System Requirements: Control System Summary

Project Name: FCPA Cunningham Park Tennis | Project #: 241496
Control System ID: 1 of 1
Distribution Panel Location/ID: Service 1 - TN

Project Information

Control System

Control System ID:	1 of 1
Control System Type:	Control-Link ® Control and Monitoring System
Communication Type:	PowerLine-ST

Power Requirements

Control cabinet(s):

Control voltage (phase to neutral)	120/60
VA loading - Inrush	1063.0
VA loading - Sealed	128.0

Lighting Circuits:

Voltage/Hertz/Phase	240/60/1

Project Notes:

Equipment Listing

Description	Qty	Size (in)
Control and monitoring cabinet - primary	1	24 X 48
Contactors, 30 amperes	2	-
Off/On/Auto switches	1	-
Push button switches	1	-
Strobe signal lights	1	-

Important Notes:

1. Please confirm that the lighting circuit voltage listed above is accurate for this facility. This is the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
2. In a 3 phase design, all 3 phases are to be run to each pole location. Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
3. One contactor is required for each circuit at each pole location. Contactors are 3 pole and 100% rated for the published continuous load.
4. If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
5. Size overcurrent devices using the full load amps column of the Circuit Summary by Switch chart (Minimum power factor is 0.9). Size conduit per code unless otherwise specified as larger to allow for harness connectors.
6. Avoid use of in-ground junction/pull boxes when possible. If used, the following best practices must be followed:
   • Underground handholes (pull boxes) must be supported to prevent settling. Boxes buried directly in soil, without support, are not allowed.
   • Use polymer concrete lids marked with ELECTRIC for underground handholes. Steel lids are not allowed.
   • Avoid underground connections when possible. If used, all wire connectors must be UL listed for Wet Locations to prevent leakage current.
7. Control power wiring must be in separate conduit from line or load power wiring. Communication cables must be in separate conduit from any power wiring.
8. Test wire per ANSI/NETA ATS-2021. Wires with insulation resistance less than 100 MOhms, in water-filled conduit, must be replaced.

Important Notes:

9. Refer to Installation Instructions for more details on equipment information and the installation requirements.

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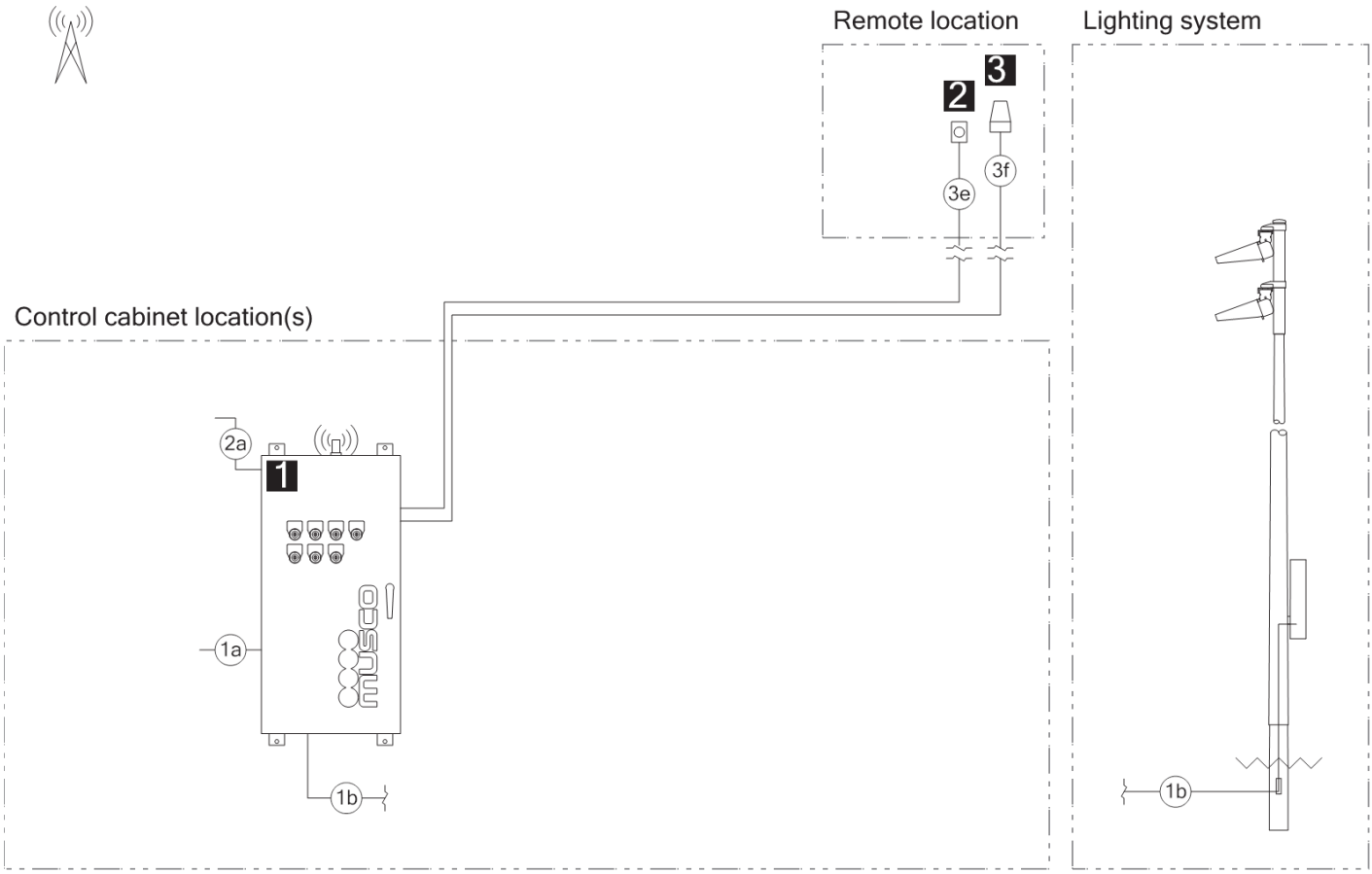
Equipment Layout and Connection Details



Connection Details	
ID	**Description**
1a	Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
1b	Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
2a	Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.
3e	Control harness - Control cabinet to push button switch. Use 12 AWG copper conductor for up to 300 feet. Requires 2 conductors per push button.
3f	Control harness - Control cabinet to strobe signal light. Use 12 AWG copper conductor for up to 300 feet. Requires 2 conductors per strobe light.

Equipment	
ID	**Description**
1	Control and monitoring cabinet - primary
2	Push button switches
3	Strobe signal lights

Circuit Summary

Switching Schedule	
Field/Switch Description	**Switches**
Tennis	**1 ‡**

‡ Push button control with strobe light.

Control Module ID: 1

Lighting Circuit Voltage: 240/60/1

Circuit Summary by Switch							
Switch	**Zone Description**	**Pole ID**	**Qty of Fixtures**	**Full load amperes**	**Contactor Size (Amps)**	**Cabinet #**	**Contactor ID**
1	Tennis	T1, T4	4	11.08	30	1	C1
	Tennis	T2, T3	4	11.08	30	1	C2