



BUTTE COUNTY, CALIFORNIA

ADDENDUM #4

to the

FORMAL BID DOCUMENTS

FOR

The Gridley Sports Complex Ph 1

Rural Recreation and Tourism Grant (TX#04-002)

Project Number 24-02

Contract Number 2024-02

Prepared by
City of Gridley, California

Dave Harden, PE
Contract City Engineer

December 2024



Attachment I – Addendum #4

The following addendum and attachments shall be made part of the Contract Documents, and the bidder shall acknowledge receipt thereof on the Bid Form as Attachment 4 and return this package signed with the Bid Forms.

Note: The addendum attachment only include pages from the specifications and plans which have changes related to the addendum. These pages shall replace the original page, or a previously issued addendum.

ADDENDUM SECTION 1 – Specifications

- A. Sports Field Lighting: Page 1 Section 1.03B has been removed from the Specifications. Please see the attached Musco submittal for reference. Please note that the Musco submittal has 7 poles and will have a control monitoring cabinet near Electric Service Pedestal. Please refer to Question and Answer 39 on Addendum #3 for additional information related to approved equals.**

END OF ADDENDUM #4

Thank you in advance for your Bid.



Dave Harden, PE
City Engineer

I acknowledge receipt of this addendum and all attachments by including a signed copy of this addendum with the bidder's proposal. Failure to do so may subject Bidder to disqualification.

Bidders Signature

Date



BUTTE COUNTY, CALIFORNIA

ATTACHMENTS for
ADDENDUM #4
to the
FORMAL BID DOCUMENTS
FOR
The Gridley Sports Complex Ph 1

Rural Recreation and Tourism Grant (TX#04-002)
Project Number 24-02
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Prepared by
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Contract City Engineer

December 2024

SECTION 26 56 68 SPORTS FIELD LIGHTING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the bid documents, including general and supplementary conditions apply to this section.

1.02 DESCRIPTION OF WORK

- A. The Sports Lighting section includes:
 - 1. Galvanized steel pole and luminaire mounting crossarms
 - 2. LED Luminaires, with appropriate glare/spill light control
 - 3. Remote driver enclosure
 - 4. Pole Foundations
 - 5. Wireless Control System
- B. The purpose of this specification is to define the performance standards, product values and features, required manufacturer's service responsibilities, and design standards for City of Gridley Sports Complex.
- C. The primary goals of this project are:
 - 1. Guaranteed light levels: The system shall provide light levels designed to meet IES class III standards of 30 footcandles. Light levels shall not drop below specified levels.
 - 2. Environmental light control: The system design shall limit spill to the surrounding environment. It shall incorporate adequate pole height to setback ratios, luminaire visors, and differing optic selection based on luminaire aiming.
 - 3. Provide a sports lighting system that is manufactured in the USA and whose manufacturer is based in the USA.

1.03 SUBMITTALS

- A. These project specifications are the minimum acceptable criteria for this project. Sports lighting design is based on Wisconsin Lighting Lab, Willsport KBX-RPC. Equals will be considered.
- ~~B. Manufacturers requesting approval shall provide submittal information as per Section 1.03 D. Submittal information must be received 10 days prior to bid opening, approved manufacturers will be notified by addendum. Refer to Specification Section 01 33 00 Submittals for additional requirements.~~
- C. Submit each item in this article according to the conditions of the contract and specification section. Any deviations to the specification require the manufacturer to list and describe in detail such deviations. Failure to provide this information shall be grounds for immediate rejection.
- D. Submittal information required:
 - 1. Light scans as per Section 1.04 of the specification.
 - 2. Spill scans as per Section 1.05 of the specification.
 - 3. Detailed warranty information as per Section 3.01 of the specification.
 - 4. Stamped Detail foundation design as described in Section 2.01.

SECTION 26 56 68

Gridley Sports Complex

Gridley, CA

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1-P6	90'	90'	6	TLC-LED-1500	8.46 kW	A
P7	90'	90'	7	TLC-LED-1500	9.87 kW	A
7			43		60.63 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Field Area	60.63 kW	43

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	43

Single Luminaire Amperage Draw Chart								
Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)							
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)	
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)	
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6	

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty	
		Ave	Min	Max	Max/Min	Ave/Min			
Blanket Grid	Horizontal	5.18	0	40	-	-	A	43	
Soccer 1	Horizontal Illuminance	31.63	23	39	1.72	1.38	A	43	
Soccer 2	Horizontal Illuminance	33.16	27	39	1.43	1.22	A	43	
Soccer 3	Horizontal Illuminance	31.61	28	37	1.33	1.14	A	43	

From Hometown to Professional



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Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	90'	4'	94'	TLC-LED-1500	6	6	0
1	P7	90'	4'	94'	TLC-LED-1500	7	7	0
7	Totals					43	43	0

*Above Grade level relative to the field

Gridley Sports Complex

Gridley, CA

Grid Summary	
Name	Soccer 1
Size	300' x 180'
Spacing	30.0'
Height	3.0' above grade

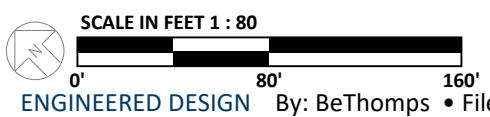
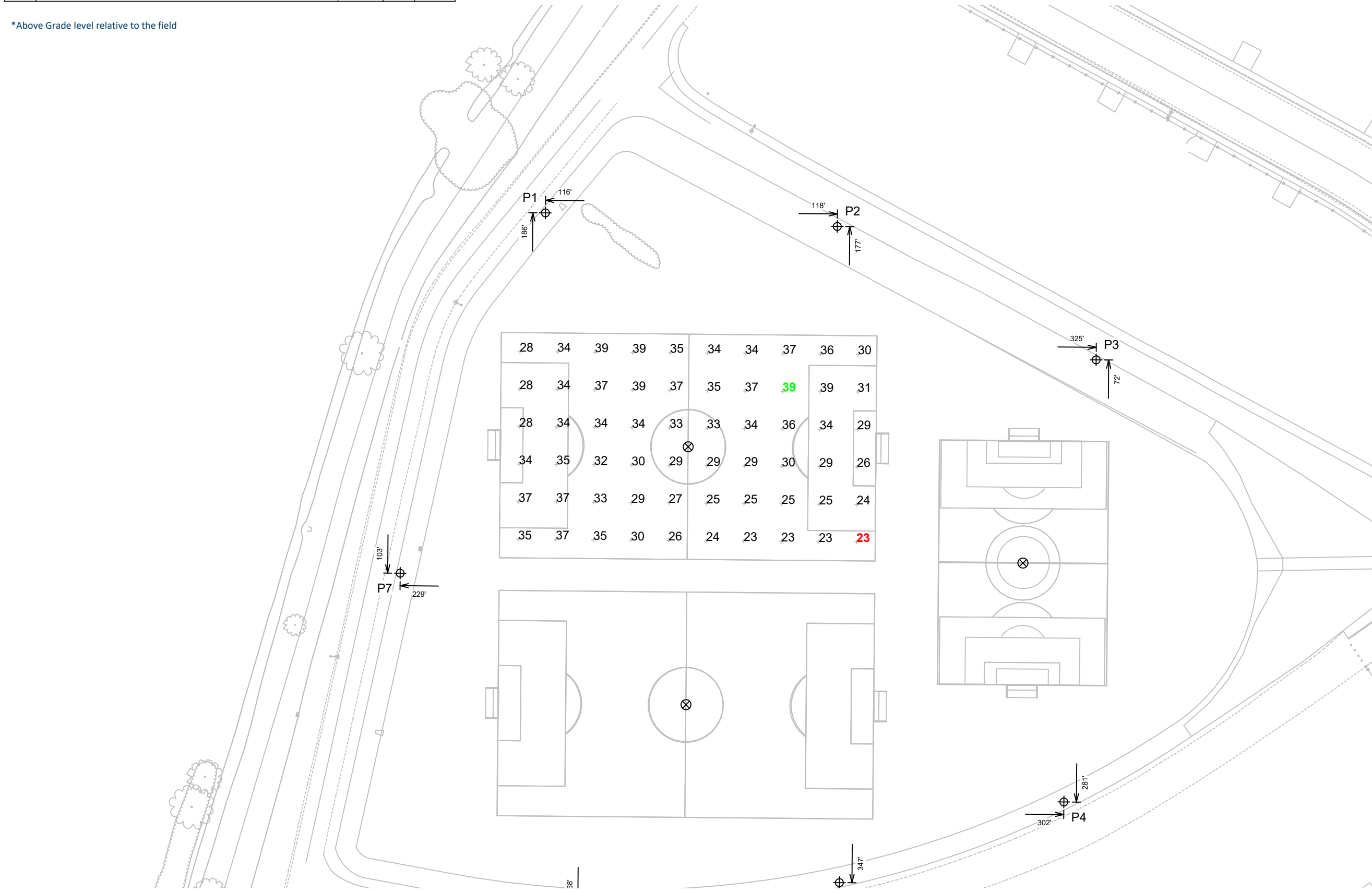
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Guaranteed Average	Entire Grid 30
Scan Average	31.63
Maximum	39
Minimum	23
Avg/Min	1.38
Guaranteed Max/Min	2.5
Max/Min	1.72
UG (adjacent pts)	1.24
CU	0.22
No. of Points	60
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	43
Total Load	60.63 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.



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



Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	90'	4'	94'	TLC-LED-1500	6	6	0
1	P7	90'	4'	94'	TLC-LED-1500	7	7	0
7				Totals		43	43	0

*Above Grade level relative to the field

Gridley Sports Complex

Gridley, CA

Grid Summary	
Name	Soccer 2
Size	300' x 180'
Spacing	30.0'
Height	3.0' above grade

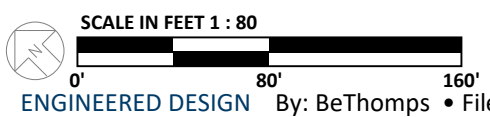
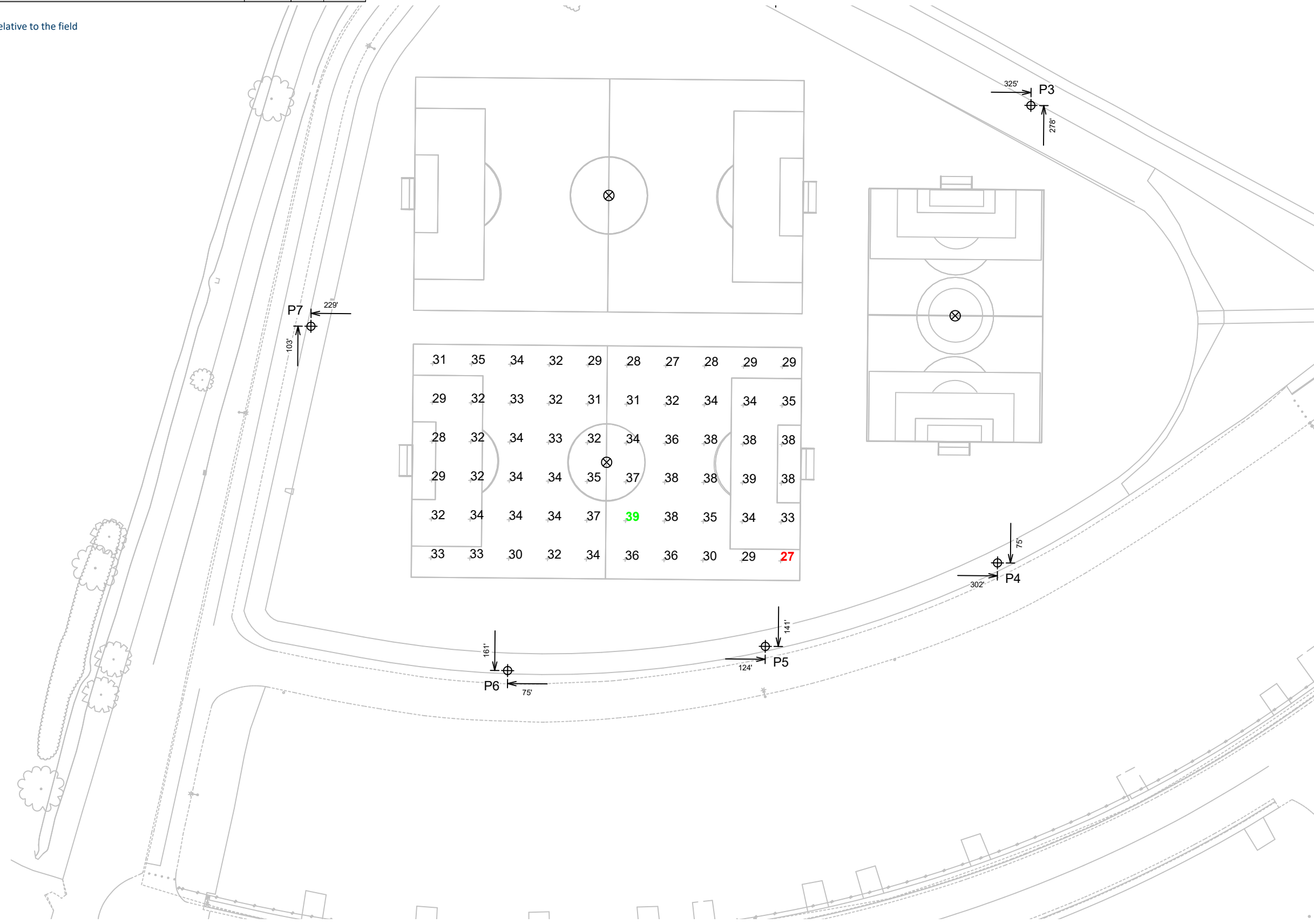
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Guaranteed Average	Entire Grid 30
Scan Average	33.16
Maximum	39
Minimum	27
Avg/Min	1.22
Guaranteed Max/Min	2.5
Max/Min	1.43
UG (adjacent pts)	1.21
CU	0.23
No. of Points	60
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	43
Total Load	60.63 kW

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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.



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



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Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	90'	4'	94'	TLC-LED-1500	6	6	0
1	P7	90'	4'	94'	TLC-LED-1500	7	7	0
7	Totals					43	43	0

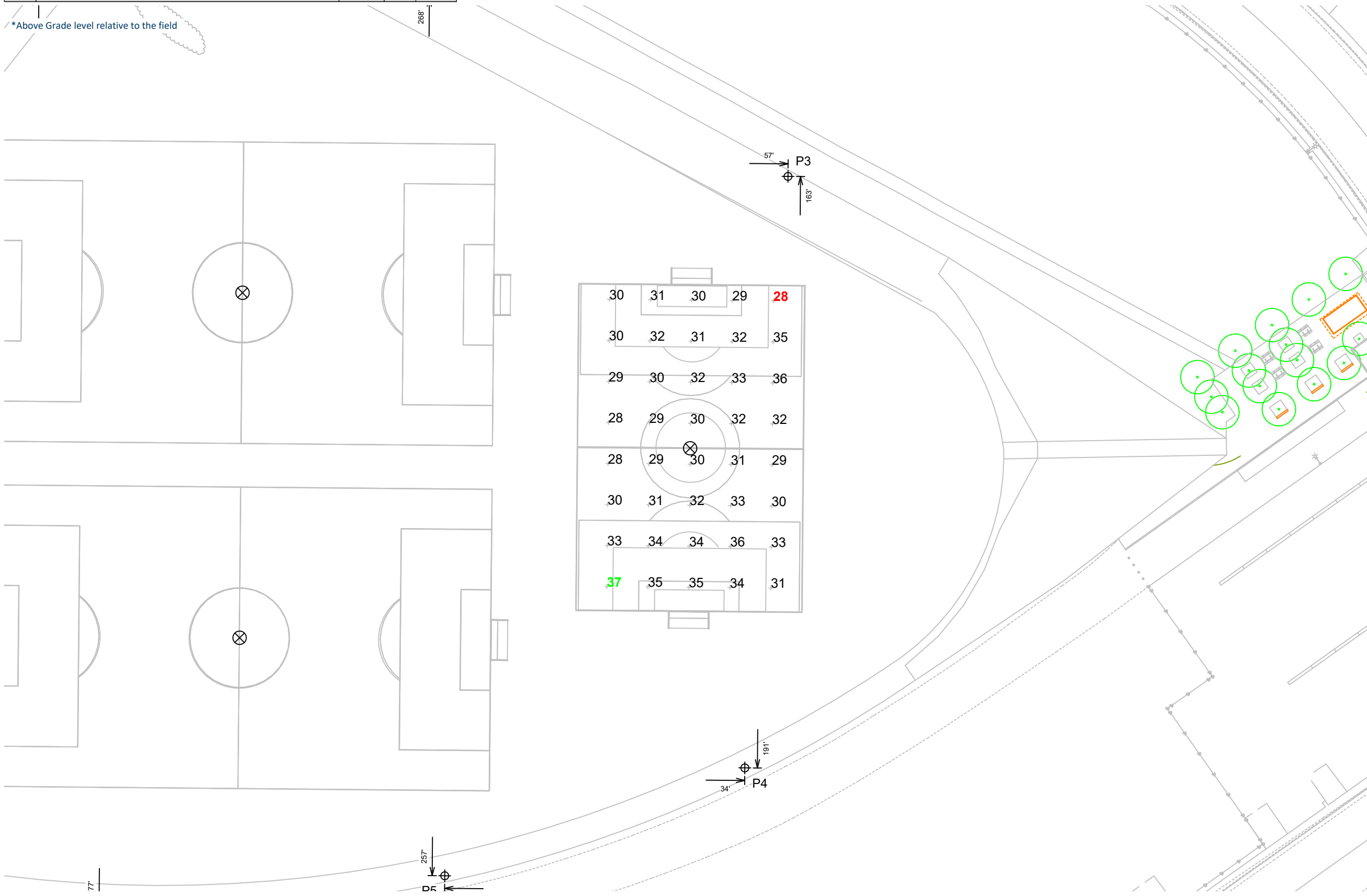
*Above Grade level relative to the field

Gridley Sports Complex

Gridley, CA

Grid Summary	
Name	Soccer 3
Size	195' x 135'
Spacing	24.5'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	30
Scan Average	31.61
Maximum	37
Minimum	28
Avg/Min	1.14
Guaranteed Max/Min	2.5
Max/Min	1.33
UG (adjacent pts)	1.25
CU	0.10
No. of Points	40
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	43
Total Load	60.63 kW

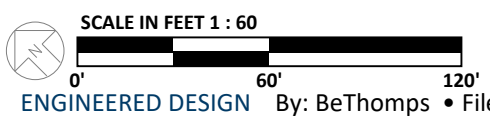


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.



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



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ILLUMINATION SUMMARY

Gridley Sports Complex

Gridley, CA

Grid Summary	
Name	Blanket Grid
Spacing	20.0'
Height	3.0' above grade

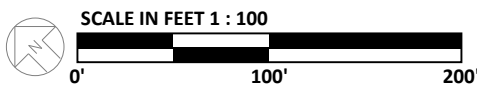
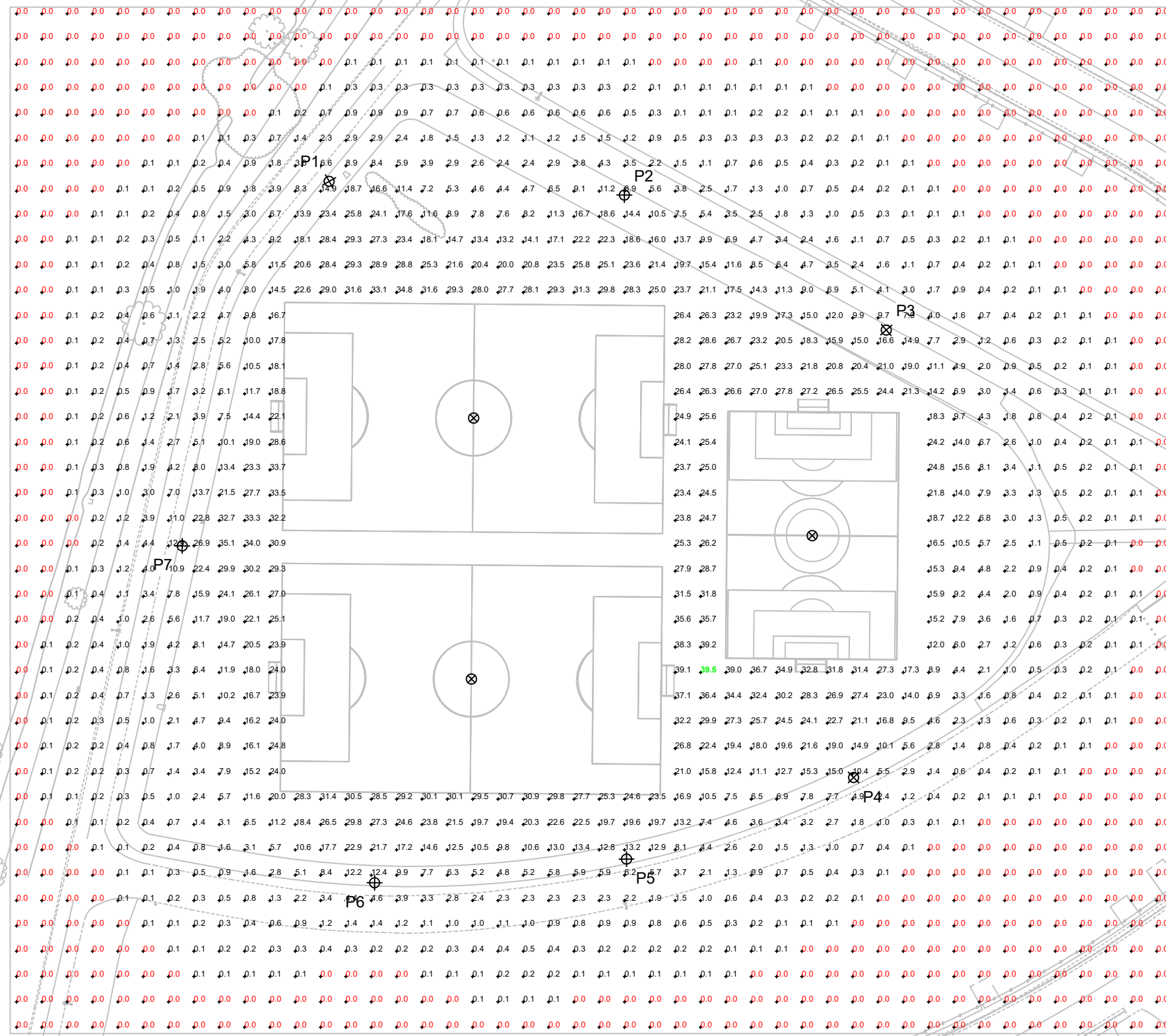
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average	5.18
Maximum	40
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	27.84
CU	0.40
No. of Points	1521
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	43
Total Load	60.63 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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ILLUMINATION SUMMARY

Gridley Sports Complex

Gridley, CA

Equipment Layout

INCLUDES:
 · Soccer 1
 · Soccer 2
 · Soccer 3

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

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Equipment List For Areas Shown

QTY	LOCATION	Pole			Luminaires	
		SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
6	P1-P6	90'	4'	94'	TLC-LED-1500	6
1	P7	90'	4'	94'	TLC-LED-1500	7
7	Totals					43

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6



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EQUIPMENT LAYOUT