



Capitol Connection Q&A for Contractors
By Shauna Krause, President, Capitol Services, Inc.

Does every rule have an exception? Yes, it would seem so. Can a General 'lumberjack' project land? Like a stick of gum, this last contractor has 'two, two problems' in one and learns they have bitten off more than they can chew...

Q: I've always been told that referral fees are a "no-no" for contractors. I'm confused on why it's okay for Referral Service Companies to refer contractors to homeowners and collect a fee from the contractor.

A: B&P Code Section 7157(d) states that it is *illegal for a contractor to accept or allow any compensation from another contractor* for home improvement services, however this law *does not apply to non-contractors*. It's important to remember that a referral service cannot solicit or negotiate contracts on behalf of a contractor, or **offer to undertake to**, or purport to have the capacity to undertake itself or through others a construction project. The prospective customer should enter into contracts directly with the licensed contractor and all payments should go directly to the contractor.

Q: My company has an "A" (General Engineering) and "B" (General Building) license. We frequently remove trees as part of our land clearing in order to prepare for jobs. We are being told by a sub-contractor we are required to have a "D-49" (Tree Service) license. It seems to me that would be covered under our "A" and "B". Am I incorrect?

A: You are the correct one! If a project is awarded to an "A" contractor, it is considered a General Engineering project. An "A" Prime Contractor is licensed to self-perform or sub-contract out all work required to complete that project. Therefore, if tree removal is required as part of the project, you are licensed to self-perform that work.

Q: We have both a CA and NV license up for renewal next month. They are General Partnership licenses where the General Partner actually changed about a year and a half ago because it merged in another corporation. In receiving the renewal notifications, we discovered that we failed to notify the CSLB and the NV Contractor's Board. Along with the CA renewal, we received a letter stating the license would be cancelled upon expiration because they obviously discovered the change with the Secretary of State. Nevada didn't send any such letter. In reading the statutes, once we notify the NV Board of the General Partner change, the license will be cancelled immediately. Is there any option for an extension?

A: Unfortunately, there is not. Once you notify the NV Board of a change of Partnership, they do automatically cancel the license. I would suggest getting the paperwork for a new license submitted as soon as you can so they can hopefully process it before the license expires. Be aware that when you submit the application, it's possible (and quite likely) the technician will look up the existing license and notice the change which will cause the cancellation.

Contractor's Note: We have a new *mailing address* below to update your contact files!

While knowledge is power, knowing where to go for the answers is half the battle. Get expert assistance immediately when you call 866-443-0657, email info@cutredtape.com, or write us at Capitol Services, Inc., 3609 Bradshaw Rd, Ste H, #343, Sacramento, CA 95827. Research past columns at www.cutredtape.com

APPLICATIONS PROCESSED

County of Nevada

Owner	Contractor
192270 9/1/2019 Received 62-18-0060 13650 MURPHY ROAD Nevada City 95959	HUGHES TRACY 2036 NEVADA CITY HWY PMI 95945 Echeri Landscape Solutions, Inc. 13650 Murphy Rd Nevada City 95959 Electrical
192271 9/1/2019 Issued 31-16-0042 13776 LAUREL HILL LOOP Penn Valley 95946	LEE MICHAEL G & ANGELA B ETAL POB 659 95668 OWNER/BUILDER Same as Site address Same As SAMEAS Reroof
192272 9/3/2019 Issued 33-22-0007 13221 ROADRUNNER CT Penn Valley 95946	WITT DOROTHY E TRSTE ETAL 13221 ROADRUNNER CT 95946 MEDICH ELECTRIC P O BOX 437 FORESTHILL 95631 Generator
192273 9/3/2019 In Review 39-07-0010 15317 BANNER LAVA CAP ROAD Nevada City 95959	DEAN STEPHEN W & DIANE P TRSTES 15317 BANNER LAVA CAP RD 95959 MEDICH ELECTRIC P O BOX 437 FORESTHILL 95631 Solar Array
192274 9/3/2019 Issued 4-65-0011 11959 CEMENT HILL ROAD Nevada City 95959	FENNER GREG R & SUSAN K TRSTES 11959 CEMENT HILL RD 95959 A&A Air Conditioning & Heating 763 S. Auburn Street Grass Valley 95945 Mechanical
192276 9/3/2019 Issued 4-43-0059 10050 TOLLER RIDGE CT Nevada City 95959	RANDALLS BEATRICE M 10050 TOLLER RIDGE 95959 FRYE ROOFING P O BOX 1496 PENN VALLEY 95946 Reroof
192277 9/3/2019 In Review 12-78-0004 13929 OLD EMIGRANT TRL Grass Valley 95945	SIMPSON MARK & JULIE 22245 WELBY WAY 91303 OWNER/BUILDER Same as Site address Same As SAMEAS New Residence
192278 9/3/2019 Issued 38-02-0049 13093 TALL OAK PL Nevada City 95959	PREBLE KENNETH J & JACQUE J 3161 ROBINSON DR 94602 A A Air Conditioning Heating 763 S Auburn Street Grass Valley CA 95945 95945 Mechanical
192279 9/3/2019 Issued 33-41-0036 17993 JAYHAWK DR Penn Valley 95946	WULF THOMAS L & SHARON L TRSTES 17993 JAYHAWK DR 95946 None Listed 11773 Slow Poke Ln Grass Valley 95945 Reroof

County of Nevada

Owner	Contractor
192280 9/3/2019 Received 1-94-4068 10356 TRUCKEE AIRPORT ROAD Truckee 96161	TRUCKEE-TAHOE AIRPORT DIST 10356 TRUCKEE AIRPORT RI 15086 Davos Dr Truckee 96161 Electrical
192281 9/3/2019 Issued 38-27-0006 16362 PASQUALE ROAD Nevada City 95959	SCOTT DOLORES M TRSTE ETAL 205 LIVE OAK CIR 95678 None Listed 11773 Slow Poke Ln Nevada City 95959 Reroof
192282 9/3/2019 In Review 4-68-0009 10491 WOODS RAVINE CT Nevada City 95959	TIECK FAMILY TRUST 641 ABBIE ST 94566 LEN STEVENS CONSTRUCTION INC 12888 SPENCEVILLE ROAD PENN VALLEY 95946 New Residence
192284 9/3/2019 Issued 2-72-0008 14720 BEYERS LANE Grass Valley 95949	STEVEN & ANDREA GUILD 14720 Beyers Ln 95949 FRESCHI CONSTRUCTION INC 12461 LABARR MEADOWS RD GRASS VALLEY 95949 Remodel
192285 9/3/2019 Issued 2-52-5111 16134 FAIRWAY GLEN PLACE Grass Valley 95949	HAMILTON VIRGINIA L TRSTE 16134 FAIRWAY GLEN PL 95949 None Listed 11773 Slow Poke Ln Grass Valley 95945 Reroof
192286 9/4/2019 Issued 4-14-0008 16356 INDIAN FLAT ROAD Nevada City 95959	RUTTEN LUKE T & AMY D 16348 INDIAN FLAT RD 95959 OWNER/BUILDER Same as Site address Same As SAMEAS Solar Array
192288 9/4/2019 Issued 2-44-0008 18149 MUSTANG VALLEY PL Grass Valley 95949	BLEAU MEDDLES FAMILY TRUST 18149 MUSTANG VALLEY PL 95949 OWNER/BUILDER Same as Site address Same As SAMEAS Deck
192289 9/4/2019 In Review 34-01-0058 14529 HUDSON WAY Nevada City 95959	VAN DYKE LAUREN C POB 2248 95959 OWNER/BUILDER Same as Site address Same As SAMEAS New Residence
192290 9/4/2019 Issued 57-16-0031 23783 SHARONJACK ROAD Auburn 95602	DAVID J SHAEFFER TRUST 23783 STATE HWY 49 95602 JAMES PETERSEN INDUSTRIES INC 39300 CIVIC CENTER DR STE 300 FREMONT 94538 Solar Array



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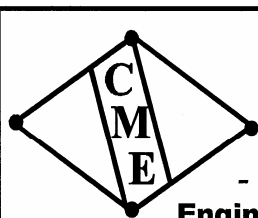
APPLICATIONS PROCESSED

County of Nevada

Owner	Contractor
192291 9/4/2019 KASTNER ERIC J ETAL 18238 HUMMINGBIRD DR 95946 Issued 33-32-0017 18238 HUMMINGBIRD DR Penn Valley 95946	JAMES PETERSEN INDUSTRIES INC 39300 CIVIC CENTER DR STE 300 FREMONT 94538 Solar Array
192292 9/4/2019 FRENCH FAMILY REVOC LIVING TRUST 10838 ALTA SIERRA DR 95949 Issued 20-81-0038 10838 ALTA SIERRA DR Grass Valley 95949	OWNER/BUILDER Same as Site address Same As SAMEAS Generator
192293 9/4/2019 KASTNER ERIC J ETAL 18238 HUMMINGBIRD DR 95946 Issued 33-32-0017 18238 HUMMINGBIRD DR Penn Valley 95946	JAMES PETERSEN INDUSTRIES INC 39300 CIVIC CENTER DRIVE FREMONT 94538 Reroof
192294 9/4/2019 FURRER ZACHARY R & CAROLYN C 9864 BRUNSWICK WAY 94583 Issued 39-23-0062 13035 HOPPY HOLLOW ROAD Grass Valley 95945	JAMES PETERSEN INDUSTRIES INC 39300 CIVIC CENTER DRIVE FREMONT 94538 Reroof
192295 9/4/2019 WARNER BRIAN D 1026 FLORIN RD #283 95831 Issued 24-53-0002 17592 BREWER ROAD Grass Valley 95949	JAMES PETERSEN INDUSTRIES INC 39300 CIVIC CENTER DRIVE FREMONT 94538 Reroof
192296 9/4/2019 COMMON AREA In Review 17-05-0032 10076 SKI RANCH LANE Soda Springs 95728	Alpen Engineering, Inc. P.O. Box 6 Truckee 96160 Remodel
192297 9/4/2019 DOOLITTLE CHARLES K TRSTE 11461 LAKESHORE SOUTH 95602 Issued 21-52-0017 11461 LAKESHORE SOUTH Auburn 95602	MARK STUART HARVIE 17049 LAWRENCE WAY GRASS VALLEY 95949 Deck
192298 9/4/2019 BYERRUM JON C TRSTE ETAL 11834 CEMENT HILL RD 95959 Issued 4-65-0007 11834 CEMENT HILL ROAD Nevada City 95959	OWNER/BUILDER Same as Site address Same As SAMEAS Deck
192299 9/4/2019 JACK BING YOCK INC POB 2388 Received 5-12-0034 321 BROAD ST Nevada City 95959	GOLD COUNTRY ROOFING PO BOX 3065 GRASS VALLEY 95945 Reroof

County of Nevada

Owner	Contractor
192300 9/4/2019 LAMBERT JERRY D ETAL 3141 STEVENS CREEK BL #2 95117 Received 30-22-0004 14080 CARTWRIGHT WAY Nevada City 95959	GOLD COUNTRY ROOFING PO BOX 3065 GRASS VALLEY 95945 Reroof
192301 9/4/2019 VYRIDEON LLC 1621 CENTRAL AVE 82001 In Review 60-15-0063 12100 SCENIC DR Nevada City 95959	OWNER/BUILDER Same as Site address Same As SAMEAS Grading
192302 9/4/2019 PEARSON NORA POB 404 95975 Issued 50-13-0038 21851 BLUE HORIZON CT Smartsville 95977	JWL Electric 129 Linda Dr ROSEVILLE 95678 Electrical
192303 9/4/2019 JENNEMANN CHEPHREN & CASSANDRA 19943 BUCKBOARD RD 95949 In Review 56-46-0013 19943 BUCKBOARD ROAD Grass Valley 95949	Jo Garst Design 101 W. McKnight Way, Ste B 178 Grass Valley 95949 Tenant Improvement
192304 9/4/2019 PAGE DONNA M & RICHARD G TRSTES 17100 COPPER HILL DR 95037 Issued 33-09-0026 11398 BOBCAT CT Penn Valley 95946	Southern Comfort Heating & Air 10337 Mountain Lion Lane Grass Valley 95949 Mechanical
192305 9/4/2019 LILLIS JOHN W & ANITA J 11933 CLOVER CT 95602 Issued 2-11-6038 11933 CLOVER COURT Auburn 95602	Golden gun construction 20074 mockingbird way Grass valley 95945 Reroof
192306 9/5/2019 FOSSAN LIVING TRUST 13965 GOLD COUNTRY DR 95946 Issued 50-45-0014 13965 GOLD COUNTRY DR Penn Valley 95946	All Phase Heating and Air 731 S Auburn St Grass Valley 95945 Mechanical
192307 9/5/2019 GLASPEY CHAD V & CHRISAN L 16742 MEYER LN 95949 Received 25-57-0005 16742 MEYER LANE Grass Valley 95949	River City Window & Door 11290 Trade Center Drive Ste B Rancho Cordova 95742 Window Change Out
192308 9/5/2019 THOMAN MARK R & MONTESA A 12093 ROUGH & READY HWY 95945 Issued 52-13-0002 12093 ROUGH AND READY HIGHWAY Grass Valley 9	GSJ CONSTRUCTION COMPANY INC 1079 SUNRISE AVE 343 ROSEVILLE 95661 Electrical



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APPLICATIONS PROCESSED

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192309 9/5/2019 Issued 8-22-0003 10380 ALTA ST Grass Valley 95945	None Listed PO Box 3145 Los Altos 94024 Electrical
192310 9/5/2019 Received 11-52-0028 20506 ADAMSON DR Grass Valley 95949	CALIFORNIA SOLAR ELECTRIC COMPANY P O BOX 480 GRASS VALLEY 95945 Solar Array
192311 9/5/2019 Received 32-65-0002 16000 EXCELSIOR DITCH CAMP ROAD Nevada City	None Listed 11773 Slow Poke Ln Grass Valley 95945 Reroof
192312 9/5/2019 Received 32-65-0002 16000 EXCELSIOR DITCH CAMP ROAD Nevada City	None Listed 11773 Slow Poke Ln Grass Valley 95945 Reroof
192313 9/5/2019 Issued 33-53-0018 18421 LAKE FOREST DR Penn Valley 95946	FIDDLER ON THE ROOF P O BOX 245 PENN VALLEY 95946 Reroof
192315 9/5/2019 Received 26-29-0006 21892 OAK MEADOW ROAD Grass Valley 95945	None Listed 21892 Oak Meadows Rd. Grass Valley 95945 Electrical
192316 9/5/2019 Received 35-09-0014 14825 ECHO RIDGE DR Nevada City 95959	ABT Plumbing 699 south auburn st Grass Valley 95945 Mechanical
192317 9/5/2019 Received 3-74-4026 11440 CHAMBERLIN COURT Nevada City 95959	CALIFORNIA SOLAR ELECTRIC COMPANY P O BOX 480 GRASS VALLEY 95945 Solar Array
192318 9/5/2019 In Review 60-18-0022 15856 FAWN BROOK ROAD Nevada City 95959	JO GARST DESIGN 101 W. McKnight Way, Ste B 178 Grass Valley 95949 Tenant Improvement

County of Nevada

Owner	Contractor
192319 9/5/2019 Received 21-69-0032 26225 TABLE MEADOW ROAD Auburn 95602	CALIFORNIA SOLAR ELECTRIC COMPANY P O BOX 480 GRASS VALLEY 95945 Solar Array
192320 9/5/2019 Received 26-45-0022 19581 WOLF CREEK ROAD Grass Valley 95949	CALIFORNIA SOLAR ELECTRIC COMPANY P O BOX 480 GRASS VALLEY 95945 Solar Array
192321 9/6/2019 Issued 24-61-0012 16610 GEORGE WAY Grass Valley 95949	SUN'S ROOFING 3052 SEAN DRIVE LIVE OAK 95953 Reroof
192322 9/6/2019 Issued 12-64-1048 14180 GREENPEACE LANE Grass Valley 95945	OWNER/BUILDER Same as Site address Same As SAMEAS Reroof
192323 9/6/2019 Received 5-09-1011 520 EAST BROAD ST Nevada City 95959	Byers Enterprises 11773 Slow Poke Ln Grass Valley 95945 Reroof
192325 9/6/2019 Issued 31-20-0012 13817 GINGER LOOP Penn Valley 95946	ECLIPSE ENERGY & CONSTRUCTION 829 DINSDALE CIRCLE WOODLAND 95776 Solar Array
192326 9/6/2019 Issued 21-52-0020 23972 REDWOOD CT Auburn 95602	NORTHWEST EXTERIORS INC 11200 SUN CENTER DRIVE RANCHO CORDOVA 95670 Window Change Out
192327 9/6/2019 Issued 21-18-0058 12942 TORREY PINES DR Auburn 95602	HOME DEPOT U S A INC 2455 PACES FERRY ROAD C-11 ATLANTA 30339 Window Change Out
192328 9/6/2019 In Review 57-14-1019 22457 JENNIFER DR Grass Valley 95949	OWNER/BUILDER Same as Site address Same As SAMEAS New Residence



Ralphie's Concrete Services, Inc.

Rafael Montejano
Owner
SCL #957590

Grass Valley, CA
530.913.2573
rcsconcrete67@gmail.com

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Jeff Hansen
Construction Manager

Construction Division

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GRANTOR INDEX

Grantor Grantee Report for DocType: 258

Notice of Completion

Reception	Book	Page	Record Date	Document Type	APN
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Grantor (2 records)

NOUSIAINEN RAINER A
NOUSIAINEN KATERINA M

Grantee (0 records)

Total Documents: 1



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GRANTOR INDEX

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20190017157

9/5/19 3:38 PM

205

Grantor (1 record)

NEW MARTIS PARTNERS LLC

Grantee (1 record)

EDGES ELECTRICAL GROUP LLC

Total Documents: 1

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	Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
Alameda, Contra Costa, Solano County						
NEW	9/24/19	2:15 PM	Various Locations	0	19-00033	OVERHEAD ROLL-UP DOOR REPAIR, MAINTENANCE, AND INSPECTION IN ALAMEDA, CONTRA COSTA AND SOLANO COUNTIES
Amador County						
	9/26/19	1:30 PM	Jackson	0	19-03299	PURCHASE OF 2 PICKUP TRUCKS WITH ENCLOSED UTILITY BODY FOR AMADOR COUNTY SHERIFF'S OFFICE
	10/3/19	1:30 PM	Jackson	0	19-03158	CONTRACT SERVICES FOR COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) PROGRAM
	10/10/19	1:30 PM	Jackson	0	19-03300	ARCHITECTURAL SERVICES FOR LIBRARY RENOVATIONS
	10/15/19	1:30 PM	lone	1	19-03312	WASTEWATER TREATMENT PLANT RESERVOIR LINER REPAIR SERVICES
Butte County						
	9/17/19	2:00 PM	Oroville	0	19-03220	2019 OROVILLE PAVEMENT REHABILITATION PROJECT
	9/17/19	2:30 PM	Oroville	0	19-03317	BREAKAWAY SIGN POSTS
*	9/25/19	1:30 PM	Paradise	6	19-02649	PARADISE UNIFIED SCHOOL DISTRICT TRANSPORTATION OFFICE
	9/25/19	2:30 PM	Oroville	1	19-03203	DESIGN SERVICES & CONSTRUCTION SUPPORT CONCOW VOLUNTEER FIRE STATION #37 RECONSTRUCTION PROJECT
*	9/25/19	2:00 PM	Paradise	4	19-03226	PARADISE HIGH SCHOOL GYMNASIUM (REBID)
	9/25/19	4:00 PM	Chico	0	19-03270	GEOTECHNICAL SERVICES FOR THE CHICO MUNICIPAL AIRPORT GROUNDWATER MONITORING
	9/26/19	3:00 PM	Oroville	2	19-03120	RFQ-EVIDENCE STORAGE BUILDING AND MORGUE PROJECT- 021912 ARCHITECTURAL/ENGINEERING DESIGN FIRM SERVICES
	9/26/19	2:00 PM	Butte County	0	19-00322	CDOT 03-4F8004 REPLACE MINOR CONCRETE CURB, SIDEWALK, DRIVEWAY AND CURB RAMP
	9/26/19	4:00 PM	Chico	2	19-03325	RFQ-ON-CALL PROFESSIONAL CIVIL ENGINEERING SERVICES
	9/26/19	4:00 PM	Chico	0	19-03326	RFQ-ON-CALL PROFESSIONAL TRAFFIC ENGINEERING SERVICES
	9/26/19	4:00 PM	Chico	1	19-03328	RFQ-ON-CALL GEOTECHNICAL ENGINEERING & MATERIALS TESTING SERVICES
	9/26/19	4:00 PM	Chico	0	19-03329	RFQ-ON-CALL RIGHT OF WAY, APPRAISAL & ACQUISITION SERVICES
	9/26/19	4:00 PM	Chico	0	19-03330	RFQ-ON-CALL PROFESSIONAL SURVEYING & MAPPING SERVICES
	9/26/19	4:00 PM	Chico	3	19-03331	RFQ-ON-CALL CONSTRUCTION MANAGEMENT & INSPECTION SERVICES
NEW	9/27/19	10:00 AM	Paradise	0	19-03394	2019 EROSION CONTROL PROTECTION PROJECT NEAL ROAD RECYCLING AND WASTE FACILITY
NEW	9/27/19	12:00 PM	Chico	0	19-03415	SAFEWAY STORE #1125 REMODEL-(SUB-BIDS ONLY)
NEW	9/27/19	12:00 PM	Paradise	0	19-03417	PARADISE HIGH SCHOOL WASTEWATER TREATMENT SYSTEM REPAIR
NEW	10/8/19	2:30 PM	Oroville	1	19-03407	NEW PROBATION BUILDING PROGRAMMING, PRE-DESIGN AND SCHEMATIC
NEW	10/17/19	2:00 PM	Paradise	0	19-03405	PARADISE IRRIGATION DISTRICT SERVICE LATERAL REPLACEMENT PROJECT
	10/24/19	3:00 PM	Oroville	0	19-03340	RFQ-ARCHITECTURAL/ENGINEERING DESIGN FIRM SERVICES SB 863 BUTTE COUNTY JAIL PROJECT
	12/31/19	2:00 PM	Palermo	0	19-00655	CUPPCA--PALERMO UNIFIED'S LIST OF QUALIFIED BIDDERS
	12/31/19	2:00 PM	Chico	0	19-00960	PREQUALIFICATION FOR CHICO UNIFIED SCHOOL DISTRICT
	12/31/19	2:00 PM	Oroville	0	19-02028	CUPCAA - GOLDEN FEATHER UNION ELEMENTARY SCHOOL DISTRICT
Calaveras, El Dorado, Tuolumne County						
NEW	9/25/19	2:00 PM	Various Locations	1	19-00032	TAHOE NATIONAL FOREST (NF)/BLM MOTHER LODGE ABANDONED MINE REMEDIATIONS
Colusa County						

	Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
	9/27/19	2:00 PM	Colusa	0	19-03320	RFP - DEVELOPMENT IMPACT FEE PROGRAM UPDATE AND NEXUS STUDY
NEW	10/11/19	2:00 PM	Lodoga	0	19-03392	LODOGA PEAK RADIO REPEATER/RELAY SITE ENHANCEMENTS
Del Norte County						
	10/2/19	4:00 PM	Crescent City	0	19-03170	RFQ PEBBLE BEACH BANK STABILIZATION PROJECT REBID
	12/31/19	2:00 PM	Crescent City	0	18-03543	CITY OF CRESCENT CITY QUALIFIED BIDDERS LIST UPDATE
	12/31/19	2:00 PM	Del Norte County	0	19-02319	CALIFORNIA UNIFORM PUBLIC CONSTRUCTION COST ACCOUNTING ACT (CUPCAA) PUBLIC PROJECTS
El Dorado County						
	9/17/19	2:00 PM	Georgetown	1	19-03142	2018 MAIN CANAL RELIABILITY PROJECT
	9/18/19	3:00 PM	Placerville	0	19-03166	PRE-QUALIFICATION RESERVOIR 2/2A TANK RECOATING PROJECT
	9/18/19	3:00 PM	Placerville	0	19-03176	FITNESS EQUIPMENT PURCHASE & INSTALLATION
	9/26/19	3:00 PM	Placerville	0	19-03250	JANITORIAL SERVICES FOR THE PLACERVILLE DMV FIELD OFFICE
	9/27/19	4:00 PM	El Dorado County	0	19-03339	PPCFSC WEBER CREEK FUEL REDUCTION
	9/30/19	3:00 PM	El Dorado Hills	0	19-03301	EL DORADO HILLS BLVD CULVERT AND INTERSECTION REHAB
	10/1/19	2:30 PM	Placerville	0	19-03356	CLEANING AND QUARTERLY AND ANNUAL FLOOR AND CLEANING AND ANNUAL CARPET CLEANING AT THE PLACERVILLE DMV FIELD OFFICE
NEW	10/1/19	3:00 PM	El Dorado County	0	19-03375	INTERVIEW ROOM VIDEO RECORDING SYSTEMS AND INSTALLATION
	10/3/19	2:00 PM	Meyers	0	19-03338	TAHOE PINES CAMPGROUND REHABILITATION
	10/4/19	5:00 PM	South Lake Tahoe	0	19-03177	PUBLIC SAFETY RADIO SYSTEM REPLACEMENT
	10/4/19	2:00 PM	Georgetown	0	19-03322	DESIGN AND INSTALLATION OF STREAM GAGES
NEW	10/11/19	3:00 PM	Placerville	1	19-03393	RESERVOIR 2/2A TANK RECOATING COATING INSPECTION PROFESSIONAL SERVICES
Glenn County						
	9/19/19	2:15 PM	Willows	0	19-03218	CONSTRUCTION ON STATE HIGHWAY IN GLENN COUNTY, IN WILLOWS AT THE ROUTE 162/5 SEPARATION
	9/23/19	10:00 AM	Hamilton City	3	19-03227	HAMILTON CITY PHASE 2B LEVEE IMPROVEMENT CONSTRUCTION PROJECT
	9/24/19	2:00 PM	Orland	0	19-03324	TEHAMA STREET REHABILITATION AND ROAD IMPROVEMENT
NEW	10/1/19	2:00 PM	Orland	0	19-03402	ROAD MM SANITARY SEWER IMPROVEMENT PROJECT
	10/3/19	4:00 PM	Willows	0	19-03361	ON-CALL POTHOLE REPAIR SERVICES - GLENN COUNTY
	12/31/19	2:00 PM	Hamilton City	0	18-03841	CUPCAA FOR HAMILTON UNIFIED SCHOOL DISTRICT
	12/31/19	2:00 PM	Willows	0	19-02552	CUPCAA FOR GLENN COUNTY OFFICE OF EDUCATION
Humboldt County						
	* 9/17/19	3:30 PM	McKinleyville	3	19-02633	MCKINLEYVILLE CSD MICROGRID PROJECT
	9/23/19	5:00 PM	Eureka	1	19-03224	RFP NORTH COAST TRIBAL TRANSPORTATION COMMISSION TRANSPORTATION PLANNER/CONSULTANT
	9/25/19	11:00 AM	Rio Dell	0	19-03335	CITY OF RIO DELL, 2019 STREET ASPHALT REPAIR - BELLEVIEW AVE
NEW	9/27/19	2:00 PM	Eureka	0	19-03399	CHIPOTLE-3352 (EUREKA) **SUBS ONLY**
	10/3/19	3:00 PM	Arcata	1	19-03314	RFQ HUMBOLDT STATE UNIVERSITY HOUSING & RESIDENCE LIFE SECURITY CAMERA SURVEILLANCE SYSTEM
NEW	10/22/19	2:00 PM	Humboldt County	0	19-00342	CDOT 01-0F9604 REPLACE BOX CULVERT WITH BRIDGE
Lake County						
	* 9/30/19	3:00 PM	Clearlake	2	19-03333	AUSTIN PARK IMPROVEMENT PROJECT
	10/9/19	2:00 PM	Lake County	0	19-00313	CDOT 01-2982U4 CONSTRUCT 4 LANE EXPRESSWAY WITH EARTHWORK AND PAVING



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	Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
	12/31/19	2:00 PM	Upper Lake	0	18-03934	UNIFORM PUBLIC CONSTRUCTION COST ACCOUNTING PUBLICATION LIST FOR UPPER LAKE UNIFIED SCHOOL DISTRICT
	12/31/19	2:00 PM	Lakeport	0	19-00183	2019 UPCCAA FORM FOR LAKEPORT UNIFIED SCHOOL DISTRICT
Lake, Mendocino County						
NEW	10/2/19	2:00 PM	Lake and Mendocino Counties	0	19-00338	CDOT 01-0E8504 GUARDRAIL AND MINOR CONCRETE VEGETATION CONTROL
Lassen County						
	9/18/19	2:00 PM	Wendel	0	19-03262	CHECK STATION HVAC, HONEY LAKE WILDLIFE AREA, LASSEN COUNTY, CALIFORNIA
	9/20/19	4:00 PM	Susanville	0	19-03066	DESIGN SERVICES FOR STREET OVERLAY & ADA FACILITY DESIGN SERVICES
	9/24/19	2:30 PM	Susanville	0	19-03240	QUARTERLY AND ANNUAL CARPET CLEANING AND FLOOR MAINTENANCE SERVICES AT THE SUSANVILLE DMV FIELD OFFICE.
	9/26/19	2:00 PM	Susanville	0	19-03313	SUSANVILLE CITY HALL RE-ROOF PROJECT
	10/8/19	2:00 PM	Susanville	0	19-03269	HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) CONTROLS MAINTENANCE, INSPECTION AND REPAIR SERVICES
	12/31/19	2:00 PM	Susanville	0	18-04000	CUPCCAA FOR LASSEN UNION HIGH SCHOOL DISTRICT
Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama, Trinity County						
NEW	9/26/19	2:15 PM		0	19-03413	BARE EQUIPMENT RENTAL OF CRACK SEALING KETTLE/MELTER IN CALTRANS DISTRICT 2
Mendocino County						
NEW	10/3/19	3:30 PM	Ukiah	0	19-03401	RFP PROJECT AND CONSTRUCTION MANAGEMENT SERVICES
NEW	10/8/19	3:00 PM	Willits	0	19-03387	RFQ A&E ON-CALL WILLITS BYPASS MITIGATION MONITORING SERVICES - D3
	12/31/19	2:00 PM	Ukiah	0	18-03821	NOTICE INVITING QUALIFIED BIDDERS FOR THE CALIFORNIA UNIFORM PUBLIC CONSTRUCTION COST ACCOUNTING ACT INFORMAL BIDDING PROCESS
	12/31/19	2:00 PM	Mendocino	0	19-01540	MENDOCINO UNIFIED SCHOOL DISTRICT QUALIFIED CONTRACTORS LIST
Modoc County						
	* 9/23/19	2:00 PM	Alturas	2	19-02999	SOUTH FORK WAREHOUSE ENCLOSURE
Napa County						
	9/17/19	2:00 PM	Napa	1	19-03025	SANITARY SEWER MANHOLE ADJUSTMENT PROJECT, PHASE IX
	9/18/19	2:00 PM	Napa	1	19-03221	CDFW - ELECTRIC VEHICLE SUPPLY EQUIPMENT - NAPA
	9/19/19	11:30 AM	Napa	3	19-03190	NAPA RIVER EMERGENCY BANK STABILIZATION PROJECT
	9/19/19	2:00 PM	Napa	1	19-03253	LITTLE CRITTERS FENCE AND GATES
	9/20/19	5:00 PM	Napa	0	19-03039	COMPREHENSIVE USER FEE STUDY AND COST ALLOCATION PLAN
	9/26/19	11:30 AM	Napa	1	19-03184	OVOK GROUP B REVEGETATION PROJECT
NEW	9/26/19	3:00 PM	Napa	0	19-03416	JEFFERSON STREET AT 1ST STREET AND 2ND STREET COUPLET FLIP
	9/27/19	5:00 PM	Napa	0	19-03257	RFP BALE SLOUGH - BEAR CREEK RESTORATION PROJECT DESIGN
	9/27/19	3:00 PM	St. Helena	2	19-03302	REQUEST FOR PROPOSALS FOR THE CONN DAM SPILLWAY REPAIR PROJECT - PHASE II
	* 11/21/19	11:30 AM	Napa	3	19-02638	2017 STORM DAMAGE REPAIRS ON DRY CREEK ROAD AND MT VEEDER ROAD
	12/31/19	2:00 PM	Calistoga	0	19-00588	CUPCCA FOR CALISTOGA JOINT USD
	3/27/20	5:00 PM	Napa	0	19-03271	RFP - FIXED BASE OPERATOR SERVICES
Nevada County						
	9/16/19	2:00 PM	Truckee	0	19-03272	SNOW REMOVAL SERVICES-CHP TRUCKEE AREA OFFICE
	* 9/18/19	3:00 PM	Nevada County	2	19-03032	IFB-JANITORIAL SERVICES FOR NEVADA COUNTY FACILITIES

	Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
	9/18/19	2:00 PM	Grass Valley	1	19-03258	BELL HILL ACADEMY MODULAR MULTI-PURPOSE BUILDING
	9/19/19	2:15 PM	Soda Springs	0	19-03316	DONNER SAFETY ROADSIDE REST AREA ROOF REPLACEMENT
NEW	10/3/19	2:00 PM	Grass Valley	1	19-03376	GRASS VALLEY CHARTER SCHOOL MODERNIZATION PHASE 2
NEW	10/4/19	2:00 PM	Truckee	0	19-03406	DISTRICT ADMINISTRATION BUILDING UPSTAIRS REMODEL PROJECT
	10/31/19	2:00 PM	Nevada City	0	19-03191	AMODEO SPA AND ENCLOSURE PROJECT
	12/31/19	2:00 PM	Grass Valley	0	19-02045	CUPCCAA - NEVADA JOINT UNION HIGH SCHOOL DISTRICT
Placer County						
	* 9/16/19	2:00 PM	Loomis	2	19-03121	KUCCHAR RESIDENCE (MASTER BEDROOM/BATHROOM ADDITION)
	9/16/19	4:00 PM	Granite Bay	0	19-03276	HINKLE RESERVOIR LINER AND COVER REPLACEMENT PROJECT - DESIGN SERVICES
	9/16/19	2:00 PM	Loomis	0	19-03279	KUCCHAR RESIDENCE (28X72 FINISHED SHOP)
	9/17/19	3:00 PM	Roseville	0	19-03228	INTERNATIONAL TRUCK WITH DAKOTA BODY
	9/17/19	11:00 AM	Tahoe City	0	19-03231	ADMINISTRATION FACILITY OFFICE EXPANSION PROJECT
	9/17/19	2:00 PM	Emigrant Gap	0	19-03321	BIG BEND WATER SYSTEM IMPROVEMENT PROJECT
NEW	9/17/19	11:00 AM	Kings Beach	1	19-03383	2019 BOYS AND GIRLS CLUB REROOF PROJECT
	* 9/18/19	11:00 AM	Roseville	2	19-03097	OAKMONT INDUSTRIAL ARTS MODERNIZATION INCREMENT 2 (SUB BIDS ONLY)
	9/19/19	1:00 PM	Rocklin	3	19-03198	FIRE STATION 24 REMODEL
NEW	9/19/19	3:00 PM	Lincoln	0	19-03365	NATURAL PASSAGES (SUB BIDS ONLY)
	9/20/19	4:00 PM	Auburn	0	19-03086	MULTI-YEAR CONTRACT - WASTEWATER SYSTEM REPAIRS
	9/20/19	1:30 PM	Rocklin	1	19-03200	2019 ROADWAY RESURFACING PROJECT- SLURRY SEAL
	9/20/19	1:00 PM	Rocklin	0	19-03201	2019 ROADWAY RESURFACING PROJECT - HIGH DENSITY MINERAL BOND
	* 9/20/19	11:00 AM	Auburn	3	19-03210	MAIN JAIL HOUSING UNIT NUMBER 4 PLASTER REMEDIATION
NEW	9/20/19	11:00 AM	Tahoe City	0	19-03366	HVAC MAINTENANCE FOR THE TAHOE CITY TRANSIT CENTER
	* 9/24/19	10:00 AM	Rocklin	8	19-02872	ROCKLIN ACADEMY - MODULAR BUILDING ADDITIONS - INCREMENTS 2 & 3
	9/26/19	3:00 PM	Roseville	0	19-03159	ROSEVILLE PARKWAY EXTENSION PROJECT (BETWEEN FOOTHILLS BLVD & WASHINGTON BLVD)
	9/26/19	2:00 PM	Lincoln	0	19-03194	REQUEST FOR QUALIFICATIONS: WASTEWATER TREATMENT & RECLAMATION FACILITY PHASE 1 EXPANSION PROJECT
	9/27/19	3:00 PM	Roseville	1	19-02978	MAHANY PARK TRAIL AND OPEN SPACE ENHANCEMENT FEASIBILITY STUDY
NEW	9/27/19	11:00 AM	Placer County	0	19-03408	EXTERIOR LIGHTING MAINTENANCE SERVICES
	10/1/19	3:00 PM	Roseville	0	19-03303	RPP2 FIRE SUPPRESSION SYSTEM REPLACEMENT
	10/9/19	9:00 AM	Rocklin	2	19-03341	STUDENT CENTER KITCHEN UPGRADE
	10/15/19	4:00 PM	Rocklin	0	19-03178	AS NEEDED PLAN CHECKING SERVICES
NEW	10/15/19	2:00 PM	Auburn	0	19-03397	FOOTHILL RAW WATER PIPELINE PHASE 2
NEW	10/18/19	3:00 PM	Roseville	0	19-03370	UNSHELTERED CAMP AND TRASH/DEBRIS REMOVAL
NEW	10/21/19	3:00 PM	Lincoln	0	19-03385	INTEGRATED LIBRARY SYSTEM
NEW	11/8/19	3:00 PM	Roseville	0	19-03396	PROFESSIONAL ENGINEERING AND ENVIRONMENTAL PERMITTING SERVICES FOR THE DRY CREEK GREENWAY EAST PHASE 1 PROJECT
	12/31/19	12:00 PM	Norden	0	18-02873	CA FLAP NEV 40(1). DONNER PASS ROAD SITE VISIT
	12/31/19	2:00 PM	Newcastle	0	19-02480	CUPCCA FOR NEWCASTLE ELEMENTARY SCHOOL DISTRICT
Plumas County						
	9/20/19	3:00 PM	Indian Valley	0	19-03337	2019 DIAMOND MOUNTAIN ROAD AGGREGATE BASE
	9/30/19	4:00 PM	Quincy	0	19-03293	REQUEST FOR PROPOSAL PLUMAS COUNTY MULTI-HAZARD MITIGATION PLAN UPDATE

	Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
NEW	10/10/19	2:00 PM	Greenville	0	19-03382	PLUMAS NATIONAL FOREST (NF) ABANDONED MINE REMEDIATIONS
Sacramento County						
	* 9/16/19	1:00 PM	Sacramento	6	19-03162	CUSTOMER SERVICE CENTER TENANT IMPROVEMENT
	9/16/19	5:00 PM	Fair Oaks	0	19-03233	SPECIAL DISTRICT FINANCIAL AUDITOR
	9/16/19	3:00 PM	Sacramento	2	19-03254	RESIDENTIAL PROPERTY SECURITY UPGRADE
	* 9/17/19	2:00 PM	Elk Grove	9	19-02834	IMPROVEMENT PLANS FOR STERLING MEADOWS PHASE 2B
	* 9/17/19	10:00 AM	Mather	4	19-02990	CONSTRUCT NEW DERMATOLOGY OUTPATIENT SERVICE BUILDING
	9/17/19	5:00 PM	Sacramento	1	19-03213	REBID SRWTP INTAKE LIGHTING PROJECT
	9/18/19	2:00 PM	Sacramento	3	19-03068	FEDERAL DOWNTOWN CONTROLLERS PROJECT
	9/18/19	11:00 AM	Elk Grove	3	19-03089	GRAVITY BELT THICKENER (GBT) NO. 3 ADDITION PROJECT
	9/18/19	2:00 PM	Sacramento	0	19-03238	TEMPLE AVENUE PARK PLAYGROUND
NEW	9/18/19	5:00 PM	Elk Grove	2	19-03381	STONE LAKES NATIONAL WILDLIFE REFUGE STRIPPING AND RE-FINISHING OF SHADE STRUCTURE
	9/19/19	2:00 PM	Elk Grove	0	19-03173	CO2 DELIVERY TO DISTRICT POOL
	9/19/19	5:00 PM	Rancho Cordova	0	19-03243	RFQ MISCELLANEOUS PROFESSIONAL CONSULTANT SERVICES
	9/19/19	10:00 AM	Rancho Cordova	0	19-03286	CORDOVA PARK SAFE ROUTES TO SCHOOL PROJECT
	9/19/19	2:00 PM	Sacramento	0	19-03291	TREE MITIGATION, BUS STOP DEMOLITION, AND LANDSCAPE RESTORATION
	9/19/19	2:00 PM	Sacramento	0	19-03342	JANITORIAL SERVICES FOR CALIFORNIA EXPOSITION & STATE FAIR
	9/19/19	4:00 PM	Sacramento	0	19-03348	PREQUALIFICATIONS INSTITUTE FOR REGENERATIVE CURES TESTA WEST LABORATORY
	9/20/19	3:00 PM	Rancho Cordova	0	19-03112	PREPARATION OF AN URBAN FOREST MASTER PLAN
	9/20/19	5:00 PM	Sacramento	0	19-03117	REQUEST FOR QUALIFICATIONS - FUTURE ARCHITECTURAL SERVICES DIVISION PROJECTS (VARIOUS DISCIPLINES)
	* 9/20/19	10:00 AM	Sacramento	4	19-03147	AMERICAN RIVER COMMON FEATURES NATOMAS BASIN - RIVERSIDE CANAL PHASE 2 RELOCATION PROJECT AND REACH B PROJECT
	9/20/19	2:00 PM	Sacramento	0	19-03295	BEE BRIDGE BEARING PAD REINSTALLATION
	9/20/19	5:00 PM	Sacramento	0	19-03353	MARINE VESSEL REMOVAL AND DISPOSAL SERVICES
NEW	9/20/19	2:00 PM	Sacramento	0	19-03400	FLOYD FARMS LLB (SUB BIDS ONLY)
	9/23/19	5:00 PM	Sacramento	0	19-03234	REBID SECONDARY LEVEE EVALUATION
	* 9/23/19	2:00 PM	North Highlands and Sacramento	4	19-03298	LARCH NORTHROP AND GILMAN CORNELIA DISTRIBUTION SUBSTATION UPGRADES
NEW	9/23/19	2:00 PM	Elk Grove	1	19-03414	MCDONALD'S 04-4701 ELK GROVE MOD C (SUB BIDS ONLY)
	* 9/24/19	1:00 PM	Sacramento	4	19-03041	HOSPITAL SEISMIC UPGRADE, INCREMENT 3 - STAIR TOWER & EXIT CORRIDOR UPGRADE AND HOSPITAL SEISMIC UPGRADE, INCREMENT 4 - DECOMMISSION NORTH/SOUTH WING REBID
	9/24/19	2:00 PM	Sacramento	0	19-03261	RFQ UNINTERRUPTIBLE POWER SYSTEMS (UPS) MAINTENANCE
	9/24/19	2:00 PM	Herald	0	19-03282	ARCOHE ELEMENTARY SCHOOL WALK IN REFRIGERATION REPLACEMENT
	9/24/19	2:00 PM	Elk Grove	1	19-03304	PUBLIC INFRASTRUCTURE MAINTENANCE (PIM) PROJECT
	9/24/19	2:00 PM	Sacramento	0	19-03323	UTDC LIGHT RAIL VEHICLE MAINTENANCE SERVICES
NEW	9/24/19	2:00 PM	Fair Oaks	0	19-03369	CALIFORNIA MONTESSORI PROJECT MODERNIZATION (AT LITTLEJOHN ES) (SUB BIDS ONLY)
NEW	9/24/19	2:00 PM	Sacramento	0	19-03379	OVERHEAD CRANE INSPECTION, PREVENTIVE MAINTENANCE, LOAD TESTING, AND ON-CALL REPAIR
NEW	9/24/19	3:00 PM	Sacramento	0	19-03380	INSPECTION AND REPAIR HYDRAULIC LIFTS AND CRANES
NEW	9/24/19	4:00 PM	Sacramento	0	19-03395	AMERICAN RIVER PARKWAY (ARP) DEBRIS REMOVAL
	9/25/19	2:00 PM	Folsom	0	19-03107	FOLSOM BLVD INTERSECTION IMPROVEMENT PROJECT

	Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
	9/25/19	2:00 PM	Sacramento	0	19-03241	FRANKLIN BLVD CLASS IV PROTECTED BIKEWAY PROJECT
	9/25/19	2:00 PM	Sacramento	0	19-03264	TRIANGLE PARK PLAYGROUND REPLACEMENT
	9/25/19	2:00 PM	Sacramento	0	19-03310	CREAMERY PLANTER BOX REPLACEMENT PROJECT
	* 9/26/19	3:00 PM	Sacramento	2	19-03030	REPLACEMENT OF FIRE SPRINKLERS AT CAL EXPO
	9/26/19	2:00 PM	Sacramento	0	19-03202	DHA 2450 FLORIN RD. AIPHONE AND IP CAMERA PROJECT
	9/26/19	2:00 PM	Sacramento	2	19-03284	SACRAMENTO PARKING GARAGE & SURFACE LOT ACCESS BARRIER REMOVAL AND DEFERRED MAINTENANCE AND SACRAMENTO STATE GARAGE LOT #2 RESTRIPIG
	9/26/19	2:00 PM	Carmichael	0	19-03360	SJUSD MAINTENANCE & OPERATIONS PARKING LOT
NEW	9/26/19	2:00 PM	Sacramento	0	19-03371	AMERICAN RIVER WATERSHED - NATOMAS BASIN PROJECT REACH B - RESIDENTIAL STRUCTURE ASBESTOS ABATEMENT, LEAD PAINT AND HOUSEHOLD HAZARDOUS WASTE REMOVAL PROJECT
NEW	9/26/19	2:00 PM	Sacramento	0	19-03372	NATOMAS BASIN PROJECT REACH B - JOHNSON RANCH CONTAMINATED SOIL REMOVAL
	9/27/19	10:00 AM	Sacramento	4	19-03076	TWIN RIVERS OFF SITE INFRASTRUCTURE - PHASES 1C & 2C, VARIOUS ADDRESSES AT TWIN RIVERS COMPLEX
	9/27/19	3:00 PM	Fair Oaks	0	19-03232	RFP ENGINEERING SERVICES AND RECOMMENDATIONS FOR TRANSMISSION MAINS REPLACEMENT PROGRAM
NEW	9/27/19	3:00 PM	Sacramento	0	19-03389	EAST SACRAMENTO VEHICLE FLEET REPAIR SERVICES - SMALL BUSINESS
	* 9/30/19	10:00 AM	Sacramento County	2	19-03114	STATE PARK SECURITY UPGRADE
	* 9/30/19	1:00 PM	Sacramento	2	19-03251	STATE PARK SECURITY FENCING
NEW	9/30/19	10:00 AM	Sacramento	1	19-03388	STATE PARK SECURITY UPGRADE PROJECT 3
NEW	10/1/19	2:00 PM	Sacramento	0	19-03378	METRO YARD AND LIGHT RAIL VEHICLE PEST CONTROL SERVICES
NEW	10/2/19	2:00 PM	Folsom	0	19-03377	SUTTER MIDDLE SCHOOL PHASE 3 MODERNIZATION & SITE IMPROVEMENTS
NEW	10/2/19	3:00 PM	Sacramento	0	19-03411	SCHEDULED PREVENTATIVE MAINTENANCE, TECHNICAL SUPPORT SERVICES, AND NONSCHEDULED SERVICES FOR THE SECURITY AND ACCESS CONTROL SYSTEM AT DMV HEADQUARTERS
	* 10/3/19	2:00 PM	Sacramento	1	19-03129	JESSE M. UNRUH-CONDENSATE REPLACEMENT
	10/3/19	2:00 PM	Elk Grove	0	19-03305	RIO COSUMNES CORRECTIONAL CENTER FIRE ALARM SYSTEM UPGRADE PHASE 2
	10/3/19	2:00 PM	Sacramento	1	19-03318	THOMAS EDISON ELEMENTARY SAFE ROUTES TO SCHOOL
	10/3/19	2:00 PM	Citrus Heights	0	19-03350	POOL HEATER REPLACEMENT PROJECT AT RUSCH PARK POOL
	10/3/19	3:00 PM	Antelope	0	19-03351	AQUATIC SLIDE RESURFACING AT ANTELOPE AQUATIC COMPLEX
NEW	10/3/19	2:00 PM	Sacramento	0	19-03398	SAFCA JOC 001 AND SAFCA JOC 002
	10/4/19	11:00 AM	Sacramento	0	19-03290	2516 H STREET RE-ROOF
	10/4/19	4:00 PM	Sacramento	0	19-03349	SACRAMENTO TRANSPORTATION MASTER PLAN
	10/7/19	2:00 PM	Sacramento	0	19-03245	PRE BLOCK 24
	10/7/19	2:00 PM	Sacramento	1	19-03306	CITY SPORTS CLUB - LANDPARK (SUB BIDS ONLY)
NEW	10/9/19	2:00 PM	Sacramento	0	19-03364	MEADOW PARK PHASE 1
	10/10/19	2:00 PM	Elk Grove	0	19-03332	PAVEMENT RESTORATION PROJECT
	* 10/11/19	4:00 PM	Sacramento	1	19-03347	PREQUALIFICATION PARKING STRUCTURE IV
NEW	10/14/19	1:00 PM	Elk Grove	0	19-03386	RFP BICYCLE, PEDESTRIAN, AND TRAILS MASTER PLAN UPDATE
NEW	10/17/19	2:00 PM	Sacramento	0	19-03391	PHASE 2A - ARDEN SERVICE AREA PIPE AND METER INSTALLATION PROJECT
	12/31/19	2:00 PM	Orangevale	0	19-00071	CUPCCA FOR ORANGEVALE RECREATION & PARK DISTRICT
Shasta County						
	9/17/19	3:00 PM	Redding	0	19-03185	TREE PRUNING AND REMOVAL SERVICES

	Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
	* 9/18/19	4:00 PM	Anderson	2	19-02920	RFP ACCESS ROAD DEVELOPMENT & CONSTRUCTION - CASTLE CRAGS STATE PARK
	9/18/19	2:00 PM	Redding	1	19-03237	(RFQ) VALVES FOR WATER WAREHOUSE INVENTORY - CITY OF REDDING
	* 9/19/19	3:00 PM	Redding	3	19-03084	ELECTRIC LINE CLEARANCE SERVICES
	9/19/19	3:00 PM	Redding	0	19-03280	BLOWER PURGE COMPRESSED AIR DRYER - CITY OF REDDING
	9/23/19	2:00 PM	Shasta County	0	19-03343	ERFO ROAD 37N02 SUMMIT LAKE
	9/26/19	2:00 PM	Redding	0	19-03161	PARKING LOT SEAL AND STRIPE SERVICES AT THE REDDING REGIONAL OFFICE - DMV
NEW	10/1/19	1:00 PM	Palo Cedro	0	19-03404	FOOTHILL HIGH SCHOOL AGRICULTURE BUILDING AND SITE IMPROVEMENTS (REBID)
	10/4/19	4:00 PM	Redding	0	19-03359	OFFICE CONVERSION PROJECT
	10/11/19	3:00 PM	Redding	0	19-03344	(RFP) CMI DOWNTOWN STREETS CIRCULATION PROJECT - CITY OF REDDING
NEW	10/31/19	4:00 PM	Shasta Lake	0	19-03412	WATER STORAGE TANK SERVICES CONTRACT
	12/31/19	2:00 PM	Redding	0	18-03939	CITY OF REDDING INFORMAL BIDDING CONTRACT VENDOR REGISTRATION
	* 12/31/19	2:00 PM	Redding	2	18-04116	CUPCCAA FOR SHASTA-TEHAMA-TRINITY JOINT COMMUNITY COLLEGE DISTRICT
	12/31/19	2:00 PM	Redding	0	19-01150	SHASTA-TEHAMA-TRINITY JOINT COMMUNITY COLLEGE DISTRICT MEASURE H BOND PROJECTS 2019 PRE-QUALIFICATION APPLICATION
	12/31/19	2:00 PM	Montgomery Creek	0	19-01823	CUPCCA FOR MOUNTAIN UNION ELEMENTARY SCHOOL DISTRICT
Shasta,Trinity County						
NEW	10/16/19	2:00 PM	Shasta and Trinity Counties	0	19-00343	CDOT 02-4G6104 HMA, LIGHTING AND BRIDGE RAIL REPLACEMENT
Sierra County						
	12/31/19	12:00 PM	Downieville	0	18-02297	MAIN STREET BOARDWALK RECONSTRUCTION (PORTION)
	12/31/19	2:00 PM	Loyalton	0	19-02574	LOYALTON TRANSFER STATION FENCE INSTALLATION
Siskiyou County						
	9/16/19	2:00 PM	Weed	0	19-03246	PARKS CREEK FISH PASSAGE PROJECT
	* 9/17/19	2:00 PM	Mount Shasta	5	19-02844	STATE-MANDATED WASTEWATER TREATMENT AND DISPOSAL IMPROVEMENT PROJECT
	9/19/19	2:15 PM	Siskiyou County	0	19-03219	CONSTRUCT FUEL STATION IN SISKIYOU COUNTY AT THE SEIAD MAINTENANCE STATION
	9/19/19	2:00 PM	Dorris	2	19-03249	DORRIS INSPECTION STATION - ROOF REPLACEMENT
	10/1/19	5:00 PM	Yreka	0	19-03362	KARUK TRIBE RFP NOTICE - LANDSCAPING
	10/5/19	5:00 PM	Siskiyou County	0	19-02696	2019 WOODSTOVE INSPECTION AND CLEANING
	10/9/19	10:00 AM	Yreka	0	19-03285	(RFP) BRIDGE PREVENTITIVE MAINTENANCE PROGRAM
Solano County						
	9/16/19	3:00 PM	Fairfield	1	19-03277	TRAVIS AFB FALL PROTECTION SYSTEM
	* 9/17/19	2:00 PM	Fairfield	2	19-02842	EAST-WEST 36" WATER TRANSMISSION PIPELINE SEGMENT 6A - NORTH & CEMENT HILL RESERVOIR BYPASS & SEGMENT 4-36 INCH
	9/17/19	2:00 PM	Vacaville	2	19-03067	SEWER LINE STORM DRAIN CLEANING SERVICES
	9/17/19	10:00 AM	Fairfield	2	19-03275	CORDELIA WAREHOUSE ROOF RECOATING PROJECT
	* 9/18/19	2:00 PM	Benicia	1	19-02916	BAYSHORE ROAD / EAST J AND K STREETS SEWER IMPROVEMENT PROJECT
	* 9/18/19	1:00 PM	Dixon	1	19-03222	J--HEATING, VENTILATION, & AIR CONDITIONING (HVAC) MAINTENANCE SERVICES SACRAMENTO NATIONAL CEMETERY
	9/19/19	10:00 AM	Fairfield	1	19-03167	REPAIR 400 AIRCRAFT PARKING RAMP PH-2 & REPAIR TAXIWAY NOVEMBER ADJACENT 400 RAMP
	9/19/19	2:00 PM	Suisun City	1	19-03308	FIRE ALARM PANEL REPLACEMENT PROJECT CANCELLED

	Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
	9/20/19	2:00 PM	Vacaville	1	19-03336	VACAVILLE CENTER ANNEX BUILDING CORBELS REMOVAL PROJECT
NEW	* 9/23/19	10:00 AM	Fairfield	1	19-03368	TRAVIS USD CHILLER AND BOILER SYSTEM COIL INSPECTION AND REPAIR
NEW	9/23/19	10:00 AM	Fairfield	0	19-03410	SHUBIN ROOM REFINISH
	9/24/19	2:00 PM	Fairfield	1	19-03236	MAIN JAIL SECURITY IMPROVEMENTS
	9/25/19	9:00 AM	Fairfield	0	19-03263	LIBRARY/LEARNING RESOURCES CENTER PROJECT (BLDG 100 REPLACEMENT)
	9/26/19	2:00 PM	Vallejo	1	19-03355	GATEWAY PLAZA CITY SPORTS SHELL STRUCTURE (SUB BIDS ONLY)
NEW	10/1/19	2:00 PM	Vacaville	0	19-03363	FIRE STATION 73 REMODEL
	10/3/19	3:00 PM	Suisun City	0	19-03309	REQUEST FOR PROPOSAL - PARKS, FACILITIES, & RECREATION MASTER PLAN
	* 10/4/19	2:00 PM	Vallejo	6	19-01708	PROVIDE PERMANENT STATION FACILITIES
	10/8/19	2:00 PM	Fairfield	0	19-03296	LEE BELL NEIGHBORHOOD LIGHTING IMPROVEMENTS
	10/10/19	2:00 PM	Fairfield	2	19-03315	GOLDEN HILLS EDUCATION CENTER INTERIOR MODERNIZATION
	10/15/19	2:00 PM	Fairfield	0	19-03206	RFQ CORPORATION YARD IMPROVEMENTS FOR TRANSIT ELECTRIFICATION PROJECT
	12/4/19	3:00 PM	Fairfield	0	19-03174	FAIRFIELD AND SUISUN TRANSIT - TRANSIT OPERATIONS SERVICES
	12/31/19	2:00 PM	Vacaville	0	19-00499	CUPCCA FOR VACAVILLE USD
Sonoma County						
	9/15/19	12:00 PM	Santa Rosa	0	19-03223	WOLKEN RESIDENCE
	9/17/19	1:00 PM	Santa Rosa	1	19-03100	PEDRONCELLI POLICE BUILDING ROOFING PROJECT
	9/17/19	2:00 PM	Sonoma County	1	19-03140	AIRPORT-LARKFIELD-WIKIUP SANITATION ZONE LARKFIELD ESTATES COLLECTION SYSTEM
	9/17/19	2:00 PM	Sonoma County	2	19-03143	JOB ORDER CONTRACTS
	9/17/19	2:00 PM	Petaluma	2	19-03281	EXTERIOR PAINTING AND REPAIRS AT PETALUMA HIGH SCHOOL BUILDINGS A, B & C
	9/18/19	2:00 PM	Sonoma County	1	19-03053	RFP LANDFILL COVER MAINTENANCE
	* 9/20/19	2:00 PM	Rohnert Park	2	19-03187	GOLD RIDGE MULTI USE BUILDING ROOF REPAIR
NEW	9/20/19	3:00 PM	Santa Rosa	0	19-03367	THE LODGE AT PINER ROAD (SUB BIDS ONLY)
	9/23/19	2:00 PM	Santa Rosa	0	19-03156	LOUNIBOS MECHANICAL IMPROVEMENTS
	9/24/19	3:00 PM	Healdsburg	0	19-03083	SEWER SYSTEM MASTER PLAN (SSMP) RFP
	9/24/19	1:00 PM	Forestville	0	19-03189	SHONE FARM ROOFING PROJECT
	9/24/19	2:00 PM	Rohnert Park	0	19-03307	SOUTHEAST AREA WATER MAIN IMPROVEMENTS
	9/24/19	2:00 PM	Bodega Bay	1	19-03354	BODEGA BAY MARINE LAB SOIL REMOVAL AND REMEDIATION
NEW	9/25/19	5:00 PM	Cotati	0	19-03409	RFQ TO PROVIDE AS NEEDED ENGINEERING PROFESSIONAL SERVICES
	* 9/26/19	2:30 PM	Santa Rosa	2	19-02955	ONE-TIME CLEANUP AND NON-CHEMICAL LANDSCAPE MAINTENANCE SERVICES AT THE SANTA ROSA DMV FIELD OFFICE
	9/26/19	2:00 PM	Sonoma County	0	19-00321	CDOT 04-1G8404 MODIFY ELECTRICAL SYSTEM, RECONSTRUCT CURB RAMPS AND SIDEWALKS
	9/27/19	2:00 PM	Santa Rosa	0	19-02967	HANGAR ELECTRICAL SYSTEM MAINTENANCE AND REPAIR
	10/1/19	2:00 PM	Santa Rosa	0	19-03294	LAGUNA TREATMENT PLANT CHILLERS AND CLIMATE CONTROL UPGRADES AT ADMINISTRATION AND ANNEX BUILDING
	10/1/19	2:00 PM	Sonoma	1	19-03327	SONOMA VALLEY COUNTY SANITATION DISTRICT TREATMENT PLANT ELECTRICAL RESILIENCY
NEW	10/1/19	2:00 PM	Rohnert Park	0	19-03403	CALLINAN SPORTS AND FITNESS CENTER FIRE SPRINKLER REPLACEMENT PROJECT
	* 10/2/19	2:00 PM	Sonoma County	2	19-03216	HVAC EQUIPMENT MAINTENANCE
NEW	10/2/19	2:00 PM	Guerneville	2	19-03273	LEASE LEASEBACK CONSTRUCTION SERVICES FOR GUERNEVILLE SCHOOL MODERNIZATION PHASE 3

	Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
NEW	10/10/19	10:00 AM	Rohnert Park	0	19-03319	TUSCANY VILLAGE ASPHALT REPAIR
	10/16/19	12:00 PM	Glen Ellen	0	19-03384	ABRAHAM'S FARM LLC (SUB BIDS ONLY)
	12/31/19	2:00 PM	Santa Rosa	0	19-00641	CUPCCA FOR ROSELAND SCHOOL DISTRICT
	6/30/20	2:00 PM	Petaluma	0	19-01088	CUPCCA FOR SONOMA-MARIN AREA RAIL TRANSIT DISTRICT
Sutter County						
*	9/18/19	10:00 AM	Sutter County	6	19-02904	PL 84-99 FEATHER RIVER SITE 0521-41 LEVEE REPAIRS
	9/18/19	10:00 AM	Yuba City	3	19-03247	YUBA CITY FIRE STATION NO. 2 RENOVATION PROJECT
	9/19/19	2:00 PM	Yuba City	2	19-03171	FORTNA ROAD BRIDGE REPLACEMENT
	9/24/19	2:30 PM	Yuba City	0	19-03357	PARKING LOT SWEEPING AND STEAM CLEANING AT BOTH YUBA CITY DMV FIELD OFFICE LOCATIONS
*	10/2/19	10:00 AM	Yuba City	2	19-03175	ROOFING REPLACEMENT & INSTALLATION OF COMMUNICATION CABLE AT KINGWOOD COMMONS APARTMENTS BUILDING A
	12/31/19	2:00 PM	Yuba City	0	19-00784	CUPCCA FOR FRANKLIN ELEMENTARY SCHOOL DISTRICT
Tehama County						
	9/18/19	2:00 PM	Gerber	2	19-03259	TEHAMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT DEFERRED MAINTENANCE PROJECT
	10/11/19	2:00 PM	Red Bluff	0	19-03352	ANTELOPE CREEK FISH PASSAGE IMPROVEMENT PROJECT
	12/31/19	2:00 PM	Corning	1	18-03672	CUPCCAA FOR CORNING UNION HIGH SCHOOL DISTRICT
	12/31/19	2:00 PM	Corning	0	18-04035	CUPCCAA FOR CORNING UNION ELEMENTARY SCHOOL DISTRICT
Trinity County						
	9/20/19	5:00 PM	Weaverville	0	19-03205	RE-ROOF TRINITY COUNTY WEAVERVILLE LIBRARY
*	9/26/19	4:00 PM	Weaverville	1	19-03292	HSIP SIGN PROJECT 3
	12/31/19	2:00 PM	Hayfork	0	19-02342	CUPCCAA FOR MOUNTAIN VALLEY UNIFIED SCHOOL DISTRICT
Unknown County						
	9/25/19	2:00 PM	Susanville	0	19-03283	SUSANVILLE UPPER RANCHERIA SEWER LATERAL PH 2: SEWER SERVICE LINE REPLACEMENT
Various County						
NEW	9/23/19	3:00 PM	Various Locations	1	19-00031	ON-SITE AND OFF-SITE REPAIR AND REFURBISHMENT SERVICES OF HYDROELECTRIC VALVE COMPONENTS AND EQUIPMENT
	10/23/19	3:00 PM	Various Locations	0	19-00030	UPGRADE THE EXISTING HVAC CONTROL SYSTEMS AT THE MERCED, OAKLAND COLISEUM, CORTE MADERA AND SACRAMENTO DMV OFFICE BUILDINGS
Yolo County						
	9/16/19	2:00 PM	West Sacramento	0	19-03235	ON-CALL SERVICES FOR INDUSTRIAL PUMP REPAIR
	9/17/19	2:00 PM	Davis	5	19-03136	UC DAVIS HEALTH NEW DAVIS CLINIC
	9/19/19	2:00 PM	Davis	3	19-03192	CHEMISTRY SEISMIC AND LIFE SAFETY CORRECTIONS CHEMISTRY BUILDING - SEISMIC CORRECTIONS
	9/19/19	2:00 PM	Yolo County	0	19-00323	CDOT 03-3H4604 INSTALL CABLE NET DRAPERY SYSTEM
*	9/24/19	11:00 AM	Woodland	3	19-03115	CONSTRUCTION OF METERING PEDESTAL #3
*	9/25/19	2:30 PM	Davis	1	19-02807	RE-BID INTERIOR/EXTERIOR HIGH WINDOW WASHING AND INTERIOR HIGH DUSTING CLEANING SERVICES AT THE DAVIS DMV FIELD OFFICE
	9/25/19	2:00 PM	Woodland	6	19-03160	IN-VESSEL DIGESTER LIQUID & FOOD PROCESSING AREA & EQUALIZATION TANK SYSTEM
	9/25/19	3:00 PM	Davis	0	19-03252	LANDSCAPING SERVICES AT THE DAVIS DMV FIELD OFFICE
*	9/26/19	2:00 PM	Davis	6	19-02734	BRIGGS 1ST FLOOR NW LAB RENOVATION
NEW	9/27/19	3:00 PM	West Sacramento	0	19-03390	WEST SACRAMENTO AREA VEHICLE FLEET REPAIRS - SMALL BUSINESS OPTION
	10/9/19	4:00 PM	Davis	0	19-03182	ON-CALL TRANSPORTATION PLANNING AND ENGINEERING SERVICES

Bid Date	Bid Time	Location	# of Addenda	Plan #	Project Name
12/31/19	2:00 PM	Esparto	0	19-01369	CUPCCA FOR ESPARTO UNIFIED SCHOOL DISTRICT
Yuba County					
9/16/19	4:00 PM	Marysville	3	19-03108	DA & PROBATION REMODEL – PROFESSIONAL ASBESTOS ENCAPSULATION SERVICES
9/16/19	4:00 PM	Marysville	2	19-03110	DISTRICT ATTORNEY & PROBATION REMODEL PROJECT - CARPET INSTALLATION SERVICES
9/16/19	4:00 PM	Marysville	3	19-03111	DISTRICT ATTORNEY & PROBATION REMODEL PROJECT - PROFESSIONAL PAINTING SERVICES
9/16/19	4:00 PM	Marysville	2	19-03113	DISTRICT ATTORNEY & PROBATION REMODEL PROJECT - FURNITURE MOVING & STORAGE SERVICES
9/17/19	10:00 AM	Marysville	3	19-03095	MARYSVILLE RING LEVEE REPAIR PHASE 2C
9/18/19	4:00 PM	Marysville	4	19-02691	SUPPLY & FURNISH YUBA COUNTY DISTRICT ATTORNEY'S OFFICE
* 9/25/19	2:00 PM	Yuba County	4	19-00264	CDOT 03-3F5104 CONSTRUCT BRIDGE, REALIGN CURVE & WIDEN SHOULDERS
12/31/19	2:00 PM	Marysville	0	19-00805	PREQUALIFICATION PACKAGE FOR CONTRACTORS AND SUBCONTRACTORS
12/31/19	2:00 PM	Wheatland	0	19-02781	CUPPCA-WHEATLAND UNION HIGH SCHOOL DISTRICT

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Bid Results

9/13/2019

Nitrate Area 3N Phase 5, Unit 3 Northwood Woodcrest (Rebid)

Visinoni Bros. Construction	Chico	Bid Date:	9/3/19
Jason Abel Construction, Inc.	Paradise		\$1,916,135.00
Santos Excavating, Inc.	Corning		\$1,963,251.40
R & R Horn, Inc	Chico		\$2,159,831.00
			\$3,063,055.10

Broadway and Vigo Signalization

G R Sundberg, Inc	Eureka	Bid Date:	9/3/19
Spencer Electric	Arcata		349,854.00
Mike Brown Electric	Cutten		366,185.40
	Cotati		383,857.00

Willow Creek Estates Storm Drain Lining Project

Lamassu Utility Services	Folsom	Bid Date:	9/3/19
Michels Corp			\$705,564.00
			\$913,686.00

New Scoreboards @ Cosumnes Oaks High School

Recreation Science	Elk Grove	Bid Date:	9/4/19
Division 5-15, A California Corporation	Colfax		\$49,675.00
	Gold River		\$69,151.00

2019 Shade Structures @ Various Sites, Phase 2

A. M. Stephens Construction Company Inc.	Elk Grove	Bid Date:	9/5/19
	Lodi		\$1,146,501

ARC Wellness Center Relocation Project

REM Construction, Inc.	Sacramento	Bid Date:	9/5/19
Kaler/Dobler Construction, Inc.	Chico		\$491,883.00
JPB Designs, Inc.	Rancho Cordova		\$523,000.00
RBH Construction Inc.	Sacramento		\$527,000.00
American River Construction, Inc.			\$559,802.00
Stratus Construction	Placerville		\$580,000.00
	Stockton		\$732,882.00

Iron Court Sewer Replacement

Jefferson State Highways, Inc.	Shasta Lake	Bid Date:	9/5/19
SnL Group Inc.			\$35,000.00
Randy Strieff, DBA Foothill Eng	Redding		\$44,410.00
Sunrise Excavating	Redding		\$60,638.20
			\$64,650.00

Pressure Reductions Stations (PRS) Upgrade Project (Green Valley PRS #2, Lakeview PRS #1, and Francisco PRS #1)

Preston Pipelines, Inc.	Placerville	Bid Date:	9/10/19
TnT Industrial	West Sacramento		\$450,858.00
	Sacramento		\$573,772.00

Jellys Ferry Road Bridge Replacement Project - (Rebid)

MCM Construction Inc	Red Bluff	Bid Date:	9/10/19
Flatiron West, Inc	North Highlands		\$35,181,805.65
Myers and Sons Construction	Benicia		\$35,643,762.00
	Sacramento		\$36,821,851.90

Woodland Regional Park Nature Trail

F. Loduca Company	Woodland	Bid Date:	9/10/19
McCuen Construction, Inc	Stockton		\$381,203.40
ABS Builders, Inc.	Loomis		\$455,050.00
Vanguard Construction Inc.	Maxwell		\$505,524.13
B & M Builders, Inc.	Livermore		\$593,286.00
	Rancho Cordova		\$894,447.00

2020 Pavement Slurry Seal and Resurfacing Project Phase 1

Central Valley Engineering and Asphalt, Inc.	Elk Grove	Bid Date:	9/10/19
Martin Brothers Const	Roseville		\$736,500
B & M Builders, Inc.	Sacramento		\$793,850
	Rancho Cordova		\$984,000

PFE - Walerga Substation Civil Construction

TSI Engineering, Inc.	Roseville	Bid Date:	9/10/19
	North Highlands		\$1,262,677

PBM Construction Inc.	Rocklin	\$1,263,351
Clark Bros., Inc.	Dos Palos	\$1,592,380
Sierra National Construction		\$1,669,124
Arrow Construction		\$1,874,855

Alley Closure & Gate Installation On-Call Services

Pisor Fence	Sacramento	Bid Date: 9/11/19	\$474,000
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CV Starr LED Lighting Project

Natare Corporation	Fort Bragg	Bid Date: 9/11/19	
Adams Pools	Indianapolis		225,866.00
Condor Inc	Pleasanton,		237,500.00
Burkett's Pool Plastering, Inc.	Ripon		373,000.00
			433,454.00

Sacramento International Airport General Aviation Terminal Ramp Project

North Star Construction & Engineering, Inc.	Sacramento	Bid Date: 9/12/19	
Martin Brothers Construction	Yuba City		\$574,028.00
Pro Builders (Swierstok Enterprise, Inc. dba...)	Sacramento		\$584,656.00
DeSilva Gates Construction	Orangevale		\$668,000.00
	Dublin		\$696,700.00

2019 Neighborhood Traffic Management Projects

Western Engineering Contractors	Sacramento	Bid Date: 9/12/19	
B & M Builders, Inc.	Loomis		\$ 388,915.00
Martin Brothers Const	Rancho Cordova		\$ 456,092.00
North Star Construction	Sacramento		\$ 468,850.00
Newland Entities, Inc.			\$ 494,450.00
Pro Builders (Swierstok Enterprise, Inc. dba...)	Yuba City		\$ 509,194.00
	Orangevale		\$ 580,000.00

Slurry Seal of Local Streets

Pavement Coatings	Ukiah	Bid Date: 9/12/19	
VSS International	Sacramento		304,315.45
American Pavement Systems	West Sacramento		307,000.00
American Asphalt Repair	Modesto		315,617.66
Intermountain Slurry Seal Inc.	Hayward		335,209.11
Sierra Nevada Construction	Elk Grove		378,377.20
	Sparks		407,007.00

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CONSTRUCTION BARRICADES AND WARNING DEVICES

INTRODUCTION

There are times when modifying the existing traffic patterns and more importantly, the existing driving habits of the public must be done. The use of barricades and other warning devices are used in such situations. The first step in construction is the planning of traffic flow through or around the work area. Many sources of injuries involving the public and the workers during highway construction are:

- Collision with construction equipment.
- Pedestrians falling into open excavation work.
- Driving into open excavation work.
- Driving into work areas.
- Entering danger zones such as the swing area of a crane or track hoe.

GENERAL RULES

- Give the public plenty of warning by use of signs.
- Make sure warning devices can be seen and are effective.
- Use flagmen on narrow passages or when construction vehicles will be interacting with the public traffic flow.
- Maintain all barricades and signs.
- Give the site a buffer area.
- Clearly mark the beginning and end of the construction area.
- Illuminate all barricades and obstructions from sunset to sunrise.

WARNING DEVICES SHALL BE USED AS FOLLOWS:

- **Caution** (Yellow Tape) "Use Caution When Crossing". Used for open manholes, trenches, excavations (less than 6' deep), etc.
- **Danger** (Red Tape) "Do Not Cross" unless authorized to do so by the person(s) who erected it. Used for open wiring, open energized buckets, LOTO, switch gear, etc.
- Yellow and Magenta (Purple) Ropes and Signs - "Do Not Cross". Used for radiation hazard, x-ray, etc.
- The Contractor erecting barricades and tape shall hang a tag on the device indicating:
 - o The hazard;
 - o Name of contractor;
 - o Name of person erecting the tape.

Note: Without a tag the barricade/tape is not valid!

CONSTRUCTION BARRICADES AND WARNING DEVICES (PAGE 2)

TYPES OF WARNING DEVICES:

Barricades should be properly striped for visibility. It is recommended that stripes be six (6) inches wide and inclined at an angle of 45 degrees from the horizontal. Barricades should be equipped with lights for night visibility. Warning devices may include:



Signs



Cones



Drums



Flashing Lights



Channeling Devices



Barricades

FLAG PERSON

Flag persons are important in controlling the safe flow of traffic.

Flag persons:

- Place themselves where they will be visible to oncoming traffic for at least 500 feet.
- They must be visible to traffic at all times.
- Wear high visibility vest and stand on the shoulder opposite the roadblock or in the blocked lane.
- Stand in the traffic lane.
- Face traffic at all times.



CONCLUSION

Barricades, signs and lights are important to the safety of the traveling public. Never move a barricade, sign, cone, drum, etc. unless necessary and remember to replace it when finished with your work. If you see a broken or misplaced barricade, light or sign, fix it or report it to your supervisor.



2019 California Energy Standards Overview

Christopher Olvera
California Energy Commission
Outreach and Education Unit

*Nevada County Contractors' Association
Grass Valley, CA
September 11, 2019*



Goals for this Training

- Identify and clarify the major changes (many, but not all) in the 2019 Energy Standards for:
 - Low-rise residential buildings (including multifamily)
 - Nonresidential buildings (including high-rise res multifamily and hotels/motels)
 - Newly constructed buildings, additions, and alterations



A Little CEC History

- Section 25402 of the Public Resources Code (known as the **Warren Alquist Act**)
- The act created the Energy Commission in 1974 and gave it authority to develop and maintain Building Energy Efficiency Standards
- Requires the Standards and new requirements to be cost effective over the economic life of the structure
- Requires the Energy Commission to update the Standards periodically (about every 3 years)



Let's discuss the 2019 Building Energy Efficiency Standards



2019 Building Energy Efficiency Standards

- **Effective on Jan. 1, 2020**
 - Building permit applications submitted on or after this date
- **Master plans for tract homes affected:**
 - Need to resubmit if permits pulled on/after effective date





2019 Documents

- Building Energy Efficiency Standards
- Reference Appendices
- Res and Nonres Compliance Manual
- All docs. available online

2019 Building Energy Efficiency Standards

The 2019 Building Energy Efficiency Standards improve upon the 2016 Energy Standards for new construction of, and additions and alterations to, residential and nonresidential buildings. Buildings permitted on or after January 1, 2020, must comply with the 2019 Standards. The California Energy Commission updates the standards every three years.

Expand All

2019 Building Energy Efficiency Standards and Compliance Manuals	+
2019 Compliance Forms	+
2019 Compliance Software and Alternative Calculation Method (ACM) Manuals	+
2019 Building Energy Efficiency Standards Rulemaking Documents	+
Fact Sheet	+
Frequently Asked Questions	+

BUILDING ENERGY EFFICIENCY STANDARDS - TITLE 24

2022 Building Energy Efficiency Standards

2019 Building Energy Efficiency Standards

2016 Building Energy Efficiency Standards

Online Resource Center

Past Building Energy Efficiency Standards

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*Let's talk about the changes
for low-rise residential
buildings*



2019 Residential Energy Savings

- **Residential**

- 7% more efficient than 2016 Standards
- Energy consumption reduced by an average 53% with PV
- Reduce GHG emissions by 700,000 metric tons over 3 years
- Monthly life cycle cost of \$40 with savings of \$80 for “typical” home (statewide)





Summary of Residential Changes

- **Increased efficiency for envelope**
 - Wall and ceiling insulation
 - QII prescriptive
 - U-factor for doors
- **MERV 13 filtration**
- **IAQ updates**
 - ASHRAE 62.2-2016 applied w/ modifications
 - HERS verification for kitchen range hoods
- **Prescriptive options for heat pump water heaters**
- **PV required**
 - Prescriptive
 - Several exceptions to reduce size
- **Performance**
 - From TDV to EDR
 - PV part of the Standard Design



RESIDENTIAL DOMESTIC HOT WATER SYSTEMS

Mandatory Sections: 110.3, 150.0(j, n)

Prescriptive Sections: 150.1(c)8



DHW Mandatory Requirements

§150.0(j)2

- Overlapping hot water pipe insulation requirements **removed** from Energy Code
 - All **hot** water piping must be insulated as specified in 609.11 of CA Plumbing Code
 - Pipes with $< 2''$ diameter must have insulation with minimum wall thickness of at least the diameter of the pipe (e.g. 1" pipe diameter, 1" insulation wall thickness)
 - Pipes with $\geq 2''$ diameter, min 2" insulation
 - Exceptions for (1) piping penetrating framing members, (2) piping between fixture control valve or supply stop and fixture or appliance

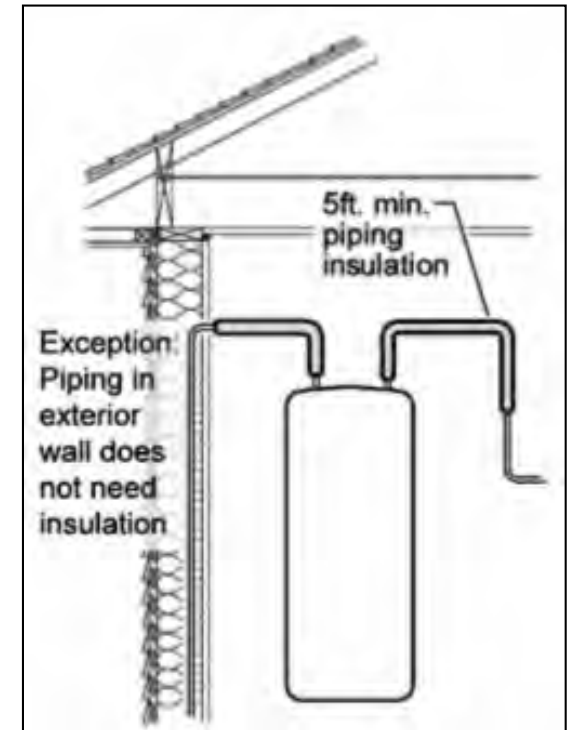




DHW Mandatory Requirements

§150.0(j)2

- One inch or R-7.7 pipe insulation is required for:
 - First 5 feet of cold pipes from the storage tank
 - All hot water piping with nominal diameter $\geq \frac{3}{4}$ in and < 1 in
 - Hot water piping with nominal diameter $< \frac{3}{4}$ in that is:
 - Associated with DHW recirculation system
 - From heating source to kitchen fixtures
 - From heating source to storage tanks or between storage tanks
 - Buried below grade





DHW Mandatory Requirements

§150.0(n)

- High efficiency water heater ready requirements updated. Dwellings with gas/propane water heaters must have:
 - Dedicated 125 volt, 20 amp receptacle connected to 3 conductor, 10 AWG copper branch circuit, within 3 feet of the water heater
 - Allows for easier and cost-effective installation of heat pump water heaters as a replacement





DHW Prescriptive Requirements

§150.1(c)8A

For systems serving individual dwelling units

- Gas or propane storage water heaters $\leq 75,000$ Btu/hr and volume ≤ 55 gallons:
 - Installed fenestration products must have **weighted average U-factor no greater than 0.24** and:
 - Field verified compact distribution system; or
 - **Field verified drain water heat recovery system**
- Gas or propane storage water heaters $\leq 75,000$ Btu/hr and volume > 55 gallons
 - ~~Field verified compact distribution system; or~~
 - ~~Field verified domestic hot water pipe insulation~~



Parallel Prescriptive Paths

There will be two parallel prescriptive paths for compliance:

- Mixed fuel homes (gas water heater and gas furnace), and
- All-electric homes
 - Heat pump space conditioners meet prescriptive compliance requirements in 2016, and continue to in 2019
 - NEEA Tier 3 heat pump water heater models can easily meet or exceed water heater baseline efficiencies





DHW Prescriptive Requirements

§150.1(c)8A

- For systems serving individual dwelling units, **heat pump water heaters added as prescriptive compliance option**
 - Must be located in garage or conditioned space, **and**
 - Must comply with **one** of the following options:
 1. NEEA Advanced Water Heater Specification Tier 3 or higher
 - In (cold) climate zones 1, 16 PV system 0.3 kWdc larger than required in 150.1(c)14, or compact distribution
 2. Compact hot water distribution and drain water heat recovery
 3. CZ 2-15 - PV system capacity 0.3 kWdc larger than required in 150.1(c)14
 4. CZ 1, 16 - PV system capacity 1.1 kWdc larger than required in 150.1(c)14



DHW Prescriptive Alteration Requirements (§150.2(b)1H)

- Heat pump can be installed in CZ 1-15. The storage tank cannot be located outdoors and:
 - Must be placed on incompressible, rigid insulated surface with minimum thermal resistance of R-10, and be equipped with demand response controls; or
 - NEEA Advanced Water Heater Specification Tier 3 or higher
- Electric water heater can be installed if natural gas is not connected to the existing water heater location



RESIDENTIAL LIGHTING REQUIREMENTS

Mandatory Sections: 110.9, 150.0(k)

Prescriptive Sections: N/A



Residential Lighting

§150.0(k)1

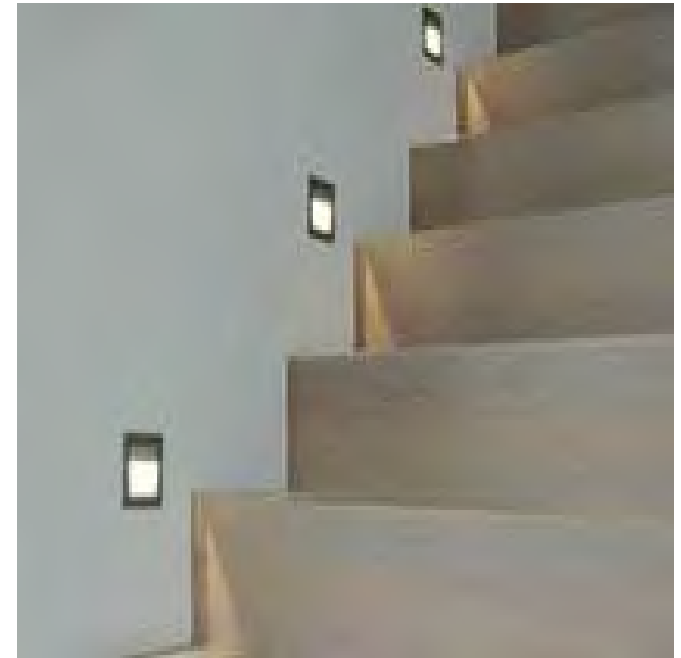
- JA8 high efficacy light sources
 - Manufacturer **test procedures updated**
 - Light sources must be **certified to JA8-2019** on or after January 1, 2020
 - Existing JA8-2016 light sources may still be installed for compliance under 2019 code. They do not need to be retested
 - JA8-2019 light sources can be installed for projects complying under 2016 code



Residential Lighting

§150.0(k)1E, I

- Night/Step/Path lights
 - Vacancy sensor required if:
 - Greater than 5 watts; or
 - Greater than 150 lumens
- Light sources internal to drawers, cabinets, or linen closets
 - Vacancy sensor required if:
 - Greater than 5 watts; or
 - Greater than 150 lumens; or
 - Not controlled to automatically turn lighting off when closed





Enclosed Luminaires

§150.0(k)1H

Specific to separable light sources

- Enclosed luminaires must contain light sources marked “JA8-2016-E” or “JA8-2019-E”
- Indoor and outdoor
- Defined as having ventilation openings $< 3 \text{ in}^2$ per lamp





Residential Lighting

§150.0(k)

- Bathrooms, garages, laundry rooms, utility rooms
 - At least one luminaire controlled by:
 - Vacancy sensor; or
 - **Occupancy sensor configured for manual-ON (now allow dipswitch)**
- All JA8 light sources must be controlled by:
 - Dimmer; or
 - Vacancy sensor; or
 - Occupancy sensor
 - Exception: closets less than 70 ft², luminaires in hallways



RESIDENTIAL SOLAR READY AND PHOTOVOLTAIC REQUIREMENTS

Mandatory Sections: 110.10, 150.0(j, n)

Prescriptive Sections: 150.1(c)8



Photovoltaic Requirements

§150.1(c)14

- PV systems now required on all newly constructed low-rise residential buildings
 - Requiring verification of number of panels, panel type, size, orientation/tilt, and shading
 - Remote monitoring capability required, including mobile app
- PV systems sized to displace the annual kWhs of a mixed-fuel home
- Exceptions apply





Photovoltaic Requirements

§150.1(c)14

- Average PV size is 2.8 kW
- Average PV installed in **existing** homes is 7.2kW!
- PV sizing varies with climate zone and house size

PV Sizes for Mixed Fuel Homes. 2700 SF Prototype			
CZ	Efficiency EDR without PV, based on 2019 Efficiency Measures	Total EDR with PV	kW PV Size for Displacing kWh Electric Only
1 - Humboldt	48.0	26.5	3.4
2 - Santa Rosa	41.2	18.0	2.9
3 - San Francisco	46.9	22.7	2.8
4 - San Jose	43.1	22	2.9
5 - Santa Maria	42.5	20.2	2.7
6 - Coastal LA	48.0	20.9	2.9
7 - San Diego	48.0	14.9	2.7
8 - Disneyland	43.0	14.6	2.9
9 - Burbank	46.2	23.3	3.1
10 - Riverside	45.2	23.5	3.3
11 - Redding	43.3	23.4	3.8
12 - Sacramento	43.1	24.5	3.1
13 - Fresno	44.8	22.1	4.0
14 - Palmdale	44.6	21.3	3.4
15 - Palm Springs	48.0	17.9	5.7
16 - Tahoe	46.3	27.5	3.0



Photovoltaic Requirements

§150.1(c)14

- There are several exceptions, including:
 - Shading due to external barriers
 - Building plans approved prior to January 1, 2020
 - Variances allowed for multistory buildings with limited roof space
 - PV size may be reduced 25 percent if battery storage system (at least 7.5 kWh) is utilized





RESIDENTIAL HVAC REQUIREMENTS

Mandatory Sections: 110.1, 110.2, 110.5, 150.0(h)-(j), 150.0(m), 150.0(o)

Prescriptive Sections: 150.1(c)6, 7, 9, 10, 12, 13

Performance Section: 150.1(b)



Mandatory HVAC Requirements (§110.1- §110.12)

- §110.2 – Space Conditioning Equipment
 - Updated efficiencies to align with ASHRAE 90.1-2016
- §110.5 – Pilot Lights Prohibited
 - Prohibits pilot lights for indoor and outdoor fireplaces
- §110.12 – Demand Manage Requirements updated
 - Thermostats must still meet JA5 requirements where applicable, if no EMCS is installed
 - Spelled out communication protocols
 - Must be certified as Open ADR 2.0a or b Virtual End Node (VEN), certified and listed at <https://products.openadr.org/>, or
 - Must be *capable of responding* to open ADR 2.0b VEN, certified to CEC and listed at www.energy.ca.gov/title24/equipment_cert/



Mandatory HVAC Duct Requirements (§150.0(m)1)

- CMC Compliance, Duct Insulation
 - Two exceptions are added to the minimum duct insulation requirements:
 - Ducts inside wall cavities are not required to be insulated if:
 - ✓ The cavity, duct or plenum is located entirely inside the thermal envelope, and
 - ✓ All transitions into unconditioned space is air-sealed and insulated to R-6
 - Ducts completely exposed and surrounded by directly conditioned space are not required to be insulated
 - Otherwise, mandatory R-6, or R-4.2 if inside thermal boundary (e.g. ducts in ceiling plenum)



Mandatory HVAC Filter Requirements (§150.0(m)12)

- Air Filtration
 - **MERV 13** filter efficiency now required
 - Applicable to **ducted heating/cooling** systems, **supply-only ventilation systems**, and on the supply side of **balanced mechanical ventilation systems** (e.g. HRV, ERV)
 - Not applicable to evaporative coolers
 - Space conditioning system air filters must be labeled with efficiency, and max pressure drop
 - **Simplest option: 2 inch filters, pressure drop determined by designer**
 - **1-inch (larger) filters allowed, but must meet extra requirements**



Mandatory HVAC Fan Requirements (§150.0(m)13)

- Space Conditioning System Airflow Rate and Fan Efficacy
 - All single and multi-zone systems:
 - Must demonstrate airflow at ≥ 350 CFM/ton (no change)
 - 0.45 W/CFM minimum fan efficacy for systems with gas furnaces
 - US DOE requires fans to provide minimum efficiency equivalent to constant torque brushless permanent magnet (BPM) type motors
 - Small duct high velocity system requirements added
 - Must demonstrate airflow at ≥ 250 CFM/ton
 - 0.62 W/CFM minimum fan efficacy
 - HERS verification required



Mandatory Ventilation Requirements (§150.0(o)1)

- Amendments to ASHRAE 62.2
 - Higher ventilation rates for single family and multifamily buildings to meet ASHRAE 62.2-2016

2016 equation: $Q_{\text{tot}} = \mathbf{0.01} \times A_{\text{floor}} + 7.5 \times (\text{Nbr} + 1)$

2019 equation: $Q_{\text{tot}} = \mathbf{0.03} \times A_{\text{floor}} + 7.5 \times (\text{Nbr} + 1)$

Q_{tot} = total required ventilation rate, cfm

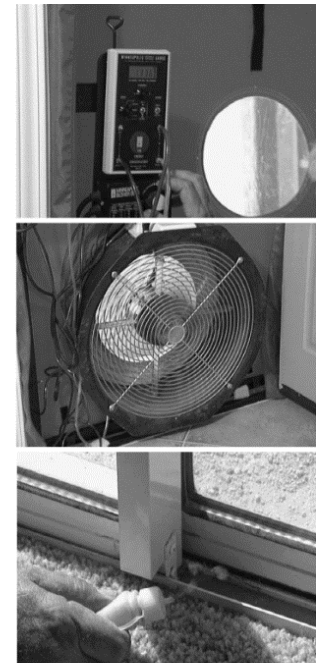
A_{floor} = dwelling-unit floor area, ft²

Nbr = number of bedrooms (not to be less than 1)



Multifamily Mandatory Ventilation Requirements (§150.0(o)1D)

- Multifamily dwelling units must have either:
 - A balanced ventilation system
 - Continuously operating supply or exhaust ventilation system
 - Continuous systems require HERS verification for envelope leakage via blower door test
 - ✓ Max leakage of 0.3 CFM @ 50Pa



Source: California Energy Commission



Mandatory Kitchen Ventilation Requirements (§150.0(o)2B)

- **If range hood is installed to meet ASHRAE 62.2:**
 - **HERS verification of range hood values with HVI**
 - Range hoods must have minimum airflow of 100 CFM
- **All other types of kitchen exhaust fans must have minimum airflow of 300 CFM**
- Kitchen exhaust fans must have maximum sone rating of 3.0
 - Fans over 400 CFM exempt from maximum sone requirement



Ventilation and Additions/ADUs

§150.2(a)1

- §150.2(a)1 - Prescriptive Approach
 - Mechanical ventilation for indoor air quality requirement added for new dwelling units
 - New dwelling units that are additions to an existing building shall have mechanical ventilation airflow provided in accordance with one of the following sections:
 - ✓ 150.0(o)1C for single family detached
 - ✓ 150.0(o)1E for multifamily with individual dwelling unit ventilation systems
 - ✓ 150.0(o)1F for multifamily buildings with central ventilation systems
- ❖ NOTE: This ventilation requirement is **mandatory**



RESIDENTIAL ENVELOPE REQUIREMENTS

Mandatory Sections: 110.6, 110.7, 110.8, 150.0(a)-(e), 150.0(g), 150.0(q)

Prescriptive Sections: 150.1(c)1-5, 11



Mandatory Requirements for Exterior Doors (§110.6)

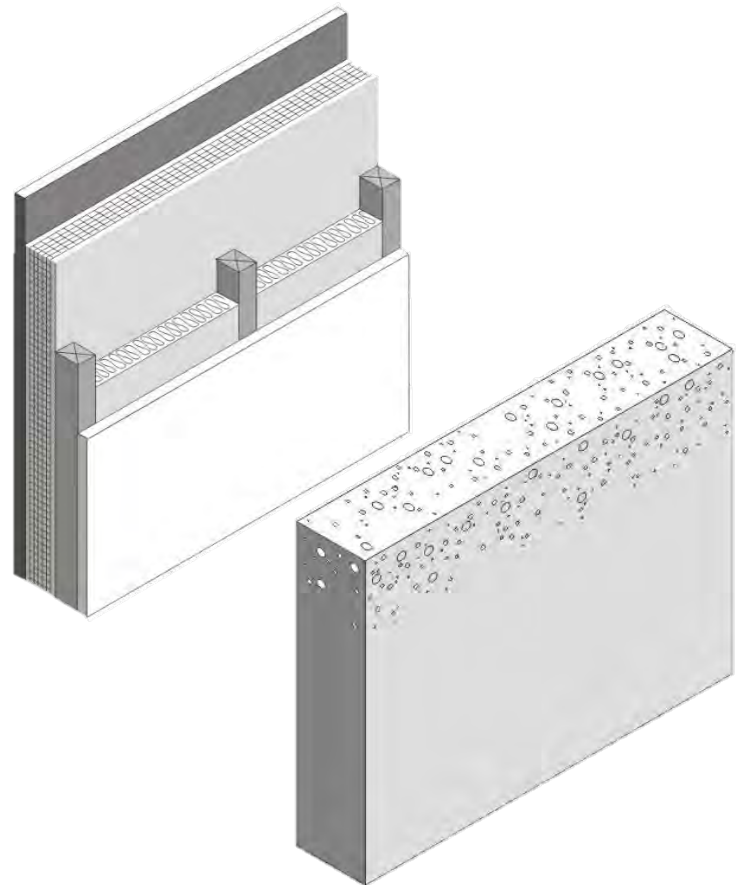
- Doors now must have U-Factor rating
 - Must be rated by NFRC, or
 - Must be rated according to default values in Reference JAs
 - These values are intentionally conservative
 - Will not meet prescriptive requirements with default values
- Must be labeled with either NFRC label, or temporary default label for ease of enforcement
 - Same labeling requirements as for fenestration

Note: Doors with $\geq 25\%$ glazing treated as fenestration



Mandatory Wall and Floor Insulation Requirements (§150.0(c), (d))

- Mandatory Insulation for 2x6 walls increased
 - U-factor of 0.71 (R-20 in wood framed)
- Masonry wall requirements defer to prescriptive requirements
 - CZ1-15
 - Interior insulation – R-13 rigid
 - Exterior insulation – R-8 rigid
 - CZ16
 - Interior insulation – R-17 rigid
 - Exterior insulation – R-13 rigid





Prescriptive Roof and Ceiling Insulation (§150.1(c)1A)

2016

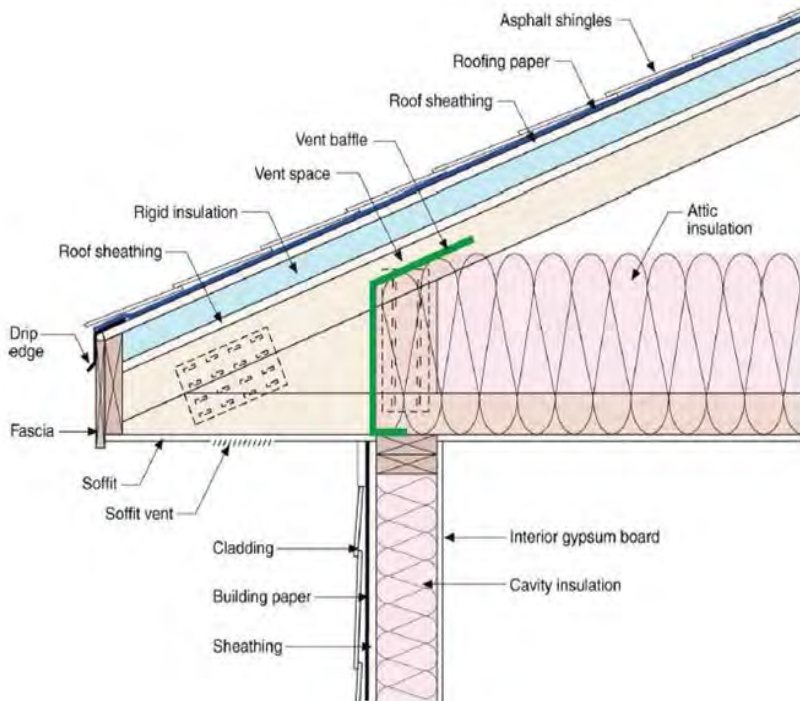
- Introduction of High Performance Attics (HPA) requirements
- Three options available
- Insulation required at ceiling and roof depending on option and climate zone
- Radiant barrier, duct location and insulation requirements depend on option and climate zone

2019

- HPA requirements updated
- Two options available
 - Insulation required at ceiling **and** below roof deck
 - Only ceiling insulation when ducts in conditioned space
- Radiant barrier and insulation requirements depend on option and climate zone



Prescriptive Roof and Ceiling Insulation (§150.1(c)1A)



Option A removed

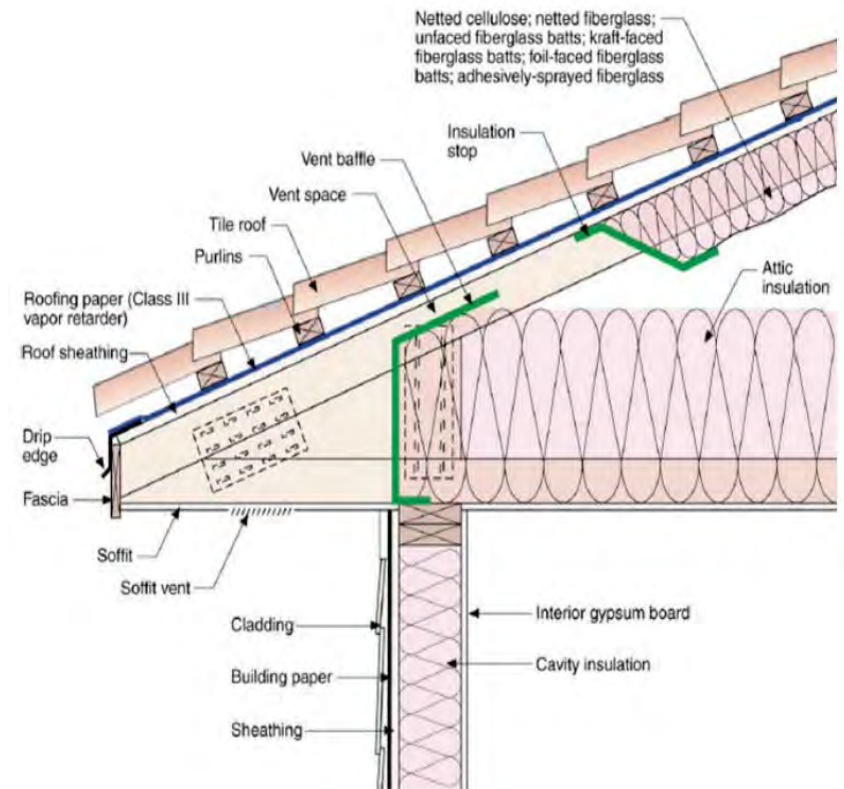
- No longer a prescriptive option
- Only with performance method
 - Continuous insulation above roof rafters
 - Ceiling insulation



Prescriptive Roof and Ceiling Insulation (§150.1(c)1A)

Option B - Tables 150.1-A, B

- Vented attic
- **Roof assembly air space required**
- Below roof deck insulation
 - **R-19** single family in climate zones 4, 8-16
 - **R-13** multi-family in climate zones 10, 16
- Ceiling insulation required
- Radiant barrier required in climate zones 2-3, 5-7
- Must meet §150.1(c)9A





Prescriptive Wall Insulation

(§150.1(c)1B)

2016

- High performance walls (HPW) requirements introduced
- Per Table 150.1-A:
 - Maximum U-Factor 0.051 (R-19 cavity)
 - Required value more stringent
 - Provides for greater design flexibility

2019

- HPW requirements updated
- Per Tables 150.1-A, B:
 - Framed U-factor 0.048 (R-21 cavity), multi family 0.051
 - Climate zone 6-7 framed U-factor 0.065
 - Mass walls above and below grade must be insulated
 - All other unframed walls meet framed U-factors



Prescriptive Quality Insulation Installation (§150.1(c)1E)

- QII now prescriptive requirement
 - Requires HERS verification of installed insulation and exterior air barrier
 - Not mandatory, but difficult to offset
 - Modeling without QII can be a negative 7-11% hit
 - Not required for multifamily in climate zone 7





Prescriptive Fenestration Requirements (§150.1(c)3)

2016

- Meet U-factor and SHGC
- Per Table 150.1-A:
 - Maximum U-factor of 0.32
 - Maximum SHGC of 0.25 in climate zones 2, 4, 6–16
 - Total fenestration area 20% maximum
 - West-facing fenestration area 5% maximum in climate zones 2, 4, 6–16

2019

- Definition of glazed doors
 - 25% or more glazed
- Per Tables 150.1-A, B:
 - Maximum U-factor of 0.30
 - Maximum SHGC of 0.23
 - No SHGC requirement in climate zones 1,3,5,16



Prescriptive Door Requirements Doors (§150.1(c)5)

New Requirements for Doors

- Doors separating conditioned from unconditioned space
 - Less than 25% glazed
 - Must be NFRC rated and labeled
 - Exception for fire protection doors between house and garage
- Per TABLE 150.1-A, B:
 - Maximum U-factor of 0.20





Prescriptive Envelope Requirements for Additions

(§150.1(c)5)

2016

- Meet mandatory ceiling insulation requirements when $\leq 700 \text{ ft}^2$
- Extension of wood frame walls allowed to be same dimensions
 - 2x4 R-15
 - 2x6 R-19

2019

- Additions $\leq 700 \text{ ft}^2$ ceiling insulation
 - R-38 in climate zones 1,11-16
 - R-30 in climate zones 2-10
 - R-22 allowed in rafter roofs
- R-21 in 2x6 wood frame wall extensions, no continuous
- QII in additions $> 700 \text{ ft}^2$



*Let's talk about the changes
for nonresidential buildings*



2019 Nonresidential Energy Savings

- **Nonresidential**
 - 30% more efficient than 2016 Standards
 - Savings due mainly to lighting upgrades
 - LED lighting first year savings of 480 GWh





Summary of Nonres Changes

- **Healthcare facilities included in scope**
 - Several exceptions
- **Lighting updates**
 - LPDs based on LEDs
 - New primary function areas added
 - Clarify and streamline controls requirements
 - New PAFs
 - Indoor lighting alterations simplified
- **HVAC updates**
 - MERV 13 filtration
 - ASHRAE 62.1-2016 applied
 - Including minimum exhaust rates
 - ASHRAE 62.2 applied to high-rise residential
 - Including verification for kitchen range hoods
- **Fan power and fume hood requirements for laboratories**



NONRESIDENTIAL ENVELOPE REQUIREMENTS

Mandatory Sections: 100.1, 110.6

Prescriptive Sections: 140.3(a)3, 6, 140.3(d)



Fenestration and Exterior Doors

§10-111, §100.1, §110.6

- Manufactured doors require NFRC rating and label
- Updated definitions
 - *Fenestration Product*
 - *Clerestory*
 - *Door*
 - *Glazed Door*
 - *Overhang Projection*
 - *Overhang Rise*
- Reduced NA6 to 200 ft²

PRODUCT LISTING

FOR CODE COMPLIANCE

LABEL CERTIFICATE ID: XYZ-001

Issuance Date: mm/dd/yyyy

NFRC CERTIFIED PRODUCT RATING INFORMATION:*

The NFRC Certified Product Rating Information listed here is to be used to verify that the ratings meet applicable energy code requirements.

PRODUCT LISTING:

CPD ID	Total Area ft ²	Name	Framing Ref	Glazing Ref	Spacer Ref	CERTIFIED Performance Rating at NFRC Model Size		
						U** Btu/ hr-ft ² -°F	SHGC**	VT**
P-PL-010	88.89	PL-2200 / PL-2210	FA-PL2210	GA-TT-001	SA-AM-001	0.53	0.58	0.66
P-PL-005	192.67	PL-3400 / PL-3401	FA-PL3401	GA-TT-001	SA-AM-002	0.56	0.57	0.65
P-PL-012	382.22	PL-5700 / PL-5720	FA-PL5720	GA-TO-002	SA-AM-001	0.52	0.21	0.30
P-PL-002	60.00	PL-1100 / PL-1152	FA-PL1152	GA-TT-001	SA-AM-001	0.42	0.51	0.62
P-PL-022	525.00	PL-9900 / PL-9915	FA-PL9915	GA-TO-003	SA-AM-002	0.45	0.15	0.19

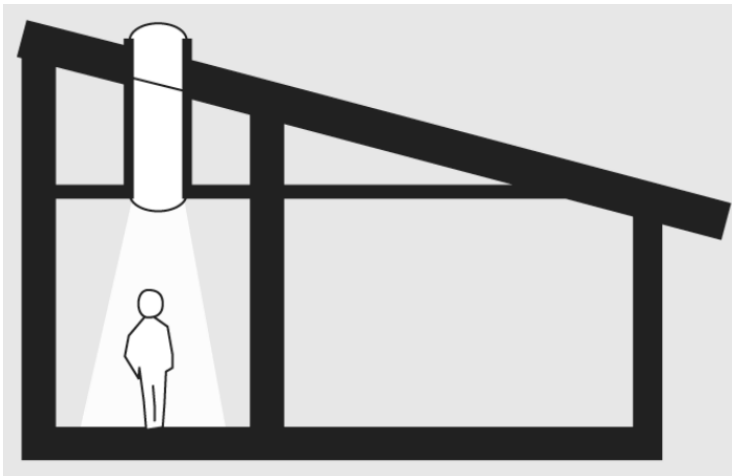


Demising Walls and Tubular Skylights

§140.3(a)3,6

2016

- No requirements



2019

- Demising wall windows
 - Maximum U-factors
 - No SHGC requirements
 - No VT requirements
- Tubular skylights added
 - Maximum U-factor 0.88
 - Minimum VT 0.38
 - No SHGC requirements
- Tables 140.3-B, C or D



CALIFORNIA ENERGY COMMISSION

CONTINUED: TABLE 140.3-B – PRESCRIPTIVE ENVELOPE CRITERIA FOR NONRESIDENTIAL BUILDINGS (INCLUDING RELOCATABLE PUBLIC SCHOOL BUILDINGS WHERE MANUFACTURER CERTIFIES USE ONLY IN SPECIFIC CLIMATE ZONE; NOT INCLUDING HIGH-RISE RESIDENTIAL BUILDINGS AND GUEST ROOMS OF HOTEL/MOTEL BUILDINGS)

Envelope	Fenestration			All Climate Zones				
					Fixed Window	Operable Window	Curtainwall or Storefront	Glazed Doors ²
		Vertical	Area-Weighted Performance Rating	Max U-factor	0.36	0.46	0.41	0.45
				Max RSHGC	0.25	0.22	0.26	0.23
			Area-Weighted Performance Rating	Min VT	0.42	0.32	0.46	0.17
				Maximum WWR%	40%			
		Skylights			Glass, Curb Mounted	Glass, Deck Mounted	Plastic, Curb Mounted	Tubular Daylighting Devices (TDDs)
			Area-Weighted Performance Rating	Max U-factor	0.58	0.46	0.88	0.88
				Max SHGC	0.25	0.25	NR	NR
			Area-Weighted Performance Rating	Min VT (Min VT _{annual} for TDDs)	0.49	0.49	0.64	0.38
Maximum SRR%	5%							



Daylighting

§140.3(d)

2016

- No adjustments

2019

- New power adjustment factors (PAF)
 - Clerestories
 - Horizontal Slats
 - Light Shelves
- Meet orientation and installation requirements in §140.3(d) to qualify



NONRESIDENTIAL LIGHTING REQUIREMENTS

Mandatory Sections: 110.9, 110.12, 130.0, 130.1, 130.2

Prescriptive Sections: 140.6, 140.7, 141.0(b)2I



Requirements for lighting controls

§110.9

- Lighting control device requirements are **relocated to §110.9 from Appliance Regulations**
 - Time-switch
 - Daylighting controls
 - Dimmers
 - Occupant sensing
- Certification to MAEDBs (appliance database) is **not required**



Luminaire Classification of Power

§130.0

- Recessed luminaires with line voltage medium screw base lamp holders
 - 50 watts per socket; or
 - Rated wattage of installed JA8 compliant lamps
- LED tape lighting
 - Maximum rated input wattage of power supply or driver; or
 - Installed length multiplied by manufacturer rated linear watts/ft²



Source: © 2018 Lutron Electronics Co., Inc. All rights Reserved



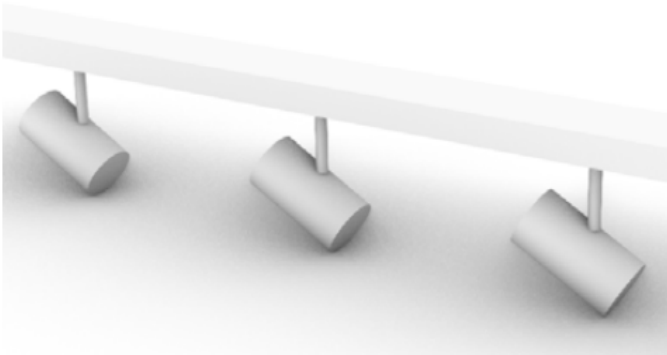
Source: NORA Lighting



Luminaire Classification of Power

§130.0

- Modular lighting systems power is the greater of:
 - 30 watts per linear foot; or
 - Rated wattage of all luminaires in the system



Source: Acuity Brands Lighting, Inc.



Area Controls

§130.1(a)



- Manual ON/OFF control is required for all indoor lighting
 - Each enclosed space must be controlled separately.
 - Controls must be readily accessible
 - Controls must be located in the same space as the lights being controlled
 - Exception: **psychiatric and secure areas in healthcare facilities, and other areas that pose a health and safety hazard**
 - Exception: **control can be located outside of the enclosed area but adjacent to the door for restrooms in healthcare facilities intended for a single occupant**
 - General, display, ornamental, and special effects lighting must be separately controlled



Multi-level Controls

§130.1(b)

- Multi-level lighting controls exceptions:
 - Classrooms with connected load ≤ 0.7 w/ft²
 - Restrooms and healthcare facilities
 - Enclosed spaces with one luminaire and no more than two lamps
 - Open areas and aisle ways in warehouses, library stack aisles, corridors, stairwells, parking garages/areas
 - One control step between 20 – 60 percent of full power



Shut-OFF Controls

§130.1(c)5

- Occupant sensing controls are required in:
 - Offices $\leq 250 \text{ ft}^2$
 - Multipurpose rooms $< 1,000 \text{ ft}^2$
 - Classrooms, conference rooms
 - Restrooms of any size
- Shut-OFF controls exceptions:
 - Exception: healthcare facilities
 - Exception: egress lighting must provide at least the amount of light required by building code when in partial-OFF mode





Automatic Daylighting Controls

§130.1(d)

- Automatic daylighting control exceptions:
 - Skylit zones:
 - Where adjacent structures or natural objects block direct sunlight for more than 1,500 daytime hours per year between 8 a.m. and 4 p.m.
 - Sidelit zones:
 - Adjacent to vertical glazing below an overhang that covers the entire width of glazing; and
 - No vertical glazing above the overhang; and
 - Ratio of overhang projection to the overhang rise is greater than 1.5 for South, East and West orientations, or greater than 1 for North orientations
 - Sidelit zones: retail sales and wholesale showroom areas



Automatic Daylighting Controls cont.

§130.1(d)

- Clarification on skylit daylit zone for atria:
 - Includes the floor area directly under the atrium and top floor area directly adjacent to atrium

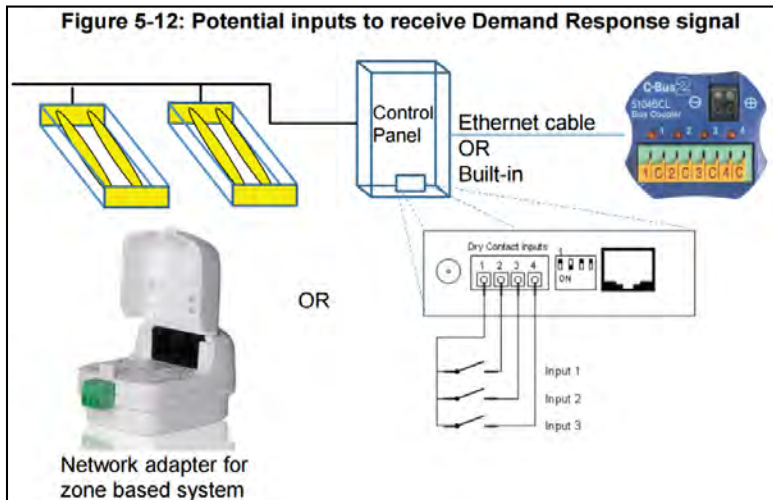




Demand Responsive Controls

§110.12

- Demand responsive (DR) controls are required for buildings over 10,000 ft²



- DR control must be certified OpenADR 2.0a or 2.0b Virtual End Node; or capable of responding to OpenADR 2.0b VEN
- Automatically reduce total lighting power by minimum 15%
- Exception: healthcare facilities



Control Interactions

§130.1(f)

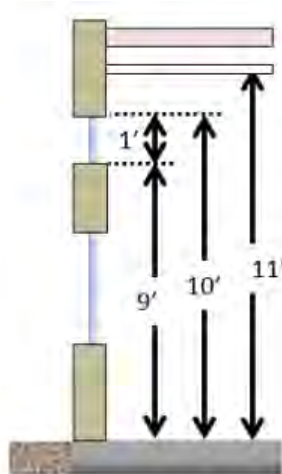
- Section 130.1(f) describes how controls interact
- (f) **Control Interactions.** Each lighting control installed to comply with Section 130.1 shall permit or incorporate the functions of the other lighting controls required by this Section.
1. For general lighting, the manual area control shall permit the level or amount of light provided while the lighting is on to be set or adjusted by the controls specified in Section 130.1(b), (c), (d), and (e).
 2. The manual area control shall permit the shutoff control to turn the lighting down or off.
 3. The multi-level lighting control shall permit the automatic daylighting control to adjust the electric lighting level in response to changes in the amount of daylight in the daylit zone.
 4. The multi-level lighting control shall permit the demand responsive control to adjust the lighting during a demand response event and to return it to the level set by the multilevel control after the event.
 5. The shutoff control shall permit the manual area control to turn the lighting on. If the on request occurs while an automatic time switch control would turn the lighting off, then the on request shall be treated as an override request consistent with Section 130.1(c)3.
 6. The automatic daylighting control shall permit the multi-level lighting control to adjust the level of lighting.
 7. For lighting controlled by multi-level lighting controls and by occupant sensing controls that provide an automatic-on function, the controls shall provide a partial-on function that is capable of automatically activating between 50-70 percent of controlled lighting power.



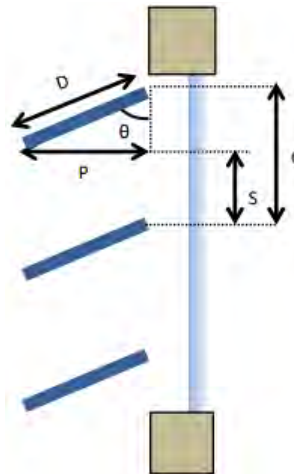
Power Adjustment Factors

§140.6(a)2

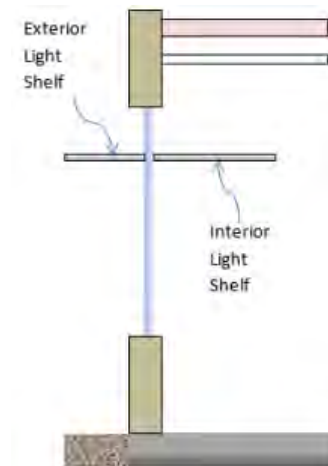
- Power Adjustment Factor (PAF): additional lighting power allowance for installing controls or features beyond mandatory requirements
 - New PAFs for **increasing daylighting potential and tunable white lighting**



Clerestory



Horizontal slats



Light shelves



Indoor Lighting Power

§140.6(c)

- Lighting power density (LPD, W/ft²) values reflect **LED as the baseline** for indoor lighting
 - Approximately 29 to 37% reduction in lighting power allowance
- Many new function area types have been added
- TABLE 140.6-B, TABLE 140.6-C, and TABLE 140.6-G

TABLE 140.6-C AREA CATEGORY METHOD - LIGHTING POWER DENSITY VALUES (WATTS/FT²)

Primary Function Area		Allowed Lighting Power Density for General Lighting (W/ft ²)	Additional Lighting Power ¹	
			Qualified Lighting Systems	Additional Allowance (W/ft ² , unless noted otherwise)
Auditorium Area		0.70	Ornamental	0.30
			Accent, display and feature ³	0.20
Auto Repair / Maintenance Area		0.55	Detailed Task Work ⁷	0.20
Audience Seating Area		0.60	Ornamental	0.30
Beauty Salon Area		0.80	Detailed Task Work ⁷	0.20
			Ornamental	0.30
Civic Meeting Place Area		1.00	Ornamental	0.30
Classroom, Lecture, Training, Vocational Area		0.70	White or Chalk Board ¹	4.50 W/ft
Commercial/Industrial Storage	Warehouse	0.45	-	-
	Shipping & Handling	0.60	-	-
Convention, Conference, Multipurpose and Meeting Area		0.85	Ornamental	0.30
Copy Room		0.50	-	-
Corridor Area		0.60	-	-
Dining Area	Bar/Lounge and Fine Dining	0.55	Ornamental	0.30
	Cafeteria/Fast Food	0.40		
	Family and Leisure	0.50		
Electrical, Mechanical, Telephone Rooms		0.40	Detailed Task Work ⁷	0.20
Exercise/Fitness Center and Gymnasium Area		0.50	-	-
Hotel Function Area		0.85	Ornamental	0.30
Museum Area	Exhibition/Display	0.60	Accent, display and feature ³	0.50



Indoor Lighting Alterations

§141.0(b)2I

- Indoor alteration requirements apply if **10% or more of luminaires in the space are altered**
 - Control requirements are dependent on the proposed lighting power
 - Lighting power $\leq$ 80% - Area controls and shut-off controls
 - Lighting power $>$ 80% - All mandatory controls
 - One for one luminaire replacement and **building or tenant space $\leq$ 5,000 ft²**
 - If wattage of altered luminaires is at least 40% lower than existing – area controls and shut-off controls
- Exceptions:
 - One for one luminaire replacement of 50 luminaires per year or less
 - Enclosed spaces with one luminaire

Table 141.0-F – Control Requirements for Indoor Lighting System Alterations

Control Specifications		Projects complying with Section 141.0(b)2Ii	Projects complying with Sections 141.0(b)2Iii and 141.0(b)2Iiii
Manual Area Controls	130.1(a)1	Required	Required
	130.1(a)2	Required	Required
	130.1(a)3	Only required for new or completely replaced circuits	Only required for new or completely replaced circuits
Multi-Level Controls	130.1(b)	Required	Not Required
Automatic Shut Off Controls	130.1(c)1	Required; 130.1(c)1D only required for new or completely replaced circuits	Required; 130.1(c)1D only required for new or completely replaced circuits
	130.1(c)2	Required	Required
	130.1(c)3	Required	Required
	130.1(c)4	Required	Required
	130.1(c)5	Required	Required
	130.1(c)6	Required	Required
	130.1(c)7	Required	Required
	130.1(c)8	Required	Required
Daylighting Controls	130.1(d)	Required	Not Required
Demand Responsive Controls	130.1(e)	Required	Not Required



Outdoor Lighting Controls

§130.2

- §130.2(a) - Incandescent luminaires
 - ~~Motion sensor for incandescent luminaires over 100 watts~~
- §130.2(b) - Luminaire cutoff
 - Cutoff requirements are required for all luminaires with **initial lumens of 6,200 or greater**
 - Exception: **outdoor lighting attached to high-rise residential or hotel/motel building and controlled from inside of the dwelling unit**
- §130.2(c)2 - Automatic scheduling controls for all luminaires
 - **Be able to reduce lighting power by 50 to 90% and turn lighting OFF during unoccupied periods**
 - **Capable of being programmed with a minimum of two nighttime periods (verified through acceptance testing)**



Outdoor Lighting Controls cont.

§130.2(c)

- §130.2(c)3 - Motion sensing controls
 - Required for all luminaires mounted 24 ft. or less above floor
 - Except for building facade, ornamental hardscape, outdoor dining, and sales frontage lighting (unless it is a wall pack)
 - Motion sensors must be capable of reducing lighting by 50 to 90% and off
 - Must reduce or turn off lighting after 15 minutes of vacancy
 - Exception: luminaires 40 watts or less



Outdoor Lighting Power

§140.7

- Lighting power density values **reduced by 15-38%**

TABLE 140.7-A GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE

Type of Power Allowance	Lighting Zone 0 ³	Lighting Zone 1 ³	Lighting Zone 2 ³		Lighting Zone 3 ³		Lighting Zone 4 ³
	Asphalt/Concrete	Asphalt/Concrete	Asphalt	Concrete ²	Asphalt	Concrete ²	Asphalt/Concrete
Area Wattage Allowance (AWA)	No allowance ¹	0.018 W/ft ²	0.023 W/ft ²	0.025 W/ft ²	0.025 W/ft ²	0.03 W/ft ²	0.03 W/ft ²
Linear Wattage Allowance (LWA)		0.15 W/lf	0.17 W/lf	0.4 W/lf	0.25 W/lf	0.4 W/lf	0.35 W/lf
Initial Wattage Allowance (IWA)		180 W	250 W	250 W	350 W	350 W	400 W

¹Continuous lighting is explicitly prohibited in Lighting Zone 0. A single luminaire of 15 Watts or less may be installed at an entrance to a parking area, trail head, fee payment kiosk, outhouse, or toilet facility, as required to provide safe navigation of the site infrastructure. Luminaires installed shall meet the maximum zonal lumen limits as specified in Section 130.2(b).

²Where greater than 50% of the paved surface of a parking lot is finished with concrete. This does not extend beyond the parking lot, and does not include any other General Hardscape areas.

³Narrow band spectrum light sources with a dominant peak wavelength greater than 580 nm – as mandated by local, state, or federal agencies to minimize the impact on local, active professional astronomy or nocturnal habitat of specific local fauna – shall be allowed a 2.0 lighting power allowance multiplier.



NONRESIDENTIAL MECHANICAL REQUIREMENTS

Mandatory Sections: 110.2, 110.5, 110.12, 120.1(b, c, d, g), 120.2(e, i, k)

Prescriptive Sections: 140.4(c)1



Mandatory Requirements

§110.1 - §110.12

- §110.2 – Space Conditioning Equipment
 - Updated efficiencies to align with ASHRAE 90.1-2016
- §110.5 – Pilot Lights Prohibited
 - Prohibits continuously burning pilot light for indoor and outdoor fireplaces
- §110.12 – Demand Management Requirements updated
 - Must be certified either as Open ADR 2.0a or b Virtual End Node (VEN), or
 - Be capable of responding to an Open ADR 2.0b VEN



Ventilation and Indoor Air Quality

§120.1

- Ventilation system requirements are broken out by building type:
 - §120.1(b) - high-rise residential (ASHRAE 62.2)
 - §120.1(c) - nonresidential, hotel/motel (ASHRAE 62.1)
- Filtration required for central space conditioning systems and **supply side** of ventilation systems
- MERV 13 filter efficiency required



High-Rise Residential Air filtration

§120.1(b)1

- Filters for space conditioning systems:
 - 2 inch depth filter: allowable pressure drop determined by the system designer
 - 1 inch filter if sized according to Equation 120.1-A with maximum pressure drop of 0.1 in of water
- Filters for ventilation systems:
 - System must be designed to accommodate the filter pressure drop determined by the system designer
- Filters must be labeled with the design airflow rate, and pressure drop at the design airflow rate





High-Rise Residential Ventilation

§120.1(b)2

- Dwelling ventilation rates and indoor air quality aligned with ASHRAE 62.2 with California amendments:
 - Window operation is not allowed for providing ventilation
 - Continuous operation of the central system air handlers used in central fan integrated ventilation systems is not allowed
 - Ventilation system must be one of the following:
 - Balanced ventilation system, or
 - Continuously operating supply or exhaust ventilation systems are allowed if the **dwelling unit envelope** leakage is verified by a HERS Rater to be ≤ 0.3 cfm.



Figure 4-28: Exhaust Ventilation Example

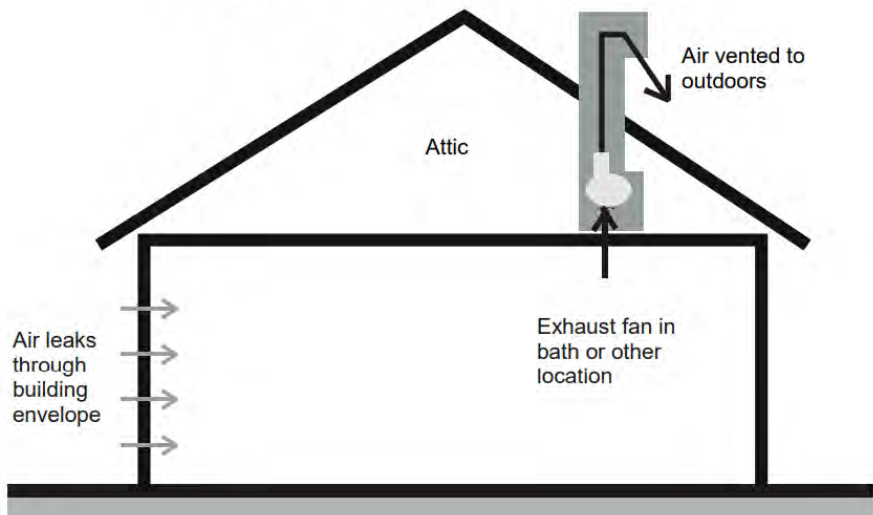


Figure 4-30: Central Fan-Integrated (CFI) Ventilation Example

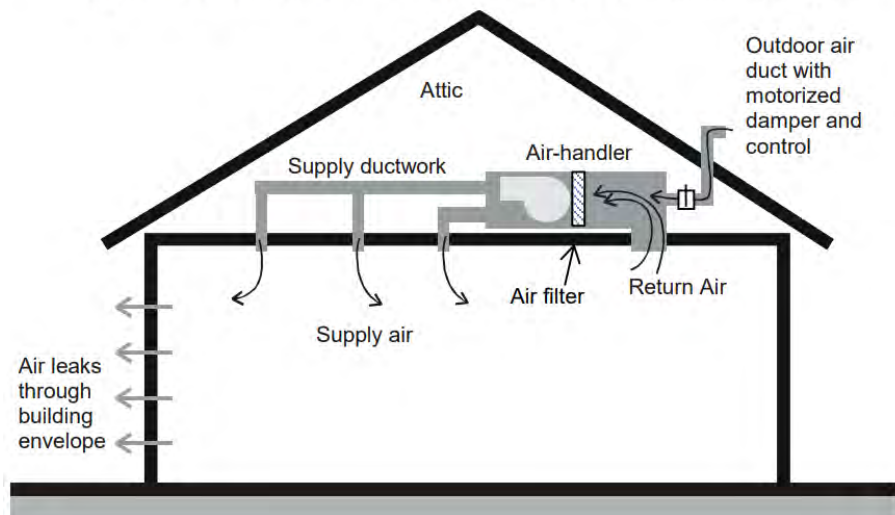


Figure 4-31: Balanced Ventilation Example 1 – HRV or ERV

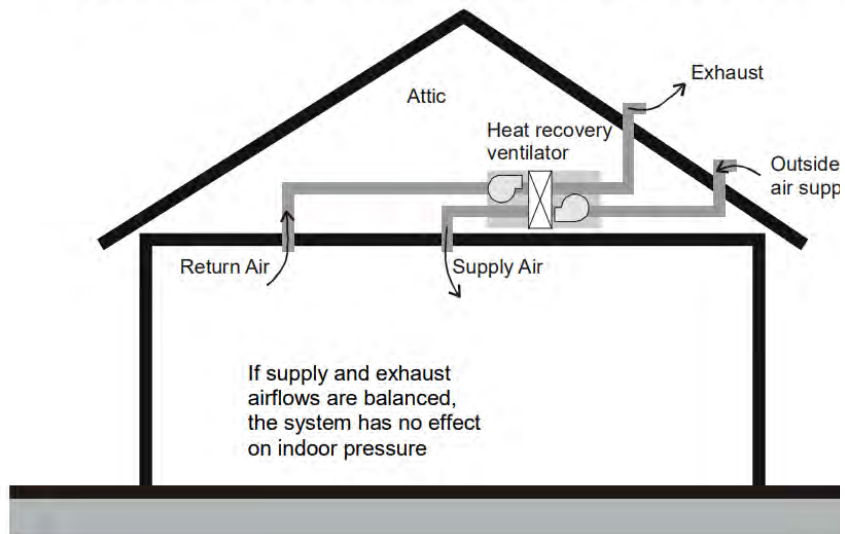
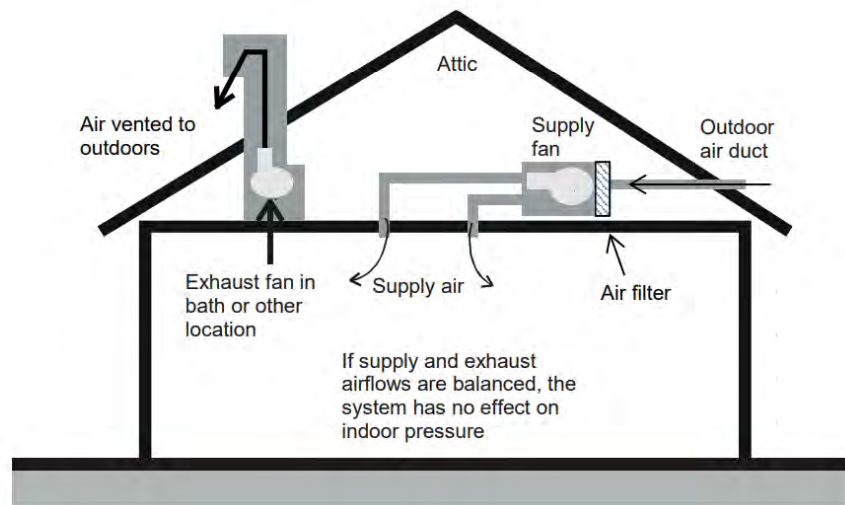


Figure 4-32: Balanced Ventilation Example 2 – Separate Supply and Exhaust Fan





High-Rise Residential Ventilation

§120.1(b)2

- Ventilation rate for dwelling units:

$$Q_{\text{tot}} = \mathbf{0.03} \times A_{\text{floor}} + 7.5 \times (N_{\text{br}} + 1) \text{ (Equation 120.1-B)}$$

- **Central** ventilation systems serving multiple dwelling units:
 - Ventilation rate in **each** dwelling unit must be equal to the rate calculated using equation 120.1-B or up to 20% higher
 - System must be balanced for **each** dwelling-unit:
 - ✓ Tested in accordance with Reference Nonresidential Appendix NA7.18.1 to confirm



Kitchen Range Hoods

§120.1(b)2

- Minimum airflow of 100 cfm
- Maximum rated sound of 3 sones
 - ❖ Exception: May be rated for sound at a static pressure determined at working speed in accordance with HVI 916
- Certified to the Home Ventilation Institute (HVI)
- Tested in accordance with Reference Nonresidential Appendix NA7.18.1 to confirm



Nonresidential and Hotel/Motel Air Filtration

§120.1(c)1

- Filters required for both **space conditioning and ventilation systems**:
 - MERV 13
 - 2-inch depth filter
 - 1 inch filter if sized according to Equation 120.1-A

$$A_{\text{face}} = Q_{\text{filter}} / V_{\text{face}} \quad (\text{Equation 120.1-A})$$

Where:

A_{face} = filter face (sf)

Q_{filter} = filter air flow (cfm)

V_{face} = face velocity (150 ft/min or less)



Nonresidential and Hotel/Motel Ventilation

§120.1(c)2

- Natural Ventilation
 - Maximum distance from operable openings is based on location, number of openings, and ceiling height
 - Size of openings must be $\geq 4\%$ of ventilated floor area
 - Adjoining rooms without outside air openings must have a permanently opened area not less than 8% of the unventilated room floor area but not less than 25 sf
 - Must also include mechanical ventilation (120.1(c)3) unless meeting exceptions



Nonresidential and Hotel/Motel Ventilation

§120.1(c)3

- Mechanical Ventilation
 - Ventilation rate is determined by the greater of:

$$V_z = R_a \times A_z \quad (\text{Equation 120.1-F})$$

$$V_z = R_p \times P_z \quad (\text{Equation 120.1-G})$$

Where:

V_z = Required outdoor airflow rate (cfm)

R_a = Outdoor airflow rate per unit area from Table 120.1-A. (cfm/sf)

R_p = 15 cubic feet per minute of outdoor airflow per person

A_z = Net floor area of the ventilation zone (sf)

P_z = Expected number of occupants



CALIFORNIA ENERGY COMMISSION

Table 120.1-A – Minimum Ventilation Rates

Occupancy Category	Area Outdoor Air Rate ¹ R _a	Min Air Rate for DCV ²	Air Class	Notes
	cfm/ft ²	cfm/ft ²		
Educational Facilities				
Daycare (through age 4)	0.21	0.15	2	
Daycare sickroom	0.15		3	
Classrooms (ages 5-8)	0.38	0.15	1	
Classrooms (age 9 -18)	0.38	0.15	1	
Lecture/postsecondary classroom	0.38	0.15	1	F
Lecture hall (fixed seats)	-	0.15	1	F
Art classroom	0.15		2	
Science laboratories	0.15		2	
University/college laboratories	0.15		2	
Wood/metal shop	0.15		2	
Computer lab	0.15		1	
Media center	0.15		1	A
Music/theater/dance	1.07	0.15	1	F
Multiuse assembly	0.50	0.15	1	F
Food and Beverage Service				
Restaurant dining rooms	0.50	0.15	2	
Cafeteria/fast-food dining	0.50	0.15	2	
Bars, cocktail lounges	0.50	0.20	2	
Kitchen (cooking)	0.15		2	
General				
Break rooms	0.50	0.15	1	F
Coffee Stations	0.50	0.15	1	F
Conference/meeting	0.50	0.15	1	F
Corridors	0.15		1	F
Occupiable storage rooms for liquids or gels	0.15		2	B
Hotels, Motels, Resorts, Dormitories				
Bedroom/living room	0.15		1	F
Barracks sleeping areas	0.15		1	F
Laundry rooms, central	0.15		2	
Laundry rooms within dwelling units	0.15		1	
Lobbies/pre-function	0.50	0.15	1	F
Multipurpose assembly	0.50		1	F

Table 120.1-A – Minimum Ventilation Rates [Continued]

Occupancy Category	Area Outdoor Air Rate R _a	Min Air Rate for DCV ^b	Air Class	Notes
	cfm/ft ²	cfm/ft ²		
Office Buildings				
Breakrooms	0.50	0.15	1	
Main entry lobbies	0.50	0.15	1	F
Occupiable storage rooms for dry materials	0.15		1	
Office space	0.15		1	F
Reception areas	0.15		1	F
Telephone/data entry	0.15		1	F
Miscellaneous Spaces				
Bank vaults/safe deposit	0.15		2	F
Banks or bank lobbies	0.15		1	F
Computer (not printing)	0.15		1	F
Freezer and refrigerated spaces (<50°F)	-		2	E
General manufacturing (excludes heavy industrial and process using chemicals)	0.15		3	
Pharmacy (prep. Area)	0.15		2	
Photo studios	0.15		1	
Shipping/receiving	0.15		2	B
Sorting, packing, light assembly	0.15		2	
Telephone closets	0.15		1	
Transportation waiting	0.50	0.15	1	F
Warehouses	0.15		2	B
All others	0.15		2	
Public Assembly Spaces				
Auditorium seating area	1.07	0.15	1	F
Places of religious worship	1.07	0.15	1	F
Courtrooms	0.19	0.15	1	F
Legislative chambers	0.19	0.15	1	F
Libraries (reading rooms and stack areas)	0.15		1	
Lobbies	0.50	0.15	1	F
Museums (children's)	0.25	0.15	1	
Museums/galleries	0.25	0.15	1	F



Exhaust Ventilation

§120.1(c)4

- New minimum exhaust ventilation rates are listed in Table 120.1-B (aligns with ASHRAE 62.1)

Table 120.1-B – Minimum Exhaust Rates

[ASHRAE 62.1: TABLE 6.5]

Occupancy Category	Exhaust Rate, cfm/unit	Exhaust Rate, cfm/ft ²	Air Class	Notes
Arenas	-	0.50	1	B
Art classrooms	-	0.70	2	
Auto repair rooms	-	1.5	2	A
Barber shops	-	0.50	2	
Beauty and nail salons	-	0.60	2	
Cells with toilet	-	1.00	2	
Copy, printing rooms	-	0.50	2	
Darkrooms	-	1.00	2	
Educational science laboratories	-	1.00	2	
Janitor closets, trash rooms, recycling	-	1.00	3	
Kitchenettes	-	0.30	2	

Table 120.1-B – Minimum Exhaust Rates

[ASHRAE 62.1: TABLE 6.5]

Occupancy Category	Exhaust Rate, cfm/unit	Exhaust Rate, cfm/ft ²	Air Class	Notes
Arenas	-	0.50	1	B
Art classrooms	-	0.70	2	
Auto repair rooms	-	1.5	2	A
Barber shops	-	0.50	2	
Beauty and nail salons	-	0.60	2	
Cells with toilet	-	1.00	2	
Copy, printing rooms	-	0.50	2	
Darkrooms	-	1.00	2	
Educational science laboratories	-	1.00	2	
Janitor closets, trash rooms, recycling	-	1.00	3	
Kitchenettes	-	0.30	2	
Kitchens – commercial	-	0.70	2	
Locker rooms for athletic or industrial facilities	-	0.50	2	
All other locker rooms	-	0.25	2	
Shower rooms	20/50	-	2	G,H
Paint spray booths	-	-	4	F
Parking garages	-	0.75	2	C
Pet shops (animal areas)	-	0.90	2	
Refrigerating machinery rooms	-	-	3	F
Soiled laundry storage rooms	-	1.00	3	F
Storage rooms, chemical	-	1.50	4	F
Toilets – private	25/50	-	2	E
Toilets – public	50/70	-	2	D
Woodwork shop/classrooms	-	0.50	2	
Notes: A – Stands where engines are run shall have exhaust systems that directly connect to the engine exhaust and prevent escape of fumes. B – Where combustion equipment is intended to be used on the playing surface, additional dilution ventilation, source control, or both shall be provided. C – Exhaust shall not be required where two or more sides comprise walls that are at least 50% open to the outside. D – Rate is per water closet, urinal, or both. Provide the higher rate where periods of heavy use are expected to occur. The lower rate shall be permitted to be used otherwise. E – Rate is for a toilet room intended to be occupied by one person at a time. For continuous systems operation during hours of use, the lower rate shall be permitted to be used. Otherwise the higher rate shall be used. F – See other applicable standards for exhaust rate. G – For continuous system operation, the lower rate shall be permitted to be used. Otherwise the higher rate shall be used. H – Rate is per showerhead				



Air Classification and Recirculation Limitations

§120.1(g)

- New section that limits the recirculation or transfer of air based on air classification of an occupancy
 - Table 120.1-A, -B, and -C designates the air class for each occupancy: 1, 2, 3, or 4
 - The lower the number, the higher the air quality. For example:
 - Class 1 air can be recirculated or transferred to any space
 - Class 4 air cannot be recirculated or transferred to any other space
 - This aligns with ASHRAE 62.1



Demand Control Ventilation

§120.1(d)3

- DCV is required if the system serving the space (25 or more per 1,000 sf) has one of the following:
 - An air economizer, **or**
 - Modulating outside air control, **or**
 - A design outdoor airflow rate is $> 3,000$ cfm
- Single zone with any controls or multi zone with DDC to the zone are no longer requirements
- Exception for classrooms, call centers, and offices has been eliminated



Occupant Sensing Zone Controls

§120.2(e)3

- Occupancy sensors are now mandatory for HVAC control when:
 - Required for lighting in §130.1(c), and
 - Where Table 120.1-A allows the occupancy category ventilation to be reduced to zero
- System must be placed in occupied standby mode after 5 minutes of vacancy
 - Setup and setback temp. setpoints 2 degrees or more
 - Multi-zone with DDC –Setup and setback setpoint 0.5 degrees or more
 - All airflow to zero when between active heating and cooling setpoints
- Occupant Sensing Zone Controls tested per NA7.5.17



Controls for Space Conditioning Systems

§120.2(i)8, §120.2(k)

- Fault Detection Diagnostics Certification to the Energy Commission
 - FDD requirement is **expanded to include all** system types with economizer and cooling capacity > 54,000 BTU/h
 - An **exception** was added for Direct Digital Control systems with built in FDD algorithms
- Optimum Start/Stop Controls
 - An **exception** was added for systems that must operate continuously



Required Pipe Insulation

§120.3

- Table 120.3-A updated to include R-Values

Table 120.3-A Pipe Insulation Thickness

Fluid Operating Temperature Range (°F)	Insulation Conductivity			inal Pipe Diameter (in inches)				
	Conductivity (in Btu·in/h·ft2·°F)	Mean Rating Temperature (°F)		< 1	1 to <1.5	1.5 to < 4	4 to < 8	8 and larger
Space heating and Service Water Heating Systems (Steam, Steam Condensate, Refrigerant, Space Heating, Service Hot Water)				Minimum Pipe Insulation Required (Thickness in inches or R-value)				
Above 350	0.32-0.34	250	Inches	4.5	5.0	5.0	5.0	5.0
			R-value	R 37	R 41	R 37	R 27	R 23
251-350	0.29-0.32	200	Inches	3.0	4.0	4.5	4.5	4.5
			R-value	R 24	R 34	R 35	R 26	R 22
201-250	0.27-0.30	150	Inches	2.5	2.5	2.5	3.0	3.0
			R-value	R 21	R 20	R 17.5	R 17	R 14.5
141-200	0.25-0.29	125	Inches	1.5	1.5	2.0	2.0	2.0
			R-value	R 11.5	R 11	R 14	R 11	R 10
105-140	0.22-0.28	100	Inches	1.0	1.5	1.5	1.5	1.5
			R-value	R 7.7	R 12.5	R 11	R 9	R 8



Space Conditioning Fan Systems

§140.4(c)1

- Now applies to fan systems > 5 hp name plate
- Allowable fan power is calculated from Table 140.4-A with data from Table 140.4-B
 - Option 1: Fan system HP based on maximum supply airflow; or
 - Option 2: Fan system BHP based on maximum supply airflow with adjustments for pressure drop in the system



CALIFORNIA ENERGY COMMISSION

TABLE 140.4 - A Fan Power Limitation

	Limit	Constant Volume	Variable Volume
Option 1: Fan system motor nameplate hp	Allowable motor nameplate hp	$hp \leq cfm_s \times 0.0011$	$hp \leq cfm_s \times 0.0015$
Option 2: Fan system bhp	Allowable fan system bhp	$bhp \leq cfm_s \times 0.00094 + A$	$bhp \leq cfm_s \times 0.0013 + A$
cfm_s = maximum design supply airflow rate to conditioned spaces served by the system in cubic feet per minute hp = maximum combined motor nameplate horsepower for all fans in the system bhp = maximum combined fan-brake horsepower for all fans in the system A = sum of $(PD \times cfm_D / 4131)$ PD = each applicable pressure drop adjustment from Table 140.4 – B, in inches of water cfm_D = the design airflow through each applicable device from Table 140.4 – B, in cubic feet per minute			

TABLE 140.4-B – Fan Power Limitation Pressure Drop Adjustment

Device	Adjustment Credits
Return or exhaust systems required by code or accreditation standards to be fully ducted, or systems required to maintain air pressure differentials between adjacent rooms	0.5 in. of water
Return and/or exhaust airflow control devices	0.5 in. of water
Exhaust filters, scrubbers, or other exhaust treatment	The pressure drop of device calculated at fan system
Particulate Filtration Credit: MERV 16 and greater and electronically enhanced filters	Pressure drop calculated at 2 x clean filter pressure drop at fan system design condition
Carbon and other gas-phase air cleaners	Clean filter pressure drop at fan system design condition
Biosafety cabinet	Pressure drop of device at fan system design condition
Energy recovery device, other than coil runaround loop	For each airstream $[(2.2 \times \text{Energy Recovery Effectiveness}) - 0.5]$ in. of water
Coil runaround loop	0.6 in. of water for each airstream
Exhaust systems serving fume hoods	0.35 in. of water



*Let's finish with some
Resources*



Approved 2019 Compliance Software

Used to demonstrate compliance with the Energy Standards when using the Performance Approach

- **Residential**
 - CBECC-Res 2019.1.0
 - EnergyPro v8.0
- **Nonresidential**
 - CBECC-Com 2019.1.0

More information at:

https://www.energy.ca.gov/title24/2019standards/2019_computer_prog_list.html



HERS Providers

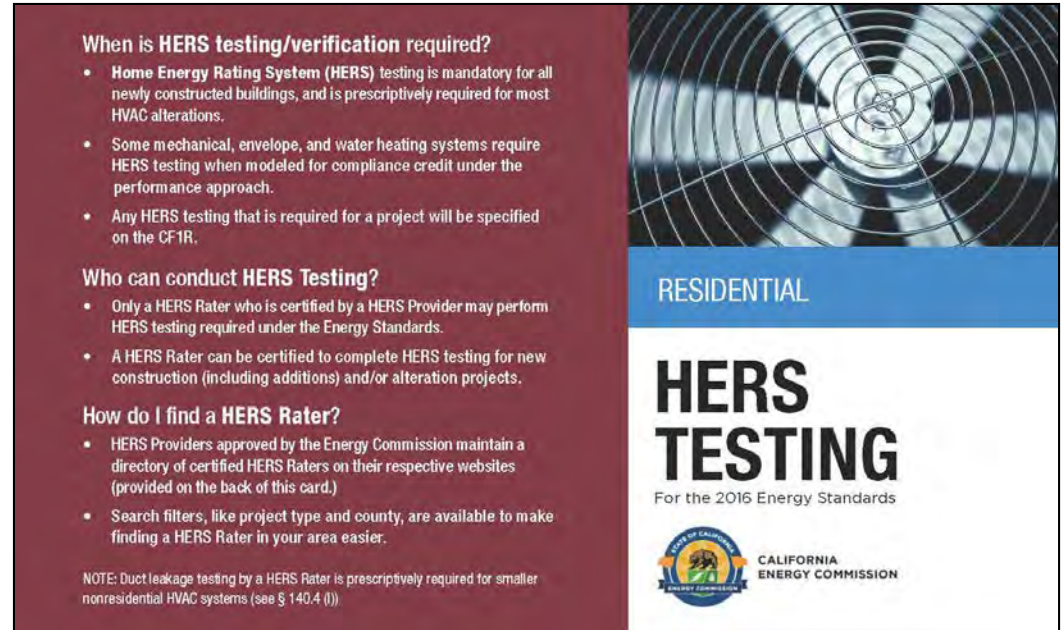


- Currently in the process of updating:
 - Training
 - Forms/data registries
- All of the above must be approved by the Energy Commission to:
 - Train and certify HERS Raters for 2019 Energy Standards
 - Before 1/1/2020



HERS Counter Card

- Intended to assist counter staff and permit technicians
- Inform applicants about HERS testing and verification
- Available online



The image shows a "HERS Counter Card" for Residential HERS Testing. The card is divided into two main sections: a dark red left side with white text and a white right side with a blue header and black text. The right side features a photograph of a circular HVAC fan grille at the top. The text on the card provides information about when HERS testing is required, who can conduct it, and how to find a HERS Rater. A note at the bottom left specifies that duct leakage testing is required for smaller nonresidential HVAC systems. The California Energy Commission logo is visible in the bottom right corner.

When is HERS testing/verification required?

- Home Energy Rating System (HERS) testing is mandatory for all newly constructed buildings, and is prescriptively required for most HVAC alterations.
- Some mechanical, envelope, and water heating systems require HERS testing when modeled for compliance credit under the performance approach.
- Any HERS testing that is required for a project will be specified on the CFIR.

Who can conduct HERS Testing?

- Only a HERS Rater who is certified by a HERS Provider may perform HERS testing required under the Energy Standards.
- A HERS Rater can be certified to complete HERS testing for new construction (including additions) and/or alteration projects.

How do I find a HERS Rater?

- HERS Providers approved by the Energy Commission maintain a directory of certified HERS Raters on their respective websites (provided on the back of this card.)
- Search filters, like project type and county, are available to make finding a HERS Rater in your area easier.

NOTE: Duct leakage testing by a HERS Rater is prescriptively required for smaller nonresidential HVAC systems (see § 140.4 (l)).

RESIDENTIAL

HERS TESTING
For the 2016 Energy Standards

 CALIFORNIA ENERGY COMMISSION



ATTCPs

- Currently in the process of updating:
 - Training
 - Recertification
 - Alternative Forms (LTG)
- Updates must be approved by the Energy Commission to:
 - Train, certify, and recertify ATTs for 2019 Energy Standards
- Must submit by July 1st





ATTCP Counter Card



NONRESIDENTIAL
Including high-rise residential & hotel/motel projects

ACCEPTANCE TESTING For the 2016 Energy Standards



CALIFORNIA ENERGY COMMISSION

When is acceptance testing required?

- Acceptance testing is mandatory for certain nonresidential lighting, mechanical, fenestration, covered processes, and controls.
- Acceptance testing applies when regulated systems or controls are installed in newly constructed buildings, additions, and alterations.
- Any acceptance testing that is required will be specified on the NRCC(s).

Who can conduct acceptance testing?

- Only a lighting **Acceptance Test Technician (ATT)** certified by an ATT Certification Provider (ATTCP) may perform testing for indoor and outdoor lighting systems and controls.
- The builder, contractor, engineer, or commissioning agent may perform testing for HVAC, fenestration, covered processes, and controls.
- A mechanical ATT certified by an ATTCP will be required to perform testing for HVAC systems and controls when the industry thresholds in § 10-103.2 are met.

How do I find an ATT?

- ATTCPs approved by the Energy Commission maintain a directory of certified ATTs on their respective websites (provided on back of this card).
- Search filters, like name and county, are available to make finding an ATT in your area easier.

- Available online
- Intended to assist counter staff and permit technicians
- Inform applicants about Acceptance Testing



Online Resource Center (ORC)

Online Resource Center

The Online Resource Center provides educational assistance about the Building Energy Efficiency Standards to building and enforcement communities. The California Energy Commission and utilities developed the resources, which include fact sheets, energy videos, and presentations.

Expand All

Compliance Forms	+
Energy Videos	+
Trainings and Upcoming Events	+
Exhibitor Booth Handouts	+

ENERGY STANDARDS AND FORMS

BUILDING ENERGY EFFICIENCY STANDARDS - TITLE 24

2022 Building Energy Efficiency Standards

2019 Building Energy Efficiency Standards

2016 Building Energy Efficiency Standards

Online Resource Center

Past Building Energy Efficiency Standards

CONTACT

[Building Energy Efficiency Standards - Title 24](#)

Toll-free in California: 800-772-3300
Outside California: 916-654-5106

SUBSCRIBE

Building Energy Efficiency Standards

First Name *

RESOURCES AND TRAINING MATERIALS

Overview

Look for informational resources that cover multiple building components in a single document for residential and nonresidential buildings.

Commissioning

Mandatory commissioning requirements for nonresidential buildings.

Covered Processes

Mandatory and prescriptive covered processes requirements for nonresidential buildings.

Electrical Power Distribution

Mandatory electrical power distribution requirements for nonresidential buildings.

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<http://www.energy.ca.gov/title24/orc/>



Blueprint

- Email Newsletter
- Published quarterly
- Clarifications on frequently asked questions





Hotline

- Toll-free in California
- Open Monday through Friday
 - 8:00 a.m. to noon, and
1:00 p.m. to 4:30 p.m.
- Call at:
 - 1-800-772-3300 (In CA)
 - (916) 654-5106 (Outside CA)
- Or, email at: Title24@energy.ca.gov



Email Lists

- Main conduit for communicating with stakeholders
- Sign up at:
 - <http://www.energy.ca.gov/listservers/>
- Subscribe to the following Efficiency Lists:
 - Building Standards
 - Blueprint
- Respond to confirmation email within 24 hours



Energy Code Ace

The screenshot shows the EnergyCode Ace website homepage. At the top, there's a navigation bar with "Tools Ace", "Training Ace", and "Resources Ace" dropdown menus, and a search bar. Below the navigation bar, a banner reads "Don't gamble on Title 24, Part 6 and Title 20 compliance. Ace it with:". There are three main content boxes: "Ace Tools™" (blue), "Ace Training™" (green), and "Ace Resources™" (red). Each box contains a brief description of the service and an "Ace it" button. At the bottom, there is a testimonial from Mike Olsen, Gilmore Heating and Air, and a quote about the benefits of the program.

- Forms and Resources
- Free training in person and online
- Checklists, Trigger Sheets, and Fact Sheets

www.energycodeace.com/content/home/