ATTACHMENT 7: CONSTRUCTION PLAN

A. Construction Plan

Prior to the start of construction, an environmental monitor will be employed by the Applicant. The environmental monitor will advise the construction team on avoiding disturbance to water resources and other natural resources within the Project area during construction. The environmental monitor may be a qualified Professional Wetland Scientist, who also is a Certified Professional in Erosion and Sediment Control, or someone with demonstrated experience as an environmental monitor on construction sites.

Below is a list of approaches that may be implemented during construction to prevent soil disturbance, limit impacts to wetlands, and provide the construction team with the tools they need to effectively build this Project while staying within the requirements of the permits received:

- Clearing will occur during the winter under frozen conditions to reduce the amount of soil disturbance that could occur from construction equipment;
- Additionally, construction swamp mats will be used as needed to reduce soil disturbance;
- Low ground pressure tracked construction equipment will be used as needed in wetland areas to prevent rutting and minimize soil disturbance; and
- Best management practices for erosion and sediment control will be implemented, including possible stoppage or delay of work for rain events, regularly checks of erosion control barriers, and proactively adjusting erosion and sediment controls throughout construction.

Construction of the Project is expected to begin as early as October 2022, pending the issuance of a Final Permit from MDEP, and is expected to be completed prior to December 2024. The following narrative provides a general overview of the construction sequence; however, adjustments may be implemented, as necessary, to account for weather and environmental conditions.

The Project will be accessed via Stream Road and Chase Pond Road, as well as a network of existing logging roads. Construction will primarily be sequential, with multiple construction-related activities expected to be ongoing concurrently.

Once the site or portions of the site have been cleared, such areas will be grubbed, and earthwork completed to build crane paths and pads. When an area has sufficient roads and pads built to accommodate foundation construction, foundations will be built in place with concrete delivered from a redi-mix concrete plant.

Concurrently to earthwork and foundation installations, the electrical system will be installed. Underground collection systems along turbine strings will be constructed in conjunction with the earthwork activities in those areas. Underground collection lines located along existing access roads, as well as the overhead collection system, will be constructed at a time that accommodates the overall Project schedule.

Turbines will be delivered to the site and may be temporarily staged at a laydown area adjacent to the O&M building or delivered directly to the turbine pads. Whether turbines are staged or delivered directly to turbine pads will depend on the final construction and component delivery schedules. Any laydown area needed for the Project will be in place for less than 12 consecutive months and all disturbed area will be returned to original grade and vegetative cover upon completion of construction. Turbine erection will generally proceed linearly, but this also will be dependent upon the final construction schedule. Components will be erected by several crews, with each crew focusing on certain components (i.e., one crew for lower level components and other crews focusing on mid- and high-level components). As individual turbines are completed, internal electrical work will occur.

Substation construction will occur concurrently with other work on the site. The site will be prepared to provide sub-grade for foundation construction. Foundations will be constructed either as pre-cast foundations delivered to the site or foundations cast on-site with concrete from a redi-mix plant (or combination of both). Once foundations are constructed, structural steel will be installed to support substation components. Other control buildings in the substation, as needed, will either be constructed on-site or prefabricated and delivered. If necessary, the substation will be energized for back feeding the site collection system and the turbines for final testing and commissioning. A perimeter safety fence will be installed prior to energization of the substation.

O&M building renovation will occur concurrently with other site work. The site will be prepared to provide all necessary gravel parking and storage areas. There will be no physical expansion to the existing building. The construction of a new subsurface wastewater system will occur concurrently with other work on the site.

Construction is anticipated to take approximately 1 year. The proposed construction schedule for the Project is provided below in Table 7-1.

Table 7-1 Proposed Construction Schedule.

Task	Timeframe
Preliminary layout and staking of new road segments, turbine clearings, and laydown areas	Weeks 1–2
Install erosion control measures in areas to be disturbed	Weeks 2–4
Clearing for roads, collection system, turbines, and laydown areas	Weeks 4–8
Grubbing and initial grading for roads, turbines, and laydown areas	Weeks 8–16
Blasting (as needed) and on-site stockpiling of reusable blasted bedrock	Weeks 16–24
Hauling and stockpiling of aggregate from local borrow pits	Weeks 16–24
Construct turbine foundations and Substation transformer pads	Weeks 20–34
Construction of radar-assisted lighting towers	Weeks 20–45
Underground trench/conduit work	Weeks 22–30
Final grading of roads and turbine areas	Weeks 24–32
Turbine delivery, assemble rotors, erect towers, lift nacelles and rotor assemblies, construct aboveground and underground collection systems, permanent met towers	Weeks 26–34
Install transformers and activate turbines	Weeks 28–36
Commission and test wind turbine generators and electrical interconnections	Weeks 36–40
Remove temporary erosion and sedimentation control measures upon final site stabilization and reseeding	Weeks 36–40
Begin commercial operation	Week 40