

Project Name: Sheriff Substation		NRCPP-PF-01-E		Page 1 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727		Calculation Date/Time: 17:10, Mon, Jun 15, 2020				
Compliance Scope: NewEnvelopeAndMechanical		Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony L. Cibildix				
<b>A. PRIORITY GENERAL INFORMATION</b>						
1. Project Location (City)	Fresno	8. Standards Version	Compliance2016			
2. CA Zip Code	93727	9. Compliance Software (Version)	EnergyPro 7.2			
3. Climate Zone	13	10. Weather File	FRESNO_723890_CZ2010.epw			
4. Total Conditioned Floor Area in Scope	22,262 ft <sup>2</sup>	11. Building Orientation (Mag)	(E) 135 deg			
5. Total Unconditioned Floor Area	0 ft <sup>2</sup>	12. Permitted Scope of Work	NewEnvelopeAndMechanical			
6. Total # of Stories (Habitable Above Grade)	1	13. Building Type(s)	Nonresidential			
7. Total # of dwelling units	0	14. Gas Type	NaturalGas			
<b>B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kWh/ft<sup>2</sup>-yr)</b>						
<b>BUILDING COMPLIES</b>						
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard		
Space Heating	20.19	5.64	14.55	72.3%		
Space Cooling	132.20	104.28	27.92	21.1%		
Indoor Fans	58.72	32.65	6.07	10.3%		
Heat Rejection	--	--	--	--		
Pumps & Misc.	1.62	18.89	-17.27	-1066.0%		
Domestic Hot Water	4.44	34.09	-29.66	-666.3%		
Indoor Lighting	40.86	43.91	-3.05	-7.5%		
<b>COMPLIANCE TOTAL</b>	<b>258.00</b>	<b>249.46</b>	<b>8.54</b>	<b>3.3%</b>		
Receptacle	87.76	87.76	0.0	0.0%		
Process	113.10	113.10	0.0	0.0%		
Other Lig	--	--	--	--		
Process Motors	--	--	--	--		
<b>TOTAL</b>	<b>458.86</b>	<b>450.32</b>	<b>8.5</b>	<b>1.9%</b>		

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<b>C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)</b>					
1st	Space Cooling: Check envelope and mechanical				
2nd	Space Heating: Check envelope and mechanical				
3rd	Indoor Fans: Check envelope and mechanical				
4th	Heat Rejection: Check envelope and mechanical				
5th	Indoor Lighting: Check lighting				
6th	Pumps & Misc.: Check mechanical				
7th	Domestic Hot Water: Check mechanical				
<b>D. EXCEPTIONAL CONDITIONS</b>					
This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptive) before occurring.					
This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylight Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCPP-LI-02-E) for the requirements of section 140.66(A) Automatic Daylighting Controls in Secondary Daylight Zones is required.					
This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.					
<b>E. HERS VERIFICATION</b>					
This Section Does Not Apply					
<b>F. ADDITIONAL REMARKS</b>					
None Provided					

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<b>G. COMPLIANCE PATH &amp; CERTIFICATE OF COMPLIANCE SUMMARY</b>					
Identify which building components use the performance or prescriptive path for compliance. "NA" is not in project. For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.					
Building Component	Compliance Path	Compliance Forms (required for submittal)	Location of Mandatory Notes on Plans		
Envelope	<input checked="" type="checkbox"/> Performance	NRCPP-ENV-DETAILS (section of the NRCPP-PF-01-E)			
	<input type="checkbox"/> Prescriptive	NRCPP-ENV-01 / 02 / 03 / 04 / 05 / 06-E			
Mechanical	<input checked="" type="checkbox"/> Performance	NRCPP-PHF-MCH-DETAILS (section of the NRCPP-PF-01-E)			
	<input type="checkbox"/> Prescriptive	NRCPP-MCH-03 / 03 / 03 / 04 / 05 / 06 / 07-E			
Domestic Hot Water	<input checked="" type="checkbox"/> Performance	NRCPP-PHF-DHW-DETAILS (section of the NRCPP-PF-01-E)			
	<input type="checkbox"/> Prescriptive	NRCPP-DHW-01-E			
Lighting (Indoor Conditioned)	<input checked="" type="checkbox"/> Performance	NRCPP-LI-01-DETAILS (section of the NRCPP-PF-01-E)			
	<input type="checkbox"/> Prescriptive	NRCPP-LI-02 / 02 / 03 / 04 / 05-E			
Covered Process: Commercial Kitchens	<input checked="" type="checkbox"/> Performance	S2 (section of the NRCPP-PF-01-E)			
	<input type="checkbox"/> Prescriptive	NRCPP-PHF-CK-01-E			
Covered Process: Computer Rooms	<input checked="" type="checkbox"/> Performance	S3 (section of the NRCPP-PF-01-E)			
	<input type="checkbox"/> Prescriptive	NRCPP-PHF-CP-01-E			
Covered Process: Laboratory Exhaust	<input checked="" type="checkbox"/> Performance	S4 (section of the NRCPP-PF-01-E)			
	<input type="checkbox"/> Prescriptive	NRCPP-PHF-LE-01-E			

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<b>H. COMPLIANCE PATH &amp; CERTIFICATE OF COMPLIANCE SUMMARY</b>							
The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project. The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.							
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting (Indoor) Unconditioned \$140.6	NRCPP-LI-01 / 02 / 03 / 04 / 05-E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Commissioning 1320.8 Simple Systems	NRCPP-CR-01 / 02 / 03 / 05-E NRCPP-CR-01 / 02 / 04 / 05-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting (Outdoor) \$140.7	NRCPP-LI-01 / 02 / 03 / 04-E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Electrical 1330.5	NRCPP-EL-01-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting (Sign) \$140.8	NRCPP-LI-01-E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solar Ready \$110.10	NRCPP-SR-01 / 02-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solar Thermal Water Heating \$140.5	NRCPP-STH-01-E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Covered Process 1320.6 Parking Garage Commercial Refrigeration Compressed Air Process Boilers	NRCPP-PC-01-E NRCPP-PC-02-E NRCPP-PC-05-E NRCPP-PC-06/07/08-E NRCPP-PC-10-E NRCPP-PC-11-E

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<b>I. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE &amp; CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRVC) - Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for field inspector to verify). See Tables G, and H, in MCH and LI Details Sections for Acceptance Tests and forms by equipment.</b>						
Building Component	Compliance Forms (required for submittal)	Pass	Fail	Confirmed		
Envelope	<input checked="" type="checkbox"/> NRCI-ENV-01-E - For all buildings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-ENV-02-F - NRC label verification for fenestration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Plumbing	<input checked="" type="checkbox"/> NRCA-MCH-02-A - For all buildings with Mechanical Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-03-A - Outdoor Air	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Mechanical	<input checked="" type="checkbox"/> NRCA-MCH-04-A - Constant Volume Single Zone HVAC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-04-A - Air Distribution Duct Leakage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-04-A - Air Economizer Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-06-A - Demand Control Ventilation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-07-A - Supply Fan Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-08-A - Variable Volume Fan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-09-A - Supply Water Temp Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-10-A - Hydronic System Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-11-A - Auto Demand Shed Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-13-A - Packaged Direct Expansion Units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-13-A - Air Handling Units and Zone Terminal Units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/> NRCA-MCH-14-A - Distributed Energy Storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> NRCA-MCH-15-A - Thermal Energy Storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> NRCA-MCH-16-A - Supply Air Temp Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> NRCA-MCH-17-A - Condensate Water Temp Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> NRCA-MCH-18-A - Energy Management Controls Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> NRCA-MCH-04-H - Duct Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

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<b>J. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE &amp; CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRVC) - Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for field inspector to verify). See Tables G, and H, in MCH and LI Details Sections for Acceptance Tests and forms by equipment.</b>							
Building Component	Compliance Forms (required for submittal)	Pass	Fail	Confirmed			
Covered Process	<input checked="" type="checkbox"/> NRCI-PRC-01-E Covered Processes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-02-F - Process Air Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Outdoor Lighting	<input checked="" type="checkbox"/> NRCA-PRC-03-F - Garage Exhaust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-04-F - Refrigerated Warehouse - Evaporator Fan Motor Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-05-F - Refrigerated Warehouse - Evaporative Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-06-F - Refrigerated Warehouse - Air Cooled Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-07-F - Refrigerated Warehouse - Variable Speed Compressor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-08-F - Electrical Resistance Underdrain Heating System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Sign Lighting	<input checked="" type="checkbox"/> NRCI-LI-01-E - For all buildings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/> NRCA-LI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	Electrical	<input checked="" type="checkbox"/> NRCI-LI-03-E - Line voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/> NRCI-LI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	Photovoltaic	<input checked="" type="checkbox"/> NRCI-LI-05-E - Lighting Control Credits Power Adjustment Factor (PAF)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/> NRCA-LI-02-A - Occupancy sensors and automatic time switch controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Electronic	<input checked="" type="checkbox"/> NRCA-LI-03-A - Automatic daylighting controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-LI-04-A - Demand responsive lighting controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Electronics	<input checked="" type="checkbox"/> NRCI-LI-01-E - Outdoor Lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCI-LI-02-E - EMCS Lighting Control System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Photovoltaic	<input checked="" type="checkbox"/> NRCA-LI-02-A - Outdoor Lighting Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-LI-03-E - Sign Lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Photovoltaic	<input checked="" type="checkbox"/> NRCI-SPV-01-E - Electrical Power Distribution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCI-SPV-02-E - Photovoltaic Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

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<b>K. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE &amp; CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRVC) - Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for field inspector to verify). See Tables G, and H, in MCH and LI Details Sections for Acceptance Tests and forms by equipment.</b>							
Building Component	Compliance Forms (required for submittal)	Pass	Fail	Confirmed			
Covered Process	<input checked="" type="checkbox"/> NRCI-PRC-01-E Covered Processes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-02-F - Process Air Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Outdoor Lighting	<input checked="" type="checkbox"/> NRCA-PRC-03-F - Garage Exhaust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-04-F - Refrigerated Warehouse - Evaporator Fan Motor Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-05-F - Refrigerated Warehouse - Evaporative Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-06-F - Refrigerated Warehouse - Air Cooled Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-07-F - Refrigerated Warehouse - Variable Speed Compressor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-PRC-08-F - Electrical Resistance Underdrain Heating System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Sign Lighting	<input checked="" type="checkbox"/> NRCI-LI-01-E - For all buildings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/> NRCA-LI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	Electrical	<input checked="" type="checkbox"/> NRCI-LI-03-E - Line voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/> NRCI-LI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	Photovoltaic	<input checked="" type="checkbox"/> NRCI-LI-05-E - Lighting Control Credits Power Adjustment Factor (PAF)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/> NRCA-LI-02-A - Occupancy sensors and automatic time switch controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Electronic	<input checked="" type="checkbox"/> NRCA-LI-03-A - Automatic daylighting controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-LI-04-A - Demand responsive lighting controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Photovoltaic	<input checked="" type="checkbox"/> NRCI-LI-01-E - Outdoor Lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCI-LI-02-E - EMCS Lighting Control System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Photovoltaic	<input checked="" type="checkbox"/> NRCA-LI-02-A - Outdoor Lighting Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCA-LI-03-E - Sign Lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Photovoltaic	<input checked="" type="checkbox"/> NRCI-SPV-01-E - Electrical Power Distribution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input checked="" type="checkbox"/> NRCI-SPV-02-E - Photovoltaic Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

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<b>L. FENESTRATION ASSEMBLY SUMMARY</b>																																
1. Fenestration Assembly Name / Tag or ID	2. Fenestration Type / Product Type / Frame Type	3. Certification Method	4. Assembly Method	5. Area (ft <sup>2</sup> )	6. Overall U-Factor	7. Overall SHGC	8. Overall VT	9. U-Factor / F-Factor	10. U-Factor / F-Factor	11. U-Factor / F-Factor	12. U-Factor / F-Factor	13. U-Factor / F-Factor	14. U-Factor / F-Factor	15. U-Factor / F-Factor	16. U-Factor / F-Factor	17. U-Factor / F-Factor	18. U-Factor / F-Factor	19. U-Factor / F-Factor	20. U-Factor / F-Factor	21. U-Factor / F-Factor	22. U-Factor / F-Factor	23. U-Factor / F-Factor	24. U-Factor / F-Factor	25. U-Factor / F-Factor	26. U-Factor / F-Factor	27. U-Factor / F-Factor	28. U-Factor / F-Factor	29. U-Factor / F-Factor	30. U-Factor / F-Factor	31. U-Factor / F-Factor	32. U-Factor / F-Factor	33. U-F



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O. EQUIPMENT CONTROLS			§ 120.2		Confirmed
1.	2.	3.	4.	5.	6.
Equip Name	Equip Type	Controls	Pass	Fail	Pass
Z31 - Supply & Training S	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 40 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z31 - Supply & Training S37	Exhaust	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z33A - Data	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 20 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z33A - Data244	Exhaust	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z32B - Data Racks	SZAC	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 20 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z32B - Data Rack248	Exhaust	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z33 - Training Room A	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 220 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z33 - Training Room A254	Exhaust	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z34 - Training Room B	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 220 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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O. EQUIPMENT CONTROLS			§ 120.2		Confirmed
1.	2.	3.	4.	5.	6.
Equip Name	Equip Type	Controls	Pass	Fail	Pass
Z33 - Training Room A260	Exhaust	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z35 - Corridor A & B	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 40 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z36 - Secure Training Roo	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 120 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z36 - Secure Training Roo267	Exhaust	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z37 - Secure Training Rec	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 50 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z37 - Secure Training Rec271	Exhaust	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z38 - Interview Rooms 153	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 30 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z39 - Workstation C 2 Ev	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 40 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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O. EQUIPMENT CONTROLS			§ 120.2		Confirmed
1.	2.	3.	4.	5.	6.
Equip Name	Equip Type	Controls	Pass	Fail	Pass
Z40 - Workstation C-1 US	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 30 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z41 - Corridor E	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 30 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z42 - Workstation B-1	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 110 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z43 - Workstation B-2	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 110 W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DWH - Elect/Flx MD E321 - SHW	Service Hot Water, Primary Only	Fixed Temperature Control, No DOC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P. SYSTEM DISTRIBUTION SUMMARY			§ 120.4 / § 140.4(i)		Confirmed
1.	2.	3.	4.	5.	6.
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(i)	Duct Leakage will be verified per NA2 and NA2	Insulation R-Value	Location
Z1 - Public Waiting Area	SZHP	No	No	8.0	Unconditioned

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P. SYSTEM DISTRIBUTION SUMMARY			§ 120.4 / § 140.4(i)		Confirmed
1.	2.	3.	4.	5.	6.
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(i)	Duct Leakage will be verified per NA2 and NA2	Insulation R-Value	Location
Z2 - Secure Reception & L	SZHP	No	No	8.0	Unconditioned
Z3 - Men and Women RR & P	SZHP	No	No	8.0	Unconditioned
Z4 - Public Conference Ro	SZHP	No	No	8.0	Unconditioned
Z5 - Specialty Unit 1 Off	SZHP	No	No	8.0	Unconditioned
Z6 - Breakroom A	SZHP	No	No	8.0	Unconditioned
Z7 Breakroom B & Corridor	SZHP	No	No	8.0	Unconditioned
Z8 - Physical Training	SZHP	No	No	8.0	Unconditioned
Z9 - Corridor D Female L	SZHP	No	No	8.0	Unconditioned
Z10 - Lactation	SZHP	No	No	8.0	Unconditioned
Z11 - Janitor Mens Lock	SZHP	No	No	8.0	Unconditioned
Z12 - Inv. Staff Supply	SZHP	No	No	8.0	Unconditioned
Z13 - Interview Rooms B & R	SZHP	No	No	8.0	Unconditioned
Z14 - Workstation D	SZHP	No	No	8.0	Unconditioned
Z15 - Corridor F & Office	SZHP	No	No	8.0	Unconditioned
Z18 - Office 146-147-148	SZHP	No	No	8.0	Unconditioned
Z21 - Office 149-150-151	SZHP	No	No	8.0	Unconditioned
Z23 - 157 Mail-158 Office	SZHP	No	No	8.0	Unconditioned
Z25 - Office 159	SZHP	No	No	8.0	Unconditioned
Z27 - Office 161	SZHP	No	No	8.0	Unconditioned
Z28 - Admin Ass. Office	SZHP	No	No	8.0	Unconditioned
Z29 - Admin Conference	SZHP	No	No	8.0	Unconditioned
Z30 - Workstation A	SZHP	No	No	8.0	Unconditioned
Z31 - Supply & Training S	SZHP	No	No	8.0	Unconditioned

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P. SYSTEM DISTRIBUTION SUMMARY			§ 120.4 / § 140.4(i)		Confirmed
1.	2.	3.	4.	5.	6.
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(i)	Duct Leakage will be verified per NA2 and NA2	Insulation R-Value	Location
Z32A - Data	SZHP	No	No	8.0	Unconditioned
Z32B - Data Racks	SZAC	No	No	8.0	Unconditioned
Z33 - Training Room A	SZHP	No	No	8.0	Unconditioned
Z34 - Training Room B	SZHP	No	No	8.0	Unconditioned
Z35 - Corridor A & B	SZHP	No	No	8.0	Unconditioned
Z36 - Secure Training Roo	SZHP	No	No	8.0	Unconditioned
Z37 - Secure Training Rec	SZHP	No	No	8.0	Unconditioned
Z38 - Interview Rooms 153	SZHP	No	No	8.0	Unconditioned
Z39 - Workstation C 2 Ev	SZHP	No	No	8.0	Unconditioned
Z40 - Workstation C-1 US	SZHP	No	No	8.0	Unconditioned
Z41 - Corridor E	SZHP	No	No	8.0	Unconditioned
Z42 - Workstation B-1	SZHP	No	No	8.0	Unconditioned
Z43 - Workstation B-2	SZHP	No	No	8.0	Unconditioned
Does the Project include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)					
No					
Does the Project include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)					
No					
Multifamily or Hotel/Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)					
No					
Q. INDOOR CONDITIONING LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)			§ 130.0		Confirmed
This Section Does Not Apply					
R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E1)			§ 130.0		Confirmed
This Section Does Not Apply					

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S1. COVERED PROCESS SUMMARY - ENCLOSED PARKING GARAGES			§ 140.9		Confirmed
This Section Does Not Apply					
S2. COVERED PROCESS SUMMARY - COMMERCIAL KITCHENS			§ 140.9		Confirmed
This Section Does Not Apply					
S3. COVERED PROCESS SUMMARY - COMPUTER ROOMS			§ 140.9		Confirmed
Computer Room System Name	Cooling Capacity (tons)	Economizer Type	Fan Power (watts)	Pass	Fail
Z32B - Data Racks	3.8	None	0.24	<input type="checkbox"/>	<input type="checkbox"/>
S4. COVERED PROCESS SUMMARY - LABORATORY EXHAUSTS			§ 140.9		Confirmed
This Section Does Not Apply					
T. UNMET LOAD HOURS			§ 140.9		Confirmed
This Section Does Not Apply					
U. ENERGY USE SUMMARY			§ 140.9		Confirmed
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)
Space Heating	0.0	7.3	-7.3	272.4	-
Space Cooling	82.0	71.7	10.3	-	-
Indoor Fans	54.7	52.9	1.8	-	-
Heat Rejection	-	-	-	-	-
Pumps & Misc.	2.1	18.6	-16.5	-	-
Domestic Hot Water	-	23.8	-23.8	68.4	-
Indoor Lighting	37.0	39.8	-2.8	-	-
COMPLIANCE TOTAL	175.8	214.4	-38.3	340.8	0.0
Roofscape	80.3	80.3	0.0	-	-
Process	106.3	0.0	106.3	-	-
Other Ltg	-	-	-	-	-

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U. ENERGY USE SUMMARY			§ 10-103		Confirmed
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)
Process Motors	362.4	400.7	-38.3	340.8	0.0
TOTAL	362.4	400.7	-38.3	340.8	0.0

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			§ 10-103		Confirmed
I certify that this Certificate of Compliance documentation is accurate and complete.					
Documentation Author Name: Anthony Kupina		Signature:		Date Signed: 6-15-2020	
Company: Mechanical Design Concepts, Inc		Signature Title: Principal		Date Signed: 6-15-2020	
Address: 7084 N. Maple Ave.		City/State/Zip: Fresno CA 93720		Phone: 559-431-0101	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			§ 10-103		Confirmed
I certify the following under penalty of perjury, under the laws of the State of California:					
1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or a licensed architect.				
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.				
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.2.				
Responsible Envelope Designer Name: Noel Roger Davidson		Signature:		Date Signed: 6-15-2020	
Company: Fresno County Department of Public Works Capital Projects		Signature Title: Principal		Date Signed: 6-15-2020	
Address: 2220 Tulare Street, Eighth Floor		City/State/Zip: Fresno CA 93721		Phone: 559-600-4477	
Responsible Lighting Designer Name:		Signature: NOT IN SCOPE		Date Signed:	
Address:		City/State/Zip:		Phone:	
Responsible Mechanical Designer Name: Michael D. Cantrell		Signature:		Date Signed: 6-15-2020	
Company: Lawrence Engineering Group		Signature Title: Principal		Date Signed: 6-15-2020	
Address: 7084 N. Maple Ave., Suite 101		City/State/Zip: Fresno CA 93720		Phone: 559-431-0101	

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NRCC-PRF-ENV-DETAILS - SECTION START:			§ 120.4 / § 140.4(i)		Confirmed
1.	2.	3.	4.	5.	6.
Surface Name	Surface Type	Description of Assembly Layers	Notes	Pass	Fail
(N) Exterior Wall 37	Exterior Wall	Aluminum w/ Therm-Break - Triplex or low-e glass - No Ins.		<input type="checkbox"/>	<input type="checkbox"/>
(N) Exterior Wall 210	Exterior Wall	Slab - 1 in. Stucco - 7/8 in. Building Paper - 1/16 in. Compliance Insulation R1.41 Metal framed wall, 1/2in. OC, 5.5in., R-19 Gypsum Board - 5/8 in.		<input type="checkbox"/>	<input type="checkbox"/>
(N) Exterior Wall 120	Exterior Wall	Slab - 1 in. Stucco - 7/8 in. Building Paper - 1/16 in. Compliance Insulation R1.41 Metal framed wall, 1/2in. OC, 5.5in., R-19 Gypsum Board - 5/8 in.		<input type="checkbox"/>	<input type="checkbox"/>
Slab On Grade37	Underground/Floor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R=0		<input type="checkbox"/>	<input type="checkbox"/>
(N) Roof 139	Roof	Metal Standing Seam - 1/16 in. Vapor permeable Mem - 1/16 in. Cellular polystyrene (unfaced) - 6.12 in. R38 Metal Standing Seam - 1/16 in.		<input type="checkbox"/>	<input type="checkbox"/>
Interior Wall#7	Interior Wall	Gypsum Board - 1/2 in. Metal framed wall, 1/2in. OC, 1.5in., R-11 Gypsum Board - 1/2 in.		<input type="checkbox"/>	<input type="checkbox"/>
B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)			§ 120.4 / § 140.4(i)		Confirmed
This Section Does Not Apply					
C. OPAQUE DOOR SUMMARY			§ 120.4 / § 140.4(i)		Confirmed
This Section Does Not Apply					

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<b>G. MECHANICAL HVAC ACCEPTANCE TESTS &amp; FORMS (Adapted from 2016-NRCC-MCH-01-E)</b> § RA4						
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).						
Test Description	MECH-01A	MECH-01B	MECH-01C	MECH-01D	MECH-01E	Confirmed
Equipment Requiring Testing or Verification	# of units	Pass	Fail	Pass	Fail	
215 - Corridor F & Office	1	X	X	-	-	<input type="checkbox"/>
218 - Office 146-147-148	1	X	X	-	-	<input type="checkbox"/>
221 - Office 149-150-151	1	X	X	-	-	<input type="checkbox"/>
223 - 157 Hall 158 Office 154	1	X	X	-	-	<input type="checkbox"/>
223 - Office 153	1	X	X	-	-	<input type="checkbox"/>
225 - Office 159-160	1	X	X	-	-	<input type="checkbox"/>
227 - Office 161	1	X	X	-	-	<input type="checkbox"/>

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<b>G. MECHANICAL HVAC ACCEPTANCE TESTS &amp; FORMS (Adapted from 2016-NRCC-MCH-01-E)</b> § RA4						
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).						
Test Description	MECH-01A	MECH-01B	MECH-01C	MECH-01D	MECH-01E	Confirmed
Equipment Requiring Testing or Verification	# of units	Pass	Fail	Pass	Fail	
227 - Office 161-162	1	X	X	-	-	<input type="checkbox"/>
228 - Admin Area Office	1	X	X	-	-	<input type="checkbox"/>
228 - Admin Area Office 222	1	X	X	-	-	<input type="checkbox"/>
229 - Admin Conference 228	1	X	X	-	-	<input type="checkbox"/>
229 - Admin Conference 228	1	X	X	-	-	<input type="checkbox"/>
230 - Workstation A	1	X	X	-	-	<input type="checkbox"/>
231 - Supply & Training 5	1	X	X	-	-	<input type="checkbox"/>
231 - Supply & Training 5B37	1	X	X	-	-	<input type="checkbox"/>
235A - Data	1	X	X	-	-	<input type="checkbox"/>

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<b>G. MECHANICAL HVAC ACCEPTANCE TESTS &amp; FORMS (Adapted from 2016-NRCC-MCH-01-E)</b> § RA4						
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).						
Test Description	MECH-01A	MECH-01B	MECH-01C	MECH-01D	MECH-01E	Confirmed
Equipment Requiring Testing or Verification	# of units	Pass	Fail	Pass	Fail	
235A - Data 244	1	X	X	-	-	<input type="checkbox"/>
236 - Data Room	1	X	X	-	-	<input type="checkbox"/>
238 - Data Room 248	1	X	X	-	-	<input type="checkbox"/>
233 - Training Room A	1	X	X	-	-	<input type="checkbox"/>
233 - Training Room A 224	1	X	X	-	-	<input type="checkbox"/>
234 - Training Room B	1	X	X	-	-	<input type="checkbox"/>
233 - Training Room B	1	X	X	-	-	<input type="checkbox"/>
235 - Corridor A & B	1	X	X	-	-	<input type="checkbox"/>

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<b>G. MECHANICAL HVAC ACCEPTANCE TESTS &amp; FORMS (Adapted from 2016-NRCC-MCH-01-E)</b> § RA4						
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).						
Test Description	MECH-01A	MECH-01B	MECH-01C	MECH-01D	MECH-01E	Confirmed
Equipment Requiring Testing or Verification	# of units	Pass	Fail	Pass	Fail	
236 - Secure Training Room	1	X	X	-	-	<input type="checkbox"/>
236 - Secure Training Room 267	1	X	X	-	-	<input type="checkbox"/>
237 - Secure Training Rec	1	X	X	-	-	<input type="checkbox"/>
237 - Secure Training Rec 271	1	X	X	-	-	<input type="checkbox"/>
238 - Interview Rooms 153	1	X	X	-	-	<input type="checkbox"/>
239 - Workstation C-2 Ev	1	X	X	-	-	<input type="checkbox"/>
240 - Workstation C-1 US	1	X	X	-	-	<input type="checkbox"/>
241 - Corridor E	1	X	X	-	-	<input type="checkbox"/>

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<b>G. MECHANICAL HVAC ACCEPTANCE TESTS &amp; FORMS (Adapted from 2016-NRCC-MCH-01-E)</b> § RA4						
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).						
Test Description	MECH-01A	MECH-01B	MECH-01C	MECH-01D	MECH-01E	Confirmed
Equipment Requiring Testing or Verification	# of units	Pass	Fail	Pass	Fail	
242 - Workstation B-1	1	X	X	-	-	<input type="checkbox"/>
243 - Workstation B-2	1	X	X	-	-	<input type="checkbox"/>

**H. EVAPORATIVE COOLER SUMMARY**  
This Section Does Not Apply

**NRCC-PRF-LTI-DETAILS -SECTION START-**

**A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-4)** § 140.6  
This Section Does Not Apply

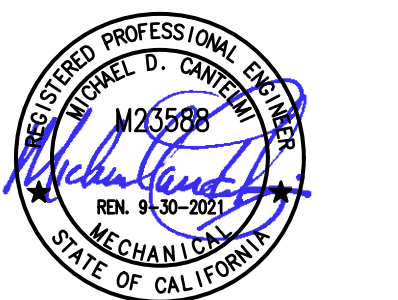
**B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-4)** § 130.1  
This Section Does Not Apply

**C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-4)** § 140.6  
This Section Does Not Apply

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<b>D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-4)</b> § 140.6-D					
This Section Does Not Apply					
<b>E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-4)</b> § 140.6(C) 3H					
This Section Does Not Apply					
<b>F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-4)</b>					
This Section Does Not Apply					
<b>G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-4)</b>					
This Section Does Not Apply					
<b>H. INDOOR &amp; OUTDOOR LIGHTING ACCEPTANCE TESTS &amp; FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTI-01-4)</b> § 130.4					
This Section Does Not Apply					

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**Project:**  
Sheriff Area 2 Sub-Station  
1129 N. Armstrong Ave., Fresno, CA  
APN: 310-133-04-.05, and -.06  
ISSUE DATE: 10.10.2019  
PROJECT NO: T80293 / 19003  
FILE NAME:

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Fresno County Department of Public Works and Planning Capital Projects  
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