10.0 BUFFERS

Buffering between the M-GN zone and the development within the D-CI zone ranges from 0-feet to 1,300 feet. However, substantial wooded buffers exist between the Project area and the parcel boundary and will shield adjacent uses from lighting. A visual impact study has been performed. Please refer to Section 6 - Visual Quality and Scenic Character of this application for specific details.

Water bodies within or adjacent to the Project will be adequately protected from sedimentation and surface runoff by maintaining a minimum 100-foot buffer between the developed area and the West Branch of the Narragugus, Colson Branch and the two unnamed streams within the Project site. Existing roads within the Project will be regraded to reduce runoff and will utilize vegetated buffers for stormwater treatment, meeting stormwater standards. (In addition, 17,400 feet (6.4 acres) of existing road not needed to support the project will be revegetated.) Please refer to Section 12 for specific stormwater buffer details and sedimentation and erosion control for the project.

As proposed, the Project includes undeveloped areas that provide adequate space for wildlife movement between habitats, including:

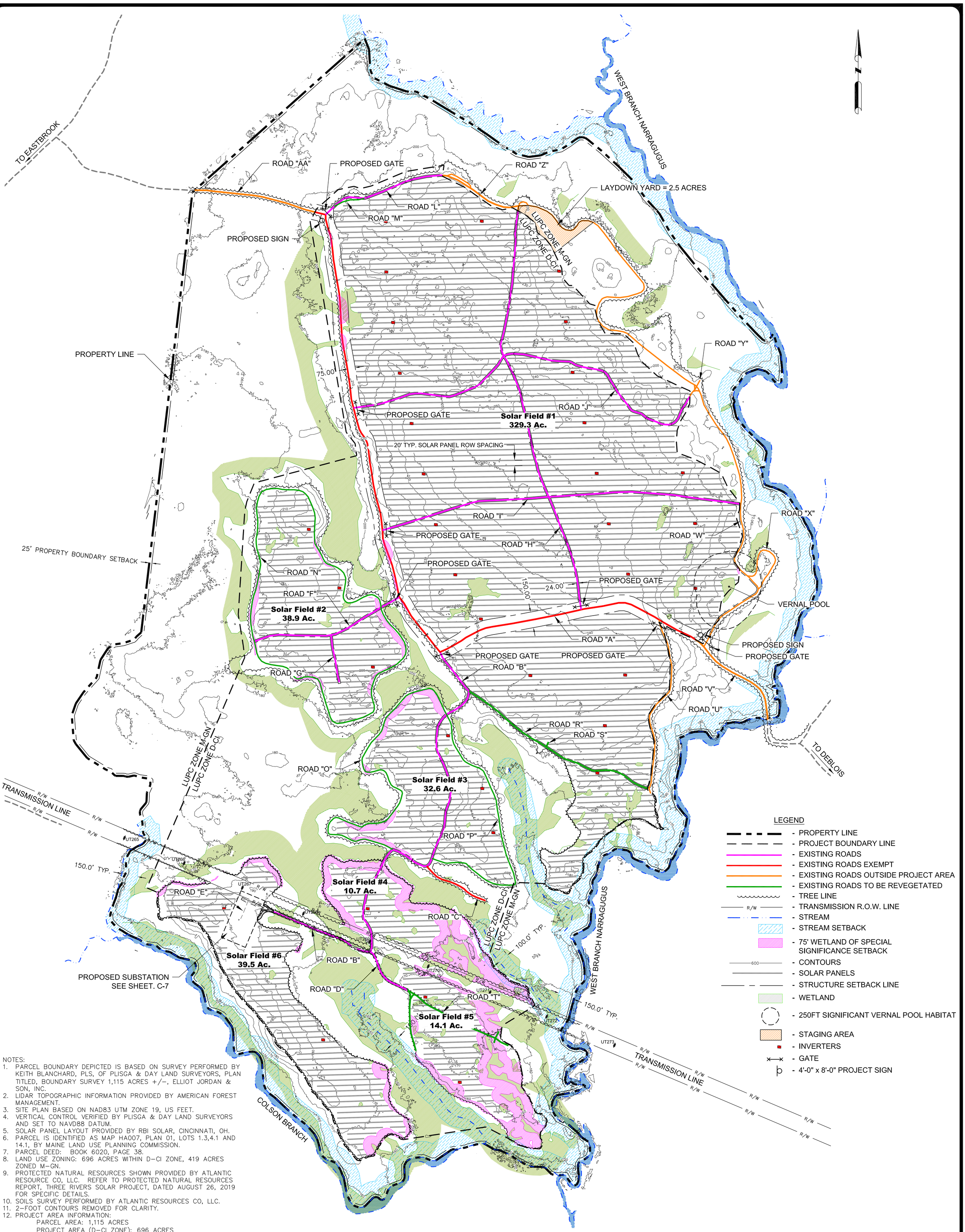
- A 100 foot buffer is maintained along all water bodies.
- Wetlands associated with water bodies will not be disturbed.
- A 75 foot buffer will be maintained along the boundary of areas identified as wetlands of special significance.
- A wooded area surrounding the entire project area ranges from 100 feet to 1,300 feet deep, allowing wildlife to move around the developed area without barrier.

Please refer to Section 7 of this application for detailed discussions on impacts to wildlife and habitat.

Exhibit 10-1 shows the Project site plans.

Exhibit 10-1

Three Rivers Solar Project Site Plan



NOTES:

1. PARCEL BOUNDARY DEPICTED IS BASED ON SURVEY PERFORMED BY KEITH BLANCHARD, PLS, OF PLISGA & DAY LAND SURVEYORS, PLAN TITLED, BOUNDARY SURVEY 1,115 ACRES +/−, ELLIOT JORDAN & SON, INC.
2. LIDAR TOPOGRAPHIC INFORMATION PROVIDED BY AMERICAN FOREST MANAGEMENT.
3. SITE PLAN BASED ON NAD83 UTM ZONE 19, US FEET.
4. VERTICAL CONTROL VERIFIED BY PLISGA & DAY LAND SURVEYORS AND SET TO NAVD88 DATUM.
5. SOLAR PANEL LAYOUT PROVIDED BY RBI SOLAR, CINCINNATI, OH.
6. PARCEL IS IDENTIFIED AS MAP HA007, PLAN 01, LOTS 1.3,4.1 AND 14.1, BY MAINE LAND USE PLANNING COMMISSION.
7. PARCEL DEED: BOOK 6020, PAGE 38.
8. LAND USE ZONING: 696 ACRES WITHIN D−CI ZONE, 419 ACRES ZONED M−GN.
9. PROTECTED NATURAL RESOURCES SHOWN PROVIDED BY ATLANTIC RESOURCE CO, LLC. REFER TO PROTECTED NATURAL RESOURCES REPORT, THREE RIVERS SOLAR PROJECT, DATED AUGUST 26, 2019 FOR SPECIFIC DETAILS.
10. SOILS SURVEY PERFORMED BY ATLANTIC RESOURCES CO, LLC.
11. 2−FOOT CONTOURS REMOVED FOR CLARITY.
12. PROJECT AREA INFORMATION:
    - PARCEL AREA: 1,115 ACRES
    - PROJECT AREA (D−CI ZONE): 696 ACRES
    - DEVELOPED AREA: 9.4 ACRES
    - DISTURBED AREA: 465.1 ACRES
    - IMPERVIOUS AREA: 7.6 ACRES
    - APPROXIMATE AREA OF SOLAR PANELS: 95.5 ACRES
    - LOT COVERAGE INCLUDING SOLAR PANELS: 9%
13. PROVIDE 12"X 18" "CAUTION: SOLAR POWER FACILITY: NO TRESPASSING" SIGNS ALONG PROJECT BOUNDARY, 3−5 FEET ABOVE GROUND NO FURTHER THAN 100−FEET APART. SEE NO TRESPASSING SIGN DETAIL.
14. LIGHTING TWO HOLOPHANE PREDATOR LED FLOOD LIGHTS, UP TO 45,000 LUMENS, MOUNTED 20 TO 35−FEET ABOVE GRADE, SOUTH END OF COLLECTOR SUBSTATION.

LEGEND

- PROPERTY LINE
- PROJECT BOUNDARY LINE
- EXISTING ROADS
- EXISTING ROADS EXEMPT
- EXISTING ROADS OUTSIDE PROJECT AREA
- EXISTING ROADS TO BE REVEGETATED
- TREE LINE
- TRANSMISSION R.O.W. LINE
- STREAM
- STREAM SETBACK
- 75' WETLAND OF SPECIAL SIGNIFICANCE SETBACK
- CONTOURS
- SOLAR PANELS
- STRUCTURE SETBACK LINE
- WETLAND
- 250FT SIGNIFICANT VERNAL POOL HABITAT
- STAGING AREA
- INVERTERS
- GATE
- 4'-0" x 8'-0" PROJECT SIGN

0 400 800 1200

SCALE: 1" = 400'

Do Not Use for Construction
For Regulatory Review Only

STATE OF MAINE — KIRK J. BALL — No. 11681 — LICENSED PROFESSIONAL ENGINEER — 10/8/2019

SWIFT CURRENT

Sheet 3 of 12

Drawing No: C-2

Job Number: 80900

Three Rivers Solar Project

Proposed Conditions Site Plan

Three Rivers Solar
Township 16 MD
Hancock County, ME.

ACHERON ENGINEERING SERVICES
Engineering, Environmental & Geologic Consultants
www.AcheronEngineering.com
147 Main St. *Newport, ME. 04953* *(207)-368-5700*
24466 Powell Rd. *Brooksville, Fl. 34602* *(352)-796-6236*
Acheron International, Inc.

Drwn By: BPG
Desg By: BPG / KJB
Chkd By: KJB
Aprvd By: KJB
Date: 10/8/2019

No.	Revision Description	Drwn	Chk'd	Date
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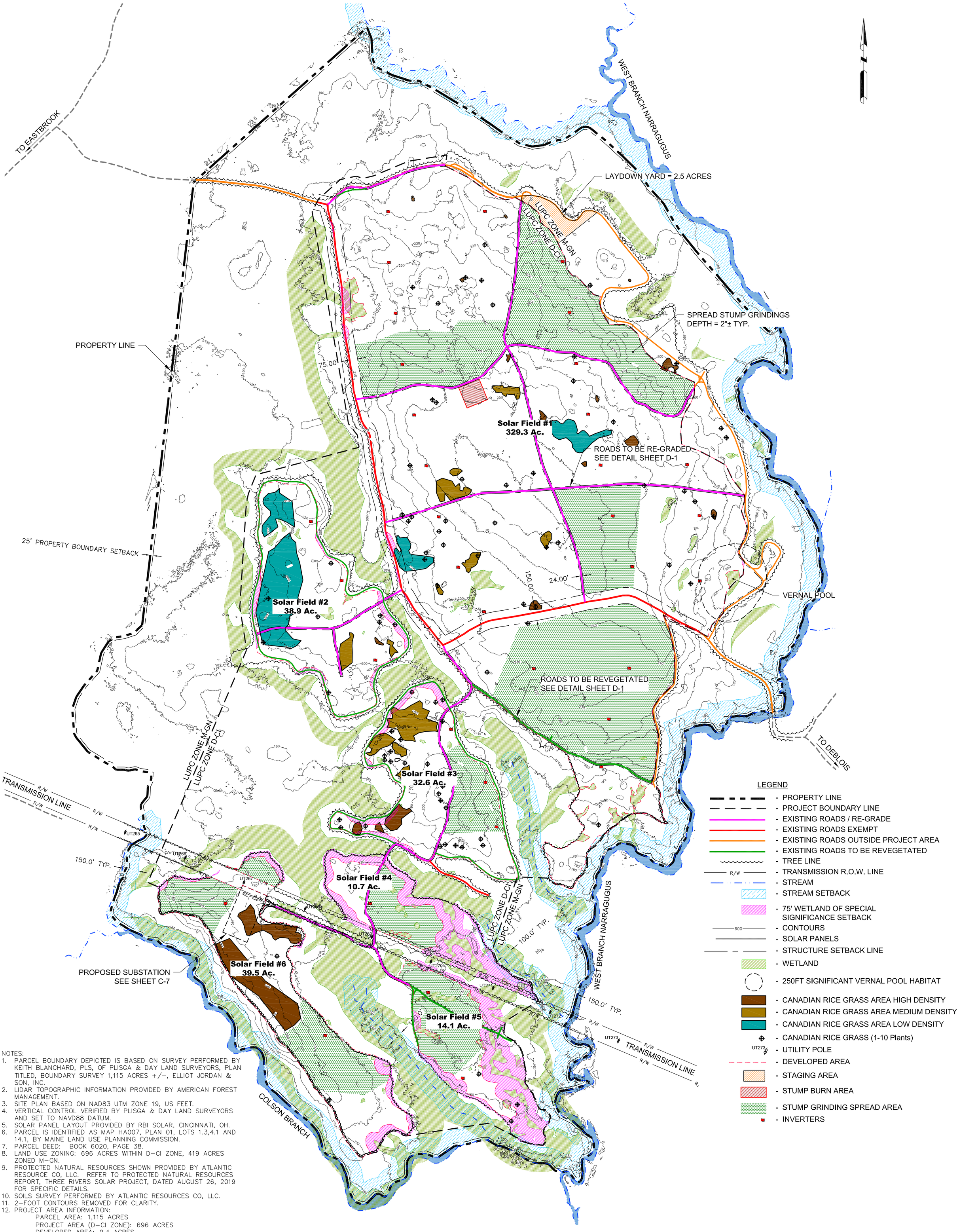

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STATE OF MAINE
KIRK J. BALL
No. 11681
LICENSED PROFESSIONAL ENGINEER
10.8.2019

SWIFT CURRENT

Drawing No: C-3
Sheet 4 of 12

Job Number: 80900

Three Rivers Solar Project

Proposed Conditions without Solar Panels

Three Rivers Solar
Township 16 MD
Hancock County, ME.

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Acheron International, Inc.

Drwn By: BPG
Desg By: BPG / KJB
Chkd By: KJB
Aprvd By: KJB
Date: 10/8/2019

No.	Revision Description	Drwn	Chk'd	Date
-	-	-	-	-