

SINGLE-LINE DIAGRAM NOTES

- VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER, POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER, AND OTHER ITEMS
- GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTIC THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND A INDICATED ON DRAWINGS.
- MAKE NECESSARY INSPECTIONS OF EXISTING SITE AND REQUIRED FOR THIS WORK AND MAKE ALLOWANCE BEFORE SUBMITTING BID. VERIFY WORK I TELEPHONE COMPANY
- IMUM UNLESS SPECIFICALLY
- TION SHALL BE 600 VOLT, THHN/THWN
- LAMINATED PHENOLIC BLOCK-ON-WHITE (UNLESS NOTED LAM). TES SECURED TO EQUIPMENT WITH ADHESIVE AND SCREWS AND SC TERS IN PANEL BOARDS AND DISTRIBUTION BOARDS FOR EACH DEVICE NG FOUIPMENT CONTROLLED, LETTERING SHALL BE 1/8" HIGH
- ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
- AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIN IN ALLOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
- ALL WIRING SHALL BE IN CONDUIT, E.M.T OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS AND WITH GREEN EQUIPMENT GROUNDING CONDUCTORS.

SWITCHGEAR AND CONTROL EQUIPMENT NOTES

- PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM ONE OF THE TWO NAL ACCOUNTS VENDORS (SEE SHEET E4.2 SECTION C16440, PANELBOARDS)
 IDING SIEMENS OR SQUARE-D EQUIPMENT. SUBSTITUTIONS ALLOWED.
- PURCHASE CONTROL PANEL 'CFA-T500' FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED), ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
- CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D, AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
- ALL BREAKERS AND PANELS SHALL BE SIEMENS OR SQUARE-D, DEPENDING ON THE CHICK-FIL-A REGION THE STORE IS LOCATED.
- TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE TYSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TYSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANE. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND SHALL NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TYSS OR SURGE SUPPRESSOR DEVICE.

CONDUIT AND CONDUCTORS SCHEDULE 20/1 20/3 25/1 25/2 30/2 30/3 40/1 40/2 40/3 50/1 50/2 50/3 60/1 200/3 225/3 250 THW 300 THW 300/3 350 THW 400 THW 300/3 350/3 500 THW 500 THW 3/0 THW 3/0 THW 350 THW 500 THW 600 THW 400 THW 350 THW One 3.00 3.50 3.50 3.50 One 3.50 3.50 3.50 One 3.50 3.50 3.50 One 3.50 3.50 3.50 Two 2.50 2.50 2.50 2.50 Two 3.00 3.00 3.00 Two 3.00 3.00 3.00 Two 3.50 3.50 3.50 3.50 350/3 400/3 400/3 600/3 600/3 800/3 800/3 1000/3 Two 4.00 4.00 4.00 4.00 4.00 4.00 4.00 Three 3.50 3.50 3.50 3.50 3.50 3.50 1200/3 1600/3

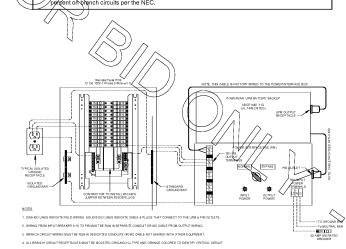
Conductors are rated at 600 volt or below and are to be copper.

NEC Table 310.15(B)(16) - formerly Table 310.16 - is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.

NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor. Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders or 3 phase loads not requiring a neutral The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be gdro. Deed by the Installer to have less than a three percent voltage drop on feeders and five profered not Pupinc circuits per the NEC.



PANEL-POS AND LAPC/PIB WIRING DIAGRAM

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SEAL:
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SIGNATURE AND SEAL APPEAR BELOW.

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