

2021 TECHNICAL MEETING & TRADE SHOW

December 3-6, 2021 • Hyatt Regency Grand Cypress • Orlando, FL

Multi-Use Field Design

Presenters:

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Presentation Outline

- Introductions
- Learning Outcomes
- Owner Expectations
- Layout & Design Considerations
- Safety Zone Requirements
- Field Fencing, Netting and Containment
- Equipment Storage and Access
- Lighting Requirements
- Group Discussion



Learning Outcomes

“Participants will obtain information on the goals, objectives and programmatic requirements of a multi-use field; will understand the influence of multiple sports in a layout design and managing the requirements of each sport and learn surfacing preferences for various sports.

Participants will also learn of the safety zone and boundary considerations required when designing a multi-use field, learn of fencing and ball containment netting systems, and learn of various lighting requirements for multi-use field facilities.

Equipment storage design considerations to allow ease of storage and set-up and maintenance considerations to maximum facility performance will also be presented.”

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Owner Expectations

- What do they anticipate for the finished project
- How will the Owners Program and Use the site
- How to deal with potential issues and conflicts in the design process (Storage)
- How will they deal with maintenance
- How will they coordinate storage and equipment needs
- How will they enforce safety standards



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Facility Layout

- Field Layout & Overlays
- Safety Zones – Overplay Areas
- Accessibility
- Athlete Experience
- Spectator Experience



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Athletic Program Options

Type of Sport

- Baseball/Softball
- Soccer
- Football
- Youth sports
- Men's/Women's/Unified Lacrosse
- Rugby
- Field hockey
- Practice/warm-up areas
- Cricket

Level of Play Per Sport

- Recreational or competitive facility
- Uniform or multiple sports-specific surfaces



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Sample Program for a Recreational & Competitive Field

- Create a recreational facility for baseball, softball, soccer, youth soccer, football, rugby, volleyball, and warm-up areas with the confines of the site
- Protect surrounding roads and sidewalk with tall fencing
- Add restrooms and maintenance building
- Provide seating and storage areas for equipment and portable mounds
- Integrate emergency vehicle and maintenance roadInstall sports lighting for night use and security



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Sample Program for a Competitive Field

- Create a competitive high school facility with youth sports and recreational elements
- Protect parking lot, residential area, playground, and trail users
- Integrate a portable fence system with storage areas
- Install a batting cage and bullpen combination for baseball and softball
- Add spectator seating areas



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Additional Layouts



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Additional Layouts



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Thoughts?

- Field Layout & Overlays
- Safety Zones – Overplay Areas
- Accessibility
- Athlete Experience
- Spectator Experience



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Field Surfacing

Uniform or sports-specific turf

- Uniform type and height
- Mix of synthetic turf type and height
- Mix of synthetic turf and natural turf/infield fines/pitcher's mound

Turf color

- Uniform color preferred for multi-use fields
- Line color and hierarchy by sport



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Recreational & Competitive Field



Recreational Facility
Uniform Turf Type

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Competitive Field



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Fencing & Padding

- Materials
- Height & Length
- Netting vs. Fencing



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Outfield Fencing

- Materials
 - Portable vs. Seasonal
- Storage
- Removal, Storage and Installation Ease
- Seasonal, Weekly or Daily Use



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Other Outfield Fencing Versions



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Netting Systems

- Materials
- Permanent
- Retractable
- Climate Issues – Wind, Ice, Weather
- Baseball Field & Spectator Areas
- Lacrosse Protective Netting



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Netting Trends

Trend Towards Less Fencing

- Tall fencing or netting where needed for safety or limiting access only
- Creates a more welcoming facility
- Costs less to build, maintain, and replace



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Safety Factors & Netting

Site context

- Safety concerns
- Nearby roads or homes

Program

- Type of sports being played
- Level of play
- Fencing heights and locations
- Spacing between sports
- Location of seating areas



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Safety Factors & People

Player Safety

- Fencing or netting reflective of the needs of each sport
- Pole and wall padding
- Protected player seating areas
- Drinking fountains, bottle fillers, and shade to protect from the heat

Spectator Safety

- Fencing or netting considerate of spectators and site context
- Designated seating areas



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Recreational & Competitive Field



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Competitive Field



Equipment and Support Facilities

Field Equipment

- Portable Fencing
- Football uprights
- Goals
- Foul poles
- Corner flags
- Portable mounds
- Portable backstops

Support Facilities

- Facility maintenance
- Storage
- Restrooms
- Concessions
- Sports lighting
- Spectator seating

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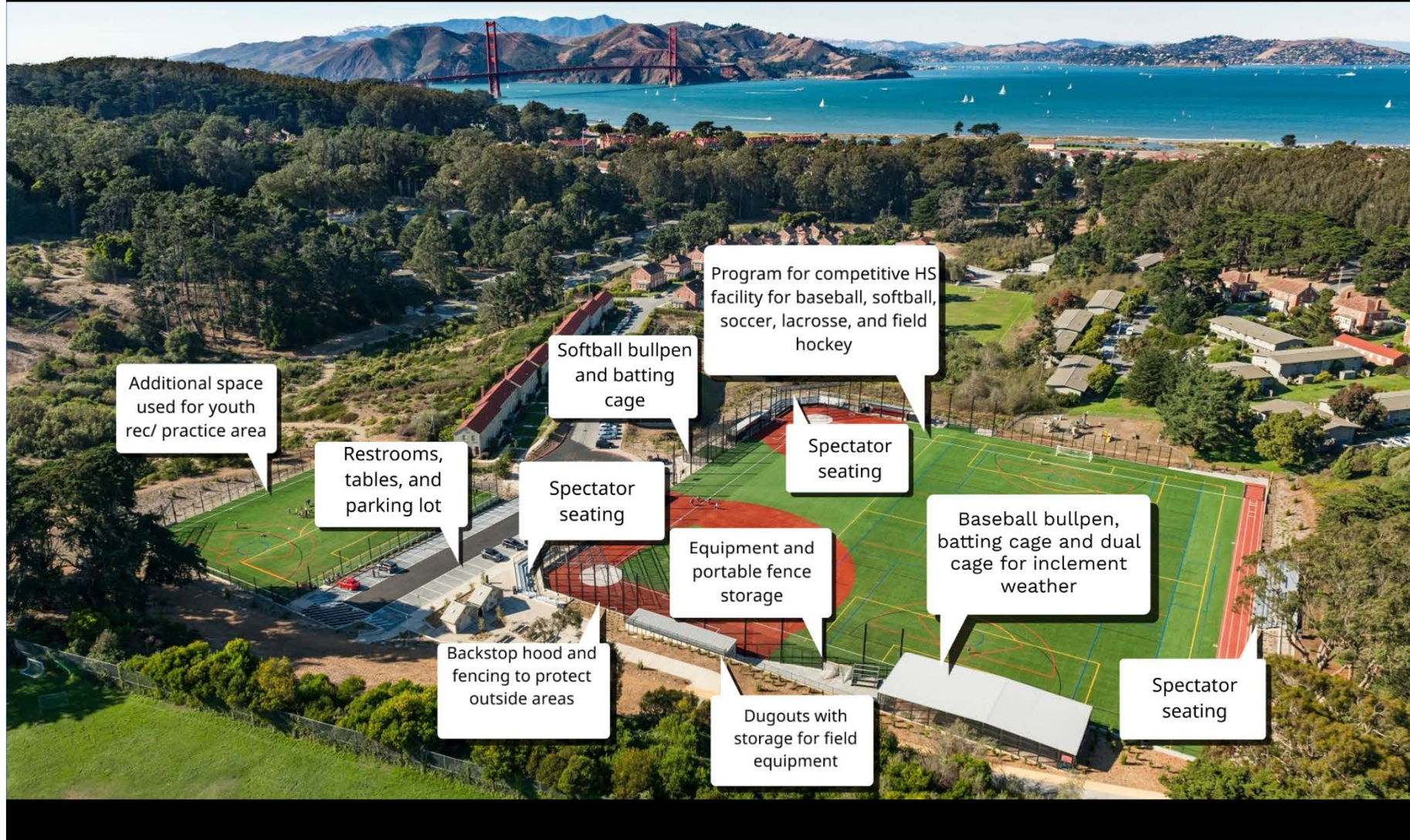
Recreational & Competitive Field



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Competitive Field



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Lighting

Lighting Guidelines

- Lighting based on highest need sport
- Two-tier sports/egress lighting
- Efficient LED lighting

Operations

- Continuous, Timed, or Motion-Activated Lighting
- Site and Parking Lighting



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Procurement

- Performance specification
- Sole source
- Direct purchase



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Budget Implications

- Construction
- Maintenance
- Replacement & Repairs
- Potential Revenue Generators



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Determining Field Uses & Compatibility

- Questions to be answered early on:
 - What sport(s) will be played on the field?
 - What is level of play? (Recreational, NFHS, NCAA)
 - What are the community's expectations for field availability?
 - How will spectator access and seating be provided?
 - How well is the multi-purpose field going to be maintained?
 - What illumination levels will be provided for each sport?
 - What is the available budget?



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Case Study



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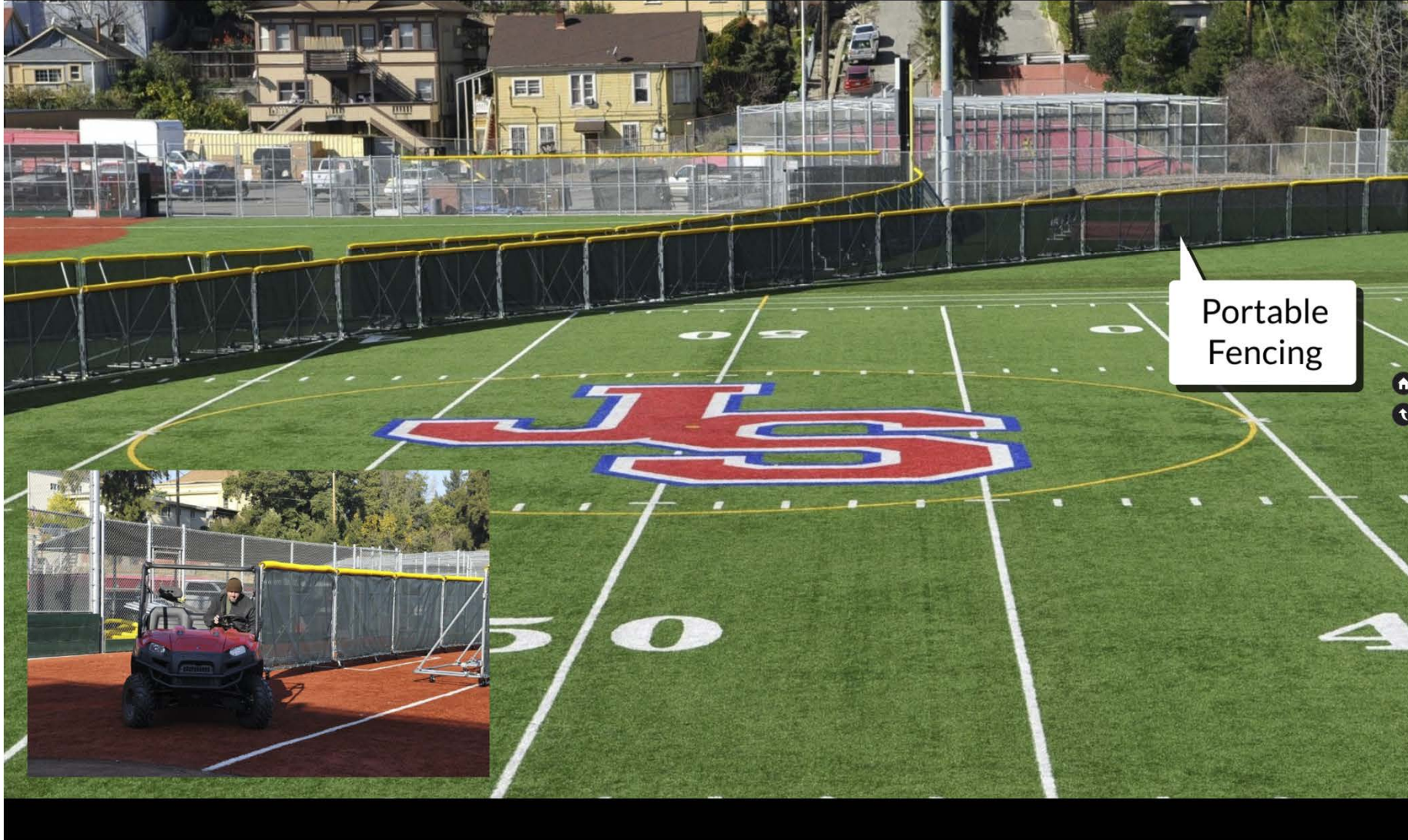
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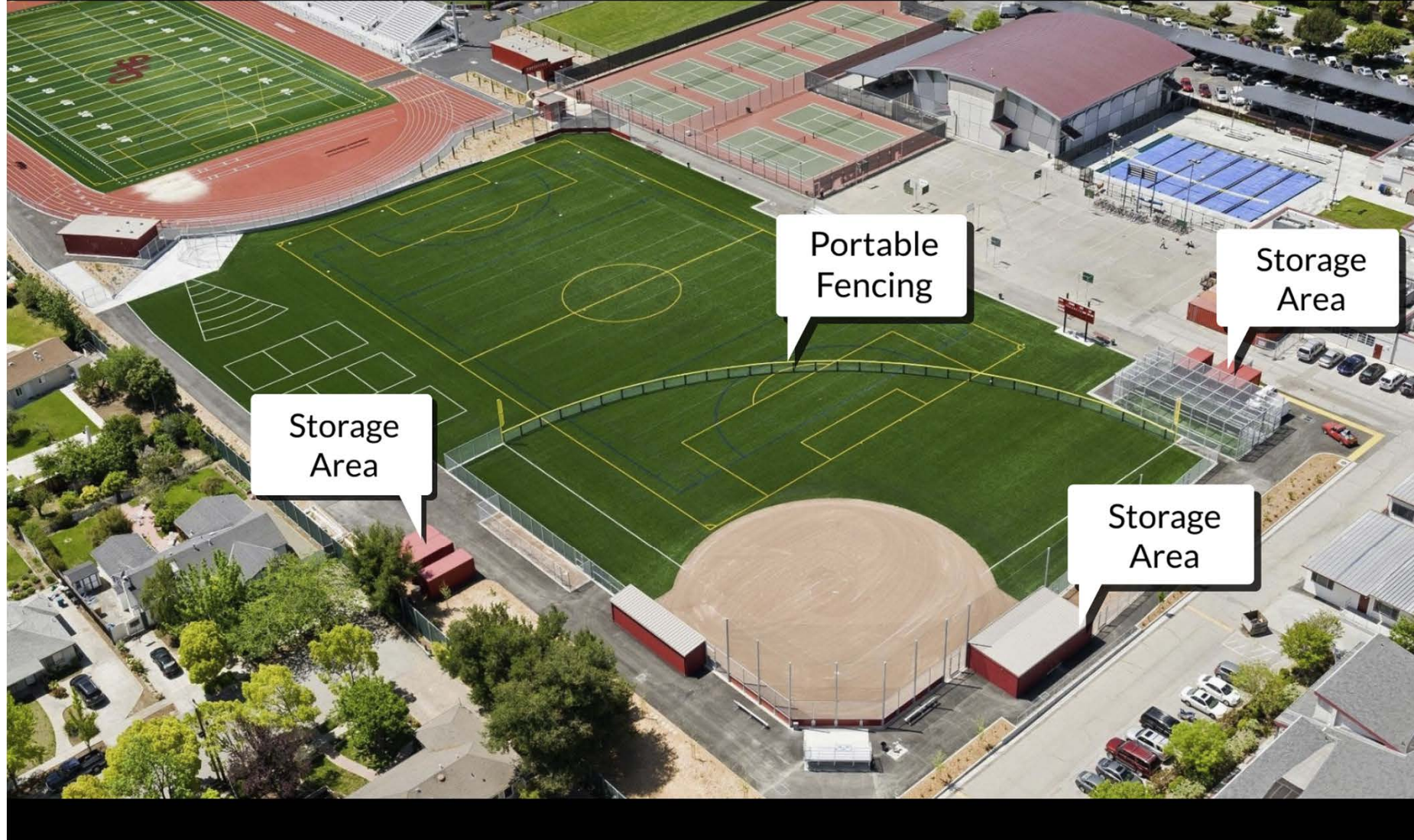
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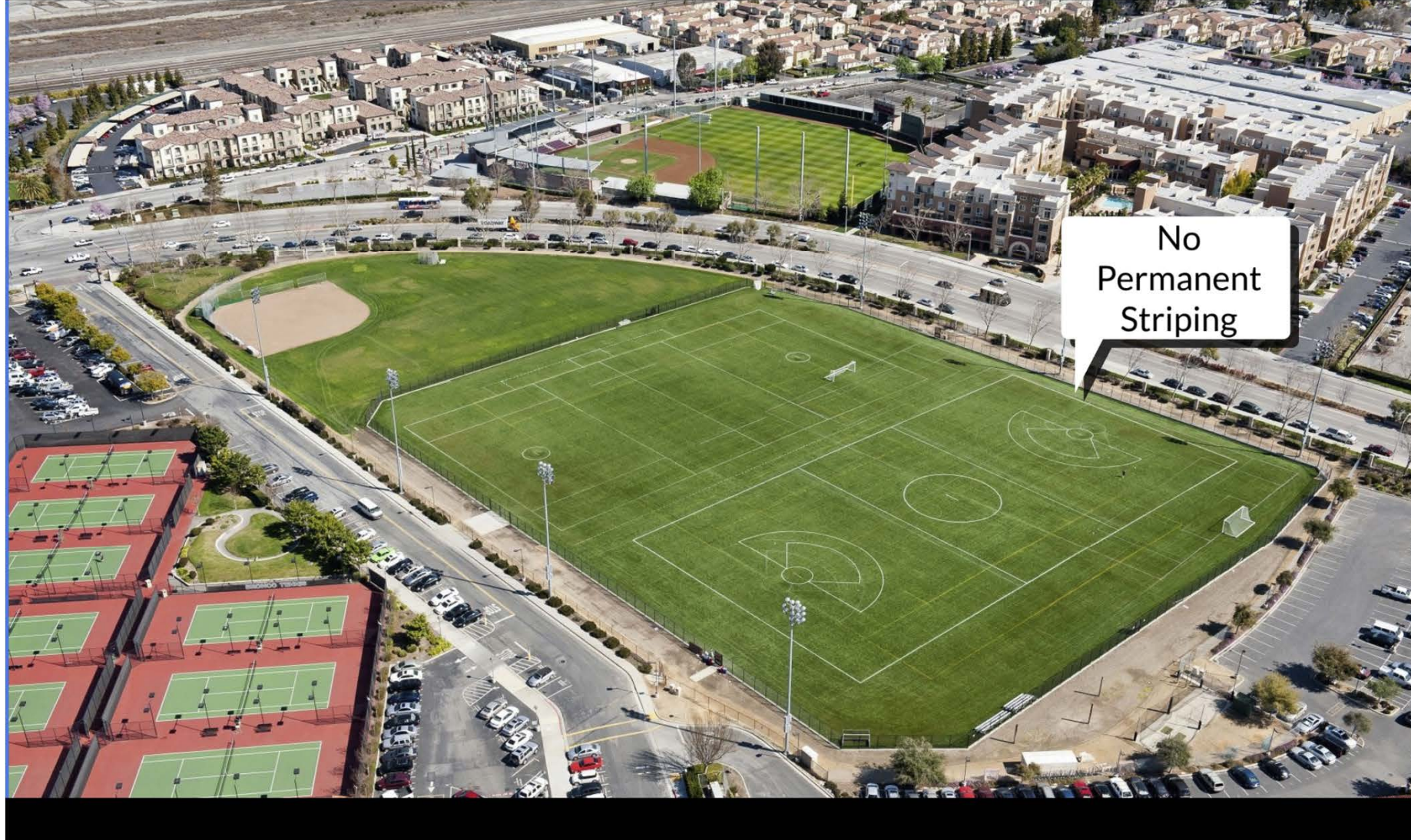
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Questions?

