CITY OF MILPITAS

Building & Safety Department 455 E. Calaveras Blvd. Milpitas, CA 95035 408-586-3240

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electrode

Connection of GEC must be accessible

No sheet metal screw for ground screw

Expansion fitting must have continuous ground

Bond water and steel per CEC250.66 and gas with 250.122

#4 wire and bigger shall have bushing to protect wire CEC300.4

Use bond bushing at concentric KO for circuits over 250 volts

At cooler location seal hole to j-box for difference in temperature change CEC 300.7



COMMERCIAL ROUGH & FINAL ELECTRICAL **INSPECTION CHECKLIST**

Use rigid non metallic conduit in corrosive areas CEC352.10
Seal all unused openings in J-boxes CEC110.12
All equipment and bussing shall not have paint on them CEC110.12
Terminals used for more than 1 conductor or aluminum shall be identified CEC110.4(a)
All equipment shall be listed and labeled or 3 rd party inspected CEC110.3
Equipment shall have adequate working space about it minimum 30x36 also height of 6 ½' CEC110.26
Provide clear space over equipment no other trade within the 6' CEC110.26
Electrical equipment not to exceed 6" in front of other equipment CEC110.26(a)(3)
1200 amp service or more requires 2 exits 1 at each end with panic hardware CEC110.26(c)
#6 or smaller grounded conductor requires continuous white or grey color CEC200.6
Use 6-12 rule for all offices per the COM
Check all grounding and bonding (UFER, water bonding, and gas use table 250.66 for water and 250.122 for gas bond, ½"
rebar or #4 bare copper in footing for GEC size use 250.66 for size
Service panel complete. Check clearance 30 min wide by 36" deep. Makeup with brand name breakers installed and made
tight. Identify branch circuit max height for breakers is 6'7"
No panel boards in bathrooms
Antioxidant installed on all aluminum wires
Check insulation for damage and type of wire used per plan
Use proper bending ratios not more than 5 times the diameter of cable
Check that all recessed can lights in unconditioned space are Air tight and IC rated if in contact with insulation
Above ceiling (a) Grid wires to fixtures, (b) Attach fixture to grid, (c) Independent support for raceway/wires, (d) Box
support & seal around, (e) Seal all penetrations through rated walls, (f) Plenum rated cables where applicable
Check sub panel for ground, and neutral to be separated only ok to be tied together in main service panel
Check metal boxes for ground screws, and no metal mud rings with plastic boxes unless bonding jumper installed
3 way switch required at stairs 6 or more risers controlled from top and bottom
Receptacle required for every 12' of show window CEC210.62
Cord and plug receptacles to be 80% of FLA. CEC210.21(b)
If counting floor receptacle for wall space receptacle to be within 18" of wall CEC210.52
Receptacle required to be within 25' of equipment CEC210.63
Lighting switch required for equipment room or space CEC210.70
Breaker has to be 125% of continuous load running more than 3 hours CEC210.19
1000 amp service requires GFCI protected breaker shall be tested by 3 rd party prior to energizing use city list CEC215.10
Feeders to building shall have disconnect outside or immediately inside where conductors pass through CEC225.32
Each occupant shall have access to own disconnect CEC225.35
Seal underground conduits that have a potential of water entering enclosure CEC230.8
Breakers used for switching shall be labeled SWD, or HID CEC240.83
Remove any paint on panel before installing ground lug
Size main bonding jumper per CEC250.66
Bond steel if any in area of the new transformer per CEC250.66
Equipment grounding conductors sized per CEC250.122
When using main water service as grounding electrode within 5' of entering building must also have supplemental

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	Conductors and raceways shall be marked sunlight resistant outdoors	
	Box fill per CEC314.16(a) Check mud rings for proper size to sheetrock being used	
	Use strain relief on pendant hung cords from boxes no cords through ceiling or walls	
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	Straight pull boxes shall be 8 times conduit size for wire #4 and larger	
	All metal covers shall comply with grounding	
	Secure MC 12" from box and every 6' no breaks or tight bends	
	No more than 4- 90 degree bends in conduit run	
	Plastic bushings required on plastic male adapters	
	Ream conduit before installing	
	Check conductor fill on raceway per CEC chapter 9 annex C	
Final Electrical		
	Panel labeled and clear space in front	
	AFCI/GFCI breakers installed	
	Test all GFCI outlets and outlets fed by GFCI	
	Grounding/ Bonding installed rod or Ufer	
	Emergency lights installed and provide enough light for egress	
	Exit signs in right locations per plan and tested	
	Test GFI breaker 1000 amp 2771480 volt or more 3 rd party	
	All disconnects in place with correct fuse sizes and clearances	
	All unused openings closed	
	Cover plates installed, check for goof rings at granite back splash at kitchen max ¼" back from noncombustible surface to	
_	box	
	All fire rated penetrations sealed	
	Equipment installed listed and/or approved Bubble covers in wet locations	
	Receptacle within 25ft of equipment	
	Light and receptacle in attic access	
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Service Change		
	Correct size and type of wire sunlight resistant and wet location	
	Installed per manufacture and listed	
	Correct size Switch gear per plan	
	Clearance over roof, road, and pool	
	Secure riser above panel	
	Breakers to match panel type	
	Check existing Ufer, ground rod, or water pipe in place as Grounding Electrode	
	Size Grounding Electrode conductor per 250.66	
	Bond water, gas, steel	
	Label breakers and identify emergency circuit Address service	
	Check torque on bussing and anchor bolts on enclosure	
	Test on any new Breaker over 1000 amp 277/480	
	Maximum 6 disconnects at 1 service	
	Conductors ran from lateral underground shall be protected	
	Verify field markings on Series rated equipment	

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