

ELECTRICAL SPECIFICATIONS

PART I - GENERAL

1.01 GENERAL PROJECT REQUIREMENTS

A. ALL DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING DIVISION 1 SPECIFICATION SECTIONS AND GENERAL AND SUPPLEMENTARY CONDITIONS, SHALL APPLY TO THIS SECTION.

B. RELATED DOCUMENTS: ARCHITECTURAL SPECIFICATIONS, LIGHTING FIXTURE SPECIFICATIONS INCLUDED IN OTHERS DOCUMENTS, GENERAL, SPECIAL, AND SUPPLEMENTARY CONDITIONS, AND SIMILAR DOCUMENTS SHALL FORM A PART OF THESE SPECIFICATIONS.

C. SCOPE OF WORK: PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND CONTRACTOR'S SERVICES NECESSARY FOR COMPLETE AND SAFE INSTALLATION OF ELECTRICAL WORK IN CONFORMITY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND/OR DESCRIBED IN THESE SPECIFICATIONS. D. SITE CLEANLINESS: KEEP SITE FREE FROM SURPLUS MATERIAL, TOOLS, AND RUBBISH AT ALL TIMES DURING CONSTRUCTION PERIOD AND, UPON COMPLETION, LEAVE SITE IN CLEAN CONDITION.

E. DAMAGE: REPAIR ANY DAMAGE CAUSED TO WORK OF OTHER TRADES AND ANY OTHER DAMAGE CAUSED BY THIS SECTION TO NEADORORIGINAL CONDITION.

F. PASSAGE OF EQUIPMENT: CHECK THE DIMENSIONS OF EQUIPMENT OF THIS SECTION TO ENSURE THAT SUCH EQUIPMENT CAN PASS THROUGH THE NECESSARY AREAS TO REACH ITS ULTIMATE INSTALLED LOCATION. INCLUDE IN BID COSTS FOR ALL WORK REQUIRED, INCLUDING ANY WORK REQUIRED TO MOVE THE EQUIPMENT THROUGH THE SITE TO THIS FINAL LOCATION AND ANY DISMANTLING/RE-ASSEMBLY.

G. GUARANTEE: CONTRACTOR SHALL GUARANTEE THAT ALL PORTIONS OF THE WORK ARE IN ACCORDANCE WITH CONTRACT REQUIREMENTS. GUARANTEE ALL WORK AGAINST FAULTY AND IMPROPER MATERIAL AND WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER. IF GUARANTEES OR WARRANTIES FOR LONGER PERIODS ARE SPECIFIED BY CONTRACT, SUCH LONGER TERM SHALL APPLY.

H. PERMITS AND INSPECTIONS: CONTRACTOR SHALL SECURE ALL APPROVALS AND PAY ALL FEES FOR WORK INSTALLED AND DELIVER CERTIFICATE TO OWNER, INCLUDING ALL COSTS IN BASE BID.

I. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY ALLOWABLE WORKING HOURS, EMPLOYEE PARKING AREAS, MATERIAL DELIVERY AND STORAGE REQUIREMENTS, AND REQUIREMENTS FOR DEMOLITION AND REMOVAL OF CONSTRUCTION DEBRIS (IF ANY) FOR THIS PROJECT. GENERAL CONTRACTOR OR ARCHITECT OR THE CONSULTANT FOR THE DURATION OF THE BID CONTRACT IS REQUIRED.

J. DURING PREPARATION OF BID, CONTRACTOR MAY DISCOVER ERRORS IN THESE DOCUMENTS OR DISCREPANCIES BETWEEN THESE DOCUMENTS AND THOSE OF OTHER TRADES. IN CASE OF DISCREPANCIES, CONTRACTOR IS RESPONSIBLE FOR BRIDGING THE GREATER QUANTITY OR HIGHER QUALITY ITEMS IF NO SUFFICIENT RESOLUTION OF THE DISCREPANCY IS DETERMINED PRIOR TO SUBMITTING BID.

K. RECORD DRAWINGS: UPON PROJECT COMPLETION, DELIVER TO OWNER ONE SET OF REPRODUCED DRAWINGS AND ONE SOUND SET OF BLUEPRINTS AND PANEL SCHEDULES SHOWING ALL WORK AS ACTUALLY INSTALLED.

1.02 DRAWINGS AND TERMINOLOGY

A. DRAWINGS AND SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES, WORDS OR PHRASES SUCH AS THE CONTRACTOR SHALL, "SHALL BE," "FURNISH," "PROVIDE," "X," "ANY," "THE AND" "ALL" MAY BE OMITTED FOR BREVITY.

B. WORDS AND/OR PHRASES USED IN THESE DOCUMENTS ARE DEFINED AS FOLLOWS:

1. FURNISH OR PROVIDE: TO SUPPLY, INSTALL, AND CONNECT COMPLETELY AND READY FOR SAFE AND REGULAR OPERATION OF PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY NOTED OTHERWISE.
2. "INSTALL TO ERECT, MOUNT, AND CONNECT COMPLETE WITH ANY NECESSARY RELATED ACCESSORIES (WHETHER SPECIFICALLY INDICATED OR NOT).
3. "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE, AND DELIVER COMPLETE WITH ANY NECESSARY RELATED ACCESSORIES.
4. "WORK": LABOR, MATERIALS, EQUIPMENT, AND ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.
5. "CONTRACTOR": ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
6. "PROJECT MANAGER": THE ENTITY/PROFESSIONAL, RESPONSIBLE FOR COORDINATION AND COMPLETION OF ALL REQUIRED CONSTRUCTION WORK FOR THIS PROJECT. THE GENERAL CONTRACTOR OR ARCHITECT OR OTHER AUTHORITY AS DESCRIBED IN THE CONTRACT.
7. "OWNER": THE OWNER OR TENANT THAT IS THE ULTIMATE RECIPIENT OF THE CONSTRUCTION WORK PERFORMED.
8. "WIRING": RACEWAY, FITTINGS, CONDUCTORS, BOXES AND RELATED ITEMS.
9. "CONCEALED": INSTALLED EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, IN FURRED SPACES, WITHIN COMPLETE PARTITION WALLS, OR IN CONCEALED CHASES, TRENCHES, IN ENCLOSEURES, OR AS DEFINED IN NEC ARTICLE 100.
10. "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE, OR AS DEFINED IN NEC ARTICLE 100.
11. "EQUAL": ACCEPTABLE EQUIVALENT IN MATERIALS, WEIGHT, SIZE, DESIGN, OPERATION, AND EFFICIENCY OF SPECIFIED PRODUCT. FINAL DETERMINATION OF ACCEPTABLE EQUIVALENCY SHALL BE MADE BY ENGINEER WHEN AN ITEM IS INDICATED AS "APPROVED EQUAL."

C. WHERE TERMS ARE NOT DEFINED IN THESE DOCUMENTS, THE DEFINITIONS IN NEC ARTICLE 100 SHALL TAKE PRECEDENCE.

1.03 REFERENCE STANDARDS

A. COMPLY WITH ALL PUBLISHED CODES, SPECIFICATIONS, STANDARDS, TESTS, OR RECOMMENDED METHODS OF TRADE, INDUSTRY OR GOVERNMENT ORGANIZATIONS, OR LOCAL UTILITIES AS THEY APPLY TO WORK IN THIS DIVISION AS OUTLINED BELOW.

1. ADA - AMERICANS WITH DISABILITIES ACT
2. ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE.
3. ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS.
4. CBM - CERTIFIED BALLAST MANUFACTURERS
5. ETL - ELECTRICAL TESTING LABORATORIES
6. FAA - FEDERAL AVIATION ADMINISTRATION
7. FCC - FEDERAL COMMUNICATIONS COMMISSION
8. FM - FACTORY MUTUAL
9. IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS.
10. IES - ILLUMINATING ENGINEERING SOCIETY.
11. NEC - NATIONAL ELECTRICAL CODE.
12. NECA - NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION.
13. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
14. NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
15. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
16. UL - UNDERWRITERS' LABORATORIES, INC
17. LOCALLY ADOPTED BUILDING CODES AND/OR OTHER BUILDING CODES SPECIFIC TO THIS JURISDICTION.
18. LOCALLY ADOPTED ELECTRICAL CODES AND/OR OTHER ELECTRICAL CODES SPECIFIC TO THIS JURISDICTION.
19. LOCAL UTILITY AUTHORITIES.
20. LOCAL FIRE DEPARTMENT.

B. COMPLIANCE WITH GOVERNING CODES AND REGULATIONS SHALL BE SUBJECT TO THE FOLLOWING GUIDELINES:

1. DRAWINGS AND SPECIFICATION REQUIREMENTS SHALL GOVERN WHERE THEY EXCEED GOVERNING CODE AND REGULATORY REQUIREMENTS.
2. WHERE REQUIREMENTS BETWEEN GOVERNING CODES AND REGULATIONS VARY, THE MORE STRINGENT SHALL APPLY.
3. NOTHING CONTAINED IN CONTRACT DOCUMENTS SHALL BE CONSTRUED AS AUTHORITY OR PERMISSION TO DISREGARD OR VIOLATE LEGAL REQUIREMENTS. CONTRACTOR SHALL IMMEDIATELY DRAW THE ATTENTION OF THE PROJECT MANAGER TO ANY SUCH CONFLICTS NOTED IN THE CONTRACT DOCUMENTS.

1.04 SUBMITTALS

A. PROVIDE ELECTRONIC COPIES OF SUBMITTALS WITH DESCRIPTIVE DATA FOR ALL PRODUCTS AND MATERIALS FOR REVIEW BY ENGINEER PRIOR TO ORDERING. SUBMITTALS SHALL CLEARLY IDENTIFY MANUFACTURER, MODEL NUMBER AND ANY DETAILS NECESSARY TO SHOW COMPLIANCE WITH THE SPECIFICATION DOCUMENTS IN ADDITION TO THOSE PARAMETERS OUTLINED BELOW OR THE FOLLOWING ITEMS:

1. LIGHTING FIXTURES: INCLUDING PHOTOMETRIC PERFORMANCE DATA AND ANALYSIS (WITH PARAMETERS OUTLINED AS REQUIRED BY ENGINEER), FIXTURE POLES AND MOUNTING ARMS, BALLASTS, AND LAMPS.
2. SWITCHES AND EQUIPMENT: INCLUDING WASH SWITCHES, WALL-BOX DIMMERS, RECEPTACLES, DEVICE COVER PLATES, SAFETY SWITCHES, ETC.
3. OVERCURRENT DEVICES: INCLUDING TIME/CURRENT CURVES IF REQUESTED.
4. SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, AND PANELBOARDS: DIMENSIONS, ENCLASURE DATA, VOLTAGE AND PHASE, AMPACITY, OVERCURRENT DEVICES (INCLUDING QUANTITIES, AMPACITY RATINGS, TYPES, POLES, ETC.), CATALOG CUTS, AND ANY RELATED ACCESSORIES.
5. TRANSFORMERS: WEIGHT OF TRANSFORMER, MOUNTING DETAILS, AND PERFORMANCE DATA (INCLUDING IMPEDANCE, EFFICIENCY AND SOUND LEVEL).
6. SPECIAL SYSTEMS AND EQUIPMENT: ARCHITECTURAL/THEATRICAL DIMMING EQUIPMENT AND CONTROLS, OCCUPANCY AND DAYLIGHT HARVESTING SENSORS, EMERGENCY POWER SOURCES AND RELATED TRANSFER EQUIPMENT, TRANSPARENT VOLTAGE SURGE SUPPRESSORS, SUB-METERING DEVICES, ETC.

B. SHOP DRAWINGS: COORDINATED LAYOUT PLANS FOR ELECTRICAL ROOMS, INFORMATION TECHNOLOGY ROOMS, AND OTHER SPECIALIZED AREAS REQUESTED BY THE ENGINEER, SHOWING WORK OF ALL TRADES. SHOP DRAWINGS NOT LIMITED TO DUCTWORK, HVAC, PLUMBING, FIRE PROTECTION PIPING, ELECTRICAL CONDUITS, BUS DUCTS, AND ALL RELATED EQUIPMENT.

1.05 SUBSTITUTIONS

A. PROCEDURE: CONTRACTORS BID SHALL INCLUDE PRODUCTS AS OUTLINED IN THE SPECIFICATION DOCUMENTS. EXCEPT IN THE CASE OF PRODUCT UNAVAILABILITY, SUBSTITUTIONS WILL NOT BE ALLOWED. ENGINEER WILL CONSIDER FORMAL REQUESTS FOR SUBSTITUTION OF PRODUCTS ONLY IF THE REQUEST MEETS THE FOLLOWING CONDITIONS:

1. WRITTEN EVIDENCE OF PRODUCT UNAVAILABILITY NECESSITATING THE PROPOSED SUBSTITUTION FROM THE SPECIFIED PRODUCT'S MANUFACTURER REPRESENTATIVE OR SUPPLIER.
2. COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH REQUIREMENTS AND SPECIFICATIONS STATED IN CONTRACT DOCUMENTS.
3. DATA RELATING TO CHANGES IN CONSTRUCTION SCHEDULE.
4. COMPLETE DESCRIPTION OF ANY EFFECT OF SUBSTITUTION ON OTHER WORK IN THIS AND OTHER TRADES.

B. FAILURE TO PLACE ORDERS FOR SPECIFIED ITEMS IN A TIMELY MANNER WITH RESPECT TO THE PROJECT MANAGER'S CONSTRUCTION SCHEDULE DOES NOT CONSTITUTE PRODUCT UNAVAILABILITY.

C. CONTRACTOR SHALL BE RESPONSIBLE AT NO EXTRA COST TO OWNER FOR ANY CHANGES RESULTING FROM PROPOSED SUBSTITUTIONS WHICH AFFECT WORK OF OTHER TRADES OR RELATED CONTRACTS.

D. CLAIMS FOR ADDITIONAL COSTS CAUSED BY SUBSTITUTION WHICH MAY SUBSEQUENTLY BECOME APPARENT SHALL BE MET BY THE CONTRACTOR.

E. SUBSTITUTIONS WILL NOT BE CONSIDERED FOR ACCEPTANCE WHEN ACCEPTANCE WILL REQUIRE SUBSTANTIAL REVISION OF CONTRACT DOCUMENTS, UNLESS CONTRACTOR BEARS COST OF REVISION.

F. SUBSTITUTE PRODUCTS SHALL NOT BE ORDERED OR INSTALLED WITHOUT PRIOR WRITTEN APPROVAL/ACCEPTANCE BY ENGINEER.

1.06 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. EQUIPMENT IN ORIGINAL PACKAGES TO PREVENT DAMAGE OR ENTRANCE OF FOREIGN MATTER. HANDLE AND SHIP IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

B. PROVIDE AND MAINTAIN PROTECTIVE COVERINGS DURING CONSTRUCTION.

C. REPLACE, AT NO EXPENSE TO OWNER, EQUIPMENT OR MATERIAL DAMAGED, LOST, OR STOLEN DURING STORAGE OR HANDLING AS DIRECTED BY THE PROJECT MANAGER.

1.07 EXISTING CONDITIONS (AS APPLICABLE)

A. VERIFICATION: BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AND THE PRESENT INSTALLATIONS TO WHICH CONNECTIONS MUST BE MADE OR WHICH MUST BE ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN, AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS, REQUIREMENTS, AND PRACTICES AT THE SITE.

B. TEMPORARY SHUTDOWNS: SHALL BE PERFORMED AT NO ADDITIONAL CHARGES TO OWNER. SHUTDOWNS SHALL BE UNDERTAKEN AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES. OBTAIN WRITTEN CONSENT OF OWNER PRIOR TO SHUTDOWNS.

C. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED.

D. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED. DISCONNECT AND EXISTING WORK CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.

E. REMOVAL AND RELOCATION OF EXISTING WORK:

1. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICES REQUIRED BY REMOVAL OR CHANGES IN EXISTING CONSTRUCTION.
2. REMOVE EXISTING CONDUCTORS FROM EXISTING RACEWAYS TO BE REUSED AND REPLACE WITH NEW CONDUCTORS.
3. REMOVE EXISTING CONDUCTORS NO LONGER USED. REMOVE RACEWAYS IN ALL CASES EXCEPT WHERE THE REASON FOR REMOVAL WOULD ALLOW REUSE TO EXISTING CONSTRUCTION. CAP AND MARK AS "ABANDONED" UNLESS RACEWAYS TO REMAIN.
4. CUT AND CAP ABANDONED FLOOR RACEWAYS FLUSH WITH CONCRETE FLOOR OR BEHIND WALLS AND CEILING.
5. DISPOSE OF ALL REMOVED RACEWAYS AND WIRE.
6. DISPOSE OF REMOVED ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, AND DEVICES AS DIRECTED.
7. HORSEPOWER RATED OR EXCEEDING 300 HP: REMOVE ALL PATCHING SHALL BE OF THE SAME MATERIALS, FINISH, AND WORKMANSHIP AS THE EXISTING AREA AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
8. IF ASBESTOS INSULATION IS FOUND WHEN WORKING IN EXISTING AREAS, IMMEDIATELY STOP WORK AND NOTIFY PROJECT MANAGER. DO NOT RESTART WORK UNTIL ADVISED IN WRITING BY PROJECT MANAGER THAT IT IS SAFE TO DO SO FOLLOWING ADEQUATE REMEDIATION, ENCLOSURES, ETC.

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8. IF ASBESTOS INSULATION IS FOUND WHEN WORKING IN EXISTING AREAS, IMMEDIATELY STOP WORK AND NOTIFY PROJECT MANAGER. DO NOT RESTART WORK UNTIL ADVISED IN WRITING BY PROJECT MANAGER THAT IT IS SAFE TO DO SO FOLLOWING ADEQUATE REMEDIATION, ENCLOSURES, ETC.

O. REMOVAL AND RELOCATION OF EXISTING WORK:

1. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICES REQUIRED BY REMOVAL OR CHANGES IN EXISTING CONSTRUCTION.
2. REMOVE EXISTING CONDUCTORS FROM EXISTING RACEWAYS TO BE REUSED AND REPLACE WITH NEW CONDUCTORS.
3. REMOVE EXISTING CONDUCTORS NO LONGER USED. REMOVE RACEWAYS IN ALL CASES EXCEPT WHERE THE REASON FOR REMOVAL WOULD ALLOW REUSE TO EXISTING CONSTRUCTION. CAP AND MARK AS "ABANDONED" UNLESS RACEWAYS TO REMAIN.
4. CUT AND CAP ABANDONED FLOOR RACEWAYS FLUSH WITH CONCRETE FLOOR OR BEHIND WALLS AND CEILING.
5. DISPOSE OF ALL REMOVED RACEWAYS AND WIRE.
6. DISPOSE OF REMOVED ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, AND DEVICES AS DIRECTED.
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P. REMOVAL AND RELOCATION OF EXISTING WORK:

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Q. REMOVAL AND RELOCATION OF EXISTING WORK:

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