



Community Meeting Windermere HS Stadium

August 23, 2023



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Windermere HS Stadium

Meeting Agenda

August 23, 2023, 6:00 PM

- Welcome – School Board Member Pam Gould
- Introductions – Andy Orrell, OCPS Communications
- Project Update:
 - OCPS Facilities: Jad Brewer
 - Architect: Patrick Rauch, AIA **SCHENKELSHULTZ**
■■■■ ARCHITECTURE ■■■■
 - Lighting Designer: Bob DeCouto, MUSCO Lighting
- Questions and Answers
- Adjournment



Welcome Message

From District 4 School Board Member

Pam Gould



History

2006

- OCPS completes acquisition of high school property

2015

- OCPS & County reach settlement agreement which establishes that the football stadium will be located at Deputy Scott Pine Community Park

2017/18

- New Windermere High School and Deputy Scott Pine Community Park open with all football games played at Deputy Scott Pine Community Park



Current Situation

Windermere HS

- Track and field with limited/minimal field lighting (40' tall poles) and NO seating.
- 860 on-site paved parking spaces
- Traffic signals at two main vehicular entry points



Current Situation

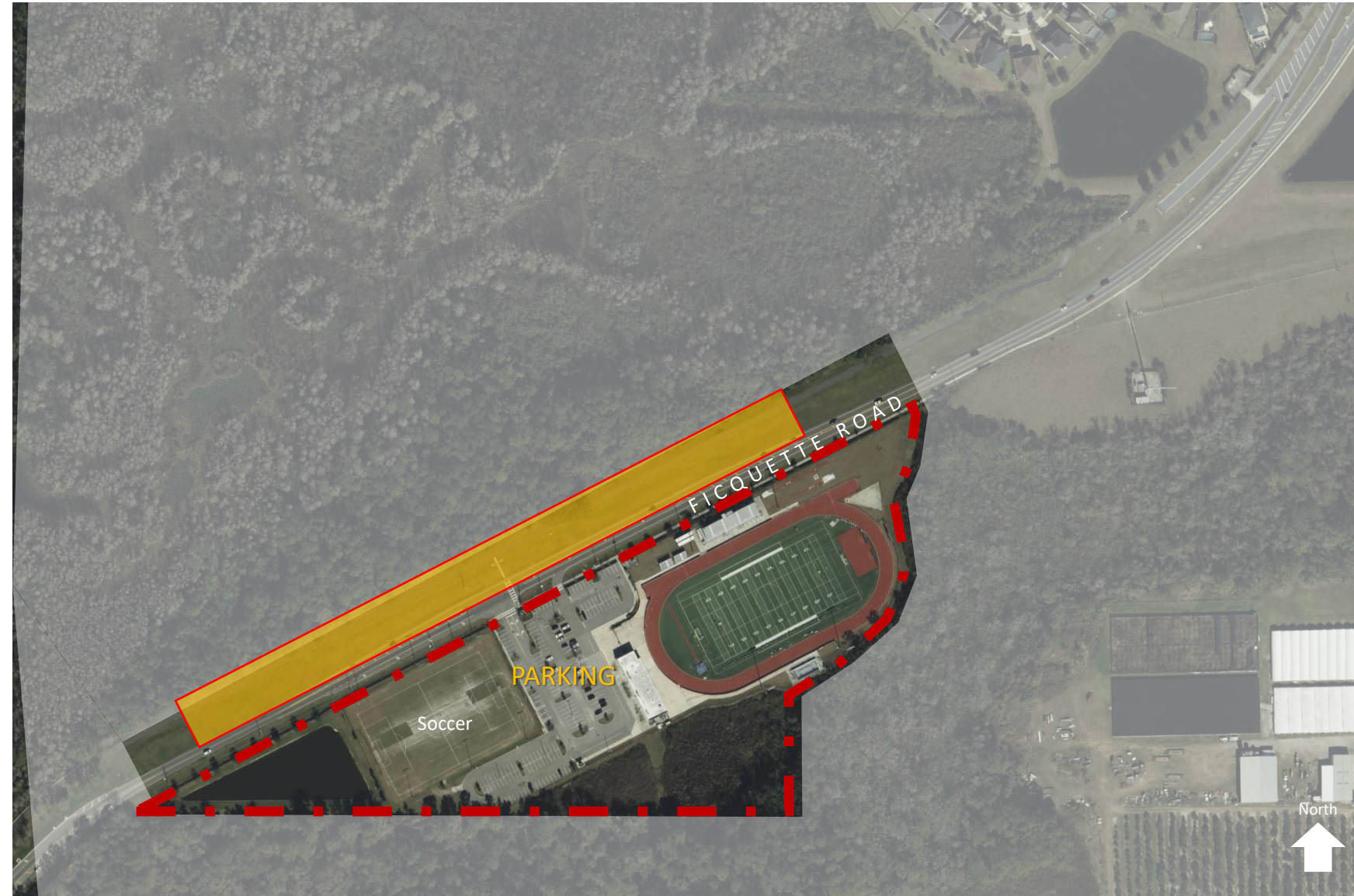
Deputy Scott Pine Community Park

- Competition track and field with:
 - Full sports field lighting (80' poles)
 - 1,320 stadium seating and announcer's booth
 - Field house building with locker rooms, restrooms, and concessions
- 205 on-site paved parking spaces
- Parking lot entrance is not signalized



Challenges with the Current Situation

- Nowhere on site for public/spectators to shelter during a storm/lightning event
- Traffic congestion
- Typical parking demand for events exceeds the available parking. Overflow parking on soccer field damages turf
- Spectators use area across the street for overflow parking and drop off creating a safety issue
- Parking in surrounding neighborhoods



Proposed Windermere High School Stadium Project

Proposed Plan

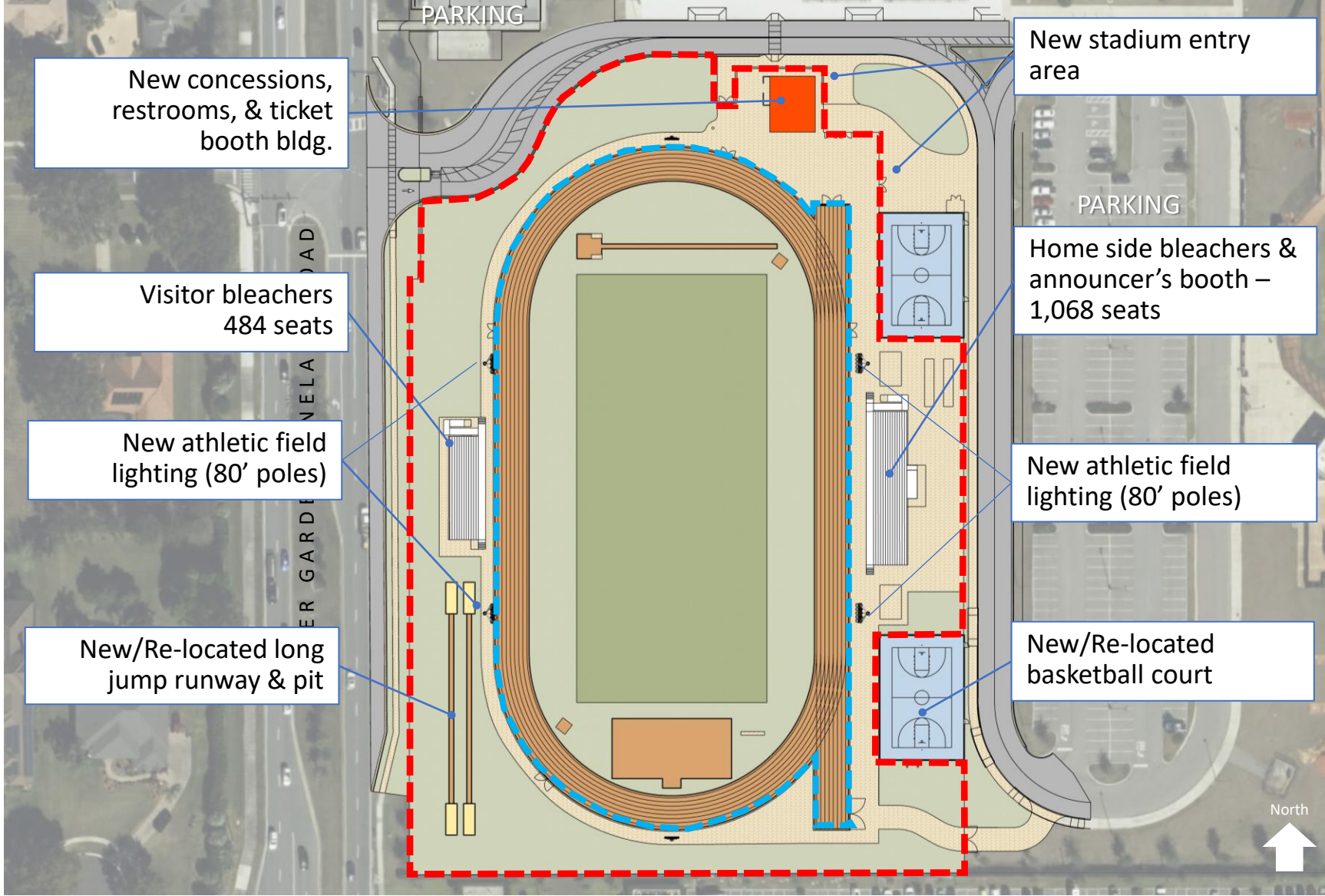
- Replace field lighting with full athletic field lighting package (80' poles)
- Construct a new restroom, concessions, and ticket booth building at north end of track
- Install stadium seating 1,552 total seats including:
 - 1,068 seats home side (east)
 - 484 seats visitor side (west)
 - Potential for 300 future/expansion seats



Proposed Windermere High School Stadium Project

Proposed Plan

- Replace field lighting with full athletic field lighting package (80' poles)
- Construct a new restroom, concessions, & ticket booth building at north end of track
- Install stadium seating 1,552
Total seats Including:
 - 1,068 Seats home side (east)
 - 484 Seats visitor side (west)
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Proposed Windermere High School Stadium Project

Improvements vs. the Current Situation

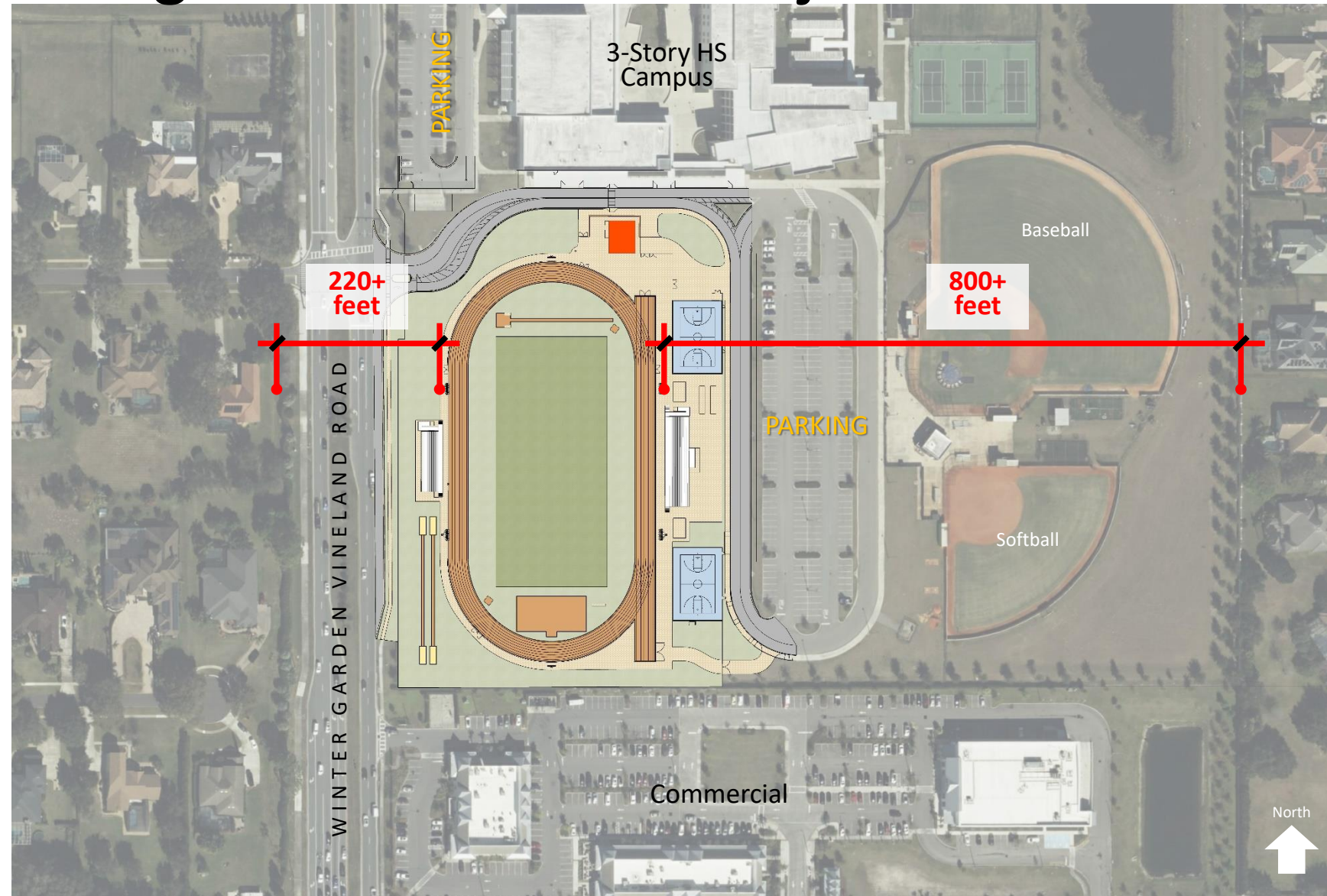
- Adjacent campus buildings provide area for shelter in case of storm/ lighting event
- 860 paved parking spaces on-site to handle the typical attendance for an event
- Spectators will not have to cross Winter Garden Vineland Road to access stadium
- Signalized vehicular entrances provide safer traffic control



Proposed Windermere High School Stadium Project

Field Lighting

- Lighting buffers will eliminate:
 - Light spillage to adjacent properties
 - Visible glare to adjacent properties
- Lighting will comply with the Orange County Lighting Ordinance
 - Less than one footcandle at the HS property line
 - Less than 1% light above horizontal





Sports Lighting Since 1976

600+
Field lighting
projects in Florida
since 2016

40,000+
LED fixtures in
Florida since 2016



Windermere High School Stadium

Proposed Windermere High School Stadium Project

Field Lighting

The Evolution of Glare Control

What Matters in Lighting Technology **Light Control**

1977 SportsCluster

1989 SportsCluster-2

1989 SportsCluster-2 with Level 8

1989 Total Light Control

2005 Light-Structure Green—HID

2015 Light-Structure Green—LED

Photographed at 100-feet from field edge

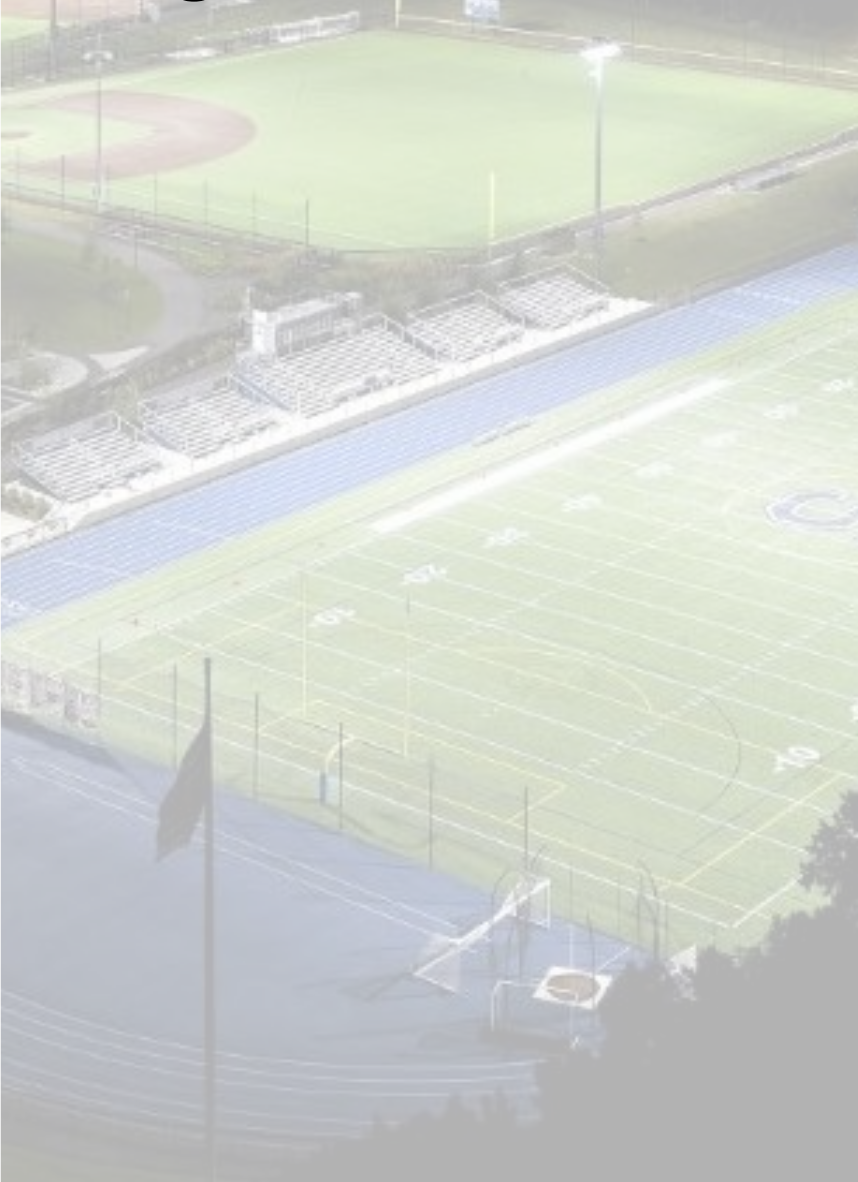
Used equal parameters for:

- On-field light level per pole
- Wattage per luminaire
- Mounting height
- Luminaire aiming angles
- Pole distance from aiming point

Proposed Windermere High School Stadium Project

Field Lighting

- New sports field lighting will be energy efficient LED
- Meet high school standards for sports field lighting
- Lighting will eliminate glare to surrounding neighbors
- Sports lighting will meet the International Dark Sky Assoc. (IDA) Community Friendly Sports Lighting Program



5 Easy Pieces™

Complete System from Foundation to Poletop

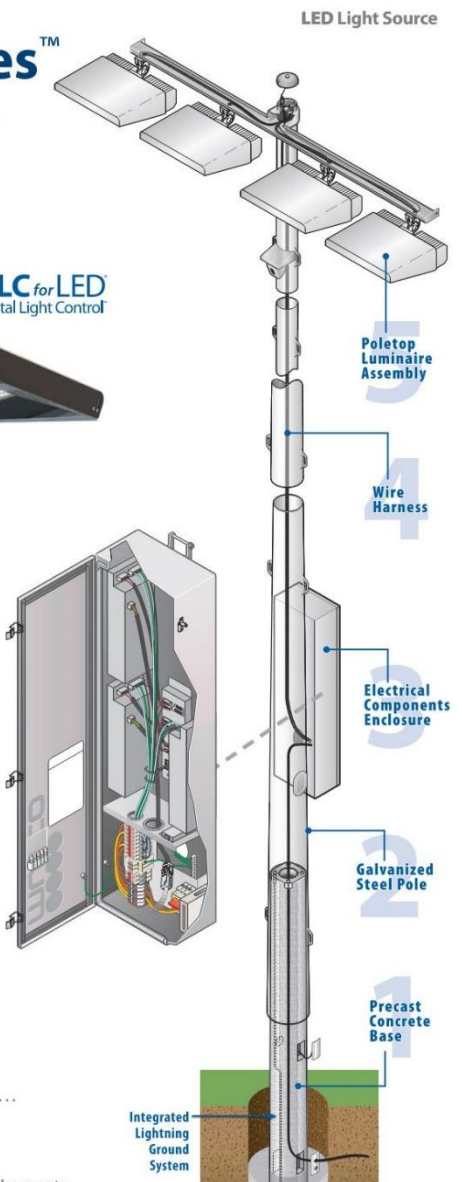


TLC for LED
Total Light Control



All components designed to work together . . . factory built, wired, aimed, and tested to assure reliable, trouble-free operation

Covered by a 25-year product assurance and warranty



Proposed Windermere High School Stadium Project

Field Lighting

The Results

- Lighting design meets the Orange County ordinance for light spillage
- Lighting design will eliminate glare to the neighborhoods surrounding the site
- Sports Lighting will meet the International Dark Sky Assoc. (IDA) Community Friendly Sports Lighting Program

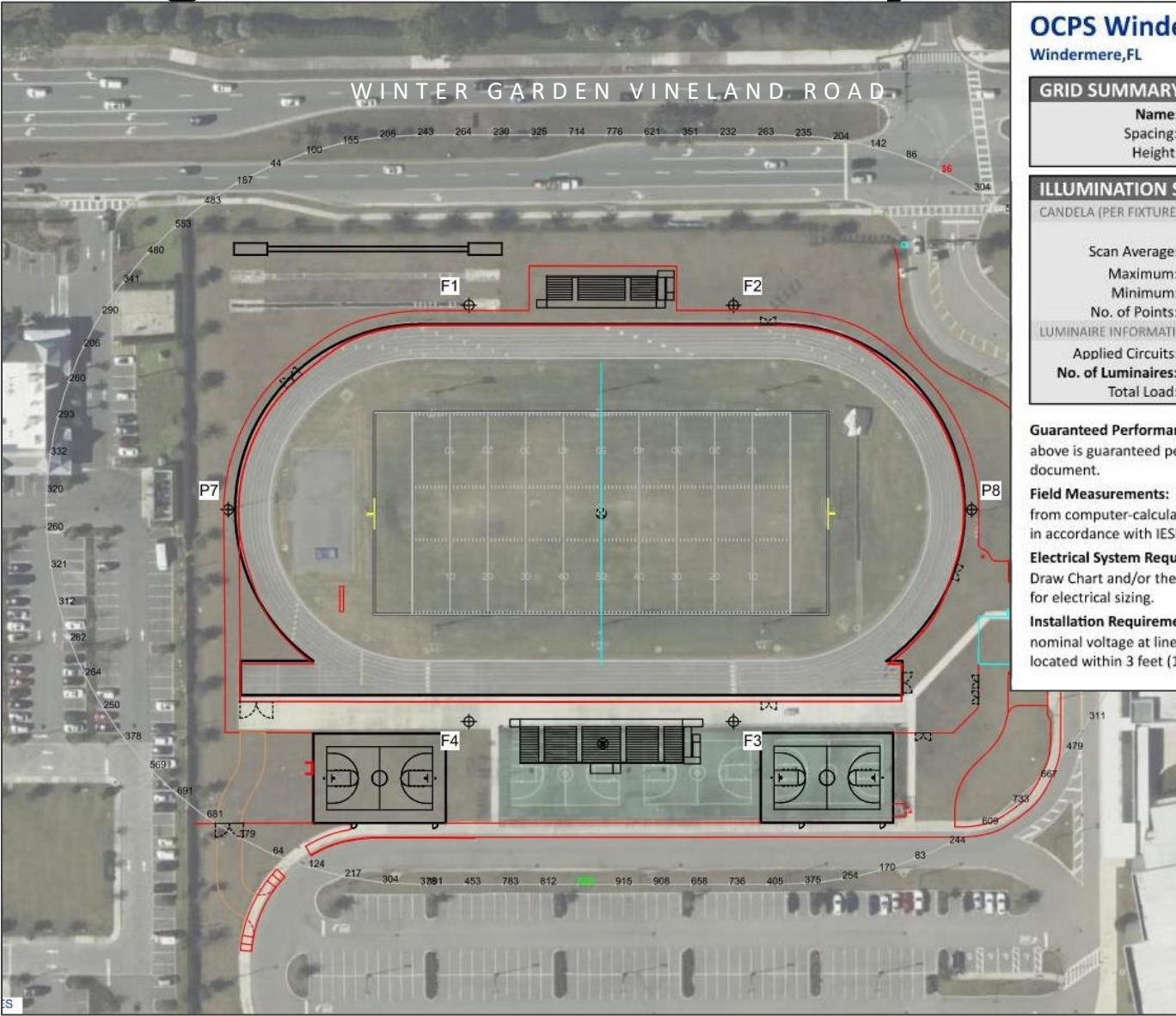


Proposed Windermere High School Stadium Project

Field Lighting

Windermere HS Photometrics

- International Dark Sky Assoc. (IDA) requires less than 1,000 candela at 150' surround the field
- Proposed lighting meets the criteria



OCPS Windermere HS Football Windermere, FL

| GRID SUMMARY | |
|--------------|--------------------|
| Name: | Spill 150ft Offset |
| Spacing: | 30.0' |
| Height: | 3.0' above grade |

| ILLUMINATION SUMMARY | |
|-----------------------|-------------------------|
| CANDELA (PER FIXTURE) | |
| Scan Average: | Entire Grid 375.3376 |
| Maximum: | 951.68 |
| Minimum: | 35.79 |
| No. of Points: | 82 |

| LUMINAIRE INFORMATION | |
|-----------------------|---------|
| Applied Circuits: | A, B, C |
| No. of Luminaires: | 50 |
| Total Load: | 49.9 kW |

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

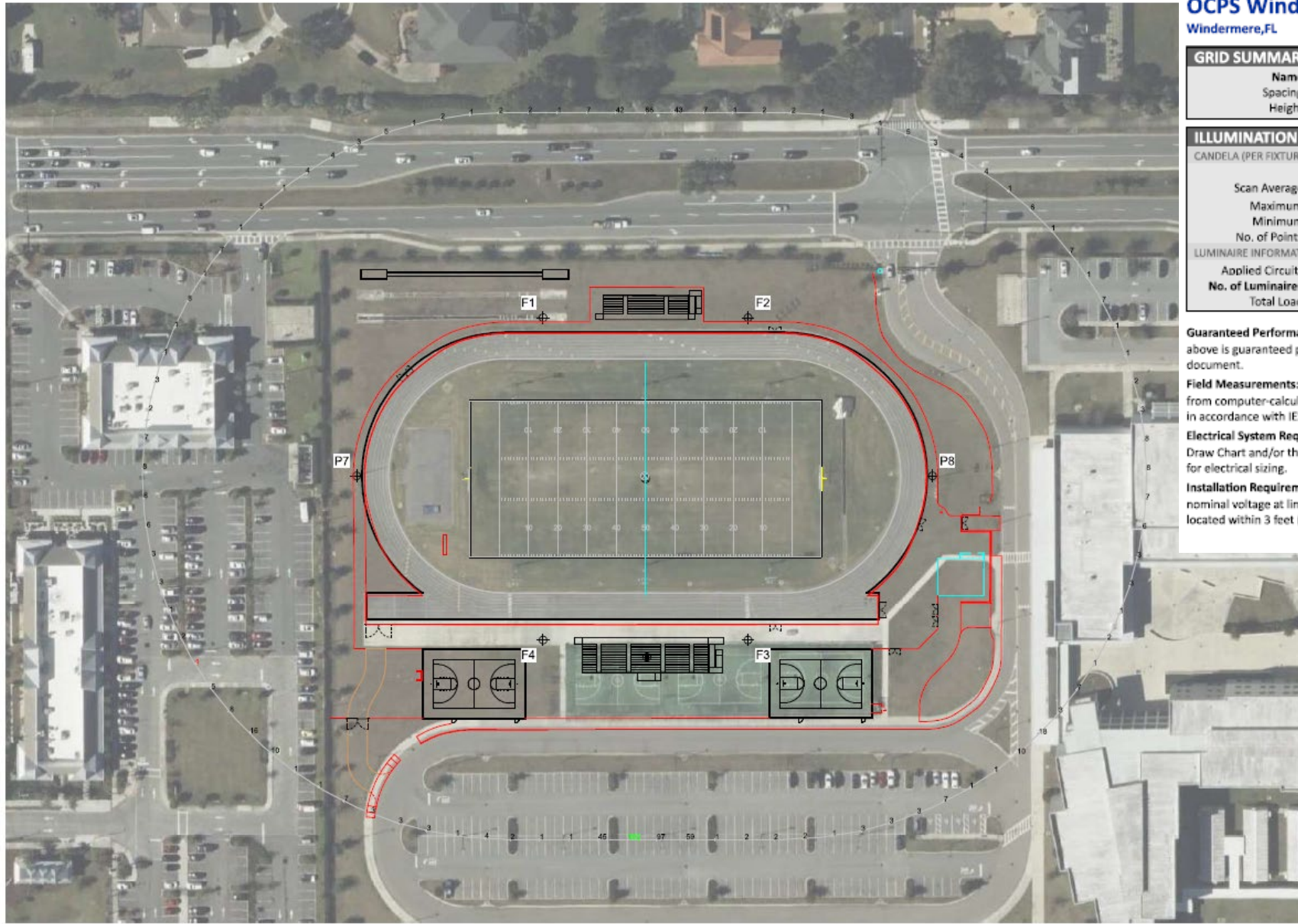
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Proposed Windermere High School Stadium Project

OCPS Windermere HS Football Windermere, FL

| GRID SUMMARY | |
|-----------------------|-----------------------|
| Name: | Spill 225ft Offset |
| Spacing: | 30.0' |
| Height: | 3.0' above grade |
| ILLUMINATION SUMMARY | |
| CANDELA (PER FIXTURE) | |
| Scan Average: | Entire Grid 8,0094 |
| Maximum: | 101.82 |
| Minimum: | 0.51 |
| No. of Points: | 97 |
| LUMINAIRE INFORMATION | |
| Applied Circuits: | A, B |
| No. of Luminaires: | 50 |
| Total Load: | 49.9 kW |



Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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Pole location(s) + dimensions are relative to 0,0 reference point(s) ⊗

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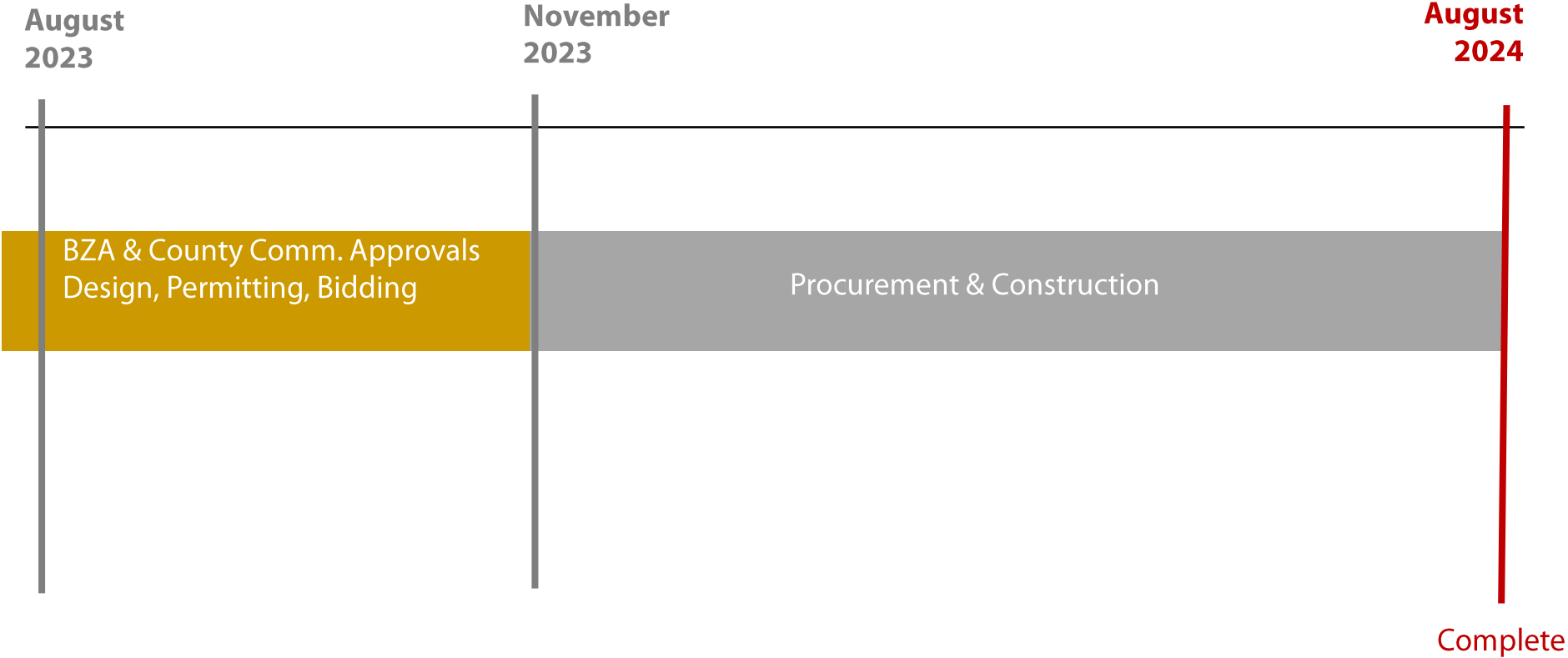
Field Lighting

Older/Inferior Technology

With MUSCO TLC Technology



Projected Schedule



This Community Meeting Presentation is posted
at facilities.ocps.net and on the School Board Member's page.

Our Promise. Your Support. Their Success.

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Thank You



Questions & Answers



Windermere High School Stadium

