

Lighting System

Pole/Fixture Summary

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1	70'	70'	3	TLC-LED-1500	4.23 kW	A
1		28'	2	TLC-BT-1500	2.86 kW	A
			5		7.09 kW	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Driving Range	7.09 kW	5

Fixture Type Summary

Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	2
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	3

Single Luminaire Amperage Draw Chart

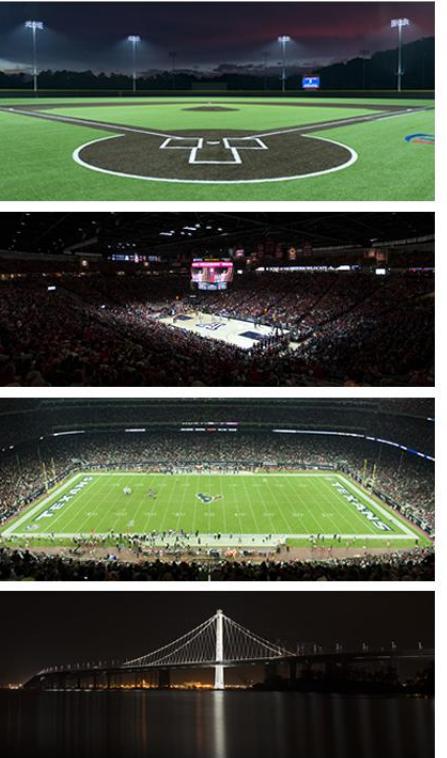
Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-BT-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Driving Range 100'	Golfer's Eye	1.22	0	11	262.38		A	5
Driving Range 100'	North Illuminance	0.91	0	9	3344.58		A	5
Driving Range 25'	Golfer's Eye	3.07	0	27	0.00		A	5
Driving Range 25'	North Illuminance	2.69	0	36	21896.96		A	5
Driving Range 3'	Golfer's Eye	2.79	0	22	0.00		A	5
Driving Range 3'	Horizontal Illuminance	0.72	0	21	0.00		A	5
Driving Range 3'	North Illuminance	2.22	0	19	0.00		A	5
Driving Range 50'	Golfer's Eye	2.94	0	46	1489.19		A	5
Driving Range 50'	North Illuminance	3.07	0	132	122196.93		A	5
Driving Range 75'	Golfer's Eye	2.04	0	31	770.93		A	5
Driving Range 75'	North Illuminance	1.85	0	51	37769.01		A	5
Tee Box	Horizontal	13.6	0	22	0.00		A	5

From Hometown to Professional



TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Tee Box
Size	570' x 845'
Spacing	10.0' x 10.0'
Height	3.0' above grade

Illumination Summary

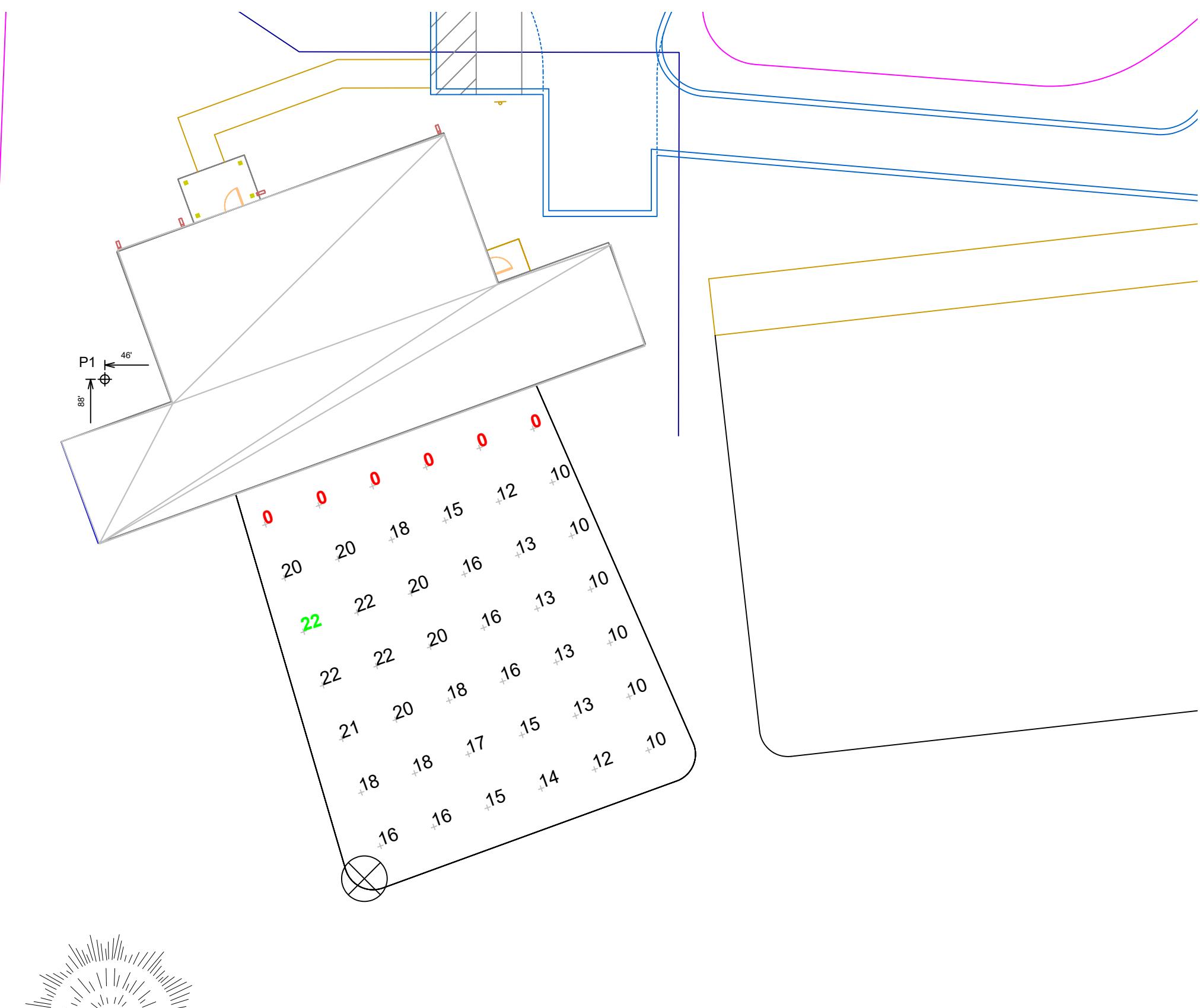
MAINTAINED HORIZONTAL FOOTCANDLES	
Guaranteed Average	10
Scan Average	13.59
Maximum	22
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	1.32
CU	0.08
No. of Points	42
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Driving Range 3'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average	0.72
Maximum	21
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	2.52
CU	0.48
No. of Points	532
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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SCALE IN FEET 1 : 120
 Pole location(s) dimensions are relative
 to 0,0 reference point(s)

0' 120' 240'
 ENGINEERED DESIGN By: J.Seda • File #226862F_1 • 09-Feb-24



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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Driving Range 3'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary

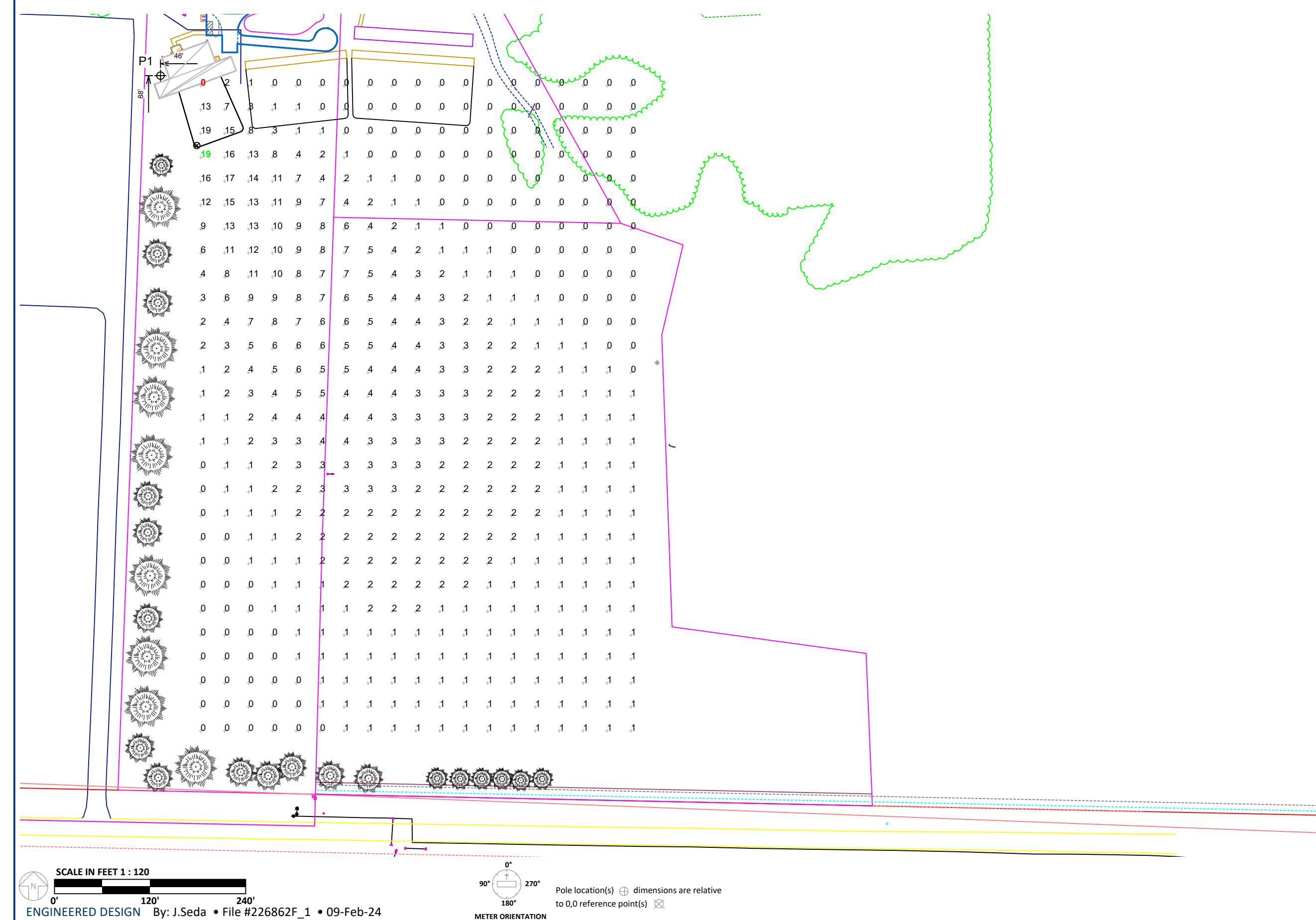
MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt	
Scan Average	2.22
Maximum	19
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	4.79
CU	0.48
No. of Points	532
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Driving Range 3'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary

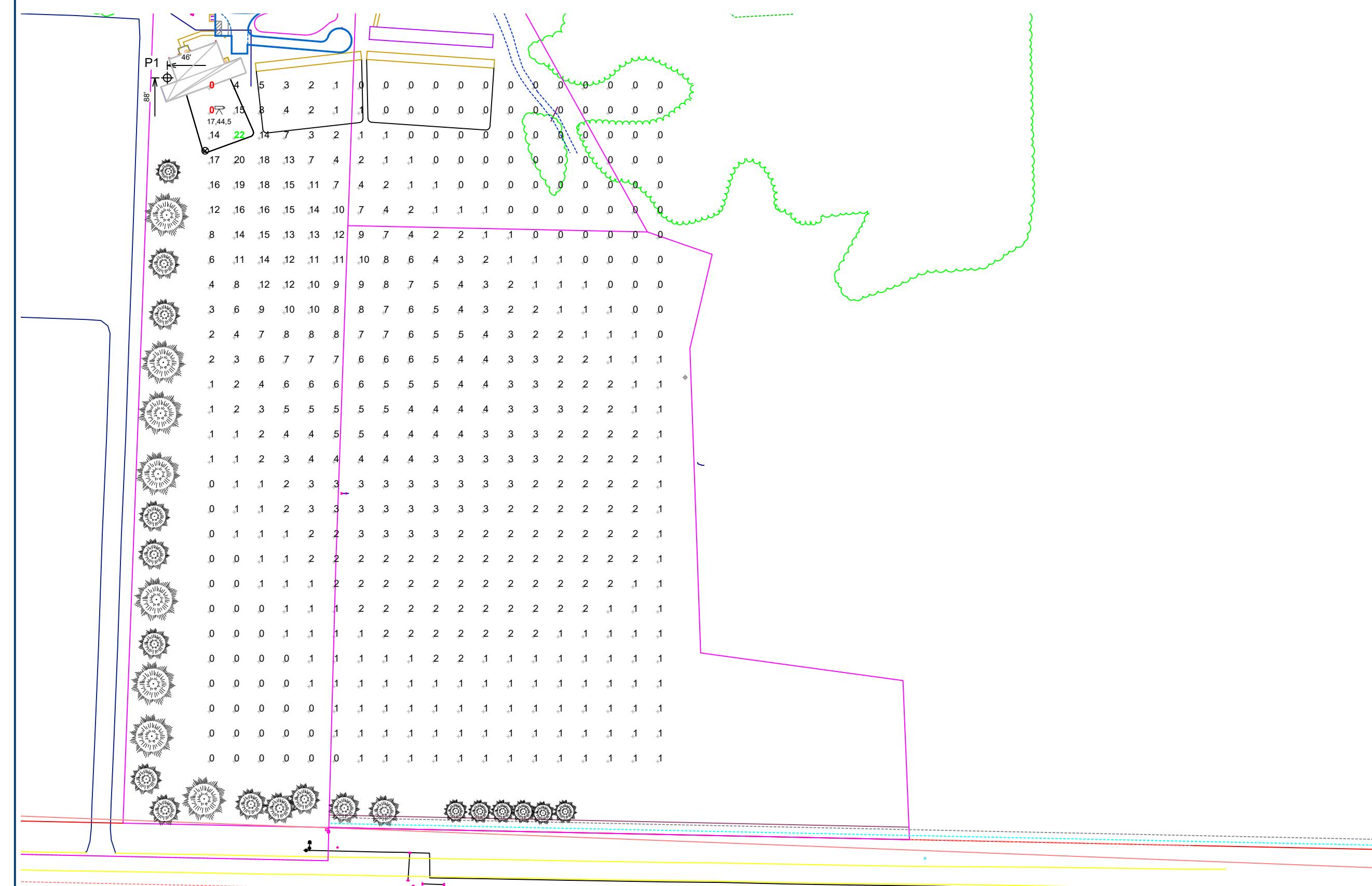
MAINTAINED TV FOOTCANDLES: Golfer's Eye	
Scan Average	2.79
Maximum	22
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	3.43
CU	0.48
No. of Points	532
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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



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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Driving Range 25'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	25.0' above grade

Illumination Summary

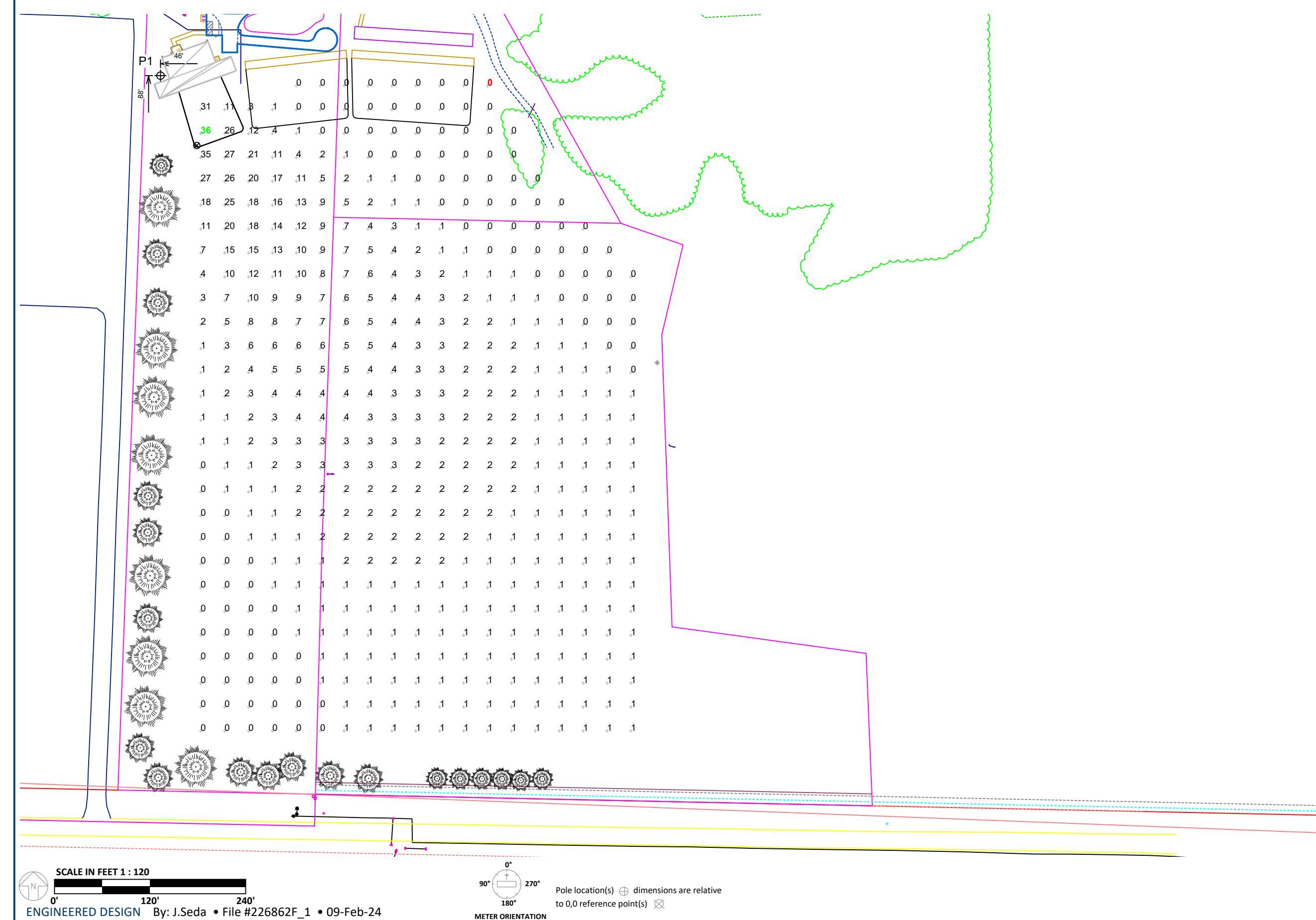
MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt	
Entire Grid	Scan Average 2.69
Maximum	36
Minimum	0
Avg/Min	1615.42
Max/Min	21896.96
UG (adjacent pts)	4.81
CU	0.41
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Driving Range 50'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	50.0' above grade

Illumination Summary

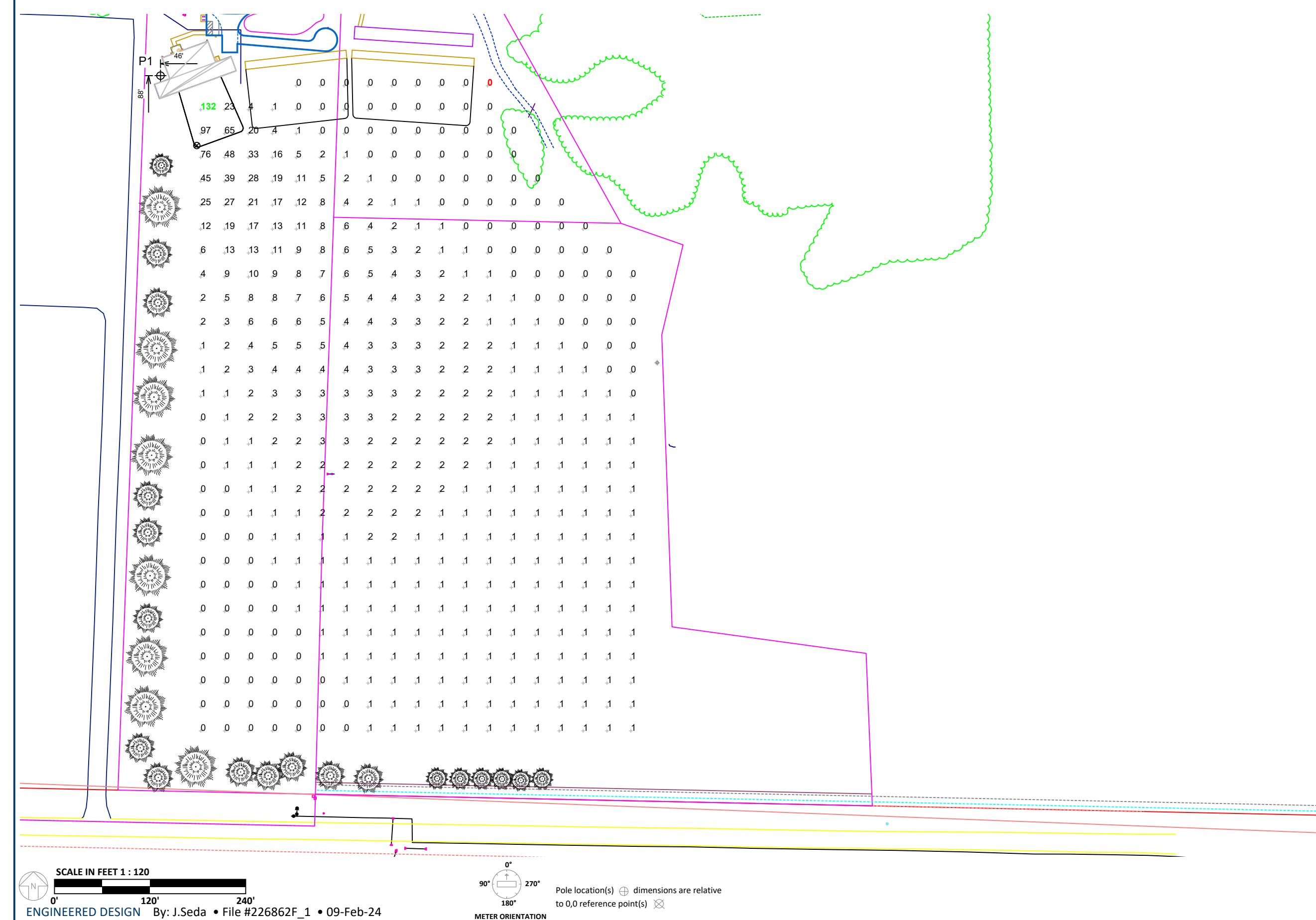
MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt	
Entire Grid	Scan Average 3.07
Maximum	132
Minimum	0
Avg/Min	2849.96
Max/Min	122196.93
UG (adjacent pts)	5.95
CU	0.26
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Driving Range 50'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	50.0' above grade

Illumination Summary

MAINTAINED TV FOOTCANDLES: Golfer's Eye	
Entire Grid	Scan Average 2.94
Maximum	46
Minimum	0
Avg/Min	95.42
Max/Min	1489.19
UG (adjacent pts)	4.32
CU	0.26
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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Pole location(s) \oplus dimensions are relative
to 0,0 reference point(s) \otimes



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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Driving Range 75'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	75.0' above grade

Illumination Summary

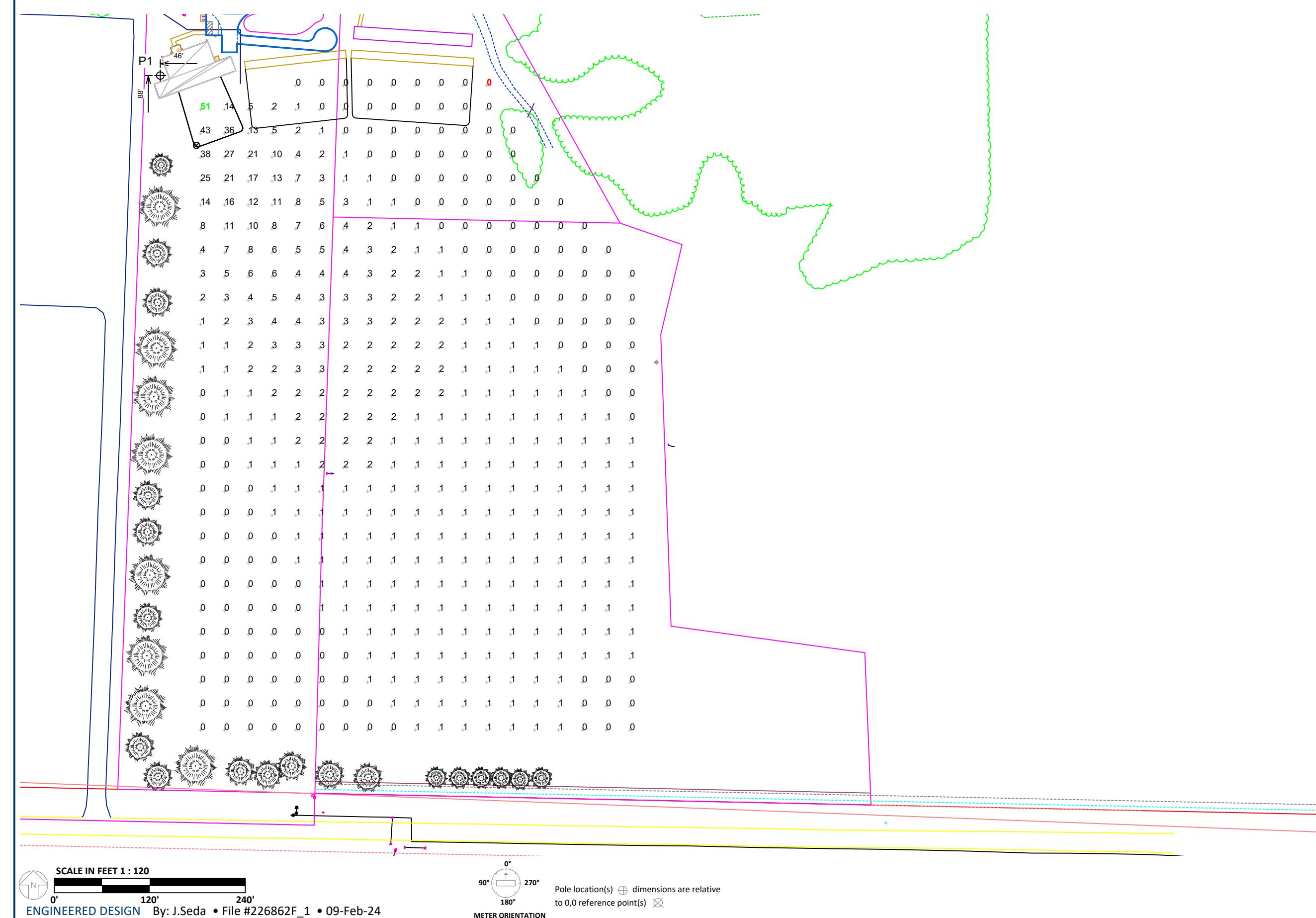
MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt	
Entire Grid	Scan Average 1.85
Maximum	51
Minimum	0
Avg/Min	1372.74
Max/Min	37769.01
UG (adjacent pts)	8.00
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Driving Range 75'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	75.0' above grade

Illumination Summary

MAINTAINED TV FOOTCANDLES: Golfer's Eye	
Entire Grid	Scan Average 2.04
Maximum	31
Minimum	0
Avg/Min	50.40
Max/Min	770.93
UG (adjacent pts)	2.56
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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SCALE IN FEET 1 : 120

0' 120' 240'
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Pole location(s) + dimensions are relative
to 0,0 reference point(s) ○



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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name	Driving Range 100'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	100.0' above grade

Illumination Summary

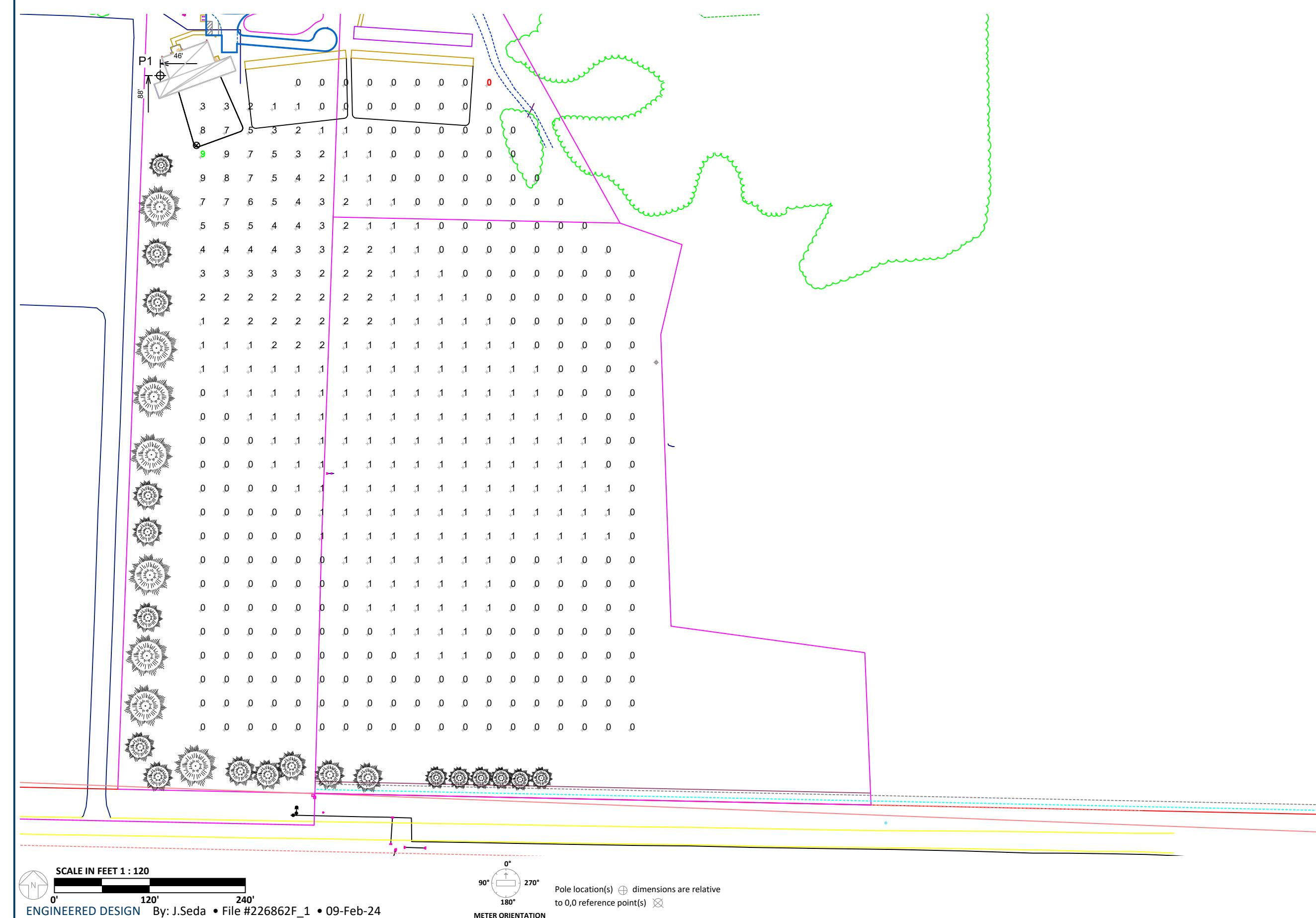
MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt	
Entire Grid	0.91
Scan Average	0.91
Maximum	9
Minimum	0
Avg/Min	343.83
Max/Min	3344.58
UG (adjacent pts)	7.99
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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ILLUMINATION SUMMARY

Grid Summary

Name	Driving Range 100'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	100.0' above grade
Illumination Summary	
MAINTAINED TV FOOTCANDLES: Golfer's Eye	
Entire Grid	
Scan Average	1.22
Maximum	11
Minimum	0
Avg/Min	29.94
Max/Min	262.38
UG (adjacent pts)	2.51
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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A scale bar and north arrow are located in the bottom right corner. The scale bar is labeled 'SCALE IN FEET 1 : 120' and includes a north arrow pointing upwards.

Pole location(s) \oplus dimensions are relative to 0.0 reference point(s) \otimes

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name: Road Spill_Horizontal
Spacing: 30.0' x 10.0'
Height: 3.0' above grade

Illumination Summary

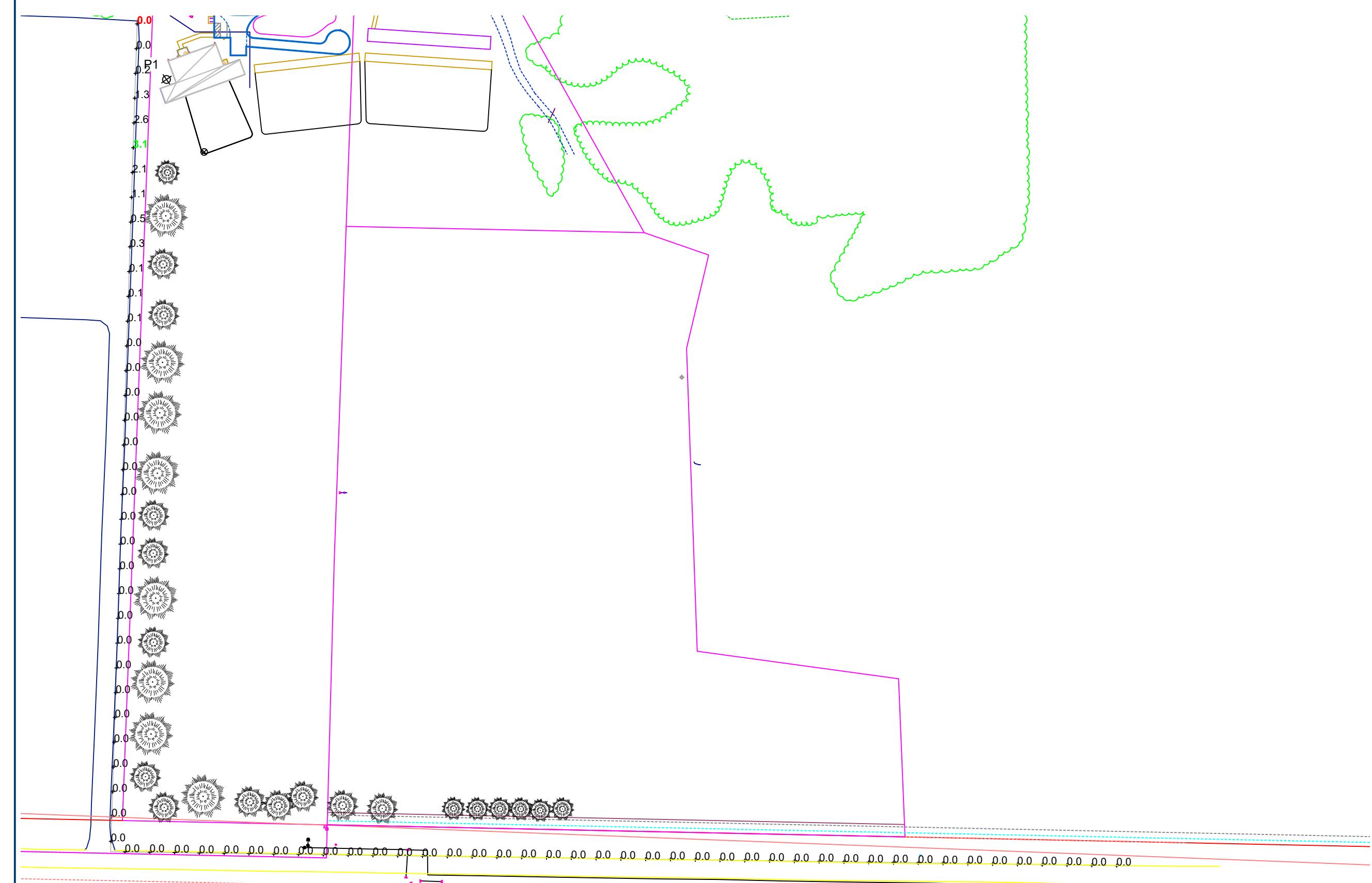
MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average	0.17
Maximum	3
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.01
No. of Points	75
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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SCALE IN FEET 1 : 120
0' 120' 240'
Pole location(s) dimensions are relative to 0,0 reference point(s)

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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary

Name Road Spill_Ver

Spacing 30.0' x 10.0'

Height 5.0' above grade

Illumination Summary

MAINTAINED MAX VERTICAL FOOTCANDLES

Scan Average 0.55

Maximum 5

Minimum 0

Avg/Min -

Max/Min -

UG (adjacent pts) 0.00

CU 0.01

No. of Points 75

LUMINAIRE INFORMATION

Applied Circuits A

No. of Luminaires 5

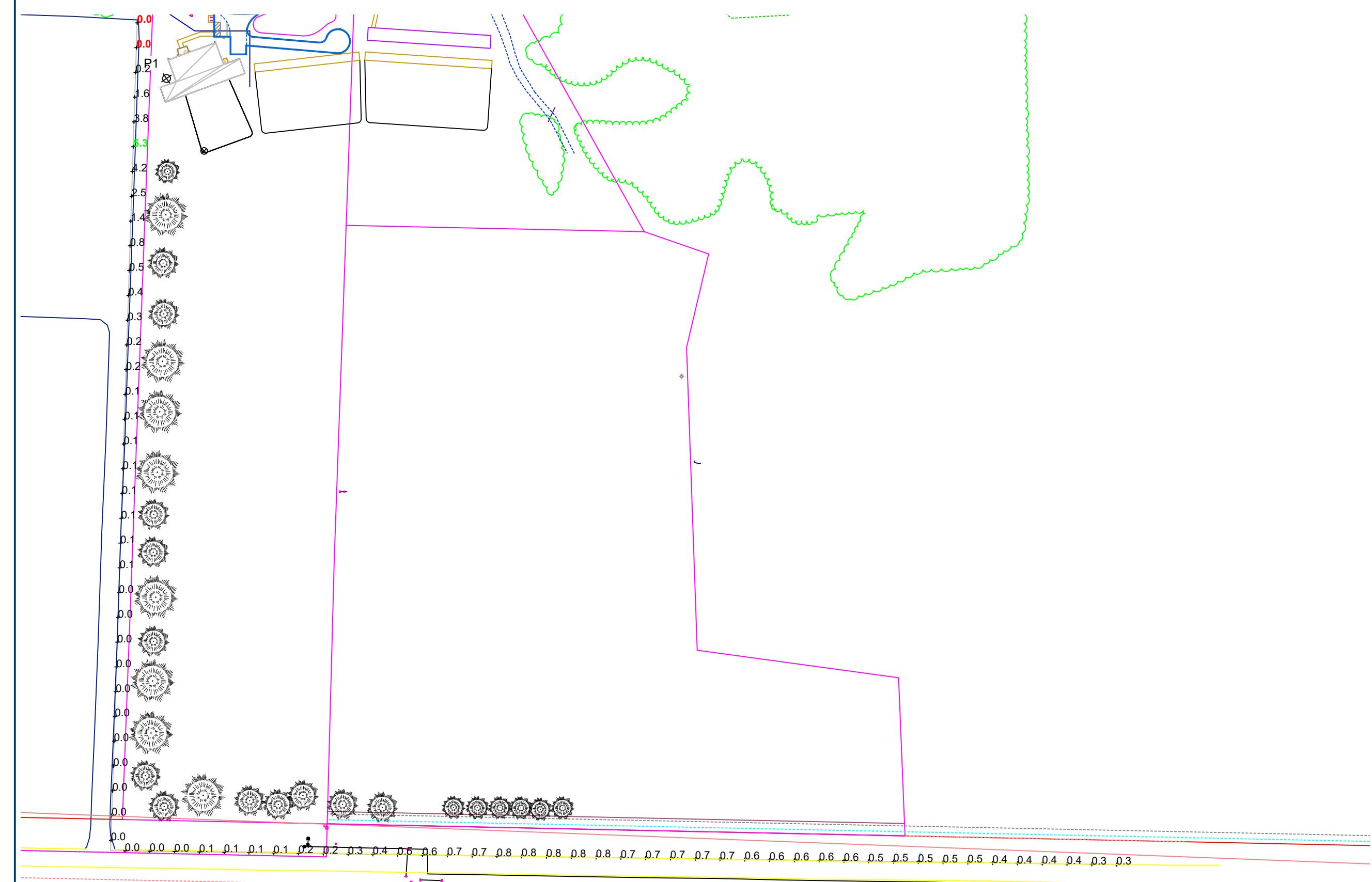
Total Load 7.09 kW

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SCALE IN FEET 1 : 120
 Pole location(s) dimensions are relative
 to 0,0 reference point(s)

0' 120' 240'
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ILLUMINATION SUMMARY

TPC Wisconsin Driving Range

Madison, WI USA

Equipment Layout

INCLUDES:

- Driving Range

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	SIZE	GRADE ELEVATION	Luminaires		QTY/POLE
				ABOVE GRADE LEVEL	LUMINAIRE TYPE	
1	P1	70'	-	71.0'	TLC-LED-1500	3
				28'	TLC-BT-1500	2
1	Totals					

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	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-BT-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6



SCALE IN FEET 1 : 120

0' 120' 240'

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EQUIPMENT LAYOUT