Solar at Doolittle Landfill

October 13, 2020
Alameda Municipal Power,
A Department of the City of Alameda

ALAMEDA MUNICIPAL POWER
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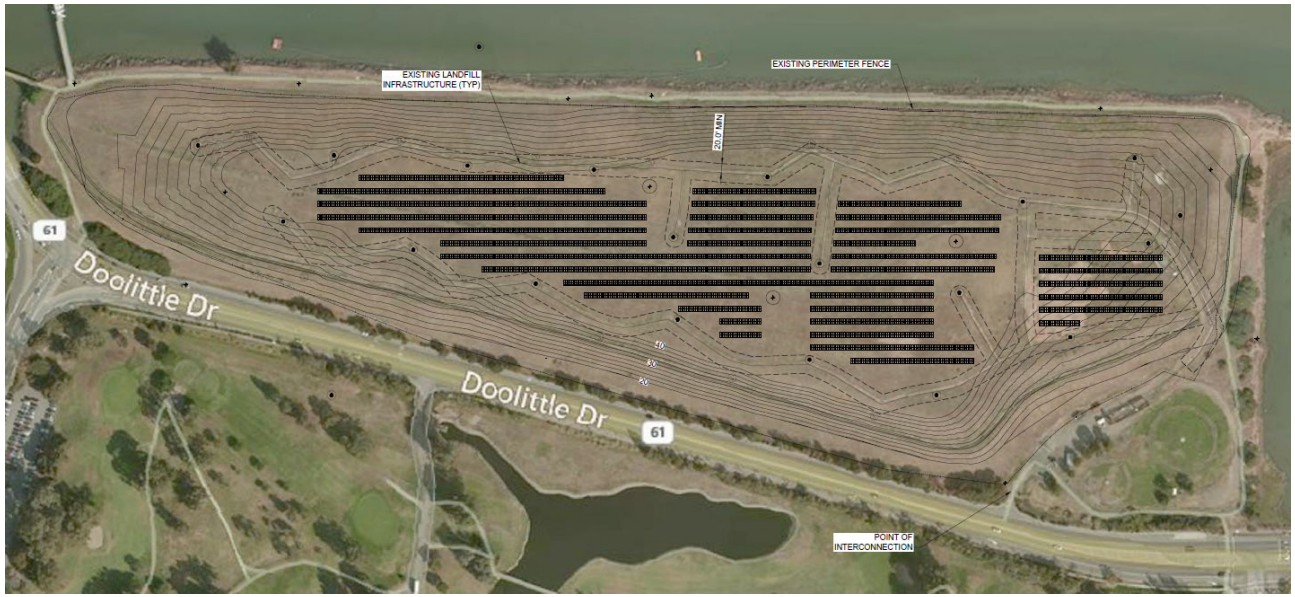
Overview

- 2MW solar installation
- Proposed panel layout on 11 acres of flat land on top of Doolittle Landfill



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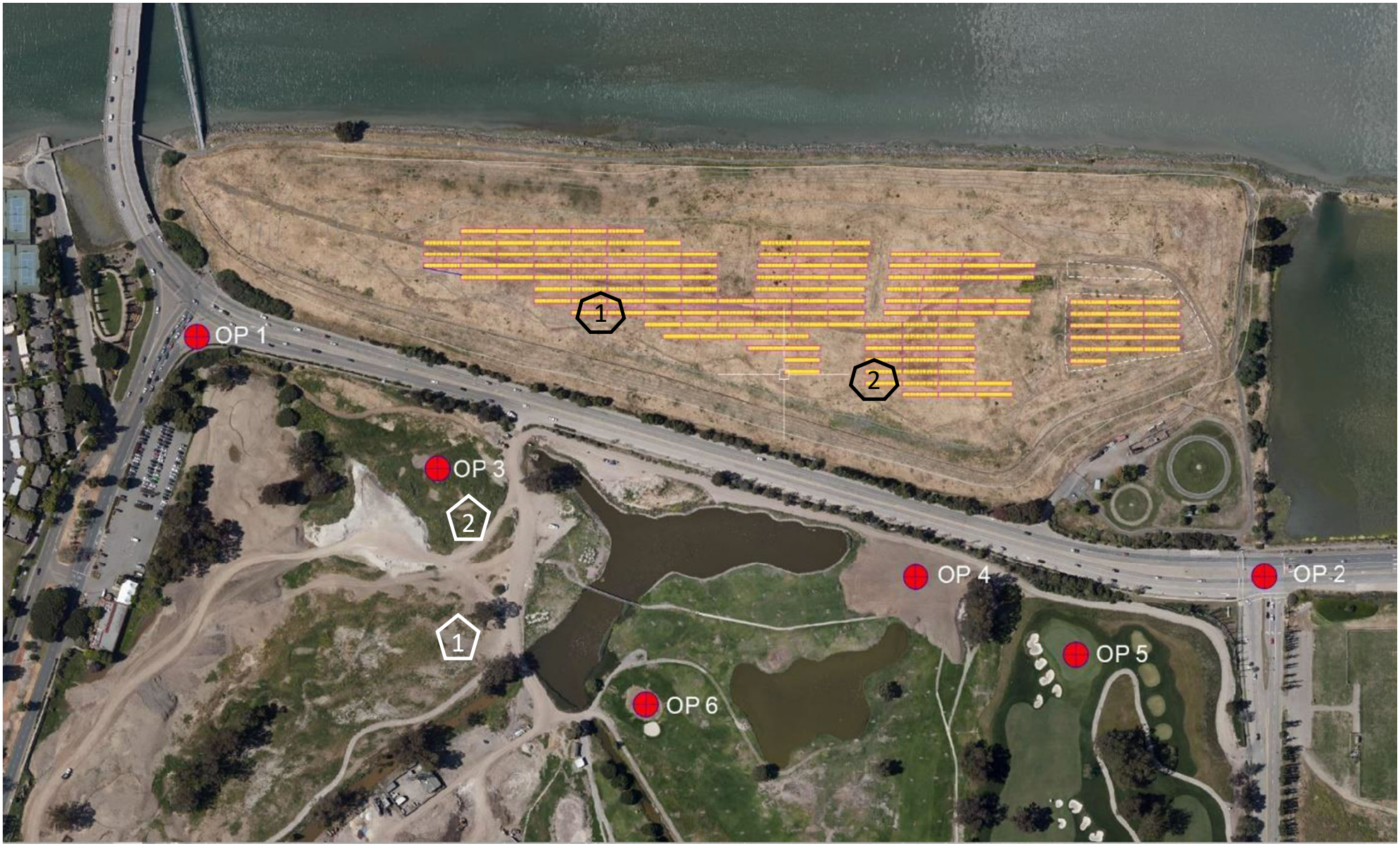
Alameda Municipal Power (AMP)

- High visibility renewable project in our community will reaffirm the City's commitment to its climate goals
- AMP's Strategic Plan
  - AMP will deliver and maintain 100 percent carbon-neutral energy resources by 2020 and beyond.
  - Evaluate local solar resources.
- City's Climate Action and Resiliency Plan
  - AMP's 100% zero carbon pledge is central to many proposals within the plan to reduce emissions.

Local Benefits

- The first solar project and the first “on island” renewable energy project in AMP’s portfolio.
- $1 million dollars in fair market lease value, at Council’s discretion, will go towards upgrades for the surrounding bike trail and a fund to remediate the area so a park can ultimately be developed.
  - $200,000 up front to renovate the bike trail around Doolittle Landfill with $40,000/year annual rent payments that will go to a remediation fund for the final park.


OP 1
OP 3
OP 4
OP 2
OP 5
OP 6
1
2
2
1

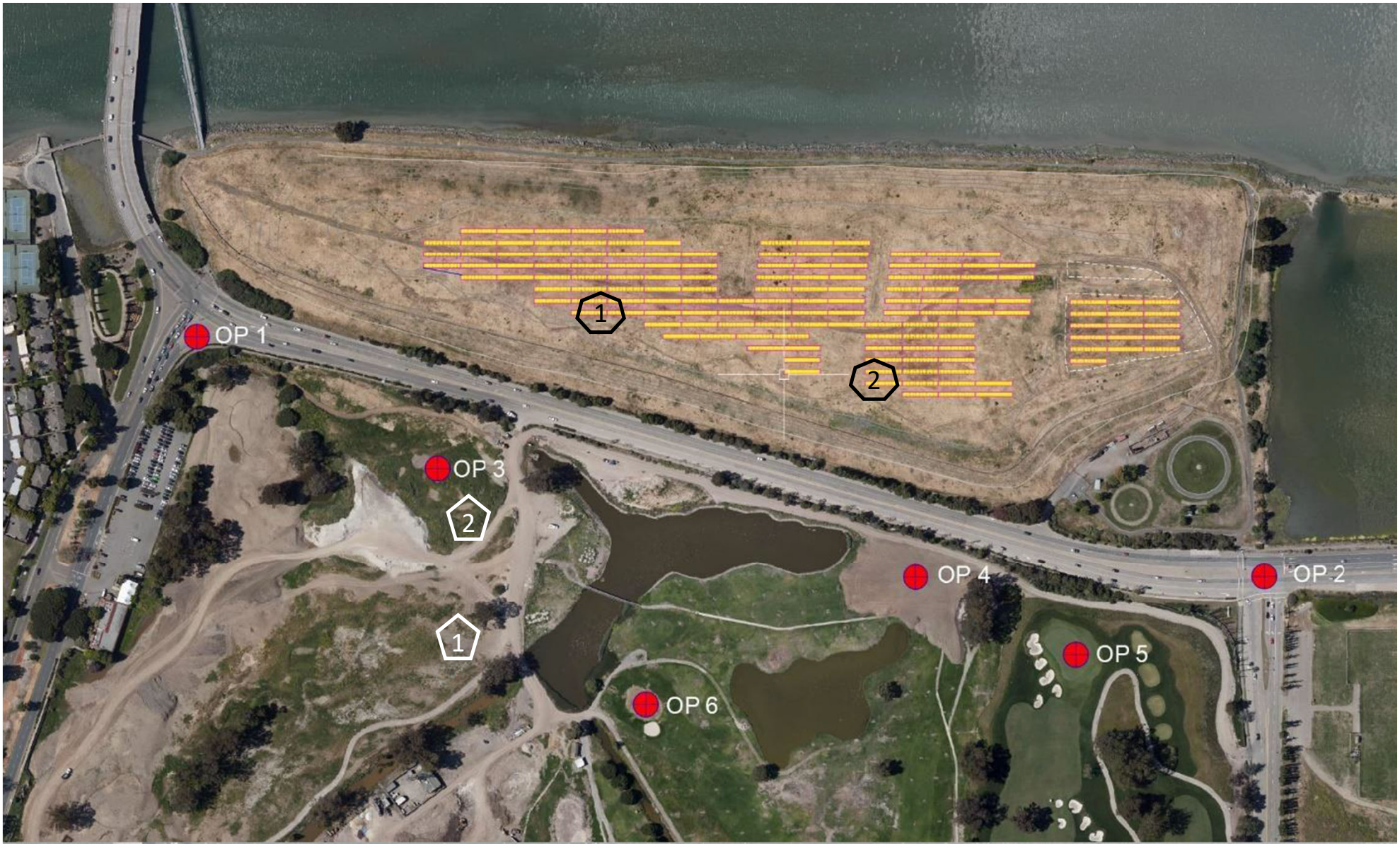

1
Original View


1
Rendering


2
Original View

2

Rendering

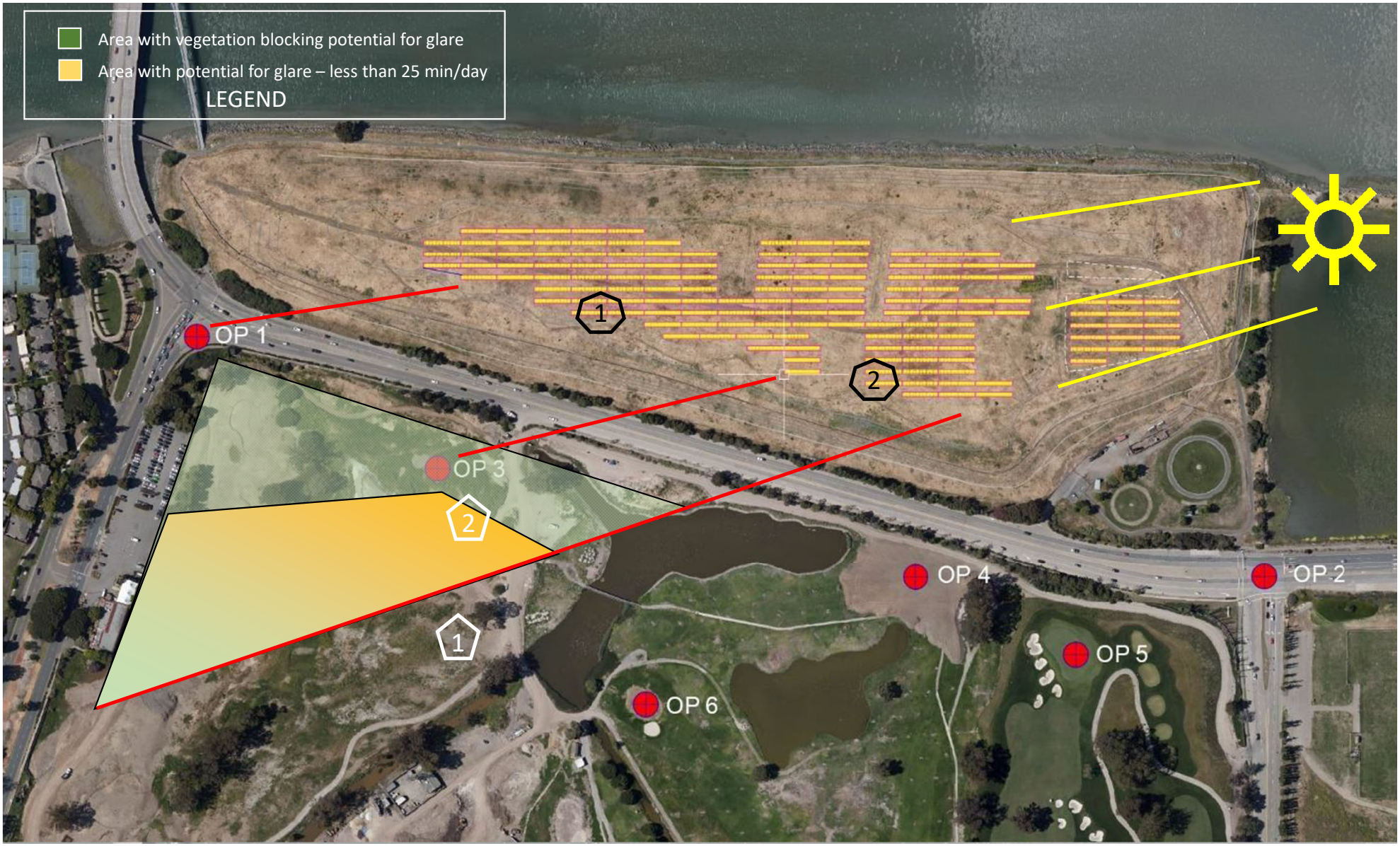

OP 1
OP 3
OP 4
OP 2
OP 5
OP 6
1
2
2
1

1

Pole

2

Pole


Area with vegetation blocking potential for glare
Area with potential for glare – less than 25 min/day
LEGEND
OP 1
OP 2
OP 3
OP 4
OP 5
OP 6
1
2
2
1

Study Results Summary

Observation Point	Results Summary
OP. 3	Based on the line-of-sight and view angle analysis in Section 3.3, potential glare from the Project will not notably impact observers near OP. 3 and is notably obstructed by existing mature vegetation.
OP. 4	No glare determined at OP from geometric analysis.
OP. 5	No glare determined at OP from geometric analysis.
OP.6	No glare determined at OP from geometric analysis.

Mitigations that Further Reduce Glare

- Mature trees along the northern fence block a substantial portion of the view of the panels in the areas where glare is possible.
- During the early morning summer hours the sun sits low in the sky in the same direction as glare from the panels and is more of a visual concern. The sun contributes 200x more energy into your eye than any potential glare.
- All glare is not created equal. Solar PV panels are designed to collect solar irradiance, not reflect. Panels reflect much less light than mirrors or water.
- Most Alameda mornings have substantial cloud cover.

South Shore Sunset

An example of the sun reflecting off the water when the sun is low in the sky.

On early summer mornings, for less than 25 minutes, there will be some glare from the panels similar to, but less than, reflection from the water. Directly looking in line with the sun is more likely to make a person look away than the reflection below it.

Contact Information

Questions and comments?

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