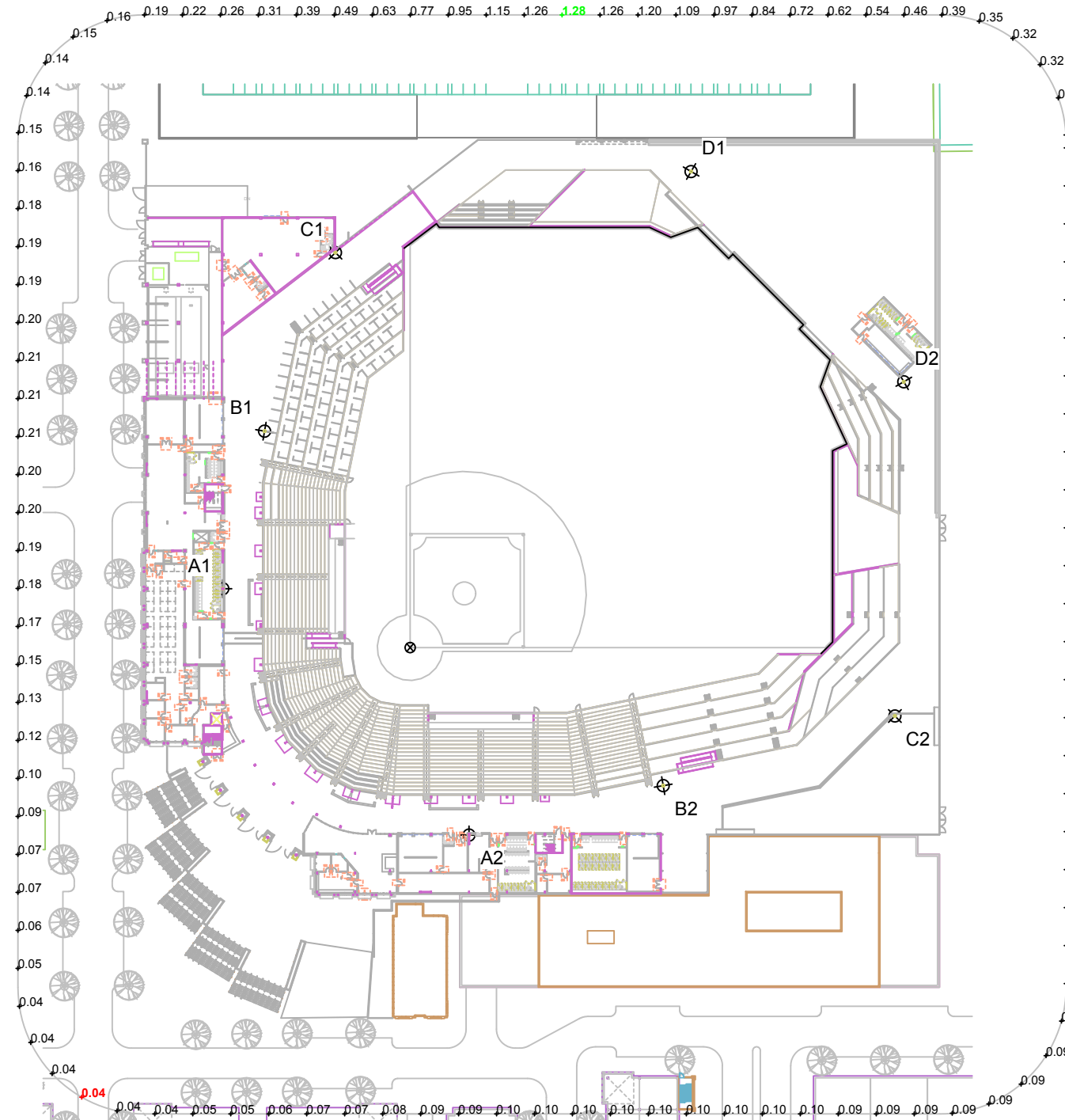




EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	50'	120'	1500W MZ	18	18	0
2	B1-B2	90'	18'	108'	1500W Quartz	6	0	6
				108'	1500W MZ	24	24	0
1	C1	90'	18'	108'	1500W Quartz	6	0	6
				108'	1500W MZ	13	13	0
1	C2	90'	20.5'	110.5'	1500W Quartz	6	0	6
				110.5'	1500W MZ	13	13	0
2	D1-D2	90'	18'	108'	1500W Quartz	6	0	6
				108'	1500W MZ	13	13	0
8	TOTALS					172	136	36



MY PROJECT	
Name:	Columbia Baseball Stadium
Location:	Columbia, SC

GRID SUMMARY	
Name:	100' Spill
Spacing:	30.0'
Height:	3.0' above grade

CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
Scan Average:	0.3242
Maximum:	1.275
Minimum:	0.038
No. of Points:	108
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Design Usage Hours:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	136
Avg KW:	212.7 (231.2 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

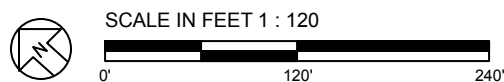
Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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:	Ben Drost	
File # / Date:	168172a5sp	24-Apr-15

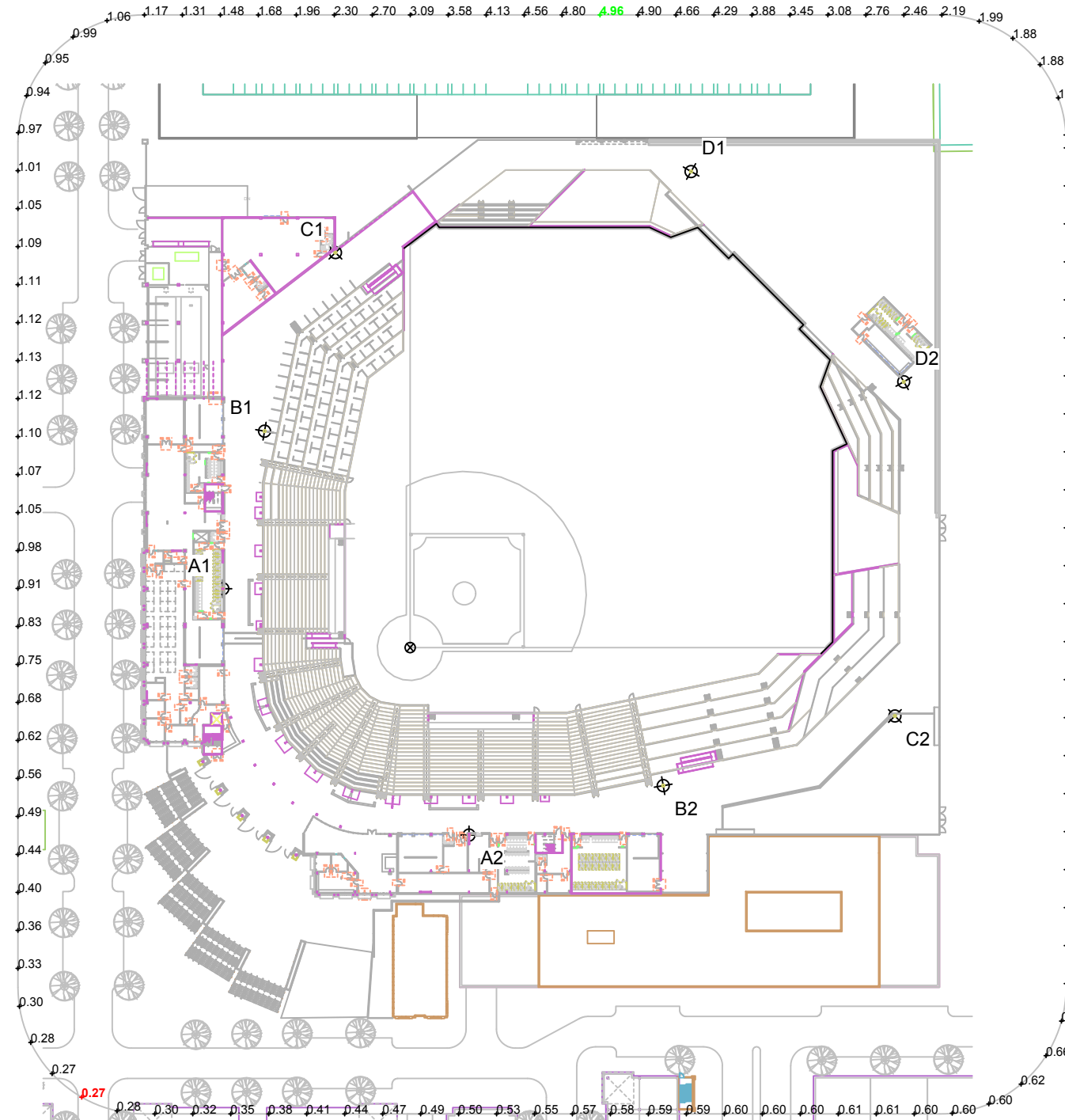
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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	50'	120'	1500W MZ	18	18	0
2	B1-B2	90'	18'	108'	1500W Quartz	6	0	6
				108'	1500W MZ	24	24	0
1	C1	90'	18'	108'	1500W Quartz	6	0	6
				108'	1500W MZ	13	13	0
1	C2	90'	20.5'	110.5'	1500W Quartz	6	0	6
				110.5'	1500W MZ	13	13	0
2	D1-D2	90'	18'	108'	1500W Quartz	6	0	6
				108'	1500W MZ	13	13	0
8	TOTALS					172	136	36



MY PROJECT	
Name:	Columbia Baseball Stadium
Location:	Columbia, SC

GRID SUMMARY	
Name:	100' Spill
Spacing:	30.0'
Height:	3.0' above grade

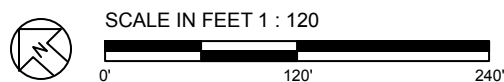
CONSTANT ILLUMINATION	
SUMMARY	MAX VERTICAL FOOTCANDLES
Entire Grid	
Scan Average:	1.5759
Maximum:	4.961
Minimum:	0.269
No. of Points:	108
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Design Usage Hours:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	136
Avg KW:	212.7 (231.2 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

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.

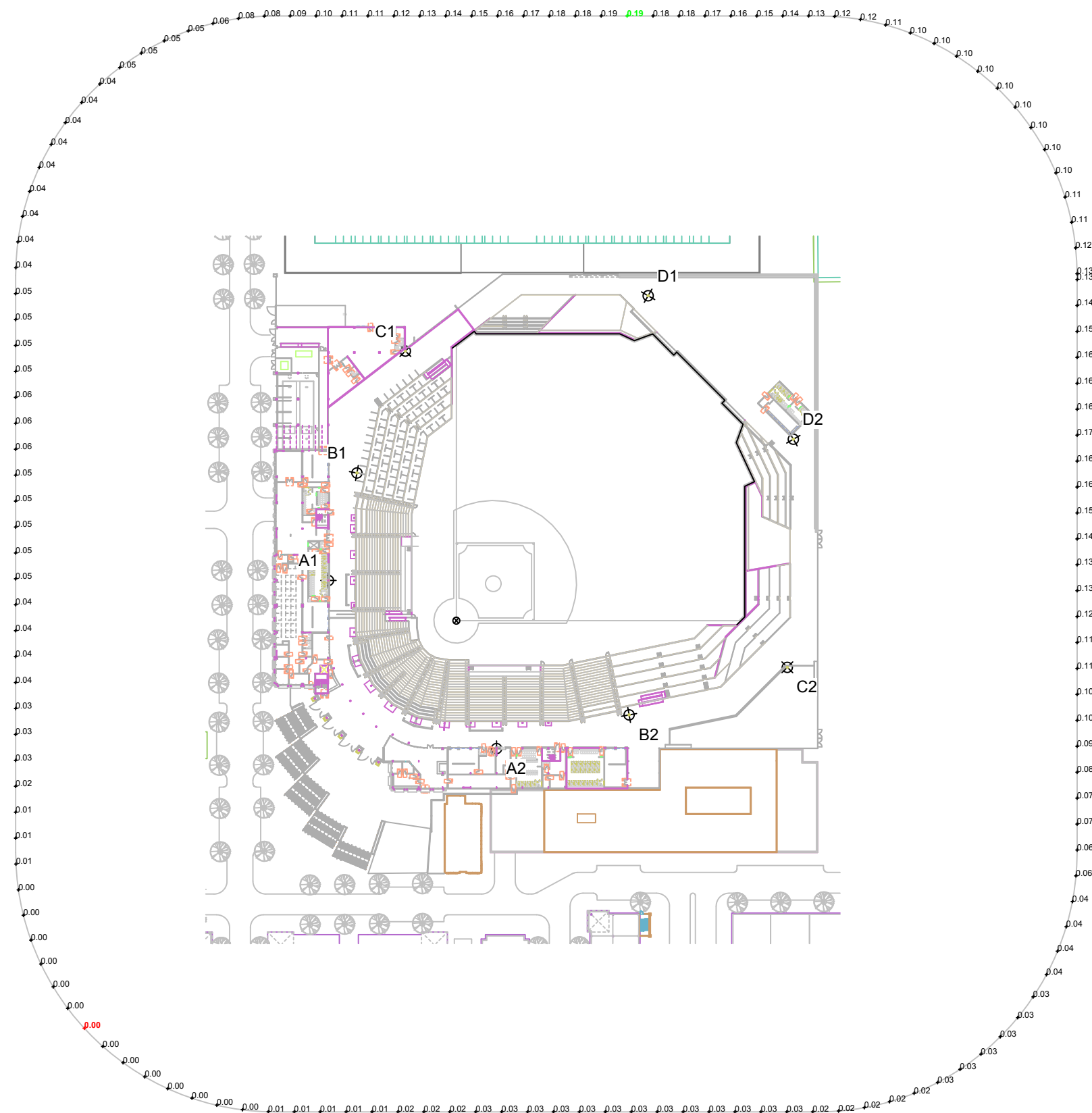
Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.



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

ENGINEERED DESIGN		
By:	Ben Drost	
File # / Date:	168172a5sp	24-Apr-15

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MY PROJECT	
Name:	Columbia Baseball Stadium
Location:	Columbia, SC

GRID SUMMARY	
Name:	300' Spill
Spacing:	30.0'
Height:	3.0' above grade

CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
Scan Average:	0.0699
Maximum:	0.186
Minimum:	0.002
No. of Points:	150
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Design Usage Hours:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	136
Avg KW:	212.7 (231.2 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

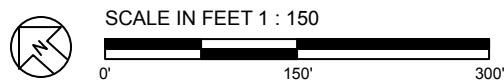
Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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

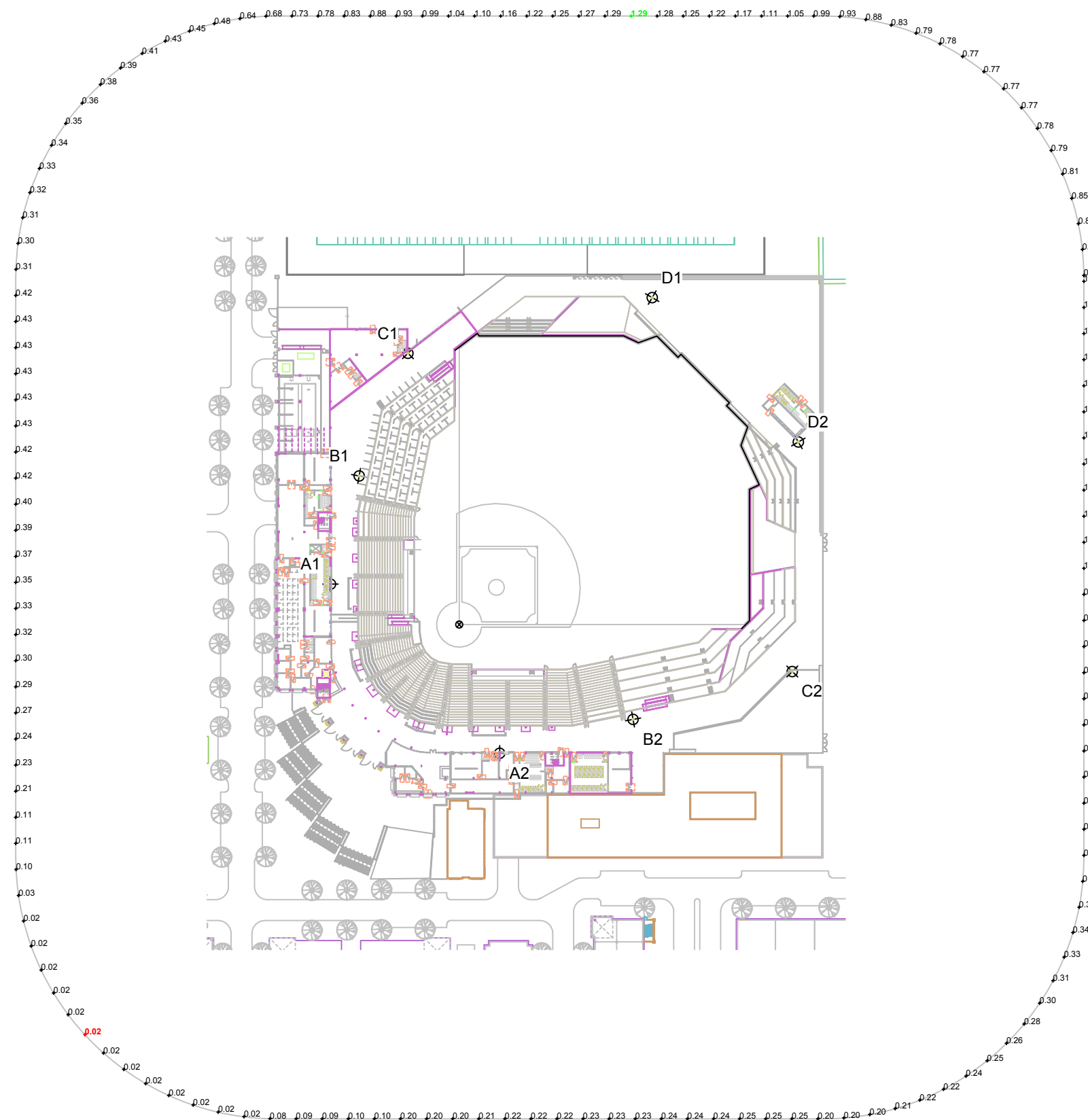
Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

ENGINEERED DESIGN		
By:	Ben Drost	
File # / Date:	168172a5sp	24-Apr-15

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



MY PROJECT	
Name:	Columbia Baseball Stadium
Location:	Columbia, SC

GRID SUMMARY	
Name:	300' Spill
Spacing:	30.0'
Height:	3.0' above grade

CONSTANT ILLUMINATION	
SUMMARY	MAX VERTICAL FOOTCANDLES
Scan Average:	Entire Grid 0.5396
Maximum:	1.291
Minimum:	0.015
No. of Points:	150
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Design Usage Hours:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	136
Avg KW:	212.7 (231.2 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

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

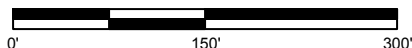
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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:	Ben Drost	
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SCALE IN FEET 1 : 150



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



EQUIPMENT LIST FOR AREAS SHOWN									
QTY	LOCATION	Pole		MOUNTING HEIGHT	Luminaires			THIS GRID	OTHER GRIDS
		SIZE	GRADE ELEVATION		LAMP TYPE	QTY / POLE	18		
2	A1-A2	70'	50'	120'	1500W MZ	18	18	0	0
2	B1-B2	90'	18'	108'	1500W Quartz	6	6	0	0
3	C1, D1-D2	90'	18'	108'	1500W MZ	24	24	0	0
1	C2	90'	20.5'	110.5'	1500W Quartz	6	6	0	0
8	TOTALS					172	172	0	0

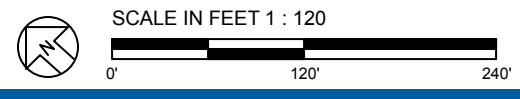
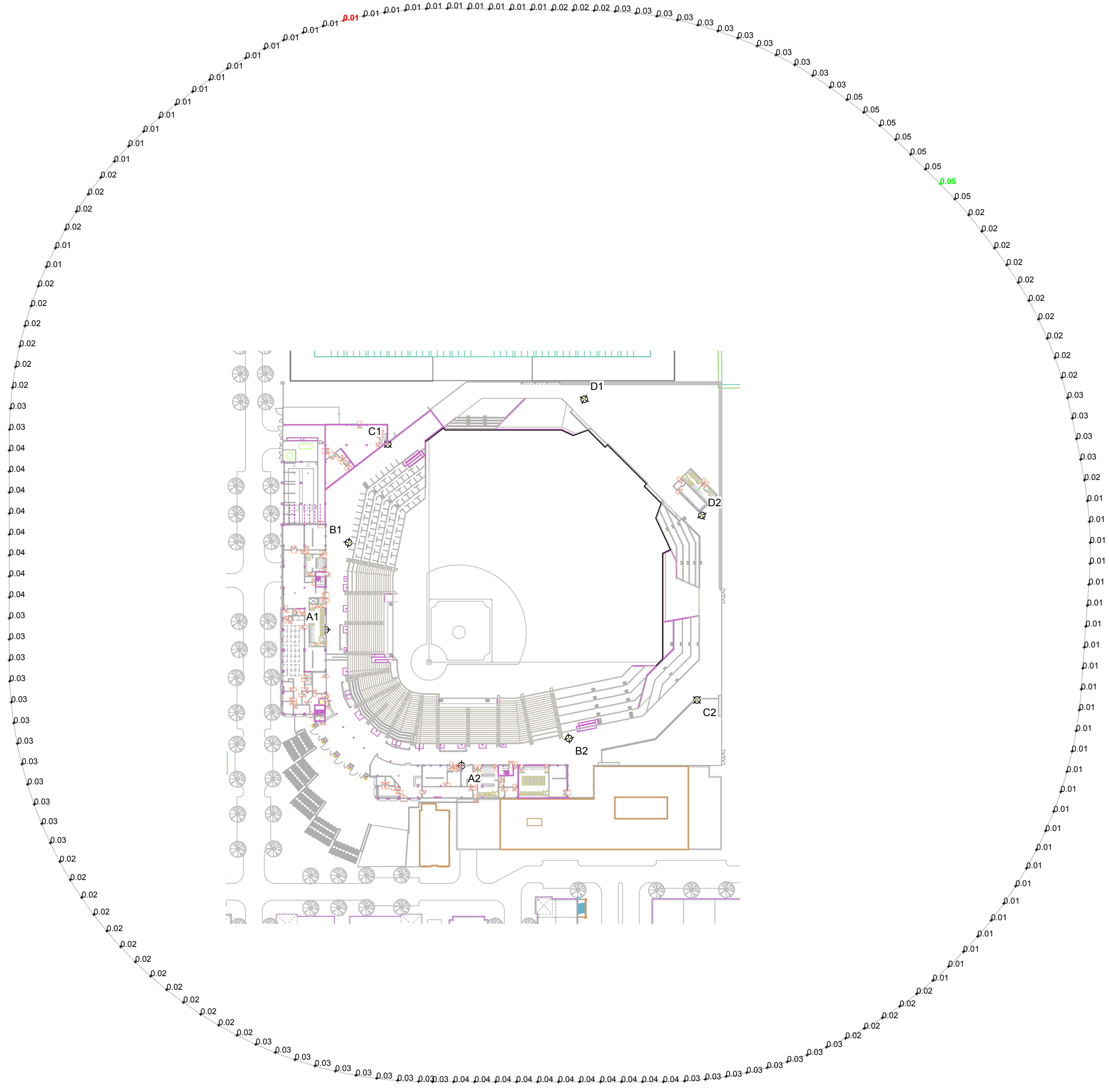
MY PROJECT
 Name: Columbia Baseball Stadium
 Location: Columbia, SC

GRID SUMMARY
 Name: Baseball 600' Spill
 Spacing: 30.0'
 Height: 3.0' above grade

CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
Scan Average:	0.0234
Maximum:	0.048
Minimum:	0.008
No. of Points:	168

LUMINAIRE INFORMATION
 Luminaire Type: Green Generation / QUARTZ
 Design Usage Hours: 5,000 hours
 Design Lumens: 134,000 / 33,000
 Avg Lamp Tilt Factor: 1.000
 No. of Luminaires: 172
 Avg KW: 266.7 (285.2 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.
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.



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

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 File # / Date: 168172ap-sp 05-Jan-16

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EQUIPMENT LIST FOR AREAS SHOWN							
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		
					LAMP TYPE	QTY / POLE	THIS GRID
2	A1-A2	70'	50'	120'	1500W MZ	18	18
2	B1-B2	90'	18'	108'	1500W Quartz	6	6
3	C1, D1-D2	90'	18'	108'	1500W MZ	24	24
1	C2	90'	20.5'	110.5'	1500W Quartz	6	6
8	TOTALS				1500W MZ	172	172

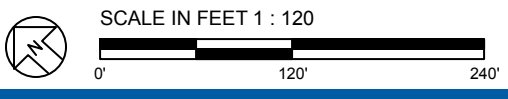
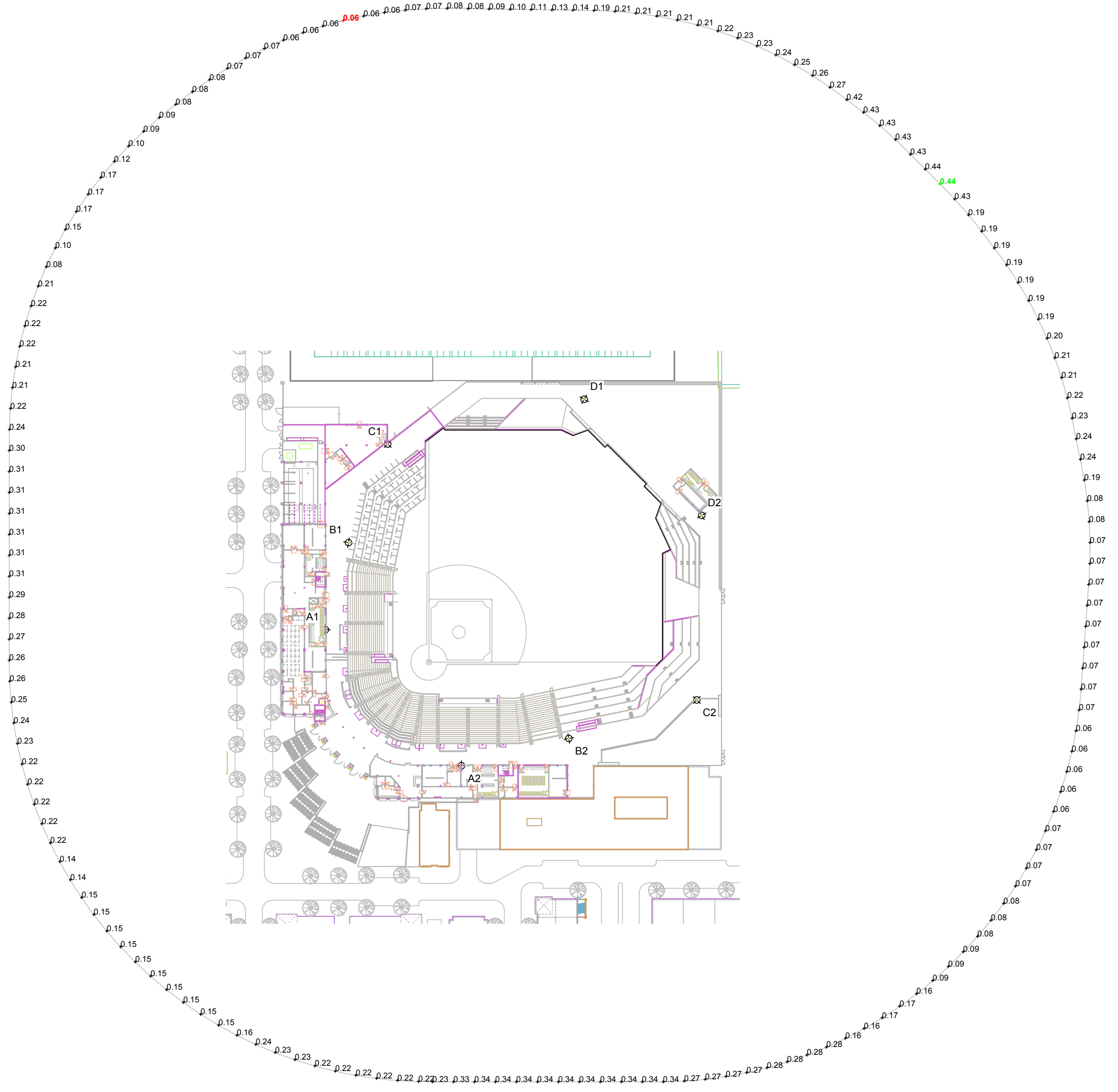
MY PROJECT
 Name: Columbia Baseball Stadium
 Location: Columbia, SC

GRID SUMMARY
 Name: Baseball 600' Spill
 Spacing: 30.0'
 Height: 3.0' above grade

CONSTANT ILLUMINATION	
SUMMARY	MAX VERTICAL FOOTCANDLES
Entire Grid	
Scan Average:	0.1924
Maximum:	0.442
Minimum:	0.060
No. of Points:	168

LUMINAIRE INFORMATION
 Luminaire Type: Green Generation / QUARTZ
 Design Usage Hours: 5,000 hours
 Design Lumens: 134,000 / 33,000
 Avg Lamp Tilt Factor: 1.000
 No. of Luminaires: 172
 Avg KW: 266.7 (285.2 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.
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.



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

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EQUIPMENT LIST FOR AREAS SHOWN									
QTY	LOCATION	Pole		Luminaires					
		SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A1-A2	70'	50'	120'	1500W MZ	18	18	0	
2	B1-B2	90'	18'	108'	1500W Quartz	6	6	0	
3	C1, D1-D2	90'	18'	108'	1500W MZ	24	24	0	
3	C1, D1-D2	90'	18'	108'	1500W Quartz	6	6	0	
1	C2	90'	20.5'	110.5'	1500W Quartz	6	6	0	
1	C2	90'	20.5'	110.5'	1500W MZ	13	13	0	
8	TOTALS						172	172	0

MY PROJECT
 Name: Columbia Baseball Stadium
 Location: Columbia, SC

GRID SUMMARY
 Name: Baseball 1000' Spill
 Spacing: 30.0'
 Height: 3.0' above grade

CONSTANT ILLUMINATION

SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
Scan Average:	0.0000
Maximum:	0.000
Minimum:	0.000
No. of Points:	252

LUMINAIRE INFORMATION

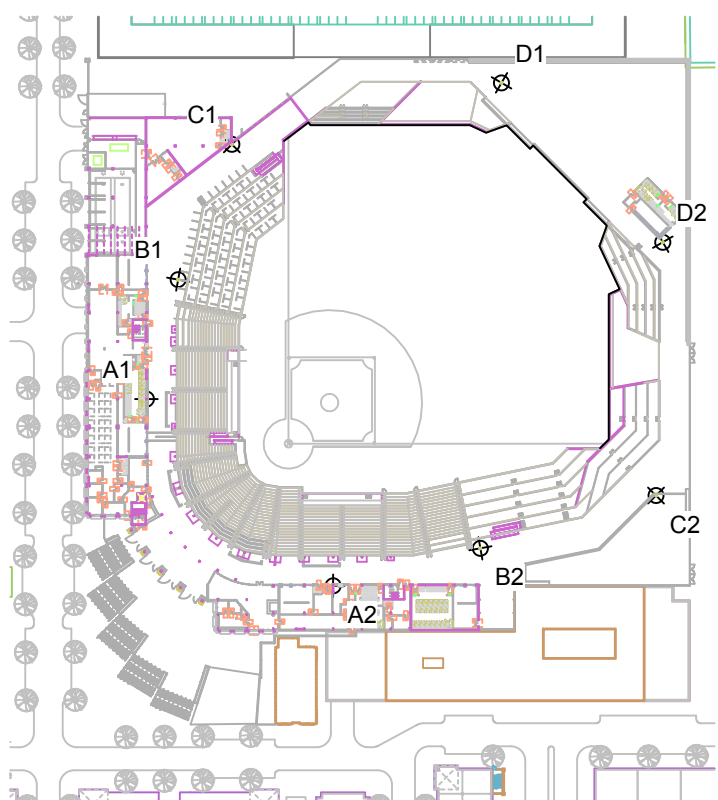
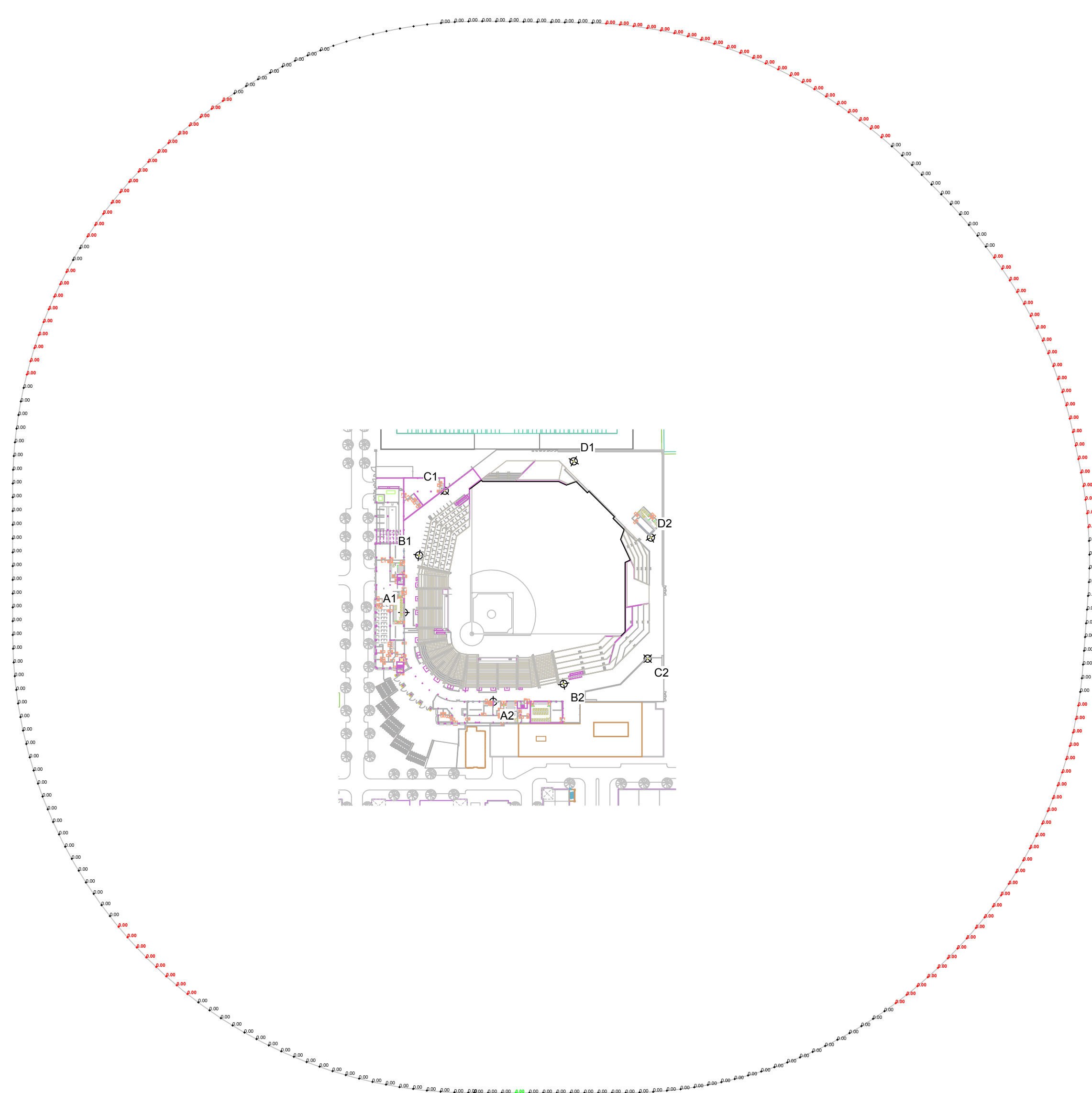
Luminaire Type: Green Generation / QUARTZ
 Design Usage Hours: 5,000 hours
 Design Lumens: 134,000 / 33,000
 Avg Lamp Tilt Factor: 1.000
 No. of Luminaires: 172
 Avg KW: 266.7 (285.2 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

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.



SCALE IN FEET 1 : 200
 0' 200' 400'

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

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EQUIPMENT LIST FOR AREAS SHOWN									
QTY	LOCATION	Pole		Luminaires					
		SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A1-A2	70'	50'	120'	1500W MZ	18	18	0	
2	B1-B2	90'	18'	108'	1500W Quartz	6	6	0	
3	C1, D1-D2	90'	18'	108'	1500W MZ	24	24	0	
3	C1, D1-D2	90'	18'	108'	1500W Quartz	6	6	0	
1	C2	90'	20.5'	110.5'	1500W Quartz	6	6	0	
1	C2	90'	20.5'	110.5'	1500W MZ	13	13	0	
8	TOTALS						172	172	0

MY PROJECT
 Name: Columbia Baseball Stadium
 Location: Columbia, SC

GRID SUMMARY
 Name: Baseball 1000' Spill
 Spacing: 30.0'
 Height: 3.0' above grade

CONSTANT ILLUMINATION

SUMMARY	MAX VERTICAL FOOTCANDLES
Entire Grid	
Scan Average:	0.0002
Maximum:	0.004
Minimum:	0.000
No. of Points:	252

LUMINAIRE INFORMATION

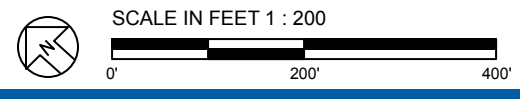
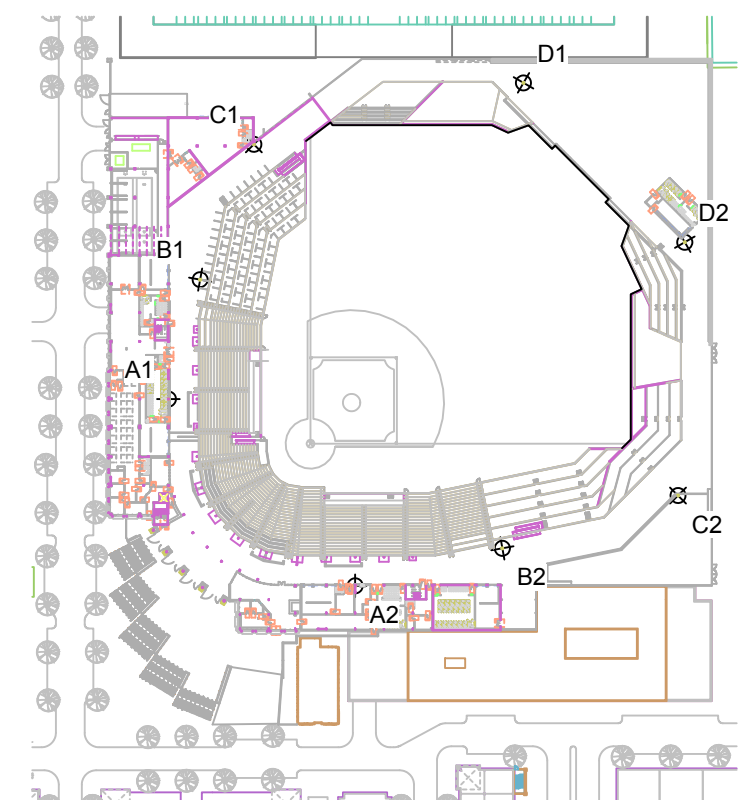
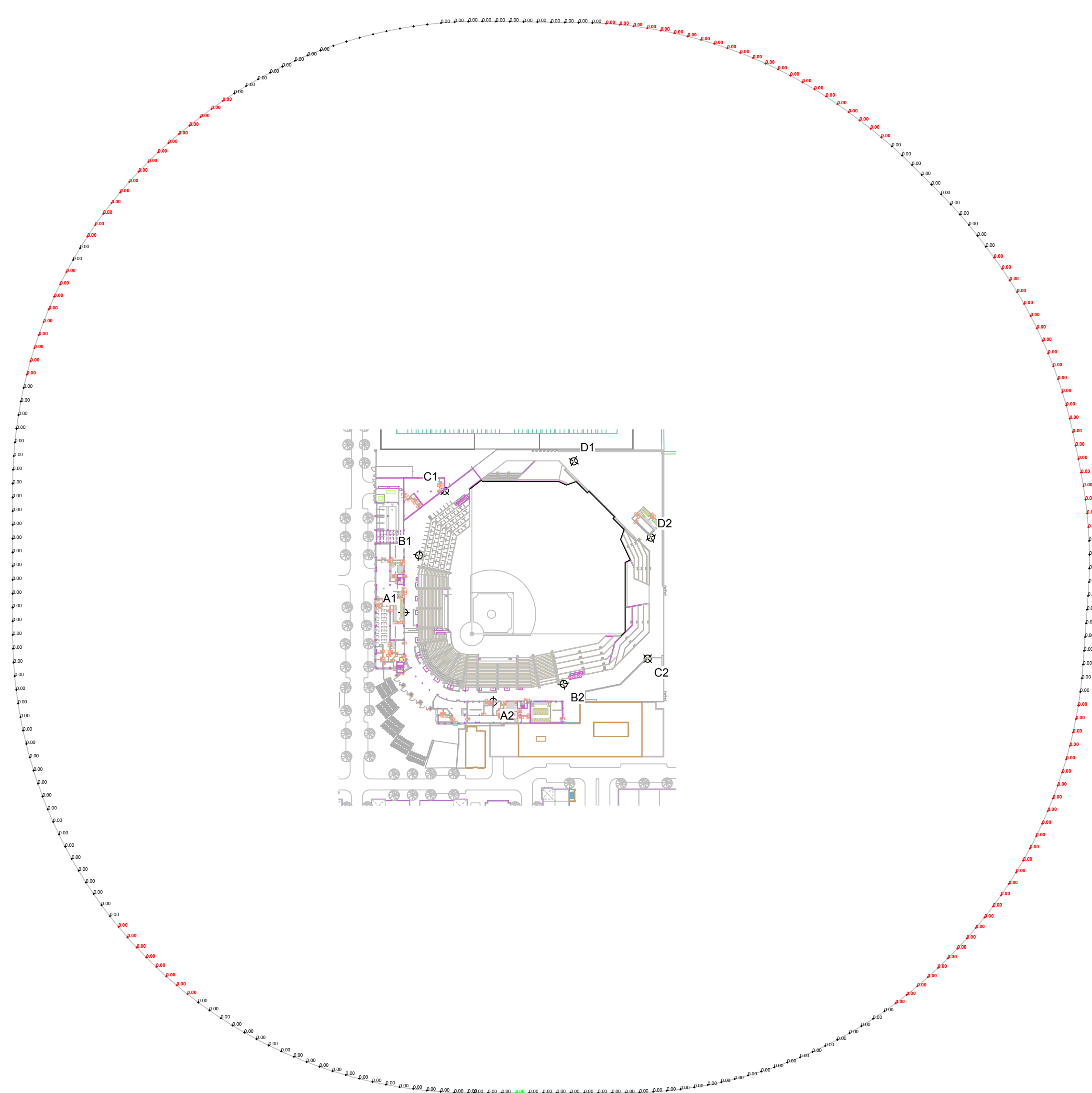
Luminaire Type: Green Generation / QUARTZ
 Design Usage Hours: 5,000 hours
 Design Lumens: 134,000 / 33,000
 Avg Lamp Tilt Factor: 1.000
 No. of Luminaires: 172
 Avg KW: 266.7 (285.2 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

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.



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

ENGINEERED DESIGN
 By: Ben Drost
 File # / Date: 168172ap-sp 05-Jan-16

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