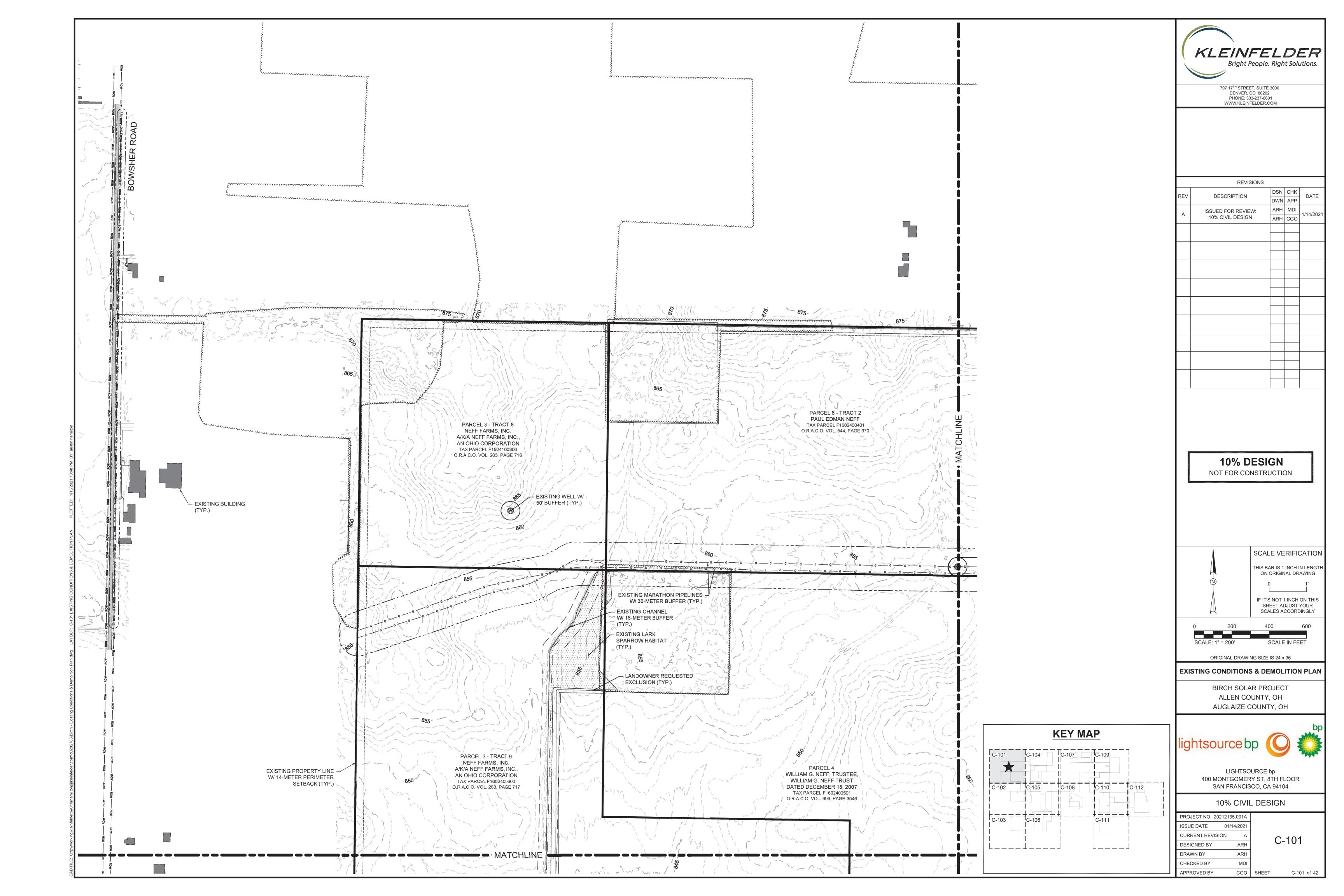


LIGHTSOURCE bp 400 MONTGOMERY ST, 8TH FLOOR SAN FRANCISCO, CA 94104

10% CIVIL DESIGN

PROJECT NO. 20212	135.001A
ISSUE DATE 0	1/14/2021
CURRENT REVISION	А
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DRAWN BY	ARH
CHECKED BY	MDI
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2/17/2021 3:02:48 PM

in

Case No(s). 20-1605-EL-BGN

Summary: Notice - Large Exhibit A, Site Plan (Part 1 of 14) electronically filed by Christine M. T. Pirik on behalf of Birch Solar 1, LLC