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EXTRACTS FROM AN ENGINEER'S NOTE BOOK

STANDARD SYMBOLS FOR WIRING PLANS AS ADOPTED AND RECOMMENDED BY THE NATIONAL ELECTRICAL CONTRACTORS' ASSOCIATION OF THE UNITED STATES.

| Ceiling Outlet, Electric only. Numeral in center indicates number of standard 16 C. P. Incandescent Lamps. | | |
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| 💭 💈 Ceiling Outlet; Combination. 💈 indicates 4-16 C. P. Standard Incandescent Lamps and 2 Gas Burners. | | |
| 🕂 Bracket Outlet; Electric only. Numeral in center indicates number of Standard 16 C. P. Incandescent Lamps. | | |
| 1-27 # Bracket Outlet, Combination. 1/2 indicates 4-16 C. P. Standard In | 🕂 🚆 Bracket Outlet, Combination. 🏄 indicates 4-16 C. P. Standard Incandescent Lamps and 2 Gas Burners. | |
| Wall or Baseboard Receptacle Outlet. Numeral in center indicates number of Standard 16 C. P. Incandescent Lamps. | | |
| Fioor Outlet. Numeral in center indicates number of Standard 16 C. P. Incandescent Lamps. | | |
| 🛛 Outlet for Outdoor Standard or Pedestal; Electric only Numeral indicates number of Stand. 16 C. P. Incan. Lamps. | | |
| 👷 Outlet for Outdoor Standard or Pedestal; Combination. findicates 6-16 C. P. Stand. Incan. Lamps; 6 Gas Burners. | | |
| Drop Cord Outlet. | and the second sec | |
| One Light Outlet, for Lamp Receptacle. | | |
| Arc Lamp Outlet. | | |
| Special Outlet, for Lighting, Heating and Power Current, as described in Specifications. | | |
| Ceiling Fan Outlet. | Constrainty Andrews and | |
| S. P. Switch Outlet. | | |
| C2 D. P. Switch Outlet. Show as many Sym | bols as there are Switches. Or in case of a very | |
| 1 arge group of Sw | ritches, indicate number of Switches by a Romin | |
| numeral, thus; S' XII; meaning 12 Single Pole Switches. | | |
| Describe Type of Switch in Specifications, that is, | | |
| St Automatic Door Switch Outlet. Flush or Surface Pu | ish Button or Snap. | |
| S [*] Electrolier Switch Outlet. | | |
| Meter Outlet. | | |
| Distribution Panel. | | |
| Junction or Pull Box. | | |
| Motor Outlet; Numeral in center indicates Horse Power. | | |
| Motor Control Outlet. | · · · · · · · · · · · · · · · · · · · | |
| Transformer. | Suggestions in connection with Stan- | |
| Main or Feeder run concealed under Floor. | dard Symbols for Wiring Plans | |
| Main or Feeder run concealed under Floor above. | uuru symbols for wiring rians. | |
| Main or Feeder run 'exposed. | To d'acte and the set of the set of the | |
| Branch Circuit run concealed under Floor. | Indicate on plan, or describe in specifications, | |
| Branch Circuit run concealed under Floor above. | It is important that ample space be allowed | |
| Branch Circuit run exposed. | for the installation of mains, feeders, branches | |
| Pole Line | and distribution panels. | |
| Piere | It is desirable that a key to the symbols used | |
| · Kisel. | If mains, feeders, branches and distribution | |
| | panels are shown on the plans, it is desirable | |
| Telephone Outlet; Private Service. | that they be designated by letters or numbers. | |
| Telephone Outlet; Public Service. | For the convenience of those making wiring | |
| Bell Outlet. | plans the National Electrical Contractors' Asso- | |
| D' Buzzer Outlet. | marking stamps of these standard symbols | |
| De Push Button Outlet; Numeral indicates number of Pushes. | These will be found of great assistance to those | |
| - Annunciator; Numeral indicates number of Points. | preparing wifing plans and will be furnished | |
| - Speaking Tube. | for \$ per set (cost of making) on | |
| -C Watchman Clock Outlet. | application to the Secretary, Utica, N. Y | |
| | | |
| - Master Time Clock Outlet. | | |
| -D Secondary Time Clock Outlet. | | |
| Door Opener. | | |
| Special Outlet; for Signal Systems, as described in Specification | S. | |
| IIII Battery Outlet | | |
| Islela Darreth Onrier | | |
| (Circuit for Clock, Telephone, Bell or other Service, run | under Floor, concealed. | |
| Kind of Service wanted ascertained by Symbol to which line connects. | | |
| Circuit for Clock, Telephone, Bell or other Service, run under Floor above concealed. | | |
| Kind of Service wanted ascertained by Symbol to which line connects. | | |
| NOTE-If other than Standard 16 C. P. Incandescent Lamps are desired. Specifications should describe | | |

Capacity of Lamp to be used.

WIRE TABLE.

The following table gives the circular mils of each size wire commonly used in wiring construction:-

| | Construction of the second |
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| Wire No. | Wire No. |
| 0000 = 211,600 circular mils. | 9 = 13,594 circular mils |
| 000 = 167.805 circular mils. | 10 = 10,381 circular mils |
| 00 = 133.070 circular mils. | II = 8,234 circular mils |
| 0 = 105,592 circular mils. | 12 = 6,529 circular mils |
| I = 83.694 circular mils. | 13 = 5,178 circular mils |
| 2 = 66,373 circular mils. | \cdot 14 = 4,106 circular mils |
| 3 = 52,634 circular mils. | 15 = 3,256 circular mils |
| 4 = 41,742 circular mils. | 16 = 2,582 circular mils |
| 5 = 33,102 circular mils. | 17 = 2,048 circular mils |
| 6 = 26,250 circular mils. | 18 = 1,624 circular mils |
| 7 = 20,816 circular mils. | 19 = 1,252 circular mils |
| 8 = 16,500 circular mils. | 20 = 1,021 circular mils |