



MASTERS ELECTRICAL SERVICES LTD. 4239 W. IH-10: SEGUIN, TEXAS 78155

Power-Up March's News



TOGETHER EVERYONE ACHIEVES
MORE!

Masters Electrical would like to remind everyone that Sunday, March 12 is daylight savings so let's turn our clocks forward an hour.

Also, IEC San Antonio is hosting their annual Barbecue Cook-Off and Apprentice Wire-Off on Saturday, March 25th from 11:00 am – 6:00 pm. For more detail please look in the HR section on page eight.

Don't forget to view page (9) for more important information from our Human Resource Department.

Company Slogan

“No matter what industry you're in nothing happens till the power goes on.”

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Our Core Value!

Motivation

Attitude

Safety

Teamwork

Excellence

Relationship

Service

Project List

New Jobs

| | | |
|------------------------------------|--|--------------------|
| • COUNTY LINE VET CLINIC | 1445 S. WALNUT NEW BRAUNFELS, TX 78130 | MIGUEL VELOZ |
| • SEGUIN ELK'S LODGE | 1331 C.H. MATTHIES JR, SEGUIN, TX 78155 | RUBEN RODRIGUEZ |
| • ROGER M DREYER MEMORIAL T-HANGER | GONZALES, TX. 78629 | RAFAEL SILVESTRE |
| • LEIF JOHNSON FORD | 15301 IH 35 BUDA, TX 78610 | DONNIE ALSOBROOKS |
| • HEALTH BY DESIGN | 7003 S NEW BRAUNFELS AVE, SA TX 78223 | BRIAN BROOKS |
| • STARBUCKS SHELL | 3100 BROADWAY SAN ANTONIO, TX 78209 | |
| • CIBOLO VALLEY WWTP | WILEY ROAD BULVERDE TX | FABIAN FISCAL |
| • MUSCO HIDDEN VALLEY | 125 MABEL JONES DR. CANYON LAKE, TX 78133 | ROBERTO FRAIRE JR. |
| • MUSCO JUMBO EVANS | 101 JUMBO EVANS BLVD SPRING BRANCH, TX 78070 | ROBERTO FRAIRE JR. |
| • STINSON MUNICIPAL AIRPORT | 1519 ASHLEY RD SAN ANTONIO, TX 78214 | SPENCER DWYER |

Current Jobs

| | | |
|--|---|-------------------|
| • DISTRICT 3 COMMUNITY CENTER | 3303 PECAN VALLEY DR SA, TX 78210 | SPENCER DWYER |
| • EOG RESOURCES | VARIOUS LOCATIONS | THOMAS NOLL |
| • SOUTHERN M RANCH | 4239 GOLDFINCH RD. PEARSALL TX 78601 | RUBEN GUERRA |
| • SEGUIN ANIMAL SHELTER | 555 FRED BYRD SEGUIN, TX 78155 | DONNIE ALSOBROOKS |
| • WEST RIDGE MS | 9201 SCENIC BLUFF DRIVE, AUSTIN TX | RUBEN RODRIGUEZ |
| • NORTHWEST VISTA PARKING LOT EXPAN | 3535 N. US HIGHWAY 281 SUITE 101 SA, TX 78259 | ABEL HAWKINS |
| • SAN PEDRO MUSCO | 6102 SAN PEDRO SAN ANTONIO, TX 78216 | ROBERTO FRAIRE JR |
| • AND CALL CENTER | 1045 CHEEVER BLVD SAN ANTONIO, TX 78217 | JAIME PAWELEK |
| • IDEA NAJIM (WW WHITE) | 926 S. WW WHITE RD. SAN ANTONIO, TX 78220 | LONNIE HARPER |
| • IDEA EWING HALSELL | 2523 W. ANSLEY BLVD. SAN ANTONIO, TX 78224 | ROBERTO FRAIRE SR |
| • NEW BRAUNFELS RECREATION CENTER | 345 LANDA STREET NEW BRAUNFELS TX 78130 | PERRY WINCHESTER |
| • DOMINION SPRINGS PLAZA | 23534 IH 10 WEST SAN ANTONIO, TX 78257 | SHAWN SHAW |
| • TLU C.M. WESTON PERFORMING ARTS | 510 FLEMING SEGUIN, TX 78155 | CHRIS KOEPEL |
| • CROSSPOINT | 301 YUCCA SAN ANTONIO, TX 78070 | JAIME PAWELEK |
| • SMITHSON VALLEY HS ATHLETIC ADD/RENO | 14001 TEXAS HWY 46 – SPRING BRANCH, TX 78070 | STEPHEN URESTI |
| • LAURELWOODS COMMON SHELL & T1 | 1824 WEST SLAUGHTER LANE, AUSTIN TX 78748 | RAFAEL SILVESTRE |

Project List

Recently Completed Jobs

| | | |
|---|---|--|
| • SEGUIN PUBLIC LIBRARY | 313 WEST NOLTE ST. SEGUIN TX 78155 | CODY SMITH |
| • LOCKHART ISD NEW ELEMENTARY | FM 1854 LYTTON SPRINGS, TX 78616 | SCOTT BARKER |
| • NEW BRAUNFELS CITY HALL | 955 N. WALNUT NB, TX 78130 | LONNIE HARPER |
| • MSI MISC STEEL INDUSTRIES | 400 BNTON CREEK RD, KYLE, TX 78640 | MIGUEL VELOZ |
| • RAST IRON WORKS | 6430 RAILWAY, SAN ANTONIO TX 78218 | SHAWN SHAW |
| • BUA REMODEL | 7838 BARLITE BOULAVARD SAN ANTONIO TX | JAIME PAWELEK |
| • CSMI | NORTH HEIDEKE ST. | CHRIS KOEPEL |
| • GONZALES ISD PH 2 | 926 St. LAWRENCE ST. SA, TX 78629 | RAFAEL SILVESTRE |
| • PLEASANTON MAIN ST | MAIN ST PLEASANTON, TX 78064 | JOHNIE RIDDLE |
| • NISD CAFÉ REMODELS CODY & LEON VALLEY | 10403 DUGAS DR. 78245 & 7111 H | BRIAN BROOKS & STEPHEN URESTI |
| • BEXAR METRO GENERATOR REPLACEMENT | 9320 SE LOOP 410 SAN ANTONIO , TX 78223 | FABIAN FISCAL |

Thank you to our foremen in the field and every employee who has helped to complete these jobs. Masters Electric appreciates your hard work! 😊😊

Project Spotlight



Masters has recently completed the remodel project of Crosspoint “The Summit” in collaboration with GW Mitchell Construction. The facility is located at 301 Yucca in San Antonio and has been serving the community since 1963, but the building was originally built in the early 1920s as a Nunnery.

Crosspoint has provided a wide array of services to tens of thousands of veterans, state hospital patients and formerly incarcerated men and women as well as individuals experiencing issues related to homelessness, mental illness, mental disability, and financial responsibility. Whenever there has been a need Crosspoint has found a way to assist through mental health counseling, substance abuse treatment, life skills enhancement and/or transformational residential services. Through these services, Crosspoint has been able to help thousands of our citizens once again be productive members of the community.

Jaime Pawelek led the Masters team from start to finish and there were several challenges along the way. Masters Electrical has rewired the entire third floor, installing previously missing grounding conductors and all new plugs. We also installed new lights for the offices, added all new GFI near sinks, and added power to the new ac units.

Masters would like to thank GW Mitchell for this opportunity, as well as Jaime and the Masters team for another successfully completed project.

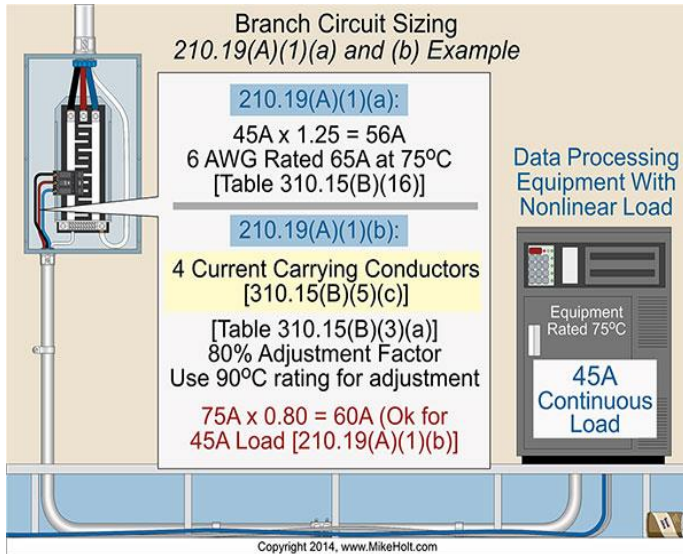


EC&M News

Q&A - Sizing Branch-Circuit Conductors

Q. What is the Code requirement for sizing branch-circuit conductors?

A. Branch-circuit conductors must have an ampacity of not less than the maximum load to be served. Conductors must be the larger of



210.19(A) (1) (a) or (b):

(a) Conductors must be sized no less than 125% of the continuous loads, plus 100% of the non-continuous loads, based on the terminal temperature rating ampacities as listed in Table 310.15(B)(16).

(b) Conductors must be sized to the maximum load to be served after the application of any adjustment or correction factors.

Exception: If the assembly and the overcurrent device are both listed for operation at 100% of its rating, the conductors can be sized at 100% of the continuous load.

Equipment suitable for 100% continuous loading is rarely available in ratings under 400A. See the definition of “Continuous Load” in Art. 100. See Sec. 210.20 for the sizing requirements for the branch-circuit overcurrent device for continuous and non-continuous loads. Here’s an

example problem that shows how to apply these Code requirements. What size branch-circuit conductors are required for a 4-wire circuit of a 45A nonlinear continuous load, if the equipment terminals are rated 75°C? Since the load is 45A continuous, the conductors must be sized to have an ampacity of not less than 56A (45A x 1.25). According to the 75°C column of Table 310.15(B) (16), a 6 AWG conductor is suitable, because it has an ampere rating of 65A at 75°C. This satisfies the portion of the calculation discussed in Sec. 210.19(A) (1) (a). For 210.19(A) (1) (b), we need to address ambient temperature and conductor bundling. Because the neutral in this example is considered a current-carrying conductor [310.15(B) (5) (c)], there are four current-carrying conductors. Table 310.15(B) (3) (a) requires an adjustment factor of 80% for this example.

6 AWG rated 75A at 90°C x 0.80 = 60A after adjustment factors, which is adequate for the 45A load (**Figure**). If we’d selected an 8 AWG rated 55A at 90°C, based on the 45A load, it would be too small for the load after applying the adjustment factor (55A x 0.80 = 44A).

Informational Note 4: To provide reasonable efficiency of operation of electrical equipment, branch-circuit conductors should be sized to prevent a voltage drop not to exceed 3%. In addition, the maximum total voltage drop on both feeders and branch circuits shouldn’t exceed 5%. Many believe the NEC requires conductor voltage drop, as per Informational Note 4 to be applied when sizing conductors. Although this is often a good practice, it’s not a Code requirement because Informational Notes are only advisory statements [90.5(C)].

The NEC doesn’t consider voltage drop to be a safety issue, except for sensitive electronic equipment [647.4(D)] and fire pumps [695.7]. These materials are provided to us by Mike Holt Enterprises in Leesburg, Fla. To view Code training materials offered by this company, visit www.mikeholt.com/cod

Employee Spotlight

Employee of the Month



Bradley Gauthier

Bradley Gauthier has been employed by Masters Electrical Services, LTD since February 2013 and has his apprenticeship license. He began work in the electrical trade with the encouragement of his uncles who currently have their Masters Licenses. Bradley was born and raised in LaVernia but currently resides in San Antonio with his two children and four month old grandchild.

Bradley's hobbies consist of going to the gun range, playing on his Xbox one, and restoring older vehicles like the 1970 F100 he currently owns. He also likes to listen to old rap, rock music and prefers to watch college football over the NFL. When with his father or immediate family quality time is what matters the most to him. It has been tradition that his family go to dinner regularly and try new restaurants.

Bradley Gauthier is an asset and we are looking forward to his continued employment here at Masters Electrical Services, LTD.

Safety News

A GOOD READ

Court Finds 'Questions of Fact' in Electric Shock Case

The New York Court of Appeals this November disagreed that a worker who sustained a shock on a ladder was entitled to summary judgment.

An employee of New York-based Knight Electrical Services Corp., Justin Nazario, was injured in October 2009 while removing old light fixtures at a property owned by 222 Broadway L.L.C. He was standing on the third or fourth rung of a 6-foot-tall wooden ladder when he received an electric shock from an exposed wire, according to court records.

He was still holding the ladder, which remained in an open and locked position because it was “not secured to something stable,” when he fell to the floor.

He filed a claim under New York's Labor Law 240 and 241, or the Scaffold Law, against 222 Broadway, which then filed a contractual indemnification claim against Knight Electrical Services Corp., according to a report from Business Insurance.

Nazario's motion for partial summary judgment on his labor law claim was originally denied, while 222 Broadway's motion for summary judgment on its contractual indemnification claim was granted by New York State Supreme Court Justice Geoffrey D. Wright in April 2014.

Then in January 2015, the New York Supreme Court Appellate Division's 1st Judicial Department ruled that Justice Wright erred in dismissing Nazario's labor law claim.

“It is not a requirement that a worker injured by a fall from an elevated height demonstrate that the safety device was defective or failed to comply with safety regulations,” the appellate court's ruling states. “The worker's burden is to show that the absence of adequate safety devices, or the inadequacy of the safety devices provided to protect the worker from a fall, was a proximate cause of his or her injuries.”

Fast forward to Nov. 21, 2016. The Court of Appeals disagreed and found that plaintiff was not entitled to summary judgment on his Labor Law §240 claim, remitting the case back to the Appellate Division and stating that questions of fact existed as to whether the ladder plaintiff was using failed to provide proper protection, and whether plaintiff should have been provided with additional safety devices. According to a release from Traub Lieberman Straus & Shrewsbury LLP, this appears to be a departure from prior case law such as *Vukovich v 1345 Fee, LLC*, 61 A.D.3d 533 (1st Dept 2009) (summary judgment granted on Labor Law § 240 where plaintiff fell from an unsecured ladder after receiving electric shock while working as a pipe fitter), and suggests that the First Department will now require plaintiffs to show that the safety device provided was either defective or that the plaintiff required additional safety devices to conduct the work they were performing at the time of the incident.

Hot Topic

From Human Resources

IEC BBQ Cook off-

IEC San Antonio is hosting their annual Barbecue Cook-Off and Apprentice Wire-Off **Saturday, March 25th from 11:00 am – 6:00 pm.**

The Apprentice of the Year Wire-Off competition begins early Saturday morning. This competition is open to all fourth year apprentices with less than 6 years in the trade. The winner of this competition will be representing IEC San Antonio at the National Apprentice of the Year Competition in Phoenix, AZ in October. We hope to see a few of our apprentices competing again one day!

Children and spouses are welcome! In fact the Kid Zone includes: **Bounce House, a Face Painter, Horseshoe's, Bean Bag Toss, a Petting Zoo and Pony Rides!!**

There will also be raffle prizes, a liquor chest, and the cook-off awards ceremony.

We have reserved a number of tickets for adults and children, but they are first-come, first-serve!

Please call Alyssa or Missy at 830-303-6330 if you would like tickets for this fun event! Remember tickets are limited, so call us early!

March's Birthdays

- **Rosendo Orozco** 3/01
- **Richard Reeves** 3/01
- **Travis Lohmeyer** 3/07
- **Matthew Province** 3/19
- **Derek Gilbreth** 3/26



Happy Birthday from your family here at
Masters Electrical Services!