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ELECTRICAL NOTES	SYMBOL LEGEND
<p>1. GENERAL PROVISIONS</p> <p>1.1. GENERAL: PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM.</p> <p>1.2. CODES AND STANDARDS: CONFORM TO THE REQUIREMENT OF ALL GOVERNING CODES AND STANDARDS, INCLUDING THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE.</p> <p>1.3. VISIT THE SITE OF PROPOSED PROJECT TO BECOME FAMILIAR WITH THE WORK CONDITIONS AND NATURE OF WORK, PRIOR TO SUBMITTING BIDS. NOTIFY ENGINEER OF DISCREPANCIES OR OMISSIONS FOR INTERPRETATION OR DECISION. SUCH DECISION SHALL BE FINAL.</p> <p>2. BASIC MATERIALS AND METHODS:</p> <p>2.1. CONDUIT - INTERIOR WORK: PROVIDE CONCEALED ELECTRICAL METALLIC TUBING. IT IS ACCEPTABLE TO USE METAL CLAD CABLE (MC CABLE) AS LONG AS THE MC CABLE IS SUPPORTED, SECURED, DESIGNED AND INSTALLED SUCH THAT THE CABLE IS NOT SUBJECT TO PHYSICAL DAMAGE THE CABLE AND COMPLIES WITH ARTICLE 330 OF THE 2011 NATIONAL ELECTRIC CODE. MC CABLE SHALL NOT BE USED WHERE SUBJECT TO PHYSICAL DAMAGE.</p> <p>2.2. EXTERIOR BELOW GRADE--SCHEDULE 40 PVC UNDERGROUND RESISTANT, EXTERIOR EXPOSED-- SCHEDULE 40 GR.</p> <p>2.3. OUTLET BOXES: 4" X 4" STEEL W/PLASTER RINGS SIZED IN ACCORDANCE WITH N.E.C. FOR CONCEALED INTERIOR WIRING, CAST FERROUS OUTLET BOXES WITH INTEGRAL HUBS FOR EXPOSED AND EXTERIOR DEVICES</p> <p>2.4. WIRE: COPPER, THHN /THWN DUAL RATED.</p> <p>2.5. WIRING DEVICES - SPECIFICATION GRADE DEVICES AND PLATES WITH IVORY FINISH, EXCEPT MATCH paneled wall with DEVICES AND PLATES OF SIMILAR COLOR.</p> <p>2.5.1. RECEPTACLES: 20 AMPS, 120V, 2 POLE, 3 WIRE, GROUNDING TYPE OR ISOLATED GROUND TYPE AS SHOWN ON DRAWINGS.</p> <p>2.5.2. SWITCHES: 20 AMPS, 120/277V.</p> <p>2.6. EACH MULTIWIRE BRANCH CIRCUIT MUST HAVE A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. PROVIDE MULTI-WIRE CIRCUIT BREAKERS WITH HANDLE KEYS IDENTIFIED FOR THE PURPOSE, OR BREAKERS WITH A COMMON INTERNAL TRIP.</p> <p>3. LIGHTING FIXTURES:</p> <p>3.1. FURNISH LIGHTING FIXTURES AS REQUIRED BY OWNER AND AS INDICATED ON DRAWINGS. FURNISH ALL NECESSARY MOUNTING HARDWARE AND LAMPS.</p> <p>3.2. ALL RECESSED INCANDESCENT FIXTURES SHALL SATISFY THE REQUIREMENTS OF N.E.C. 410.55.</p> <p>4. PANELS:</p> <p>4.1. ALL PANELS SHALL BE U.L. RATED AND OF THE SAME MANUFACTURER. PROVIDE SIZE AND TYPE AS INDICATED ON DRAWINGS. PANELS SHALL HAVE FULL SIZE NEUTRAL BUS AND FULL SIZE GROUND BUS.</p> <p>5. GROUNDING:</p> <p>5.1. PROVIDE CONTINUOUS GROUNDING SYSTEM IN ACCORDANCE WITH SECTION 250. AND AS INDICATED. PROVIDE GROUND CONNECTOR IN ALL RACEWAYS.</p> <p>5.2. PROVIDE AN EXTERNAL ACCESSIBLE INTERSYSTEM BONDING TERMINAL FOR THE GROUNDING AND BONDING OF COMMUNICATIONS SYSTEMS (TELOC, CATV, SAT, ETC) AT THE SERVICE EQUIPMENT AND DISCONNECTING MEANS.</p> <p>6. IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF ARCHITECT/ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT/ENGINEER WILL REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.</p> <p>7. THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS BEFORE SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE HIMSELF WITH THE PLANS.</p> <p>8. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED, HOWEVER, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER AND DEPTH OF EXISTING UTILITIES.</p> <p>9. COMPLETION REQUIREMENTS: RECORD DRAWINGS</p> <p>9.1. WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:</p> <p>9.2. A SINGLE LINE DIAGRAM OF THE ELECTRICAL DISTRIBUTION SYSTEM</p> <p>9.3. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.</p> <p>10. COMPLETION REQUIREMENTS: MANUALS</p> <p>10.1. WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, AN OPERATING MANUAL AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER TO INCLUDE, AT A MINIMUM, THE FOLLOWING:</p> <p>10.2. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.</p> <p>10.3. OPERATIONS MANUAL AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.</p> <p>10.4. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.</p>	<p>(NOTE: NOT ALL SYMBOLS SHOWN ON LEGEND ARE NECESSARILY USED ON FLOOR PLANS)</p> <p>1'x4' FLUORESCENT FIXTURE</p> <p>2'x2' FLUORESCENT FIXTURE</p> <p>2'x2' NIGHTLIGHT</p> <p>2'x4' FLUORESCENT FIXTURE CEILING</p> <p>EMERGENCY LIGHT FIXTURE CEILING</p> <p>RECESSED DOWNLIGHT</p> <p>EXIT LIGHT</p> <p>SWITCH, MOUNTING HT. +48" TO BOTTOM</p> <p>SWITCH, 3-WAY SWITCH - OCCUPANCY</p> <p>SENSOR MANUAL PUSH STATION</p> <p>TELEPHONE/DATA</p> <p>USB OUTLET</p> <p>DUPLEX RECEPTACLE</p> <p>DOUBLE DUPLEX RECEPTACLE</p> <p>GFI DUPLEX RECEPTACLE DUPLEX</p> <p>SPECIAL PURPOSE RECEPTACLE DUPLEX</p> <p>RECEPTACLE, GROUND FAULT</p> <p>CEILING MOUNTED RECEPTACLE</p> <p>DISCONNECT SWITCH</p> <p>FUSED DISCONNECT SWITCH</p> <p>JUNCTION BOX</p> <p>FAN MOTOR</p> <p>DOOR BELL</p> <p>THERMOSTAT</p> <p>SMOKE DETECTOR</p> <p>ABBREVIATIONS</p> <p>A, AMP AMPERE</p> <p>AFF HEIGHT ABOVE FINISHED FLOOR</p> <p>AHU AIR HANDLING UNIT</p> <p>EF EXHAUST FAN</p> <p>EWK ELECTRIC WATER COOLER</p> <p>EWK ELECTRIC WATER HEATER</p> <p>FAFP FIRE ALARM CONTROL PANEL</p> <p>FAAP FIRE ALARM ANNUNCIATOR PANEL</p> <p>G, GFCI GROUND FAULT CIRCUIT INTERRUPTER</p> <p>IG ISOLATED GROUND</p> <p>NF NON-FUSED</p> <p>NL NITE-LIGHT, NON-SWITCHED FIXTURE</p> <p>P POLE</p> <p>PH PHASE</p> <p>SP SURGE PROTECTION</p> <p>VA VOLT AMPERE (WATTAGE)</p> <p>WP WEATHERPROOF ENCLOSURE - PROVIDE IN-USE COVER</p> <p>WH WATER HEATER</p> <p>HWH HOT WATER HEATER</p>

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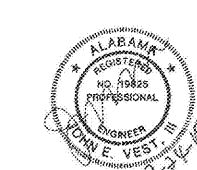
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DALLAS, TEXAS 75207
TEL: 214-638-4300

ARCHITECT/ENGINEER

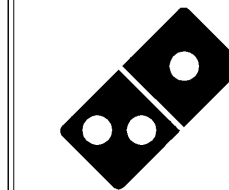


MPW ENGINEERING, LLC
110 W. 7TH STREET - SUITE 600 - DALLAS, TX 75207
(214) 502-4008 • (214) 502-4007 FAX



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ARCHITECTURAL PROJECT NO.: 385-071
DRAWN BY: DJA
CHECKED BY: JSR

DOMINO'S PIZZA
30 FRANK LLOYD WRIGHT DRIVE
ANN ARBOR, MI 48105
TEL: 313.910.8560



Domino's

DOMINO'S PIZZA
#5879
3871 AIRPORT BLVD.
MOBILE, AL 36608

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