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## FWA Group

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GI-001

ELECTRICAL NOTES AND SPECIFICATIONS:

1. ELECTRICAL INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE PRESENTLY EFFECTIVE VERSION OF THE NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE STATE OR LOCAL CODES, LAWS, AND ORDINANCES. WHERE ONE CODE DIFFERS FROM ANOTHER, THE MORE STRINGENT SHALL APPLY.
2. THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL SCOPE OF WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.
3. WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL OBTAIN ALL LICENSES, PERMITS, INSPECTIONS, AND CERTIFICATES OF APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION AND SHALL PAY ALL FEES REQUIRED FOR THE EXECUTION OF THIS WORK. SATISFACTORY EVIDENCE OF COMPLIANCE WITH THE REQUIREMENTS AND ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER PROMPTLY UPON REQUEST. THE CONTRACTOR SHALL ALSO PAY FOR ANY REQUIRED TEST(S) AND PROVIDE ALL NECESSARY LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO PERFORM THE TEST(S).
5. ALL WORK SHALL BE PERFORMED IN A NEAT, CLEAN, AND ORDERLY MANNER. ALL WIRING AND RACEWAYS SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE.
6. THE CONTRACTOR SHALL SUPPLY ALL MATERIAL, EQUIPMENT, TOOLS, TRANSPORTATION, AND SUPERVISION TO PROVIDE A COMPLETE AND SATISFACTORILY OPERATING ELECTRICAL SYSTEM. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR STORING AND HANDLING ALL MATERIALS; THIS INCLUDES ANY OWNER SUPPLIED MATERIAL, FIXTURES OR EQUIPMENT.
7. ALL MATERIAL, EQUIPMENT, AND FIXTURES SHALL BE SPECIFICATION GRADE, NEW, AND U.L. LISTED FOR THE PURPOSE FOR WHICH IT IS USED.
8. THE ENTIRE ELECTRICAL SYSTEM SHALL BE FREE OF IMPROPER GROUNDS, SHORT OR OPEN CIRCUITS AND BE TESTED PRIOR TO ENERGIZING THE SYSTEM. ANY DEFECTS DISCOVERED DURING TESTING SHALL BE CORRECTED BY THE CONTRACTOR.
9. CONTRACTOR SHALL GUARANTEE ELECTRICAL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL FURNISH A WRITTEN COPY OF THE GUARANTEE TO THE OWNER. CONTRACTOR SHALL SUPPLY ALL LABOR AND MATERIALS REQUIRED TO PERFORM ANY WARRANTY WORK AT NO CHARGE TO THE OWNER.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY POWER AS REQUIRED FOR ALL TRADES DURING THE COURSE OF THE PROJECT. TEMPORARY LIGHTING SHALL BE ADEQUATE ENOUGH TO ENSURE WORKER SAFETY AND SHALL COMPLY WITH OSHA STANDARDS. UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY LIGHTING AND POWER.
11. ALL CONDUCTORS SHALL BE 75 DEGREE C, 600 VOLT, TYPE THWN/THHN INSULATION COPPER CONDUCTOR UNLESS NOTED OTHERWISE. ALL CONDUCTORS INSTALLED BELOW GRADE SHALL HAVE TYPE THWN INSULATION.
12. ALL BRANCH CIRCUIT WIRING SHALL BE A MINIMUM OF #12 AWG UNLESS NOTED OTHERWISE. ANY CIRCUIT INDICATED TO BE LARGER THAN #12 AWG SHALL BE SIZED AS INDICATED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
13. ALL BELOW GRADE CONDUCTORS SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
14. ALL CONDUCTORS INSTALLED ABOVE GRADE AND OUTDOORS SHALL BE IN SCHEDULE 80 PVC CONDUIT AS PERMITTED BY THE NATIONAL ELECTRIC CODE.
15. ALL CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION SUCH AS MECHANICAL EQUIPMENT, MOTORS, TRANSFORMERS, AND THE LIKE, SHALL BE MADE USING METALLIC FLEX. ALL OUTDOOR FLEX SHALL BE PVC COATED. NO METALLIC FLEX SHALL EXCEED 6 FEET IN LENGTH.
16. ALL INDOOR DISCONNECTS AND PANELS SHALL BE IN NEMA TYPE 1 ENCLOSURES, UNLESS NOTED OTHERWISE. ALL EXTERIOR DISCONNECTS, PANELS AND SIMILAR EQUIPMENT SHALL BE IN NEMA TYPE 3R ENCLOSURES UNLESS NOTED OTHERWISE. ALL EQUIPMENT SHALL HAVE THE APPROPRIATE VOLTAGE AND CURRENT RATINGS SUITABLE FOR THE APPLICATION. ALL DISCONNECTS/SAFETY SWITCHES SHALL BE TOTALLY ENCLOSED, HEAVY DUTY TYPE, AND BE HORSEPOWER RATED (IF APPLICABLE).
17. ALL WORK SHALL BE GROUNDED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE REQUIREMENTS. A COMPLETE EQUIPMENT GROUNDING SYSTEM, CONSISTING OF A GREEN INSULATED COPPER WIRE, SHALL BE INSTALLED IN EVERY CONDUIT REGARDLESS OF USE.
18. ALL PANELBOARDS SHALL HAVE THEIR SCHEDULES TYPED AND INSTALLED INSIDE THE FRONT COVER.
19. ALL ELECTRICAL EQUIPMENT (PANELBOARDS, EQUIPMENT DISCONNECTS, ETC.) SHALL BE CLEARLY IDENTIFIED WITH LAMINATED PLASTIC NAMEPLATES. ENGRAVE EQUIPMENT DESIGNATION (NAME) AND IDENTIFYING INFORMATION (VOLTAGE, PHASE, FED FROM) AS SHOWN ON THE PLANS IN 1/4" HIGH LETTERS. ALL EQUIPMENT NAMEPLATES SHALL BE WHITE WITH RAISED BLACK LETTERS. NAMEPLATES SHALL BE ATTACHED TO THE FRONT OF EQUIPMENT ENCLOSURES, WHERE CLEARLY VISIBLE, WITH ADHESIVE AS WELL AS TWO SCREWS IN OPPOSITE ENDS.
20. ALL PANELBOARDS, DISCONNECTS, TRANSFORMERS, CIRCUIT BREAKERS, AND OTHER ELECTRICAL EQUIPMENT SHALL BE MANUFACTURED BY SIEMENS, SQUARE-D, GENERAL ELECTRIC, OR EATON CORPORATION. ALL EQUIPMENT PROVIDED ON A PROJECT SHALL BE OF THE SAME MANUFACTURER.
21. ALL CONDUIT RUNS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC ONLY; EXACT ROUTING AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD.
22. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED IN THE FIELD WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES TO ELIMINATE ANY INTERFERENCES WITH EXISTING SITE CONDITIONS. CONFLICTS BETWEEN EQUIPMENT AND/OR MATERIAL LOCATIONS THAT ARISE SHALL BE CORRECTED BY THE CONTRACTOR AS DIRECTED BY THE ARCHITECT-ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
23. THE WORK OF THIS DIVISION SHALL ALSO INCLUDE THOSE ITEMS NOT SPECIFICALLY MENTIONED OR DESCRIBED BUT WHICH ARE NECESSARY TO PRODUCE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM THAT CONFORMS TO THE DESIGN INTENT. SUCH ITEMS INCLUDE BUT ARE NOT LIMITED TO: FITTINGS, BOXES, CONNECTORS, WIRE NUTS, BLANK COVERS, STRAPPING, FASTENERS, ETC.
24. THE CONTRACTOR SHALL ADHERE TO EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS WHEN INSTALLING EQUIPMENT. IF A CONFLICT EXISTS BETWEEN THESE DRAWINGS AND THE EQUIPMENT MANUFACTURER'S INSTRUCTIONS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND AWAIT CLARIFICATION IN WRITING.
25. ALL SPLICES SHALL BE MADE IN APPROPRIATE JUNCTION BOXES. SPLICES IN CONDUCTOR SIZE AWG #10 OR SMALLER MAY BE MADE USING SPRING-LOCK CONNECTORS (WIRE-NUTS). SPLICES IN CONDUCTORS LARGER THAN AWG #10 SHALL BE MADE USING COMPRESSION TYPE CONNECTORS OR INSULATED TERMINAL BLOCKS SUCH AS THOSE MANUFACTURED BY POLARIS.
26. CONTRACTOR SHALL SUBMIT MANUFACTURER'S DATA SHEETS FOR MATERIALS AND EQUIPMENT TO THE ENGINEER FOR REVIEW AND APPROVAL.
27. PRODUCTS USED ON THIS PROJECT SHALL BE MANUFACTURED BY COMPANIES REGULARLY ENGAGED IN THE PRODUCTION OF SIMILAR PRODUCTS WITH A MINIMUM HISTORY OF THREE YEARS SUCCESSFUL PRODUCTION.
28. CONTRACTOR SHALL FURNISH THE OWNER A COMPLETE BOUND SET OF EQUIPMENT CATALOG SHEETS, MANUFACTURER'S SPECIFICATIONS AND SERVICE, AND OPERATING INSTRUCTIONS ON EQUIPMENT FURNISHED UNDER THIS DIVISION UPON COMPLETION OF WORK UNDER THIS DIVISION.
29. CONTRACTOR SHALL PROVIDE ONE SET OF "AS-BUILT" DRAWINGS TO THE OWNER UPON COMPLETION OF CONSTRUCTION. THE AS-BUILT DRAWINGS SHALL BE CLEAN, LEGIBLE, NEAT, COMPILED IN AN ORDERLY MANNER, AND CONTAIN ALL WORK PERFORMED BY THE CONTRACTOR THAT DEVIATES FROM THE ORIGINAL CONTRACT DOCUMENTS.
30. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO SUBMITTING BID.
31. BOXES SHALL BE PVC AND SHALL BE SIZED TO ACCOMMODATE WIRING, THE EQUIPMENT, OR APPARATUS TO BE INSTALLED AS REQUIRED BY NATIONAL ELECTRIC CODE.
32. WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE, OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OF DESIRED QUALITY. ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND ENGINEER.
33. CONTRACTOR SHALL COORDINATE THE SERVICE INSTALLATION AND METERING ARRANGEMENT WITH THE LOCAL UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE METERING AND ANY ASSOCIATED FEES IMPOSED BY THE UTILITY.
34. THE GROUNDING ELECTRODE SYSTEM SHALL INCLUDE THE GROUND RODS AT A MINIMUM. THE GROUND RODS SHALL CONSIST OF 3/4" BY 10' COPPER CLAD STEEL GROUND RODS DRIVEN A MINIMUM OF 8' APART AND SHALL BE CONNECTED WITH A #6 AWG BARE COPPER CONDUCTOR. THE GROUND RODS SHALL BE LOCATED AS CLOSE TO PANEL AS PRACTICAL. THE TOP OF THE GROUND RODS SHALL BE LOCATED 18" BELOW FINISHED GRADE. REFER TO THE NATIONAL ELECTRIC CODE FOR ADDITIONAL REQUIREMENTS.
35. CONTRACTOR SHALL INCLUDE TIME AND EQUIPMENT COSTS AS REQUIRED TO ALLOW FOR ADJUSTMENT AND AIMING OF EACH INDIVIDUAL FIXTURE AFTER INITIAL INSTALLATION AND POWER HAS BEEN TURNED. CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH HAVING THE MANUFACTURE ONSITE TO ENSURE PROPER ADJUSTMENT AND AIMING OF FIXTURES TO ACHIEVE PROPER LIGHT LEVELS ALONG THE TRACK.
36. NO EQUIPMENT SHALL BE OPERATED ON THE TRACK SURFACE AND THE TRACK SHALL NOT BE DISTURBED IN ANY WAY.
37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED DURING THE COURSE OF THE INSTALLATION OF THE ELECTRICAL WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, IRRIGATION LINES, DRAINAGE SYSTEMS, SOD, AND ANY UNDER-GROUND UTILITIES THAT MAY BECOME DAMAGED.
38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A UTILITY LOCATING SERVICE COMPANY COME TO THE SITE AND MARK ALL UNDERGROUND UTILITY LINES PRIOR TO BEGINNING ANY PORTION OF THE ELECTRICAL SCOPE OF WORK. CONDUIT MUST BE ROUTED TO MISS EXISTING UNDERGROUND UTILITIES, IRRIGATION, DRAINAGE, ETC. HAND EXCAVATE IF NECESSARY.
39. CONSTRUCTION AND ALL TRENCH ROUTES SHALL BE COORDINATED WITH THE ALLENDALE COUNTY SCHOOL DISTRICT REPRESENTATIVE PRIOR TO STARTING EXCAVATION.
40. ALL CONDUCTORS SHALL BE ROUTED AT A MINIMUM OF 36" BELOW FINISHED GRADE IN SCHEDULE 40 PVC CONDUIT.
41. GROUP CONDUITS IN COMMON TRENCHES WHEREVER POSSIBLE.
42. ALL CONDUCTORS SHALL BE CONTINUOUS LENGTH FROM CONTRACTOR TO LIGHT POLE UNLESS DESIGNATED JUNCTION BOXES ARE SHOWN. SPLICES MAY BE MADE IN THESE BOXES AS REQUIRED.
43. CONTRACTOR SHALL REVIEW THE CIVIL ENGINEERING TRACK CONSTRUCTION DOCUMENTS PREPARED BY CHA CONSULTING INC. AND TITLED "ALLENDALE FAIRFAX HIGH SCHOOL TRACK & FIELD FACILITY" AND DATED 09/25/2017. THESE DRAWINGS SHOW THE TRACK DRAINAGE, STORM SEWER AND IRRIGATION SYSTEMS AS WELL AS OTHER EXISTING UTILITIES THAT ARE TO BE AVOIDED DURING EXCAVATION. DRAWINGS CAN BE OBTAINED FROM THE SCHOOL DISTRICT'S REPRESENTATIVE.

FIXTURE SCHEDULE

TAG	MANUFACTURER	CATALOG NO.	VOLTS	BALLAST	LAMPS	COMMENTS
A	EPHESUS BY EATON	EPH-SB-VH-2N-BLK	480	ELECTRONIC	640W LED 90,000 LMNS 5600K 80CRI	MOUNT AT 50FT AFG; LUMASPORT 8 W/ TYPE 2 NARROW DISTRIBUTION
B	EPHESUS BY EATON	EPH-SB-VH-3N-BLK	480	ELECTRONIC	640W LED 90,000 LMNS 5600K 80CRI	MOUNT AT 50FT AFG; LUMASPORT 8 W/ TYPE 3 NARROW DISTRIBUTION
C	EPHESUS BY EATON	EPH-SB-VH-4N-BLK	480	ELECTRONIC	640W LED 90,000 LMNS 5600K 80CRI	MOUNT AT 50FT AFG; LUMASPORT 8 W/ TYPE 4 NARROW DISTRIBUTION
D	EPHESUS BY EATON	EPH-SB-VH-5N-BLK	480	ELECTRONIC	640W LED 90,000 LMNS 5600K 80CRI	MOUNT AT 50FT AFG; LUMASPORT 8 W/ TYPE 5 NARROW DISTRIBUTION

FIXTURE NOTES:

1. SPECIFIED FIXTURE IS A NEW EATON PRODUCT TO BE RELEASED MAY OF 2020.
2. CONTACT KURT KUSTER AT ARDD & WINTER FOR PRICING. (912)-629-0500 OR EMAIL: KURTK@AWLIGHTS.COM
3. ALTERNATE FIXTURES ARE ACCEPTABLE WITH PRIOR APPROVAL. PRIOR APPROVALS MUST INCLUDE A PHOTOMETRIC POINT BY POINT ANALYSIS OF THE TRACK INDICATING A 20 FOOT-CANDLE AVERAGE AT 3FT ABOVE THE TRACK WITH A MAX/MIN. RATIO OF 3:1 OR BETTER.

LIGHT POLE SCHEDULE

TAG	MANUFACTURER	CATALOG NO.	COMMENTS
P1 P4	CMT	ML50-N-TC-BK/MOPXA-6I-BK	50' DIRECT BURIAL FIBERGLASS POLE W/ (3) LIGHTS
P2	CMT	ML50-N-TC-BK/MOPXA-(2)6I-BK	50' DIRECT BURIAL FIBERGLASS POLE W/ (5) LIGHTS
P3 P5 P6	CMT	ML50-N-TC-BK/MOPXA-8I-BK	50' DIRECT BURIAL FIBERGLASS POLE W/ (4) LIGHTS

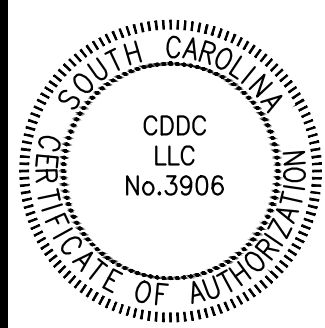
Poles 1- 4 have been installed and are operational. Contract for Completion of Track Lighting is for the wiring and installation of Poles 5 and 6. Poles and lights are to be MUSCO to match existing poles and fixtures per the submittal at the end of this document

ELECTRICAL LEGEND

	SURFACE MOUNTED PANELBOARD
	ELECTRIC METER
	CIRCUITING, DEVICE OR EQUIPMENT
	TRACK LIGHTING POLE ASSEMBLY.
	PVC PULL BOX WITH GASKETED COVER LOCATED AT POLE BASE WHERE SHOWN. SIZE AS REQUIRED FOR CONDUITS ENTERING BOX. MOUNT TO 4X4 PRESSURE TREATED POST W/ BOTTOM OF BOX 6" ABOVE FINISHED GRADE. SEE MOUNTING DETAIL.
	ROTARY DIAL TIMER SWITCH - 6 HOUR SETTING WITH HOLD. INTERMATIC MODEL #FD6HH OR EQUAL. PROVIDE WEATHERPROOF IN-USE COVER & PVC BACK TO LOCATE SWITCH IN.



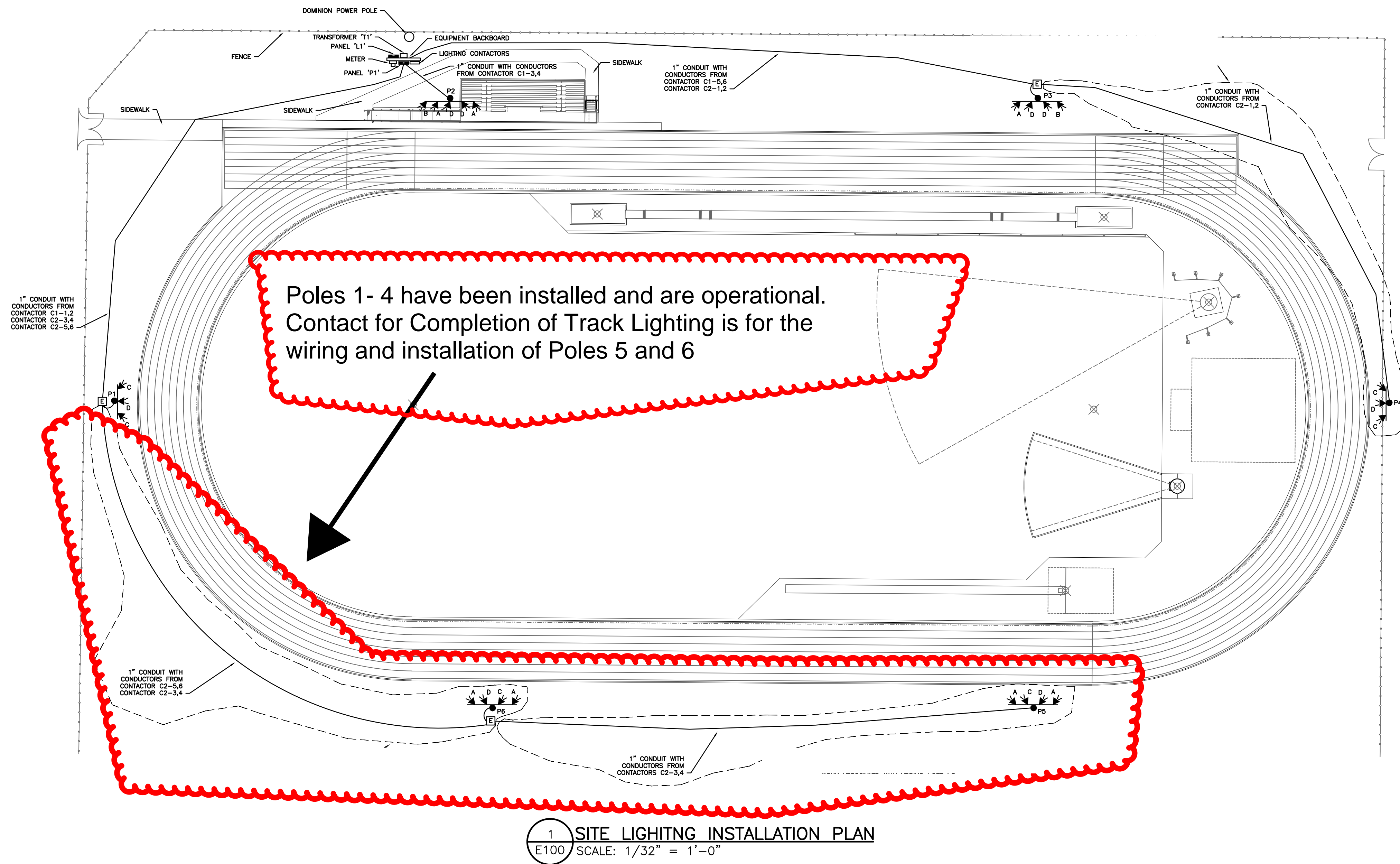
P.O. BOX 2869 BLUFFTON, S.C. 29910  
ph. 843-384-4731 fx. 843-837-3577




NEW TRACK FACILITY  
FOR ALLENDALE COUNTY  
SCHOOL DISTRICT  
SOUTH CAROLINA

Revisions	
XXX	
XXX	
XXX	
XXX	
Submittal	
PERMIT SET	
Drawn By	Checked By
RMV	RMV
Date	03/09/2020
Scale	AS SHOWN
Project Number	2005-MS-E1
Sheet	E001





NEW TRACK FACILITY  
FOR ALLENDALE COUNTY  
SCHOOL DISTRICT  
SOUTH CAROLINA

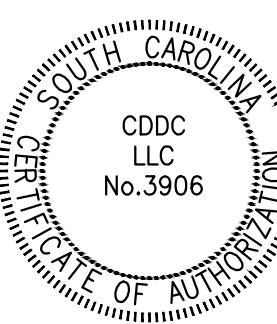


**CDDC**  
CONSULT  
DESIGN  
DRAFT  
CONSTRUCT

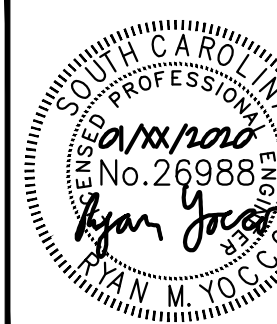


**CDDC**  
CONSULT  
DESIGN  
DRAFT  
CONSTRUCT

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CDDC  
LLC  
No. 3906



RYAN M. YOCO  
No. 26988  
Professional Engineer  
South Carolina

Revisions	
XXX	
XXX	
XXX	
XXX	
XXX	
Submittal	
100% REVIEW SET	
Drawn By	Checked By
RMY	RMY
Date	02/20/2020
Scale	AS SHOWN
Project Number	2005-MS-E1
Sheet	E100

# Allendale Fairfax HS Track

Fairfax, SC

## Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1, P4	50'	50'	1	TLC-LED-600	0.58 kW	A
		50'	2	TLC-LED-900	1.78 kW	A
P2-P3	50'	50'	1	TLC-LED-600	0.58 kW	A
		50'	3	TLC-LED-900	2.67 kW	A
P5-P6	50'	50'	2	TLC-LED-600	1.16 kW	A
		50'	2	TLC-LED-900	1.78 kW	A
6			22		17.10 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Track	17.1 kW	22

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	8
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	14

## Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Track	Horizontal Illuminance	20.7	12.7	34.8	2.74	1.63	A	22

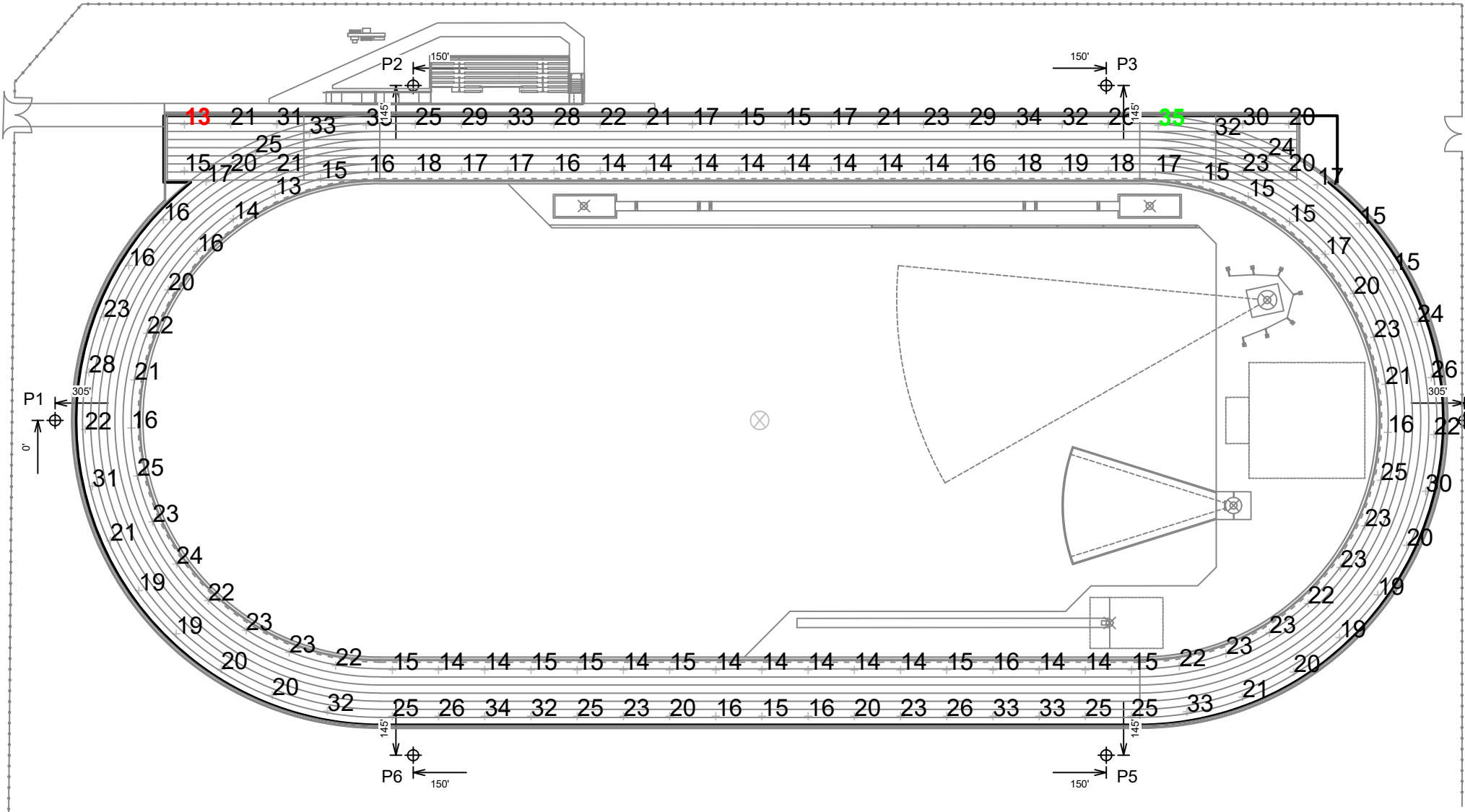
## From Hometown to Professional



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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	P1, P4	50'	-	50'	TLC-LED-900	2	2	0
				50'	TLC-LED-600	1	1	0
2	P2-P3	50'	-	50'	TLC-LED-600	1	1	0
				50'	TLC-LED-900	3	3	0
2	P5-P6	50'	-	50'	TLC-LED-900	2	2	0
				50'	TLC-LED-600	2	2	0
6	TOTALS					22	22	0



Allendale Fairfax HS Track

Fairfax, SC

GRID SUMMARY

Name: Track  
Size: Irregular  
Spacing: 20.0' x 20.0'  
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Guaranteed Average: 20

Scan Average: 20.71

Maximum: 34.8

Minimum: 12.7

Avg / Min: 1.63

Guaranteed Max / Min: 3

Max / Min: 2.74

UG (adjacent pts): 0.00

CU: 0.63

No. of Points: 140

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 65,600 / 89,600 lumens

No. of Luminaires: 22

Total Load: 17.1 kW

Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>120,000	>120,000	>120,000
TLC-LED-900	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

**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.

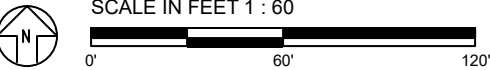
**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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ILLUMINATION SUMMARY



ENGINEERED DESIGN By: dalexander • File #185425C • 22-Apr-20

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

Allendale Fairfax HS Track  
Fairfax, SC

EQUIPMENT LAYOUT

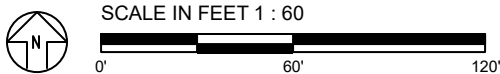
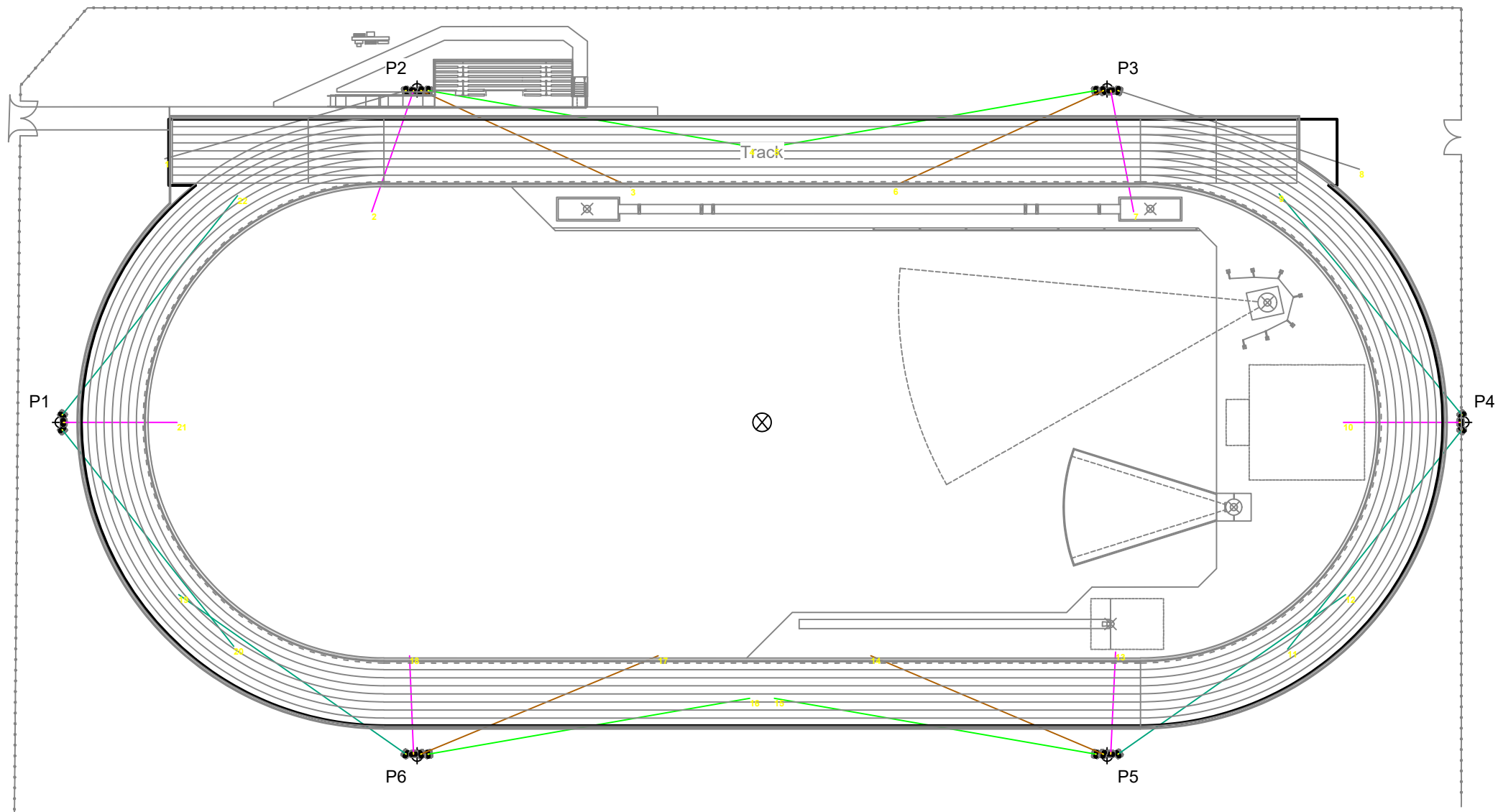
INCLUDES:  
· Track

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						
Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	P1, P4	50'	-	50'	TLC-LED-900	2
				50'	TLC-LED-600	1
2	P2-P3	50'	-	50'	TLC-LED-600	1
				50'	TLC-LED-900	3
2	P5-P6	50'	-	50'	TLC-LED-900	2
				50'	TLC-LED-600	2
6	TOTALS					22

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)	480 (60)
TLC-LED-600		3.4	3.2	3.0	2.6	2.0	1.9
TLC-LED-900		5.3	5.0	4.6	4.0	3.2	2.9



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



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