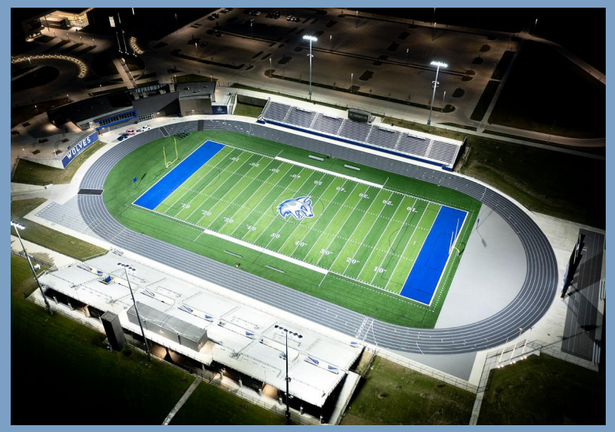
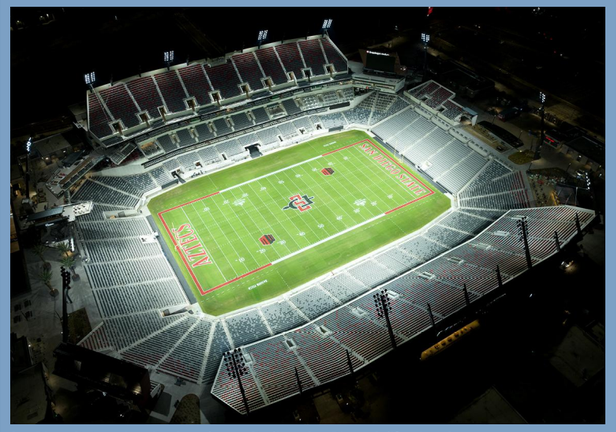
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Elk River High School Stadium, Elk River, Minnesota, USA



Waukee Northwest High School, Waukee, Iowa, USA



San Diego State University, Snapdragon Stadium, San Diego, California, USA



AT&T Stadium, Dallas Cowboys, Arlington, Texas, USA

Dexter High School - Al Ritt Stadium

Dexter,MI

Sales Representative: Will McIntosh · Designed By: Branson Bottorff · Design No.: 237119B · August 29, 2025

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Dexter High School - Al Ritt Stadium

Dexter,MI

LIGHTING SYSTEM

Structure/Fixture Summary

Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Design Load	Circuit
F1-F2	90'	90'	9	TLC-LED-1500	12.69 kW	A
		30'	3	TLC-BT-575	1.72 kW	A
F3	80'	80'	5	TLC-LED-1500	6.98 kW	B
		80'	7	TLC-LED-1500	9.87 kW	A
		23'	3	TLC-BT-575	1.72 kW	A
F4	80'	80'	7	TLC-LED-1500	9.87 kW	A
		23'	3	TLC-BT-575	1.72 kW	A
4			**49**		**59.00 kW**	

*Fixtures in this design have dimmed output values to meet design specific needs.

Circuit Summary

Circuit	Description	Design Load	Fixture Qty
A	Football	52.02 kW	44
B	Field Events	6.99 kW	5

Fixture Type Summary

Type	Circuit	Source	Avg. Wattage	Avg. Lumens	L90	L80	L70	Quantity
TLC-BT-575	A	LED 5700K - 75 CRI	575W	52,217	>120,000	>120,000	>120,000	12
TLC-LED-1500	A	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	32
TLC-LED-1500	B	LED 5700K - 75 CRI	1397W	182,800	>120,000	>120,000	>120,000	5

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (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
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5

*Amp draw based on 100% fixture output, consult design specific datasheet for adjusted amperage draw chart

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
150' Spill	Horizontal Illuminance	0.0156	0.00	0.07	265.028	62.844	A	44
150' Spill	Max Vertical Illuminance Metric	0.0444	0.00	0.17	176.474	45.155	A	44
150' Spill (Cd)	Max Candela Metric	1759.0778	15.16	6155.37	406.038	116.037	A	44
Away Bleachers	Horizontal	9.57	6	14	2.31	1.54	A	44
Baker Road Spill	Horizontal	0.00	0	0	-	-	B	5
Baker Road Spill	Max Candela (by Fixture)	835.12	0	3950	-	-	B	5
Baker Road Spill	Max Vertical Illuminance Metric	0.01	0	0	-	-	B	5
Field Events	Horizontal Illuminance	8.64	0	24	73.93	27.15	B	5
Football	Horizontal Illuminance	50.95	37	67	1.80	1.37	A	44
Home Bleachers	Horizontal	16.37	7	24	3.57	2.48	A	44
Soccer	Horizontal Illuminance	50.48	36	65	1.77	1.38	A	44
Track	Horizontal Illuminance	21.78	2	44	28.71	14.30	A	44

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

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

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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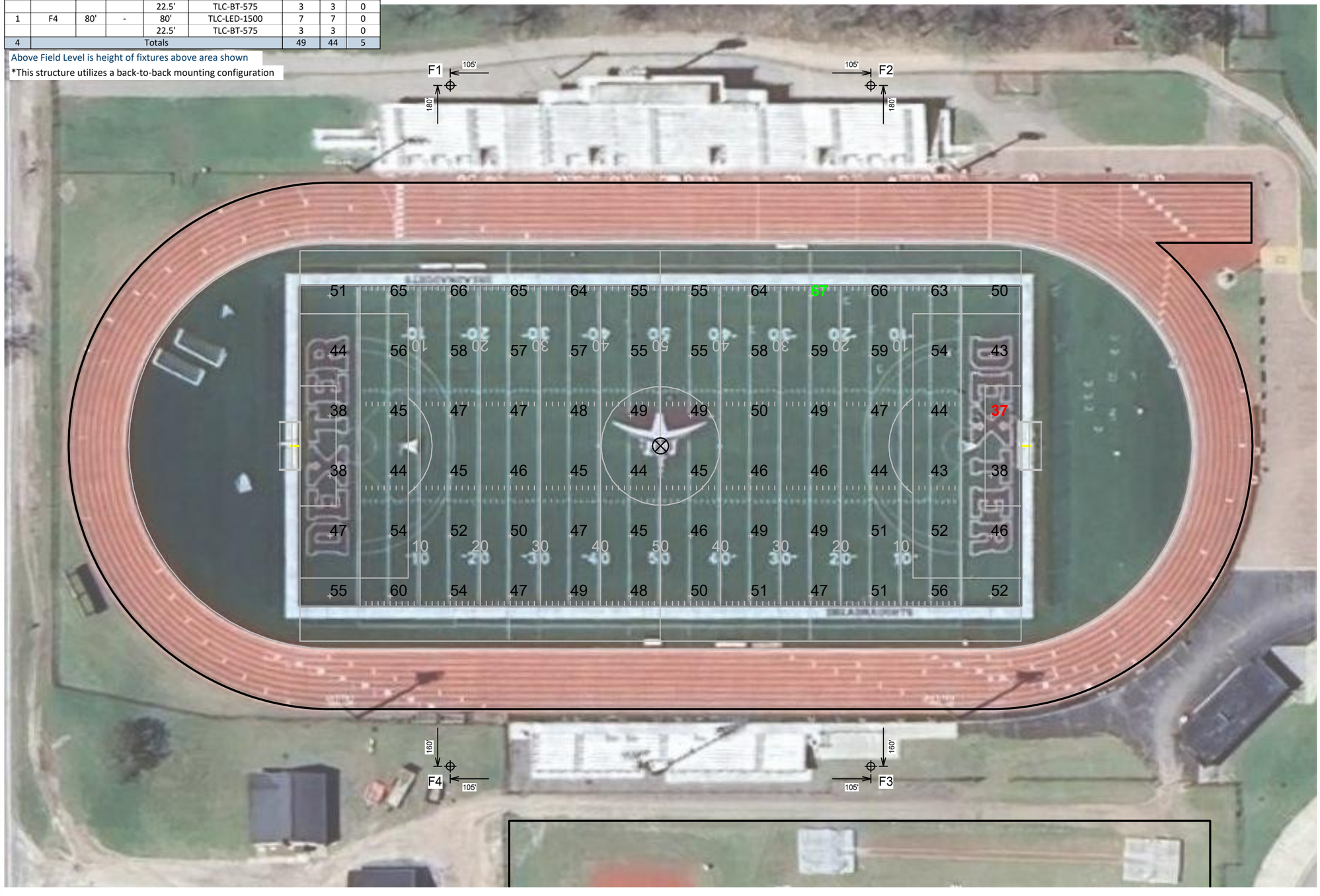
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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	90'	-	90'	TLC-LED-1500	9	9	0
				30'	TLC-BT-575	3	3	0
1	F3	80'	-	80'	TLC-LED-1500	7/5*	7	5
				22.5'	TLC-BT-575	3	3	0
1	F4	80'	-	80'	TLC-LED-1500	7	7	0
				22.5'	TLC-BT-575	3	3	0
4	Totals					49	44	5

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 50

0' 50' 100'

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

Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

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

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	Entire Grid
Guaranteed Average:	**50**
Scan Average:	50.95
Maximum:	67
Minimum:	37
Avg/Min:	1.37
Guaranteed Max/Min:	**2**
Max/Min:	1.80
UG (adjacent pts):	1.28
CU:	0.52
No. of Points:	72
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**44**
Total Load:	52.02 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.

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.

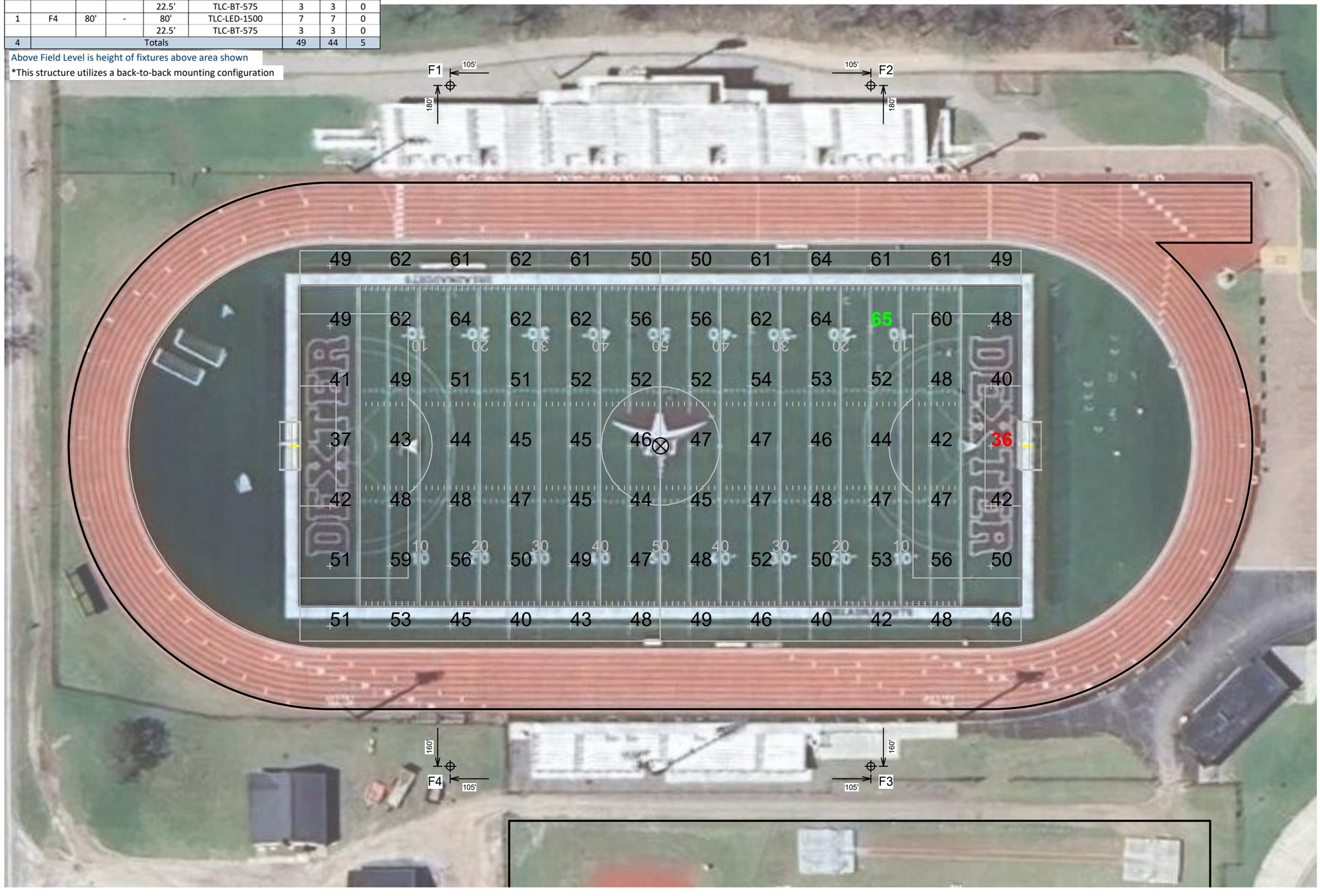
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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	90'	-	90'	TLC-LED-1500	9	9	0
				30'	TLC-BT-575	3	3	0
1	F3	80'	-	80'	TLC-LED-1500	7/5*	7	5
				22.5'	TLC-BT-575	3	3	0
1	F4	80'	-	80'	TLC-LED-1500	7	7	0
				22.5'	TLC-BT-575	3	3	0
4	Totals					49	44	5

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 50

0' 50' 100'

ENGINEERED DESIGN By: Branson Bottorff • File #237119B • 29-Aug-25

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

Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**Soccer**
Size:	360' x 195'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	Entire Grid
Guaranteed Average:	**50**
Scan Average:	50.48
Maximum:	65
Minimum:	36
Avg/Min:	1.38
Guaranteed Max/Min:	**2**
Max/Min:	1.77
UG (adjacent pts):	1.27
CU:	0.60
No. of Points:	84
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**44**
Total Load:	52.02 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.

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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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	90'	-	90'	TLC-LED-1500	9	9	0
				30'	TLC-BT-575	3	3	0
1	F3	80'	-	80'	TLC-LED-1500	7/5*	7	5
				22.5'	TLC-BT-575	3	3	0
1	F4	80'	-	80'	TLC-LED-1500	7	7	0
				22.5'	TLC-BT-575	3	3	0
4	Totals					49	44	5

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

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

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Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**Track**
Size:	Irregular
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**21.78**
Maximum:	44
Minimum:	2
Avg/Min:	14.30
Max/Min:	**28.71**
UG (adjacent pts):	0.00
CU:	0.14
No. of Points:	46
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**44**
Total Load:	52.02 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.

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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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	90'	-	90'	TLC-LED-1500	9	9	0
				30'	TLC-BT-575	3	3	0
1	F3	80'	-	80'	TLC-LED-1500	7/5*	7	5
				22.5'	TLC-BT-575	3	3	0
1	F4	80'	-	80'	TLC-LED-1500	7	7	0
				22.5'	TLC-BT-575	3	3	0
4	Totals					49	44	5

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 30

0' 30' 60'

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

Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name: Away Bleachers
Size: Irregular
Spacing: 10.0' x 10.0'

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**9.57**
Maximum:	14
Minimum:	6
Avg/Min:	1.54
Max/Min:	**2.31**
UG (adjacent pts):	1.52
CU:	0.01
No. of Points:	42
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**44**
Total Load:	52.02 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.

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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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	90'	-	90'	TLC-LED-1500	9	9	0
				30'	TLC-BT-575	3	3	0
1	F3	80'	-	80'	TLC-LED-1500	7/5*	7	5
				22.5'	TLC-BT-575	3	3	0
1	F4	80'	-	80'	TLC-LED-1500	7	7	0
				22.5'	TLC-BT-575	3	3	0
4	Totals					49	44	5

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 40

0' 40' 80'

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

Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**Home Bleachers**
Size:	Irregular
Spacing:	10.0' x 10.0'

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**16.37**
Maximum:	24
Minimum:	7
Avg/Min:	2.48
Max/Min:	**3.57**
UG (adjacent pts):	1.37
CU:	0.02
No. of Points:	108
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**44**
Total Load:	52.02 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.

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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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	F3	80'	-	80'	TLC-LED-1500	7/5*	5	7
				22.5'	TLC-BT-575	3	0	3
1	Totals					15	5	10

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 50

0' 50' 100'

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

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Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**Field Events**
Size:	350' x 300'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	Entire Grid
Scan Average:	**8.64**
Maximum:	24
Minimum:	0
Avg/Min:	27.15
Max/Min:	**73.93**
UG (adjacent pts):	1.55
CU:	0.86
No. of Points:	909
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	**5**
Total Load:	6.98 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.

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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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	F3	80'	-	80'	TLC-LED-1500	7/5*	5	7
				22.5'	TLC-BT-575	3	0	3
1	Totals					15	5	10

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**Baker Road Spill**
Size:	350' x 300'
Spacing:	30.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.00**
Maximum:	0
Minimum:	0
Avg/Min:	-
Max/Min:	**-**
UG (adjacent pts):	0.00
CU:	0.00
No. of Points:	20
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	**5**
Total Load:	6.98 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.

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.

SCALE IN FEET 1 : 60

0' 60' 120'

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

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	F3	80'	-	80'	TLC-LED-1500	7/5*	5	7
				22.5'	TLC-BT-575	3	0	3
1	Totals					15	5	10

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**Baker Road Spill**
Size:	350' x 300'
Spacing:	30.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED MAX VERTICAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.01**
Maximum:	0
Minimum:	0
Avg/Min:	-
Max/Min:	**-**
UG (adjacent pts):	0.00
CU:	0.00
No. of Points:	20
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	**5**
Total Load:	6.98 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.

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.

SCALE IN FEET 1 : 60

0' 60' 120'

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

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	F3	80'	-	80'	TLC-LED-1500	7/5*	5	7
				22.5'	TLC-BT-575	3	0	3
1	Totals					15	5	10

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**Baker Road Spill**
Size:	350' x 300'
Spacing:	30.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED MAX CANDELA (PER FIXTURE)
	Entire Grid
Scan Average:	**835.12**
Maximum:	3950
Minimum:	0
Avg/Min:	-
Max/Min:	**-**
UG (adjacent pts):	0.00
CU:	0.00
No. of Points:	20
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	**5**
Total Load:	6.98 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.

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.

SCALE IN FEET 1 : 60

0' 60' 120'

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

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	90'	-	90'	TLC-LED-1500	9	9	0
				30'	TLC-BT-575	3	3	0
1	F3	80'	-	80'	TLC-LED-1500	7/5*	7	5
				22.5'	TLC-BT-575	3	3	0
1	F4	80'	-	80'	TLC-LED-1500	7	7	0
				22.5'	TLC-BT-575	3	3	0
4	Totals					49	44	5

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 100

0' 100' 200'

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

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Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**150' Spill**
Spacing:	30.0'
Height:	3.0' above grade

Illumination Summary

	INITIAL HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.0156**
Maximum:	0.07
Minimum:	0.00
CU:	0.00
No. of Points:	81
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**44**
Total Load:	52.02 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.

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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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	90'	-	90'	TLC-LED-1500	9	9	0
				30'	TLC-BT-575	3	3	0
1	F3	80'	-	80'	TLC-LED-1500	7/5*	7	5
				22.5'	TLC-BT-575	3	3	0
1	F4	80'	-	80'	TLC-LED-1500	7	7	0
				22.5'	TLC-BT-575	3	3	0
4	Totals					49	44	5

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**150' Spill**
Spacing:	30.0'
Height:	3.0' above grade

Illumination Summary

	INITIAL MAX VERTICAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.0444**
Maximum:	0.17
Minimum:	0.00
CU:	0.00
No. of Points:	81
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**44**
Total Load:	52.02 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.

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.

SCALE IN FEET 1 : 100

0' 100' 200'

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

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Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	90'	-	90'	TLC-LED-1500	9	9	0
				30'	TLC-BT-575	3	3	0
1	F3	80'	-	80'	TLC-LED-1500	7/5*	7	5
				22.5'	TLC-BT-575	3	3	0
1	F4	80'	-	80'	TLC-LED-1500	7	7	0
				22.5'	TLC-BT-575	3	3	0
4	Totals					49	44	5

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 100

0' 100' 200'

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

ENGINEERED DESIGN By: Branson Bottorff • File #237119B • 29-Aug-25

Dexter High School - Al Ritt Stadium

Dexter,MI

Grid Summary

Name:	**150' Spill (Cd)**
Spacing:	30.0'
Height:	5.0' above grade

Illumination Summary

	INITIAL CANDELA (PER FIXTURE)
	Entire Grid
Scan Average:	**1759.0778**
Maximum:	6155.37
Minimum:	15.16
CU:	0.00
No. of Points:	81
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**44**
Total Load:	52.02 kW

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

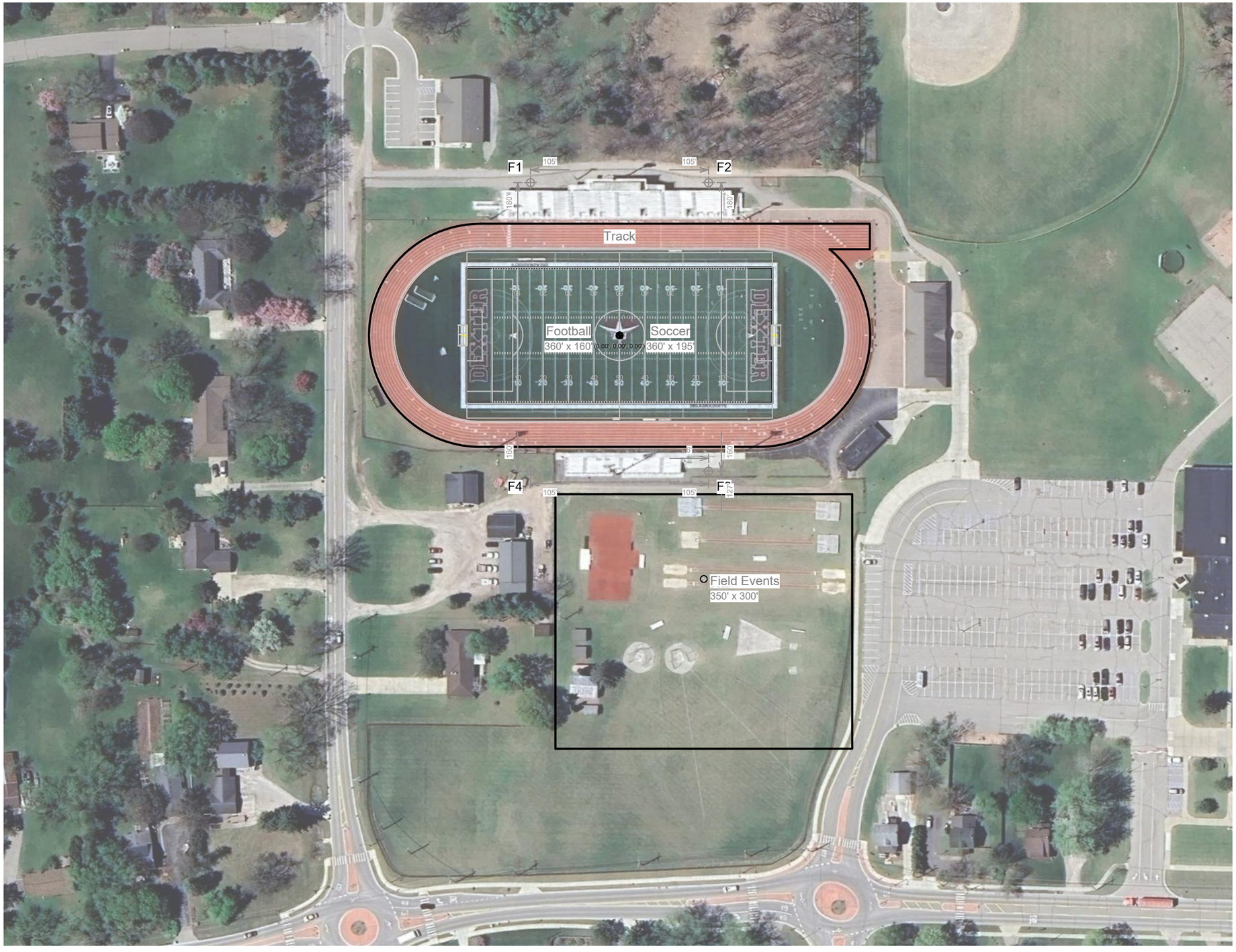
Field Measurements: Individual field measurements may vary from computer-calculated predictions.

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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Dexter High School - Al Ritt Stadium

Dexter,MI

Equipment Layout

INCLUDES:
· Field Events
· Football
· Soccer
· Track

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.

Equipment List For Areas Shown

Structure				Fixtures		
QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	ABOVE GLOBAL LEVEL	FIXTURE TYPE	QTY/POLE
2	F1-F2	90'	-	90' 30'	TLC-LED-1500 TLC-BT-575	9 3
1	F3	80'	-	80' 22.5'	TLC-LED-1500 TLC-BT-575	7/5* 3
1	F4	80'	-	80' 22.5'	TLC-LED-1500 TLC-BT-575	7 3
4	Totals					49

*This structure utilizes a back-to-back mounting configuration

Above Global Level is height of fixtures above design (0,0,0)

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (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
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5

*Amp draw based on 100% fixture output, consult design specific datasheet for adjusted amperage draw chart

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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