

1. GENERAL PROVISIONS

A. GENERAL NOTES:

1. THE CONTRACTOR GOVERNANTS AND AGREES THAT HE AND HIS SUBCONTRACTORS AND HIS AND THEIR AGENTS, SERVANTS AND EMPLOYEES WILL PROVIDE AND MAINTAIN A SAFE PLACE TO WORK AND THAT HE AND THEY WILL COMPLY WITH ALL LAWS AND REGULATIONS OF ANY GOVERNMENTAL AUTHORITY HAVING JURISDICTION THEREOF AND THE CONTRACTOR AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CONSULTING ENGINEER, THE ARCHITECT AND THE OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE OR EXPENSE, INCLUDING ATTORNEY'S FEES, ARISING FROM OR RESULTING FROM THE PERFORMANCE OF HIS SUBCONTRACTORS AND HIS AND THEIR AGENTS, SERVANTS AND EMPLOYEES TO PROVIDE AND MAINTAIN A SAFE PLACE TO WORK OR TO COMPLY WITH ALL LAWS AND REGULATIONS OF ANY GOVERNMENTAL AUTHORITY HAVING JURISDICTION THEREOF.

2. THE CONTRACTOR AND EACH SUBCONTRACTOR GOVERNANTS AND AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE ARCHITECT, THE ENGINEER AND THE OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE OR EXPENSE, INCLUDING ATTORNEY'S FEES, ARISING FROM OR RESULTING FROM THE PERFORMANCE OF HIS SUBCONTRACTORS AND HIS AND THEIR AGENTS, SERVANTS AND EMPLOYEES TO PROVIDE AND MAINTAIN A SAFE PLACE TO WORK OR TO COMPLY WITH ALL LAWS AND REGULATIONS OF ANY GOVERNMENTAL AUTHORITY HAVING JURISDICTION THEREOF.

3. THE CONTRACTOR AGREES THAT ANY CONTROVERSY OR DISPUTE TO WHICH THE CONTRACTOR, THE ARCHITECT, AND THE CONSULTING ENGINEERS ARE PARTIES SHALL BE SUBMITTED TO ARBITRATION FOR DECISION IN ACCORDANCE WITH THE RULES OF SUCH ASSOCIATION FOR CONSTRUCTION INDUSTRY DISPUTES. ALL SUBCONTRACTORS LIKEWISE SHALL BE SUBJECT TO SUCH ARBITRATION. THE ARCHITECT AND THE CONSULTING ENGINEERS, AND THE CONTRACTOR AGREES TO MAKE AVAILABLE TO THE CONSULTING ENGINEERS ON DEMAND SIGNED COPIES OF THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR AND BETWEEN THE CONTRACTOR AND HIS SUBCONTRACTORS. THE CONTRACTOR AND EACH SUBCONTRACTOR AGREE THAT BY SUBMITTING A BID WHICH IS ACCEPTED, THIS PARAGRAPH SHALL BE DEEMED A WRITTEN AGREEMENT TO SUBMIT ANY CONTROVERSY HEREAFTER ARISING TO ARBITRATION.

4. ALL WORK SHALL BE DONE IN CONFORMANCE WITH ALL GOVERNING CODES, INCLUDING AMENDMENTS, BULLETINS, ETC., AS WELL AS STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDING, AND REQUIREMENTS OF THE OWNER.

5. SCOPE. PROVIDE LABOR, MATERIALS, EQUIPMENT AND SERVICES FOR ALL ELECTRICAL AND TELEPHONE WORK, INCLUDING PERMITS AND AS REQUIRED BY APPLICABLE CITY, STATE AND FEDERAL CODES, INCLUDING OSHA. PAY ALL FEES AND OBTAIN ALL CERTIFICATES AND PERMITS REQUIRED TO BEGIN AND COMPLETE CONSTRUCTION. USE ALL NEW, UL LISTED EQUIPMENT. ALL CONSTRUCTION SHALL BE BUILDING STANDARDS OR SUBJECT TO BUILDING APPROVAL PRIOR TO INSTALLATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ANY AND ALL EQUIPMENT BEING INSTALLED IS ACCEPTABLE TO THE BUILDING DEPARTMENT. THIS INCLUDES ALL TEMPORARY LIGHTING AND POWER DURING CONSTRUCTION. INTERRUPTION OF POWER IF REQUIRED SHALL BE COORDINATED WITH THE BUILDING MANAGEMENT.

6. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM GOVERNING AUTHORITIES.

7. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, UL LISTED AND SHALL CONFORM TO ANY ADDITIONAL LABELING TESTING AND CONSTRUCTION REQUIREMENTS ESTABLISHED BY THE GOVERNING AUTHORITIES. THE SAME SHALL BE GUARANTEED FOR 1 YEAR SUBSEQUENT TO FINAL ACCEPTANCE.

8. COORDINATE SCHEDULING OF ALL WORK TO BE PERFORMED WITH OWNER AND INCLUDE ALL NECESSARY PREMIUM TIME REQUIRED FOR SHUTDOWNS, WORK IN OCCUPIED AREAS, ETC.

9. NO ELECTRICAL CONNECTIONS SHALL BE MADE TO, OR WORK PERFORMED ON, ENERGIZED EQUIPMENT.

10. ALL AREAS ASSOCIATED WITH WORK TO BE PERFORMED SHALL BE EXAMINED, NO ADDITIONAL COMPENSATION SHALL BE MADE FOR CONDITIONS FOUND DURING INSTALLATION.

11. SURVEY EXISTING SPACE, CLOSETS AND PANEL BOARDS TO BE IDENTIFIED BY ALL TRADES. ANY MODIFICATIONS NECESSARY TO COMPLY WITH THE DESIGN INDICATED, ANY MODIFICATIONS NECESSARY TO COMPLY WITH THE DESIGN INTENT SHALL BE INCLUDED IN BID SUBMITTED AND SHALL BE HIGHLIGHTED SO THAT CONSIDERATION TO THE SAME IS GIVEN DURING BID EVALUATION. INCLUDED IN THIS REQUIREMENT, SHALL BE THE EVALUATION OF THE AVAILABILITY OF BRANCH CIRCUIT CAPACITY TO ACCOMMODATE THE NUMBER OF BRANCH CIRCUITS TO ALTERNATE PANELS OR THE ADDITION OF SUPPLEMENTAL PANELS, CIRCUIT NUMBERS INDICATING WIRE REFERENCE ONLY.

12. ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS OF ALL EXISTING AND NEW EQUIPMENT TO BE USED. ALL SPECIAL PURPOSE OUTLETS INDICATED ON PLAN SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER TO ENSURE PROPER WIRING AND COMPATIBILITY WITH ATTACHMENT PLUGS THAT MAY BE FURNISHED AS AN INTEGRAL PART OF THE EQUIPMENT.

13. PROVIDE PLYWOOD BACKBOARD ON CLOSET WALLS FROM FLOOR TO 8 FEET ABOVE FINISHED FLOOR WHERE EQUIPMENT IS TO BE MOUNTED. BACKBOARD TO BE FIRE RETARDANT.

B. WORKMANSHIP: ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.

C. MATERIALS: ALL MATERIALS SHALL BE OF THE BEST QUALITY. FIRE RATED MATERIALS SHALL BE IDENTIFIED BY MANUFACTURER'S NUMBERS AND INTENDED TO INDICATE THIS QUALITY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR MANUFACTURER'S CERTIFIED CUTS TO THE ENGINEER AND THE ARCHITECT AND OBTAIN WRITTEN APPROVAL FROM THE ENGINEER AND THE ARCHITECT FOR ANY AND ALL SUBSTITUTIONS.

D. MOTORS: THE HORSEPOWER INDICATED ON PLANS AND/OR IN PANEL BOARDS, TRANSFORMERS, FEEDERS, DEVICES, ETC. AS SHOWN SHALL BE THE MINIMUM HORSEPOWER REQUIREMENTS OF EQUIPMENT (CONDUIT AND WIRING) AND DISCONNECT DEVICES SHALL BE OF THE SIZES AND CAPACITIES TO SUIT THE HORSEPOWER OF MOTORS ACTUALLY FURNISHED UNDER THE VARIOUS SECTIONS.

E. CUTTING AND PATCHING: ALL CUTTING AND PATCHING IN CONNECTION WITH THIS TRADE SHALL BE DONE AS PART OF THIS CONTRACT. THIS CONTRACT SHALL BE RESPONSIBLE FOR THE PATCHING AND/OR FINISH WORK INCLUDING ALL LABOR AND/OR MATERIALS AND COSTS OF PATCHING AND/OR FINISH WORK. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES. ALL WORK SHALL BE DONE TO THE SATISFACTION OF THE ARCHITECT.

F. PROTECTION: KEEP CONDUITS AND OTHER OPENINGS CLOSED TO PREVENT THE ENTRY OF FOREIGN MATTER COVER FIXTURES, EQUIPMENT AND APPARATUS AND PROTECT AGAINST DIRT, WATER, RESTRICTION OF DAMAGED SHOP COATS OF PAINT, EQUIPMENT SHALL BE DELIVERED AND STORED ON SITE, PROPERLY PACKAGED AND CRATED UNTIL FINAL INSTALLATION.

G. COORDINATION WITH OTHER TRADES: RENDER FULL COOPERATION TO OTHER TRADES. WHERE WORK OF CONTRACTORS WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES, THIS CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT OTHER TRADES OR CAUSES INTERFERENCES. HE SHALL MAKE CHANGES NECESSARY TO CORRECT CONDITION WITHOUT ANY EXTRA CHARGE. CONTRACTOR SHALL COORDINATE WITH THE SPRINKLER CONTRACTOR FOR THE LOCATION AND TYPE OF TAMPER SWITCHES, WATER FLOW SWITCHES, REQUIRED CONDUITS, VOLTAGES, AND WIRING DIAGRAMS. CONTRACTOR FOR THE LOCATION AND TYPE OF COMBINATION FIRE SMOKE DAMPERS, DUCT SMOKE DETECTORS, REQUIRED CONDUITS, VOLTAGES, AND WIRING DIAGRAMS.

H. GUARANTEE AND SERVICE: UPON ACCEPTANCE OF CONTRACT, CONTRACTOR AGREES TO GUARANTEE ALL HIS WORK AND EQUIPMENT FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF INITIAL START UP. MANUFACTURER'S GUARANTEE AND SHALL NOT BE LESS THAN ONE (1) YEAR.

I. INSURANCE: CONTRACTOR SHALL MAINTAIN SUCH LIMITS OF INSURANCE AS DIRECTED UNDER THE GENERAL CONDITIONS.

J. TEMPORARY LIGHT AND POWER: PROVIDE AND MAINTAIN ALL FACILITIES FOR TEMPORARY LIGHT AND POWER WITHIN THE CONSTRUCTION AREA DURING THE ENTIRE BUILDING PERIOD, FOR SAFETY OF PERSONNEL, UTILIZING THE EXISTING ELECTRICAL SERVICE WITHIN THE AREA AS ARRANGE WITH THE BUILDING OWNER BY THE ELECTRICAL CONTRACTOR.

K. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE SAME, FOUR COPIES OF EACH SUBMITTAL ARE REQUIRED.

L. LEGATIONS: DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTORS ARE TO IDENTIFY IDENTIFICATION ONLY. USE AVAILABLE SPARE CIRCUIT BREAKERS, ELECTRICAL CONTRACTOR TO VERIFY IN THE FIELD. FOR EXACT LOCATION OF RECEPTACLE, LIGHTING FIXTURES, TELEPHONE AND SIGNAL OUTLETS REFER TO ARCHITECTURAL DRAWINGS. WHERE NEW WORK IS REQUIRED, THE EXISTING ELECTRICAL OR TELEPHONE SYSTEM WORK SHALL BE MAINTAINED AND PROTECTED. ALL WORK SHALL BE REQUIRED TO MAINTAIN CONTINUITY OF SERVICE.

M. RUBBISH: REMOVE RUBBISH FROM PREMISES AS OFTEN AS DIRECTED. ALL WORK AND EQUIPMENT SHALL BE CLEANED TO THE SATISFACTION OF THE OWNER AND TENANT BEFORE TURNING SAME OVER TO THE OWNER AND TENANT.

N. AS BUILT DRAWING: SUBMIT DRAWING INDICATING AS BUILT CONDITION INCLUDING COMPLETED PANEL SCHEDULES WHEN INSTALLATION IS COMPLETE. ONE (1) PRINT AND ONE (1) SET OF SEPA SHALL BE SUBMITTED TO THE ARCHITECT AND ONE (1) SET TO THE BUILDING DEPARTMENT. ALL DRAWINGS REQUESTED BY THE BUILDING OWNER AND TENANT.

2. SCOPE OF WORK

A. SUBMIT APPLICATIONS AND FILE FOR NEW ELECTRICAL UTILITY SERVICE WITH LOCAL UTILITY.

B. EXISTING ELECTRICAL SYSTEMS SHALL UNDERGROUND CONDUITS & FEEDERS FROM EXISTING SERVICE TO NEW SERVICE UNLESS OTHERWISE NOTED BY THE ARCHITECT.

C. FURNISH AND INSTALL NEW ELECTRICAL METERS, TRANS S, MANHULETS, CABINETS, TROUGH, CONDUITS, SWITCHES, DISTRIBUTION BOARDS ETC., AS REQUIRED FOR NEW ELECTRICAL SERVICE.

D. FURNISH AND INSTALL NEW OUTDOOR PAD MOUNTED EMERGENCY GENERATOR (CONCRETE PAD, UNDERGROUND CONDUITS AND WIRING AND WIRING DEVICES FOR COMPUTERS, PRINTERS, ETC.

E. DEMO EXISTING ELECTRICAL SERVICE AND ASSOCIATED PANELBOARDS & METERS.

F. TEMPORARY LIGHT AND POWER AS REQUIRED BY ALL TRADES.

G. LIGHTING, INCLUDING LIGHTING FIXTURES AND LAMPS, WIRING AND WIRING DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN INTENT AND SHALL BE IDENTIFIED BY MANUFACTURER'S NUMBERS AND INTENDED TO INDICATE THIS QUALITY.

H. PROVIDE AND INSTALL NEW ELECTRICAL METERS, TRANS S, MANHULETS, CABINETS, TROUGH, CONDUITS, SWITCHES, DISTRIBUTION BOARDS ETC., AS REQUIRED FOR NEW ELECTRICAL SERVICE.

I. FURNISH AND INSTALL NEW OUTDOOR PAD MOUNTED EMERGENCY GENERATOR (CONCRETE PAD, UNDERGROUND CONDUITS AND WIRING AND WIRING DEVICES FOR COMPUTERS, PRINTERS, ETC.

J. FURNISH AND INSTALL ALL NEW PANELBOARDS.

K. FURNISH AND INSTALL ALL NEW PANELBOARDS.

L. FURNISH AND INSTALL ALL FIRE ALARM DEVICES INCLUDING FIRE SPEAKERS, STRIPERS, COMBINATION SPEAKER STROBE/FALL SARE DODR RELAYS, MAGNETIC DODR HOLDERS, AREA SMOKE DETECTORS, ETC. COMBINATION SMOKE FIRE DAMPERS AND DUCT SMOKE DETECTORS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, AND WIRE ALL DEVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR PURCHASING ALL REQUIRED FIRE RESPONSE DEVICES. THE CONTRACTOR SHALL PROVIDE ALL BUILDING DEPARTMENT AND FIRE DEPARTMENT PERMITS AND FEES, INCLUDING EXPEDITING SERVICES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

D. CONTRACTOR SHALL CORE DRILL AND FIRE PROOF ALL FLOORS AS REQUIRED FOR POWER, DATA, TELEPHONE AND FIRE ALARM WIRING AND CONDUIT PENETRATIONS.

P. CONTRACTOR SHALL CHASE ALL FLOORS AND WALLS AS REQUIRED TO INSTALL DEVICES AND PATCH.

O. CONTRACTOR SHALL FURNISH AND INSTALL NEW SWITCHES, PANELBOARDS, TRANSFORMERS, FEEDERS, DEVICES, ETC. AS SHOWN. FURNISH AND INSTALL EMERGENCY LIGHTING AND EXIT LIGHTS. ARCHITECT'S DRAWINGS.

1. ALL ELECTRICAL WORK RELATED TO THE WATER FILTRATION, HOT WATER, AND BACKFLOW SYSTEMS SHALL BE INSTALLED AS SHOWN IN ARCHITECT'S DRAWINGS.

2. CONTRACTOR SHALL FURNISH AND INSTALL NEW SWITCHES, PANELBOARDS, TRANSFORMERS, FEEDERS, DEVICES, ETC. AS SHOWN. FURNISH AND INSTALL EMERGENCY LIGHTING AND EXIT LIGHTS. ARCHITECT'S DRAWINGS.

3. WIRE AND CABLE

A. WIRE SHALL BE COPPER, INSULATION TYPE "THHN".

B. CONDUITOR SIZE SHALL BE AS INDICATED ON DRAWINGS, NOT LESS THAN #12 AWG (THHN) FOR POWER AND LIGHTING WORK, NOT LESS THAN #14 AWG (THHN) FOR DATA AND COMMUNICATIONS WORK. ALL WIRE SHALL BE INSTALLED IN CONDUITS UNLESS OTHERWISE NOTED BY THE ARCHITECT.

C. FACTORY COLOR CODING USING THE SAME CODE THROUGHOUT SHALL BE AS FOLLOWS: 120/208 VOLTS - BLACK, RED, BLUE AND WHITE, WHITE CONDUCTOR SHALL SERVE AS NEUTRAL CONDUCTOR SPECIFIED. 265/460 VOLTS - BROWN, ORANGE, YELLOW AND GRAY. ALL POWER AND COMMUNICATION CABLES WITHIN PERIMETER OF BUILDING SHALL BE INSTALLED IN CONDUITS AS PER PLANS. ALL TELEPHONE CONDUITS TO BE INSTALLED IN CONDUITS AS PER PLANS.

F. ALL CABLE TO FIRE ALARM DEVICES SHALL BE AS PER THE BASE BUILDING FIRE ALARM COMPANY SPECIFICATIONS.

G. ALL TELEPHONE OUTLETS, DATA COMMUNICATIONS, FIRE ALARM, ETC. SHALL BE AS SHOWN ON THE ELECTRICAL DRAWINGS.

H. ALL DATA AND TELEPHONE CABLE SHALL BE 4 PAIR, 24 GAUGE CAT-5E PLENUM RATED CABLE AND SHALL BE ROUTED AS PER DRAWINGS.

4. TAPS, SPLICES AND TERMINATIONS

A. CONNECTORS FOR LIGHTING FIXTURES FROM BRANCH CIRCUIT WIRING SHALL BE MADE WITH TVST ON THE CONDUIT. CONNECTORS, 1/8" SERIES P1-1, OR EQUAL OR 3/8" OR IDEAL.

5. CONDUITS AND FITTINGS

A. CONDUITS: ALL POWER WIRING IN RACEWAYS, MINIMUM SIZE CONDUIT TO BE 3/4" USE EMT IN HAND CEILING, EXPOSED DRY LOCATIONS AND HOLLOW WALL SPACES.

B. FLEXIBLE METAL CONDUIT IN SHORT LENGTHS AND CONNECTIONS: UTILIZE EXISTING CONDUIT AS PER FIELD CONDITIONS. GREENFIELD OR BX WILL NOT BE PERMITTED EXCEPT WHERE REQUIRED BY CODE I.E. CONNECTIONS TO LIGHT FIXTURES, ETC.

C. FITTINGS: FITTINGS FOR EMT SHALL BE STEEL.

D. CONCRETE TIGHT WITH INSULATED THROATS, T&B SERIES 5123 AND 5120, OR APPROVED EQUAL. FITTINGS FOR FLEXIBLE METAL CONDUITS SHALL BE STEEL WITH NUT AND WASHER SHALL BE THE INSULATING TYPE T&B SERIES 222, OR APPROVED EQUAL. GROUNDING BUSHINGS SHALL BE 0.2" TYPE B16, OR APPROVED EQUAL.

E. CONDUIT TERMINATIONS, EXCEPT CONDUIT FOR TELEPHONE, SIGNAL, AND OTHER LOW TENSION SERVICES, SHALL HAVE DOUBLE LOCKOUTS, T&B SERIES 141 OR AS APPROVED.

6. OUTLET BOXES

A. GALVANIZED STEEL AND OF STANDARD SIZES SUITABLE FOR THE USE INTENDED AND CONFORMING TO THE FOLLOWING:

B. OUTLETS IN GYPSUM-BOARD WALLS FOR SWITCHES, RECEPTACLES, TELEPHONE, ETC. TO BE 4" SQUARE WITH PLASTIC COVERS. DEPTH OF BOXES SHALL BE AS REQUIRED BY CODE TO ACCOMMODATE THE CONDUITS, INSTALLED. ALL OUTLETS FOR THE ATTACHMENT OF SECURELY ANCHORED TO THE BOXES.

7. WIRING DEVICES

A. RECEPTACLES: ALL RECEPTACLES TO BE PROVIDED WITH U-SHAPED GROUNDING CONTACT. ALL RECEPTACLES NOTED BY THE ARCHITECT.

B. ALL DUPLEX RECEPTACLES SHALL BE SIMILAR TO LEVITON "DECORA" TYPE WITH GROUNDING CONTACT. FINISH SHALL BE WHITE. FINISH PLATES SHALL BE WHITE WITH WHITE SCREWS. AMPERAGE RATING SHALL BE AS INDICATED ON PLANS (15 OR 20 A).

C. ALL DEDICATED DUPLEX RECEPTACLES SHALL BE LEVITON "DECORA" TYPE WITH GROUNDING CONTACT. FINISH SHALL BE WHITE WITH WHITE SCREWS.

D. ALL LIGHT SWITCHES SHALL BE LEVITON "DECORA" TYPE WITH WHITE SCREWS.

E. ALL TYPE SWITCHES SHALL BE LEVITON "DECORA" TYPE WITH WHITE SCREWS.

F. ALL DIMMER SWITCHES SHALL BE LEVITON "DECORA" SLIDE TYPE DIMMERS SUITABLE FOR VOLTAGE AND WATTAGE.

G. ALL SWITCHES SHALL BE GANGED IN A COMMON GANGED FINISH PLATE AS REQUIRED TO ACCOMMODATE ALL SWITCHES AND/OR RECEPTACLES.

H. ALL DATA, TELEPHONE OUTLETS SHALL HAVE FOUR SPACES FOR JACKS WITH (2) JACKS INSTALLED IN EACH OUTLET. (2) JACK SHALL BE FOR DATA AND (2) JACK SHALL BE FOR TELEPHONE. THE DEVICE FINISH SHALL BE WHITE AND SHALL BE SECURED TO THE WALL BY THE CONTRACTOR. THE CONTRACTOR SHALL MATCH THE EXISTING DEVICE IN THE EXISTING REMAINING TENANT SPACE. SPECIFICATIONS FOR THE EXACT DEVICE SHALL BE PROVIDED BY THE TENANT.

8. LIGHTING FIXTURES: ALL LIGHTING FIXTURES SHALL BE AS SPECIFIED ON THE ELECTRICAL DRAWINGS UNLESS OTHERWISE NOTED BY THE ARCHITECT. FURNISH, INSTALL AND STRIP ALL LIGHT FIXTURES INCLUDING FLUORESCENT STRIP LIGHTS AND EXIT LIGHTS.

9. REMOVALS

A. ABANDONED WIRING AND DEVICES SHALL BE PROPERLY REMOVED AND CAPPED WITH ABANDONED WIRING REMOVED. ELECTRICAL ITEMS NOT INDICATED ON DRAWINGS SHALL BE REMOVED AND PATCHED.

10. TELEPHONE AND SIGNAL

A. ALL WALL MOUNTED TELEPHONE AND DATA OUTLETS SHALL BE REMOVED WITH THE EXISTING TELEPHONE PLATE AND EITHER (1) 3/4" CONDUIT TO THE FLOOR CELL WHERE THE FLOOR CELL IS AVAILABLE.

B. A 3/4" CONDUIT WITH FLOOR POKE-THROUGH TO THE FLOOR CELL SYSTEM OR

C. A 3/4" CONDUIT STUPE UP WITH A 90° BEND APPROXIMATELY 6" ABOVE THE HUNG CEILING. NO DATA OR TELEPHONE CABLE MAY BE EXPOSED TO VIEW.

D. THE REMOVAL AND INSTALLING OF ALL DATA AND TELEPHONE CABLE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DATA AND TELEPHONE CABLE SHALL BE INSTALLED IN THIS SCOPE OF WORK.

E. EACH TELEPHONE OUTLET SHALL HAVE (1) 2-PAIR CAT-5E CABLE PLENUM RATED DATA CABLES FROM THE JACK TO THE PUNCHDOWN BOARD IN STORAGE ROOM 131.

F. EACH TELEPHONE DATA OUTLET SHALL HAVE (2) THE 2-PAIR CAT-5E PLENUM RATED DATA CABLES FROM THE JACKS TO THE PUNCHDOWN BOARD IN STORAGE ROOM 131.

11. GROUNDING

A. THE ELECTRICAL SYSTEM AND EQUIPMENT SHALL BE GROUNDED. THE GROUNDING CONDUCTOR SHALL BE AN INSULATED COPPER WIRE OF THE REQUIRED SIZE. ACCESSIBLE CONNECTIONS SHALL BE MADE WITH MULTIPLE BOLT SILICON BRONZE CONNECTORS FOR THE SPECIALTY OUTLET. DEDICATED GROUNDING SHALL BE PROVIDED TO MAKE CONNECTIONS TO THE GROUNDING SYSTEM. ALL GROUNDING MATERIALS WHICH ARE SEPARATED BY NON CONDUCTING MATERIALS OR JOINED SO THERE IS HIGH RESISTANCE AT THE JOINTS.

12. SAFETY SWITCHES

A. SAFETY SWITCHES SHALL BE HORSEPOWER RATED HEAVY DUTY SWITCHES WITH DOUBLE BREAK MECHANISM BEING PAID FOR IN THE OFF POSITION. SWITCH SHALL BE FUSED OR UN-FUSED AS INDICATED. DISCONNECT SWITCHES FOR FANS SHALL HAVE BUILT IN THERMAL OVERLOADS.

13. PANELBOARDS AND CABINETS

A. PANELBOARD CABINETS SHALL BE OF THE GENERAL PURPOSE, DEAD FRONT TYPE FOR FLUSH OR SURFACE MOUNTED AS INDICATED ON THE DRAWINGS. MOUNT THE TOP OF THE CABINET 6'-6" ABOVE FINISHED FLOOR. CABINET SHALL BE FABRICATED FROM HOT GALVANIZED SHEET METAL. GATES SHALL BE REMOVED AND PATCHED WITH FINISH MATERIAL AS NOTED BY THE ARCHITECT.

B. ALL PANELBOARD FRONTS SHALL BE GIVEN A COAT OF ZINC CHROMATE PRIMER AND ONE FINISH COAT OF ENAMEL. TRIM OF PANELBOARD FRONT SHALL BE MADE OF COLD ROLLED SHEETMETAL OF GAUGES AS REQUIRED BY U.L. EXCEPT THAT THEY SHALL NOT BE LESS THAN 1/4" GAUGE. TRIM SHALL HAVE DOORS WITH CONCEALED HINGES AND SHALL HAVE FLUSH MOUNTED TYPE COMBINATION LOCK AND CHOSE IN A MULTIPLE POINT MOUNTING. ALL PANELBOARDS SHALL BE KEYPED ALIKE. TYPEWRITTEN DIRECTORIES UNDER GLASS.

14. PANELBOARDS AND CABINETS

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B. ALL PANELBOARD FRONTS SHALL BE GIVEN A COAT OF ZINC CHROMATE PRIMER AND ONE FINISH COAT OF ENAMEL. TRIM OF PANELBOARD FRONT SHALL BE MADE OF COLD ROLLED SHEETMETAL OF GAUGES AS REQUIRED BY U.L. EXCEPT THAT THEY SHALL NOT BE LESS THAN 1/4" GAUGE. TRIM SHALL HAVE DOORS WITH CONCEALED HINGES AND SHALL HAVE FLUSH MOUNTED TYPE COMBINATION LOCK AND CHOSE IN A MULTIPLE POINT MOUNTING. ALL PANELBOARDS SHALL BE KEYPED ALIKE. TYPEWRITTEN DIRECTORIES UNDER GLASS.

15. FIRE ALARM

A. CONTRACTOR SHALL FURNISH AND INSTALL ALL FIRE ALARM DEVICES AND ASSOCIATED CABLES AS PER THE ARCHITECT'S DRAWINGS.

B. ALL FIRE ALARM DEVICES WILL BE COMPATIBLE WITH THE NEW FIRE ALARM SYSTEM. ALL DEVICES SHALL BE PURCHASED FROM THE SAME MANUFACTURER.

C. ALL STRIPERS, SPEAKERS AND COMBINATION SPEAKER STRIPERS SHALL BE WHITE.

D. ALL DEVICES SHALL INCLUDE IN HIS BID BILLING FOR PURCHASED AND APPROVALS FROM ALL AUTHORITIES HAVING JURISDICTION.

16. ELECTRICAL LEGEND

⊕ DUPLEX OUTLET (GENERAL PURPOSE)

⊖ SEPARATE FAULT INTERRUPT OUTLET

⊕ HOSPITAL GRADE GFI OUTLET

⊕ DEDICATED DUPLEX OUTLET (HOT, NEUTRAL AND GROUND WIRE SHALL NOT BE CONNECTED TO OUTLET)

⊖ SPECIALTY OUTLET (SEE PLAN FOR INFO)

⊖ POWER WIRING HOMERUN TO POWER PANEL

⊕ FLUSH MOUNTED FLOOR GENERAL PURPOSE DUPLEX OUTLET (CONDUCT AND/OR CHASE FLOORS AND PROVIDE 3/4" E.C. WITH DRAG LINE TO WALL OR COLUMN TO ABOVE H.C.)

⊕ FLUSH MOUNTED FLOOR DATA AND TELEPHONE OUTLET, CONNECT TO TELEPHONE SYSTEM AND/OR CHASE FLOORS AND PROVIDE 3/4" E.C. WITH DRAG LINE TO WALL OR COLUMN TO ABOVE H.C.

⊕ WALL MOUNTED FLUSH TELEPHONE OUTLET IN A SINGLE GANG BACK ABOVE FINISHED FLOOR (3/4" E.C. WITH NYLON DRAG LINE)

⊕ WALL MOUNTED FLUSH TELEPHONE/DATA OUTLET WITH DOUBLE GANG BACK BOX WITH REDUCER AND SINGLE GANG FACE PLATE. PROVIDE 3/4" E.C. UP TO ABOVE H.C. WITH NYLON DRAG LINE.

⊕ QUAD COUPLER DUPLEX OUTLET. (2) SIGNIFIES TELEPHONE/DATA OUTLET.

⊕ QUAD FOR ANY TYPE OF OUTLET.

⊕ TAMPER SWITCH (GUARANTEED BY SPRINKLER CONTRACTOR)

⊕ WATER FLOW SWITCH (GUARANTEED BY SPRINKLER CONTRACTOR)

⊕ FAN (UPON FIRE ALARM)

⊕ FAN (UPON FIRE ALARM)

⊕ NOT MOUNTED TO WALL OR CEILING. PROVIDE 3/4" E.C. WITH NYLON DRAG LINE.

⊕ FIRE ALARM MANUAL PULL STATION

⊕ FIRE ALARM STRIKE FIRE SWITCH

⊕ ELECTRIC METER

⊕ COMBINATION HEAVY/STROBE

⊕ FIRE ALARM STROBE

⊕ EXT SIGN

⊕ DISCONNECT SWITCH

⊕ JUNCTION BOX

⊕ OCCUPANCY SENSING WALL SWITCH

⊕ EMERGENCY LIGHT, NIGHT LIGHT

⊕ EMERGENCY LIGHT, NIGHT LIGHT

⊕ OUTDOOR EX LIGHT

⊕ COMBINATION STRIKE FIRE SWITCH / ACCESS DOOR

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B. ALL PANELBOARD FRONTS SHALL BE GIVEN A COAT OF ZINC CHROMATE PRIMER AND ONE FINISH COAT OF ENAMEL. TRIM OF PANELBOARD FRONT SHALL BE MADE OF COLD ROLLED SHEETMETAL OF GAUGES AS REQUIRED BY U.L. EXCEPT THAT THEY SHALL NOT BE LESS THAN 1/4" GAUGE. TRIM SHALL HAVE DOORS WITH CONCEALED HINGES AND SHALL HAVE FLUSH MOUNTED TYPE COMBINATION LOCK AND CHOSE IN A MULTIPLE POINT MOUNTING. ALL PANELBOARDS SHALL BE KEYPED ALIKE. TYPEWRITTEN DIRECTORIES UNDER GLASS.

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19. PANELBOARDS AND CABINETS

A. PANELBOARD CABINETS SHALL BE OF THE GENERAL PURPOSE, DEAD FRONT TYPE FOR FLUSH OR SURFACE MOUNTED AS INDICATED ON THE DRAWINGS. MOUNT THE TOP OF THE CABINET 6'-6" ABOVE FINISHED FLOOR. CABINET SHALL BE FABRICATED FROM HOT GALVANIZED SHEET METAL. GATES SHALL BE REMOVED AND PATCHED WITH FINISH MATERIAL AS NOTED BY THE ARCHITECT.

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GLASS SHALL BE PROVIDED ON DOORS. DIRECTORIES SHALL CLEARLY INDICATE CIRCUIT NUMBERS AND DESCRIPTIONS OF THE ASSOCIATED BRANCH CIRCUIT. DIRECTORIES FOR SWITCH AND FUSED PANELS SHALL ALSO INDICATE VOLTAGE, USE AND BRANCH FEEDER SIZE. ALL FRAME OR AMPERE RATING, TRIP OR FUSE SIZE, ETC. SHALL BE AS INDICATED ON DRAWINGS. EACH CABINET SHALL HAVE A GROUND UL WELDED TO THE INSIDE OF EACH CABINET BOX. GUTTER SIZES SHALL BE ACCORDANCE WITH NRC CODE. PARALLEL BOARD PANELS SHALL BE 5'1" TELE FINISH COAT OF ENAMEL SHALL BE GRAY FOR 120/208 VOLT PANELS. CIRCUIT BREAKERS SHALL BE OF THE BOLT ON TYPE. A THREADED BOLT SHALL BE INSTALLED IN THE TOP LIP OF THE PANEL BOARD BOX AND A HOLE SHALL BE DRILLED IN THE FACE OF THE PANEL TO ALLOW FOR EASY MOUNTING AND REMOVAL OF THE PANEL COVER.

15. FIRE ALARM

A. CONTRACTOR SHALL FURNISH AND INSTALL ALL FIRE ALARM DEVICES AND ASSOCIATED CABLES AS PER THE ARCHITECT'S DRAWINGS.

B. ALL FIRE ALARM DEVICES WILL BE COMPATIBLE WITH THE NEW FIRE ALARM SYSTEM. ALL DEVICES SHALL BE PURCHASED FROM THE SAME MANUFACTURER.

C. ALL STRIPERS, SPEAKERS AND COMBINATION SPEAKER STRIPERS SHALL BE WHITE.

D. ALL DEVICES SHALL INCLUDE IN HIS BID BILLING FOR PURCHASED AND APPROVALS FROM ALL AUTHORITIES HAVING JURISDICTION.

16. ELECTRICAL LEGEND

⊕ DUPLEX OUTLET (GENERAL PURPOSE)

⊖ SEPARATE FAULT INTERRUPT OUTLET

⊕ HOSPITAL GRADE GFI OUTLET

⊕ DEDICATED DUPLEX OUTLET (HOT, NEUTRAL AND GROUND WIRE SHALL NOT BE CONNECTED TO OUTLET)

⊖ SPECIALTY OUTLET (SEE PLAN FOR INFO)

⊖ POWER WIRING HOMERUN TO POWER PANEL

⊕ FLUSH MOUNTED FLOOR GENERAL PURPOSE DUPLEX OUTLET (CONDUCT AND/OR CHASE FLOORS AND PROVIDE 3/4" E.C. WITH DRAG LINE TO WALL OR COLUMN TO ABOVE H.C.)

⊕ FLUSH MOUNTED FLOOR DATA AND TELEPHONE OUTLET, CONNECT TO TELEPHONE SYSTEM AND/OR CHASE FLOORS AND PROVIDE 3/4" E.C. WITH DRAG LINE TO WALL OR COLUMN TO ABOVE H.C.

⊕ WALL MOUNTED FLUSH TELEPHONE OUTLET IN A SINGLE GANG BACK ABOVE FINISHED FLOOR (3/4" E.C. WITH NYLON DRAG LINE)

⊕ WALL MOUNTED FLUSH TELEPHONE/DATA OUTLET WITH DOUBLE GANG BACK BOX WITH REDUCER AND SINGLE GANG FACE PLATE. PROVIDE 3/4" E.C. UP TO ABOVE H.C. WITH NYLON DRAG LINE.

⊕ QUAD COUPLER DUPLEX OUTLET. (2) SIGNIFIES TELEPHONE/DATA OUTLET.

⊕ QUAD FOR ANY TYPE OF OUTLET.

⊕ TAMPER SWITCH (GUARANTEED BY SPRINKLER CONTRACTOR)

⊕ WATER FLOW SWITCH (GUARANTEED BY SPRINKLER CONTRACTOR)

⊕ FAN (UPON FIRE ALARM)

⊕ FAN (UPON FIRE ALARM)

⊕ NOT MOUNTED TO WALL OR CEILING. PROVIDE 3/4" E.C. WITH NYLON DRAG LINE.

⊕ FIRE ALARM MANUAL PULL STATION

⊕ FIRE ALARM STRIKE FIRE SWITCH

⊕ ELECTRIC METER

⊕ COMBINATION HEAVY/STROBE

⊕ FIRE ALARM STROBE

⊕ EXT SIGN

⊕ DISCONNECT SWITCH

⊕ JUNCTION BOX

⊕ OCCUPANCY SENSING WALL SWITCH

⊕ EMERGENCY LIGHT, NIGHT LIGHT

⊕ EMERGENCY LIGHT, NIGHT LIGHT

⊕ OUTDOOR EX LIGHT

⊕ COMBINATION STRIKE FIRE SWITCH / ACCESS DOOR

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OCG ARCHITECTS, LLP  
ARCHITECTURE-INTERIORS  
60 CARLETON AVE  
ISLIP TERRACE, NY 11752  
TEL: 631-859-3488  
FAX: 631-859-3489

CONSULTANTS:  
Tungel Engineering Associates, P.C.  
Consulting Engineers  
250 Middle Country Road, Suite 200  
Great Neck, NY 11021  
Phone: 631-700-2800 Fax: 631-700-2744

NYS P.E. LIC # 66667

REV #	DATE	NOTE	BY
4/08/10		GENERAL REVISIONS	TET

DRAWN BY: MAT  
CHECKED BY: TET

OCEAN MEDICAL PROPERTIES  
3 NORTH MAIN STREET  
FALLOUT, NY 11520

DRAWING: ELECTRICAL SPECIFICATIONS

JOB#: 9039  
DATE: 1/6/07  
SCALE: 1/4"

DRAWING NUMBER  
E-9