

### EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	F1-F4	70'	-	70'	1500W MZ	15	15	0
TOTALS						60	60	0



### MY PROJECT

**Name:** Xaverian Brothers High School  
**Location:** Westwood, MA

### GRID SUMMARY

**Name:** Football  
**Size:** 360' x 160'  
**Spacing:** 30.0' x 30.0'  
**Height:** 3.0' above grade

### CONSTANT ILLUMINATION

SUMMARY		HORIZONTAL FOOTCANDLES	
		Entire Grid	
<b>Guaranteed Average:</b>	<b>70</b>	Scan Average:	71.01
		Maximum:	98
		Minimum:	50
		Avg / Min:	1.43
<b>Guaranteed Max / Min:</b>	<b>2</b>	Max / Min:	1.97
		UG (adjacent pts):	1.50
		CV:	0.18
		No. of Points:	72
LUMINAIRE INFORMATION			
Luminaire Type:	Green Generation		
Rated Lamp Life:	5,000 hours		
Avg Lumens / Lamp:	134,000		
Avg Lamp Tilt Factor:	1.000		
No. of Luminaires:	60		
Avg KW:	93.84 (102.0 max)		

**Guaranteed Performance:** The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

**Field Measurements:** Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

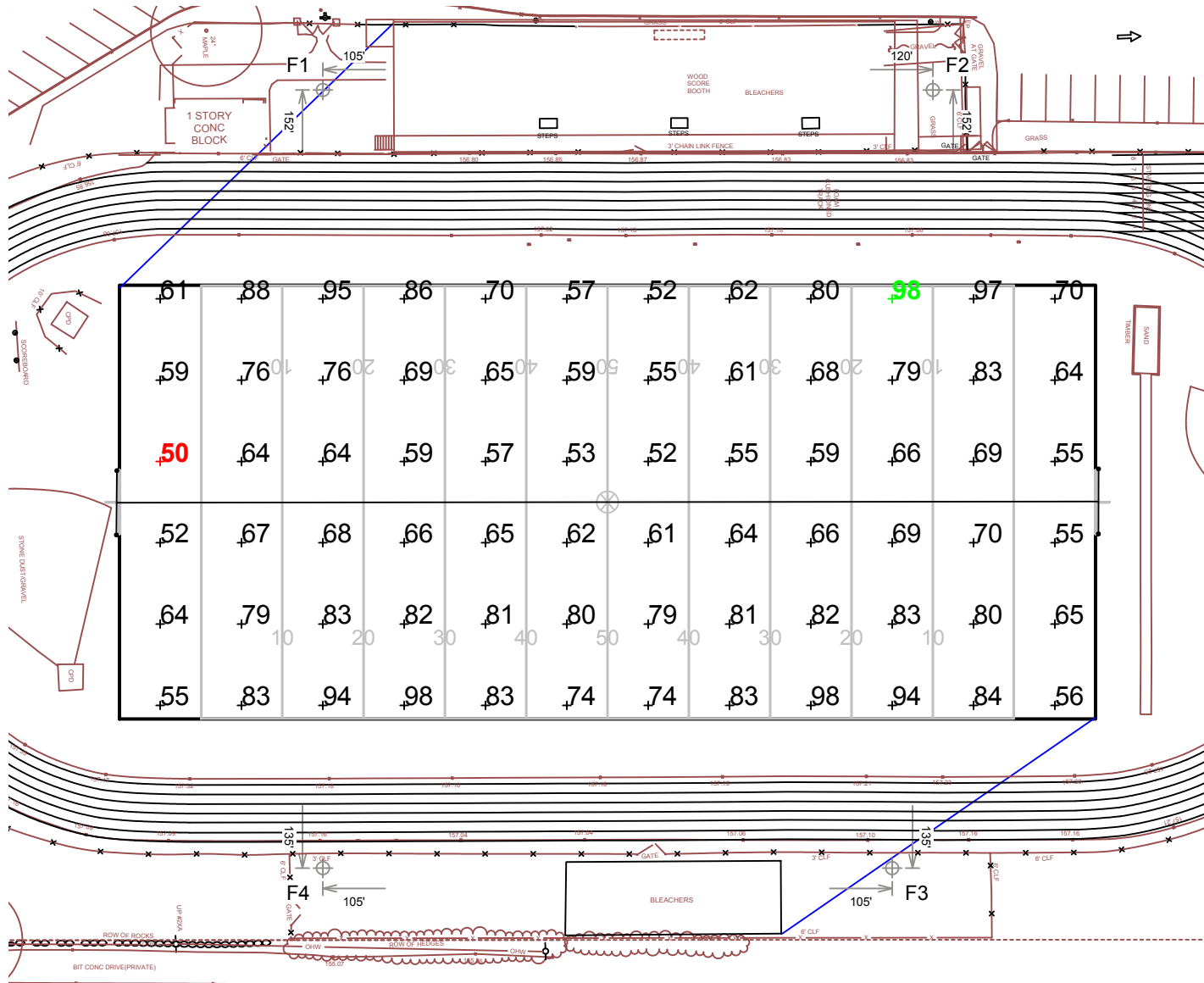
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

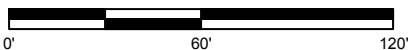
### ENGINEERED DESIGN

**By:** Ryan A. Marsh, LC  
**File # / Date:** 104390 05-Apr-13

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SCALE IN FEET 1 : 60



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

### EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	F1-F4	70'	-	70'	1500W MZ	15	11	4
TOTALS						60	44	16



### MY PROJECT

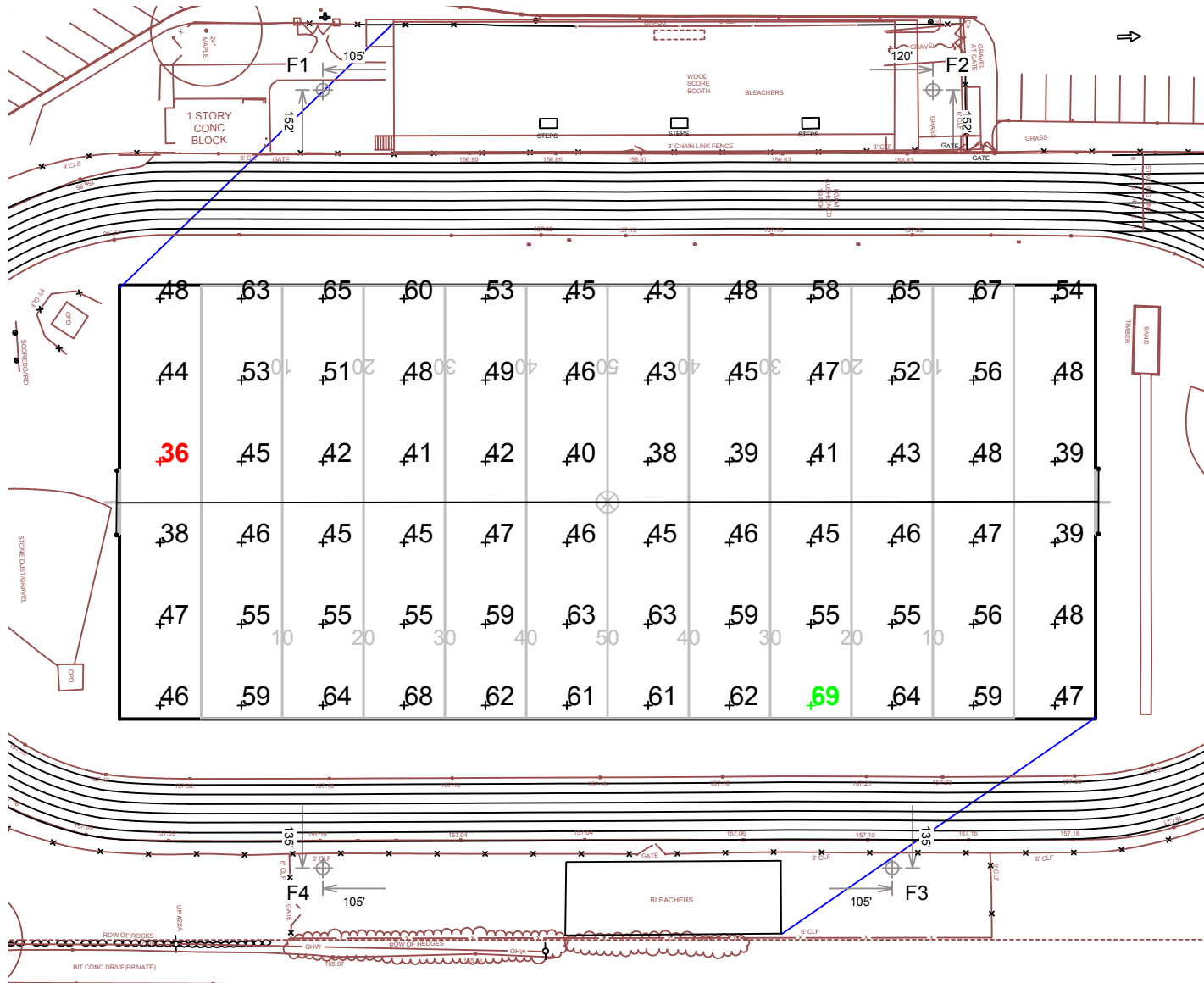
**Name:** Xaverian Brothers High School  
**Location:** Westwood, MA

### GRID SUMMARY

**Name:** Football - 50 fc  
**Size:** 360' x 160'  
**Spacing:** 30.0' x 30.0'  
**Height:** 3.0' above grade

### CONSTANT ILLUMINATION

SUMMARY		HORIZONTAL FOOTCANDLES	
		Entire Grid	
<b>Guaranteed Average:</b>	<b>50</b>	Scan Average:	51.02
		Maximum:	69
		Minimum:	36
		Avg / Min:	1.42
<b>Guaranteed Max / Min:</b>	<b>2</b>	Max / Min:	1.90
		UG (adjacent pts):	1.39
		CV:	0.17
		No. of Points:	72
LUMINAIRE INFORMATION			
Luminaire Type:	Green Generation		
Rated Lamp Life:	5,000 hours		
Avg Lumens / Lamp:	134,000		
Avg Lamp Tilt Factor:	1.000		
No. of Luminaires:	44		
Avg KW:	68.82 (74.8 max)		



**Guaranteed Performance:** The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

**Field Measurements:** Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

**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 ballast and structures located within 3 feet (1m) of design locations.

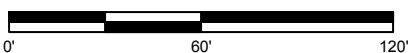
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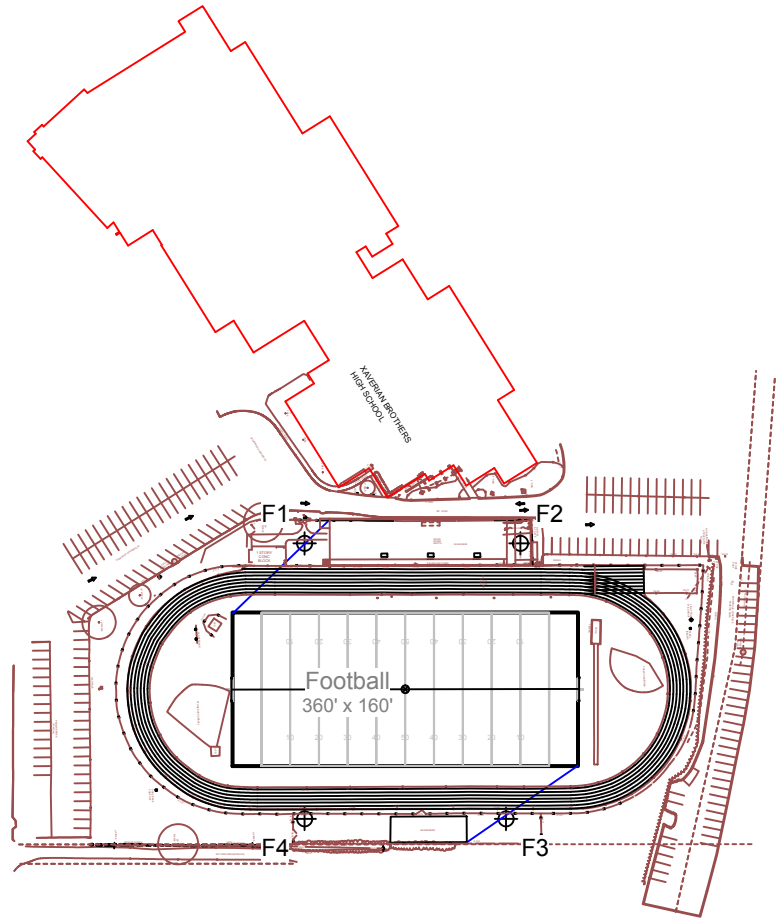
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## ILLUMINATION SUMMARY

SCALE IN FEET 1 : 60



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



**MY PROJECT**

Name: **Xaverian Brothers High School**  
 Location: **Westwood, MA**

**EQUIPMENT LAYOUT**

**INCLUDES:**

· Football

**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 ballast and structures located within 3 feet (1m) of design locations.

**EQUIPMENT LIST FOR AREAS SHOWN**

QTY	Pole			Luminaires		QTY / POLE
	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	
4	F1-F4	70'	-	70'	1500W MZ	15
4	TOTALS					60

**SINGLE LUMINAIRE AMPERAGE DRAW CHART**

Ballast 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)
1500 watt MZ	8.6	8.3	7.5	6.5	5.1	4.7	3.7

**ENGINEERED DESIGN**

By: **Ryan A. Marsh, LC**  
 File # / Date: **104390** 05-Apr-13

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SCALE IN FEET 1 : 200



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