Control System Summary

Moorpark College Beach Volleyball / 224335 - 224335C Moorpark College Volleyball - Page 3 of 4

SWITCHING SCHEDULE

Field/Zone Description Volleyball 1-4 Volleyball 5-8 Egress

I20V Single Phase

120V Single Phase								
VA loading of Musco	INRUSH: 1960.0							
Supplied Equipment	SEALED: 208.0							

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)		ZONI
P1	Volleyball 1-4	4	4	7.2	30	C1	1
P2	Volleyball 1-4	4	4	7.8	30	C2	1
P5	Volleyball 1-4	4	4	7.2	30	C3	1
P6	Volleyball 1-4	4	4	7.2	30	C4	1
P2	Volleyball 5-8	4	4	7.2	30	C5	2
P3	Volleyball 5-8	4	4	7.2	30	C6	2
P4	Volleyball 5-8	4	4	7.2	30	C7	2
P5	Volleyball 5-8	4	4	7.8	30	C8	2
ıll Load Amps bas	sed on amps per driver.		277V	AC J			

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Control System Summary

Project Information

Project Specific Notes:

Moorpark College Beach Volleyball -480V/3P, LED C&M, Powerline Comm, Single contactor per pole

Egress fixtures are controlled through Musco provided ALIC unit. Each fixture has a full load amp value of 1.2A.

Materials Checklist

per distribution panel location

a control transformer is required ☐ Electrical distribution panel to provide

overcurrent protection for circuits

must be insulated (per circuit)

not Musco supplied □ Electrical conduit wireway system

die-cast aluminum

wire, if necessary

Mounting hardware for cabinets

□ Breaker lock-on device to prevent

Zone Chart

Wiring

HID rated or D-curve circuit breaker sized

per full load amps on Circuit Summary by

— See chart on page 2 for wiring requirements Equipment grounding conductor and splices

Lightning ground protection (per pole), if

— Entrance hubs rated NEMA 4, must be

unauthorized power interruption to control

Anti-corrosion compound to apply to ends of

Call Control-Link Central[™] operations center

at 877/347-3319 to schedule activation of the

Note: Activation may take up to 1 1/2 hours.

control system upon completion of the installation.

power and powerline connection (if present)

die-cast zinc, PVC, or copper-free

Project #: 224335 Project Name: Moorpark College Beach Volleyball 01/27/23 Date: Chris Hensley Project Engineer: Sales Representative: Nicholas Cobb Control System Type: Control-Link™ Control and Monitoring System Communication Type: PowerLine-ST 224335C

Document ID: 224335P1V1-0127153720 Distribution Panel Location or ID: Moorpark College Volleyball Total # of Distribution Panel Locations for Project: Design Voltage/Hertz/Phase: 480/60/3 Control Voltage: 120

Equipment Listing

APPROXIMATE SIZE

1.Control and Monitoring Cabinet 24 X 72 QTY SIZE (AMPS) 30 AMP Total Contactors Total Off/On/Auto Switches:

Contractor/Customer Supplied: □ A dedicated control circuit must be supplied If the control voltage is NOT available,

IMPORTANT NOTES

- 1. Please confirm that the design voltage listed above is accurate for this facility. Design voltage/phase is defined as the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate design 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. When a 3 phase
- design is used Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility. 3. One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit. All contactors are 100% rated for the
- published continuous load. All contactors are 3 pole. 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. A single control circuit must be supplied per control system.
- 6. Size overcurrent devices using the full load amps column of the Circuit Summary By Zone chart- Minimum power factor is 0.9.

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

Moorpark College Beach Volleyball / 224335 - 224335C Moorpark College Volleyball - Page 4 of 4

Control System Summary

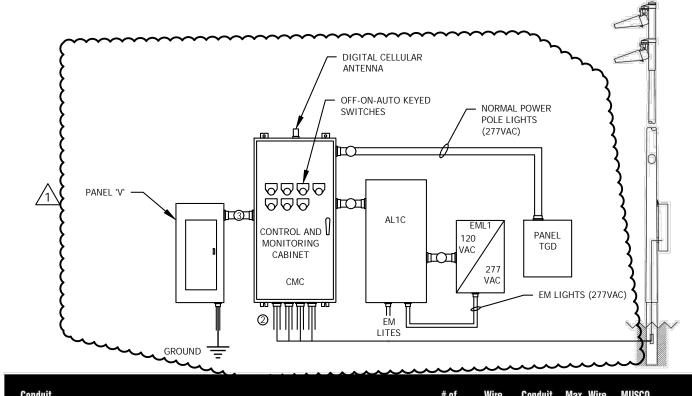
CABINET #	CONTROL MODULE LOCATION	ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID	CIRCUIT BREAKER POSITION	
						~~~~	
1	1	C1	Pole P1	7.18	TGA	2	
1	1	C2	Pole P2	7.79	<b>\</b>	3	
1	1	C3	Pole P5	7.18	}	7	
1	1	C4	Pole P6	7.18	1	9	
1	1	C5	Pole P2	7.18	<b>\</b>	4	
1	1	C6	Pole P3	7.18	}	5	
1	1	C7	Pole P4	7.18	1	6	
1	1	C8	Pole P5	7.79		8	
				277VAC	j	•••••	

ZONE SCHEDULE							
			CIRCUIT	CIRCUIT DESCRIPTION			
ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	POLE ID	CONTACTOR ID			
Zone 1	1	Volleyball 1-4	P1	C1			
			P2	C2			
			P5	C3			
			P6	C4			
Zone 2	2	Volleyball 5-8	P2	C5			
			P3	C6			
			P4	C7			
			P5	C8			
Zone 3	3	Egress Grid (EM)	P1				
		- ,	P2				
			P3				

## **Control System Summary**

Moorpark College Beach Volleyball / 224335 - 224335C Moorpark College Volleyball - Page 2 of 4

Control·Link。 Control and Monitoring System



C	conduit ID Description	# of Wires	Wire (AWG)	Conduit (in)	Max. Wire Length (ft)	MUSCO Supplied	Notes
1	Line power to contactors, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
2	Load power to lighting circuits, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
3	Control power (dedicated, 20A)	3	12	*C	N/A	No	C,E

A. See voltage and phasing per the notes on cover page. B. Calculate per load and voltage drop. C. All conduit diameters should be per code unless otherwise specified to allow for connector size. . Equipment grounding conductor and any splices must be insulated.

E. Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.

IMPORTANT: Control wires (3) must be in separate conduit from line and load power wires (1, 2).

MOORPARK, CA DESIGNED: APRIL 4, 2023 LK / DS DRAWN: 22-537 PROJ. SCALE: AS NOTED

MOORPARK COLLEGE

BEACH VOLLEYBALL

COURTS

7349 N. VIA PASEO DEL SUR

SUITE 515-324

SCOTTSDALE, ARIZONA 85258

PH 602.635.4226

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ADDENDUM 1 6/9/23

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3251 CORTE MALPASO, #511

CAMARILLO, CA 93012-8094

(805) 389-6520

CONSULTING ELECTRICAL ENGINEERS

FAX (805) 389-6519

SHEET TITLE

MUSCO LIGHTING CONTROL SYSTEM **SUMMARY** 

> DWG. NO. E301

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Copyright Lucci and Associates Consulting Electrical Engineers. Deviations from this drawing will not be made without their expressed written permission. L.A.I.# 22-537 PAPER SIZE 36"x24"