

Lighting Plan

Front Range-Midway Solar Project

Introduction

The Front Range-Midway Solar Project (Project) is a proposed photovoltaic solar facility located approximately 9 miles south of the City of Fountain, El Paso County, Colorado. The Project is located on Rancho Colorado Boulevard, approximately 0.5 mi. west of Interstate 25. The Project consists of a 100.2 MW photovoltaic solar array, a substation, energy storage, an operations and maintenance (O&M) building, a transmission line connecting the Project with either an existing, adjacent Public Service Company of Colorado (PSCo) or Western Area Power Administration (WAPA) substation, a meteorological station, up to 50 inverters, site access roads, and other necessary ancillary features. The proposed Project would encompass approximately 939 acres.

All project lighting would be positioned to downcast and would be used only during specific construction activities and maintenance activities during operation. The proposed lighting would result in 0.1 lumen or less at Project property lines, both during limited nighttime construction activities and Project maintenance during operations. Temporary and permanent lighting would be installed in a manner compliant with Chapter 6 of the El Paso County Land Development Code and regulations of the Occupational Health and Safety Administration and other applicable codes, standards, laws and regulations.

Temporary Construction Lighting

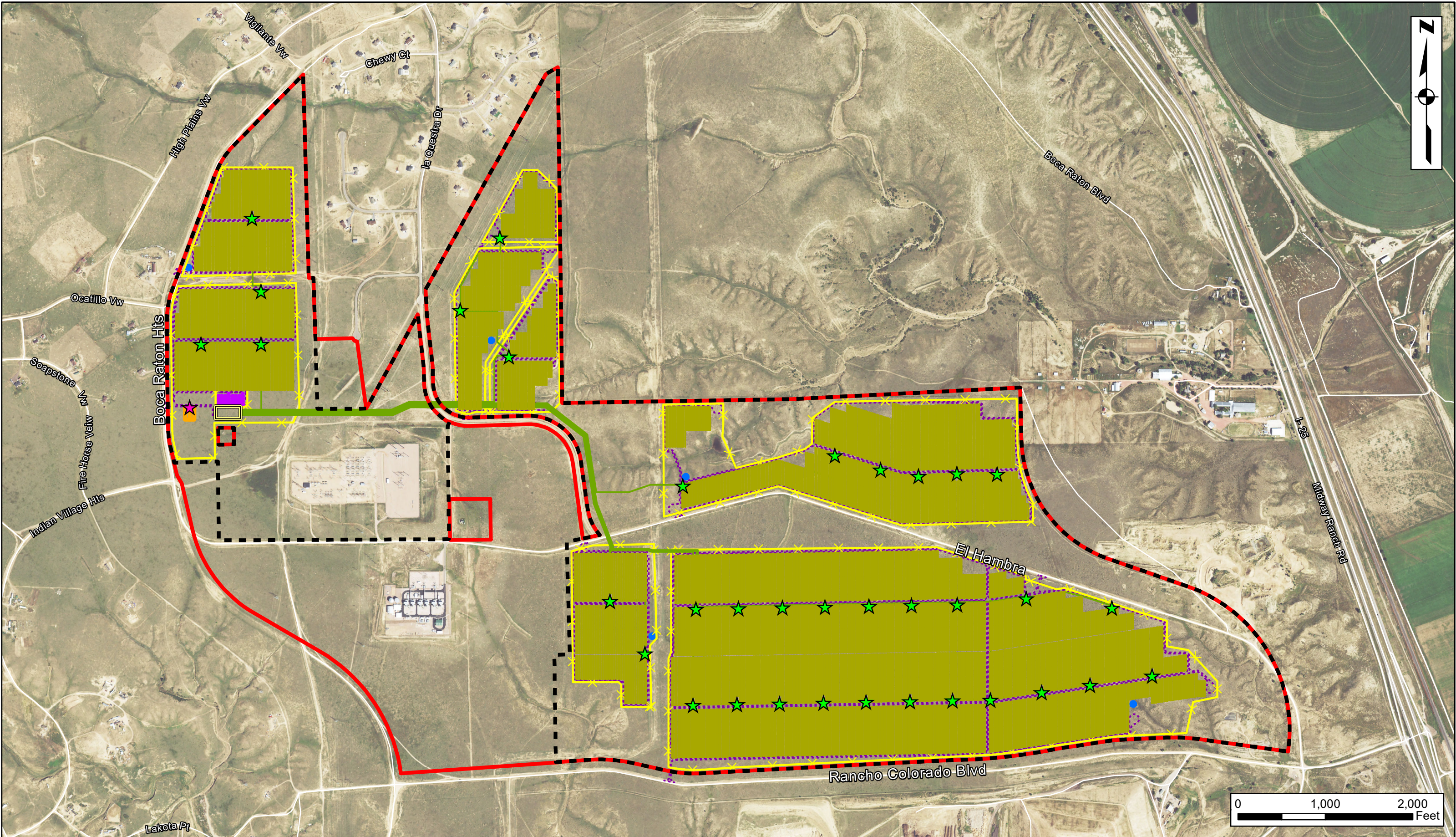
Temporary lighting will be used during construction only when necessary and likely used at the inverters if construction activities are delayed past sunset; up to 50 inverters are proposed for the Project (see Lighting Plan map). If required during construction, temporary lighting would be positioned and/or shielded from oncoming traffic and residences in the vicinity of the Project, as necessary. Cutoff-type luminaires would be used where possible. Individual light sources would not exceed 150,000 lumens per light source (typical of a 1250W metal halide light) and would project 0.1 lumen or less at Project property lines. Light standards would not exceed 24 feet in height. Generators used to power light sources would not exceed 70 dB at 25 feet from the source.

Project Lighting for Operations

Project lighting would be installed at the O&M building, motion-sensored, and downcast (see Lighting Plan map). Project lighting serves as a deterrent to trespass, vandalism and theft as well as an aid in monitoring the facility. Motion sensor triggers would allow lights to turn on for 20 minutes before shutting off. If emergency maintenance is needed during nighttime hours, the same type of portable temporary lighting used during construction would be used during such emergency maintenance activities.

Interconnection

The above ground portion of the interconnection to the existing, adjacent PSCo or WAPA substation will not have permanent lighting installed. Only if nighttime maintenance is warranted would portable temporary lighting be used.



- | | | |
|-------------------------------|--------------------------|---------------------------------|
| FRMW WSE-O Plan Boundary | Proposed Collection Line | Permanent Lighting |
| WSEO-17-001 District Boundary | Proposed Fencing | Temporary Construction Lighting |
| Proposed Substation | Proposed MET Unit | |
| Proposed Solar Array | Proposed O&M Building | |
| Proposed Battery Storage | Proposed Access Road | |

Front Range Midway Solar Project

Lighting Plan

El Paso County, Colorado



CORE
CONSULTANTS

CIVIL ENGINEERING
DEVELOPMENT CONSULTING
NATURAL RESOURCES CONSULTING
LAND SURVEYING

303.703.4444
1950 W. Littleton Blvd., Ste. 109
Littleton, CO 80120

CORE Project #: 19-177

Date: 6/17/2020