

STATE OF CALIFORNIA

**Mechanical Systems**

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: La Mirada High School New Football Stadium

Report Page: (Page 10 of 18)

Project Address: 13520 Adelfo Dr.

Date Prepared: 2/11/2020

J. VENTILATION AND INDOOR AIR QUALITY

Storage	All others	119			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Restroom	Toilet, public	367			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Restroom	Toilet, public	389			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-2 - Fieldhouse (Visitor)	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	
Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	
Team Room	Locker room (athletic facility)	1044			0	522	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-2 - Fieldhouse (Visitor)	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	
Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	
Team Room	Locker room (athletic facility)	1044			0	522	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-2 - Fieldhouse (Visitor)	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	
Team Room	Locker room (athletic facility)	1044			0	522	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Concessions	Kitchenettes	288			0	86.4	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-2 - Fieldhouse (Visitor)	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	
Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	
Team Room	Locker room (athletic facility)	1044			0	522	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Concessions	Kitchenettes	288			0	86.4	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-2 - Fieldhouse (Visitor)	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	
Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	
Team Room	Locker room (athletic facility)	1044			0	522	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Concessions	Kitchenettes	288			0	86.4	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-2 - Fieldhouse (Visitor)	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	

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Date Prepared: 2/11/2020

J. VENTILATION AND INDOOR AIR QUALITY

System Name	FC-2 - Fieldhouse (Visitor)	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	
Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	
Team Room	Locker room (athletic facility)	1044			0	522	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Concessions	Kitchenettes	288			0	86.4	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Storage	All others	119			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Restroom	Toilet, public	367			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-2 - Fieldhouse (Visitor)	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	

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Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	
Team Room	Locker room (athletic facility)	1044			0	522	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Concessions	Kitchenettes	288			0	86.4	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Storage	All others	119			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Restroom	Toilet, public	367			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
Restroom	Toilet, public	389			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-3 - Ticketbooth	System Design OA CFM Airflow <sup>1</sup>	30	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	
Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	

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J. VENTILATION AND INDOOR AIR QUALITY

Ticketbooth	Office space	200			30	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-4 - Electrical Room	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	
Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	
Electrical Room	All others	235			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required per §120.1(d)3
	04		05				06		07
System Name	FC-4 - Electrical Room	System Design OA CFM Airflow <sup>1</sup>	0	System Design Transfer Air CFM	0			Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16	
Space Name of Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	

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L. DISTRIBUTION (DUCTWORK AND PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCCI/)

Yes	No	Form/Title	Field Inspector
●	○	NRCC-MCH-01-E - Must be submitted for all buildings	Pass Fail

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCCI/)

Yes	No	Form/Title	Field Inspector
●	○	NRCC-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Pass Fail
●	○	NRCC-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Pass Fail
○	●	NRCC-MCH-04-A - Air Distribution Duct Leakage	Pass Fail
○	●	NRCC-MCH-05-A - Air Economizer Controls	Pass Fail
○	●	NRCC-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3 ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO <sub>2</sub> ) concentration setpoints.	Pass Fail
○	●	NRCC-MCH-07-A Supply Fan Variable Flow Controls	Pass Fail
○	●	NRCC-MCH-08-A Valve Leakage Test	Pass Fail
○	●	NRCC-MCH-09-A Supply Water Temperature Reset Controls	Pass Fail
○	●	NRCC-MCH-10-A Hydronic System Variable Flow Controls	Pass Fail
○	●	NRCC-MCH-11-A Automatic Demand Shed Controls	Pass Fail
○	●	NRCC-MCH-12-A FDD for Packaged Direct Expansion Units	Pass Fail
○	●	NRCC-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	Pass Fail
○	●	NRCC-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes", if Distributed Energy System DX AC Systems are included in teh scope permit applicant should move this form to "Yes".	Pass Fail
○	●	NRCC-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes", if Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".	Pass Fail
○	●	NRCC-MCH-16-A Supply Air Temperature Reset Controls	Pass Fail
○	●	NRCC-MCH-17-A Condenser Water Temperature Reset Controls	Pass Fail
○	●	NRCC-MCH-18-A Energy Management Control Systems	Pass Fail

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P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The first documents must be created by a HERS Providers registry, but drafts can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCCI/)

Yes	No	Form/Title	Field Inspector
○	●	NRCC-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater	Pass Fail
○	●	NRCC-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	Pass Fail
○	●	NRCC-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater	Pass Fail
○	●	NRCC-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater	Pass Fail

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH	Plan sheet or construction document location
Mandatory Measures Note Block <sup>1</sup>	M-Sheets

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: Trevor Brown

Company: Turpin and Rattan Engineering, Inc.

Address: 2441 Honolulu Ave #200

City/State/Zip: Montrose, CA 91020

Phone: (818) 249-0444

Documentation Author Signature: [Trevor Brown](#)

Date Signed: 2020-02-11

Signature Date: 2020-02-11

License: M38633

Phone: (818) 249-0444

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 4 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the