SPECIFICATIONS

GENERAL

ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE WITH LOCAL AMENDMENTS, INCLUDING STATE, COUNTY AND CITY ELECTRICAL CODES, AND AUTHORITIES HAVING JURISBOKTION.

ALL EQUIPMENT SHALL BE NEW AND U.L. APPROVED. UNLESS SPECIFICALLY NOTED OTHERWISE

ELECTRICAL DIAWINGS ARE DUGDIAMATE. IT IS NOT WITHIN THE SOOPE OF DRAWINGS TO SHOW ALL THE
RECESSANT BURNING OF GETS ANLIGANCES MID OBSTRUCTIONS. SEZE HAD LOCKING HON OF COUPMENT AND WITHIN
ARE SHOWN TO SOLICE WILDE COSSIBLE, BUT MAY SEE DISTORTED FOR CLAIMTY ON THE DRAWINGS. FINAL
LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE SHOWN IN ENANGED DETALS OR AS APPROVED BY THE
ARCHITECT. INSTALL NEW WORK TO CONFORM TO THE STRUCTURE, MAINTAIN HEADROOM AND KEEP OPENINGS
AND PASSAGEWAYS CLEAR. REFER TO THE AGRICITECTURAL DRAWINGS FOR DIMENSIONS.

PRIOR TO SUBMITTING A BID, CAREFULLY EXAMINE THE SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITION WITHIN THE SCOPE OF WORK. BY THE ACT OF SUBMITTING A BID, IT SHALL BE UNDERSTOOD THAT SUCH AN EXAMINATION HAS BEEN COMPLETED, AND THAT ALLOWANCES FOR THE EXISTING CONDITIONS HAVE BEEN MADE

VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROCEING, AND PLASTERING, WINDOW AND DOWN THIS, PROCEEDING, WINDOW AND DOWN THIS, PROCEEDING, WINDOW AND DOWN THIS, PROCEEDING, OF THE OWNER, AND OUTLETS, CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO THE OWNER.

COORDINATE WITH ALL TRADES, NCLUDING ELECTRICAL REFERENCES ON THE ARCHITECTURAL DRAWINGS. FURNISH AND INSTALL WIRING FOR COUPMENT PROVIDED BY OTHERS. "WIRING" INCLUDES FURNISHING AND INSTALLING CONDUIT, CONDUCTORS, BOXES, AND DISCONNECTS (AS SPECIFIED) AND IMAKING FINAL CONNECTIONS.

SECURE AND PAY ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK CUT AND PATCH EXISTING CONSTRUCTION WORK REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL MATCH ALL SURROUNDING WORK.

AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEAN UP RESULTANT DEBRIS FROM THIS WORK AND REMOVE FROM SITE, CONDITIONS MUST BE "BROOM-CLEAN".

FURNISH AND INSTALL LIGHTING FIXTURES AS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL DRAWINGS FORMARIA DRAWINGS TAKE PRECEDENCE FOR FIXTURE LOCATION. ELECTRICAL DRAWINGS TAKE
ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR FIXTURE LOCATION. ELECTRICAL DRAWINGS TAKE
PRECEDENCE FOR FIXTURE TYPE AND VOLTAGE. COORDINATE FIXTURE HOUSINGS AND TRIMS WITH CEILING
TYPE. PROVIDE REQUIRED ACCESSORIES FOR CEILING TYPES.

FIXTURES WITH EMERGENCY BATTERY PACK SHALL BE SIMILAR TO BODINE #B50. COORDINATE WITH FIXTURE MANUFACTURER FOR BATTERY PACK MOUNTING, PROVIDE UNSWITCHED SOURCE OF POWER TO EMERGENCY BALL AST OF SWITCHARD EMERGENCY LIGHTS

ALL FLUORESCENT BALLASTS SERVING T8 LAMPS SHALL BE ELECTRONIC, ADVANCE OR EQUAL. ALL

ALL PANELBOARDS SHALL BE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED AS INDICATED, IN STEEL CABINETS CODE GAUGE, WITH SEEL. TRIM CONCEALED HINGES, DOOR-IN-DOOR AND FLUSH TYPE LOCKS, ALL KEYED ALIKE, MANUFACTURED BY SOUARE D, CUTLER HAMMER, OR GENERAL ELECTRIC.

ALL BUSSES, INCLUDING NEUTRAL AND GROUND BUS, SHALL BE MINIMUM 96% CONDUCTIVITY, HARD DRAWN COPPER, SILVER OR TIM-PLATED JOINTS AND SIZED ON THE BASIS OF 100 AMPERES PER INCH CROSS-SECTIONAL AREA. BUSSES SHALL BE ARRANGED FOR SEQUENCING PHASING.

PANELBOARDS SHALL BE EQUIPPED WITH BOLT-ON MOLDED CASE CIRCUIT BREAKERS OF THE TYPE, NUMBER OF POLES. TRIP SIZES, AS SHOWN IN DRAWINGS AND INTERRUPTING CAPACITY AS PER BUILDING REQUIREMENTS. CABNETS SHALL BE OF SUFFICIENT SIZE TO ALLOW A GUTTER SPACE OF AT LEAST 6" ON SIDES, TOP AND ROTTOM

BACK BOXES SHALL BE CONSTRUCTED OF CODE GAUGE SHEET STEEL. GALVANIZED TRIMS SHALL BE PRIMED FOR FINISH PAINTING BY OTHERS

DOORS AND TRIM SHALL EACH BE IN ONE PIECE SO DESIGNATED THAT DOORS WILL OPEN 180 DEGREES. DOORS SHALL BE FASTENED TO TRIMS WITH SEMI-CONCEALED, 5 KNUCKLE STEEL WITH NONFERROUS PINS. TRIMS SHALL BE FASTENED TO BOOK BOXES BY SCREW.

A CIRCUIT DIRECTORY WITH METAL FRAME AND GLASSINE PAGE SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. UPON COMPLETION OF THE PROJECT, THE DIRECTORY SHALL BE TYPEWRITTEN, INDICATING THE SERVICE CONTROLLED BY EACH CIRCUIT FOR NEW AND EXISTING PANELBOARDS.

GROUP ALL CONDUCTORS WITHIN PANEL ENCLOSURE. DO NOT SPLICE CONDUCTORS WITHIN PANEL ENCLOSURE. CLEAN, VACUUM, AND TIGHTEN ALL CONNECTORS AND CONNECTIONS IN EXISTING ELECTRICAL EQUIPMENT REUSED.

DISCONNECT SWITCHES SHALL BE OMOB PUSED OR NON-FUSED (AS NOTED OR REQUIRED) NEMA HEAVY DUTY EXTERNALL YOF DEPARTED WHISE ROY TURNISHED WITH STATEMES COURPIEMED NO. AT ALL OTHER PROPRIS REQUIRED BY CODE. FUSES SHALL BE BUSSMAN OR GOULD CURRENT LIMITING TYPE. MINIMUM 100,000 AVE. CRCUIT BERKER MINIMUM 1,000 ALF COM 1200 SEYSTEM AND MINIMUM 14,000 ALF OR 277400 Y STITEM, UNO.

PROVIDE NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT. NAMEPLATES TO BE ENGRAVED THREE LAYER LAMNATED PLASTIC, WHITE LETTERS ON A BLACK BACKGROUND FOR EQUIPMENT 250 VOLTS AND UNDER, AND WHITE LETTERS ON A BED BACKGROUND FOR EQUIPMENT 0VER 55 NO A BED BACKGROUND FOR EXAMINED BACKGRO

DUPLEX RECEPTACLES FOR WALL AND FLOOR CONVENIENCE OUTLETS SHALL BE 2 POLE, 3 WIRE, GROUNDED, 20 AMPERE, NEMA CONFIGURATION 5-20R. COLOR SHALL BE BASE BUILDING STANDARD.

FLUSH FIRE-RATED POKE THROUGH DEVICE SHALL HAVE A DUPLEX RECEPTACLE RATED FOR 20 AMPERES WITH TWO (2) FLUSH CATEGORY 5e JACKS WITH A 3° CORE HOLE SIZE, AND A SOLID BRASS FACEPLATE.

SINGLE POLE SWITCHES SHALL BE 20 AMPERE BASE BUILDING STANDARD AS APPROVED BY ARCHITECT DEVICE SHALL BE MOUNTED UNDER COMMON COVERPLATE WHERE MULTIPLE DEVICES ARE INDICATED.

TOGGLE SWITCH WITH OVERLOAD PROTECTION AND INDICATOR LIGHT FOR EXHAUST FANS, SIMILAR TO ALLEN BRADLEY CATALOG #600-TAX4 HEATER ELEMENT.

TRANSFORMERS

INDOOR, DRY-TYPE, VENTILATED, CLASS "F" INSULATED, 60 HZ, 115°C RISE, PRIMARY TAPS, FOUR 2-1/2% ABOVE AND 2% BELOW. COPPER OR ALUMINUM WINDINGS. RATED VOLTAGE, CAPACITY AS INDICATED. TRANSFORME SHALL BE SOUARED, CUTTER HAMMER, OR GENERAL ELECTRIC.

RACEWAY

ALL WIRE AND CABLE SHALL BE INSTALLED IN CONDUIT. CONCEAL CONDUIT IN FINISHED AREAS AND PROTECTED IN UNFINISHED AREAS.

ELECTRICAL METALLIC TUBING (EMT) WITH SET SCREW COUPLINGS AND FITTINGS, MAY BE USED IN FINISHED AREAS, EMT CAN ALSO BE USED IN UNFINISHED AREAS WHERE IT IS PROTECTED BY A COLUMN WEB ON JOIST SPACE.

PROVIDE RIGID GALVANIZED STEEL CONDUIT IN AREAS WHERE CONDUIT IS SUSCEPTIBLE TO PHYSICAL DAMAGE. SCHEDULE 40 PVC CONDUIT SHALL BE INSTALLED BELOW GRADE. THE USE OF SCHEDULE 40 PVC ELBOWS AND CONDUIT STUB-UPS ANE NOT PERMITTED. TRANSITION BETWEEN BELOW GRADE PVC TO RIGID GALVANIZED STEEL CONDUIT PRIOR TO STUBJUE JP NTO BULLDING.

CUT CONDUIT END SQUARE, REAM SMOOTH. PAINT MALE THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT TO RACEWAY COUPLINGS.

PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEV SHALLE BY INTIN 3" OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHER RACEWAY SHALLE BY AT LEAST 1" FROM PIPE COVER.

RUN ALL RACEWAYS PARALLEL AND/OR PERPENDICULAR TO BUILDING WALLS

SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS.

CONDUITS ROUTED TO ROOF SHALL BE ROUTED ALONG ME

CONDUCTORS

ALL WIRE AND CABLE SHA

RECESSED LIGHTING FIXTURES IN HUNG CEILING SHALL BE SUPPLIED WITH FLEXIBLE METALLIC CONDUIT, IN LENGTHS NOT EXCEEDING 6 FEET FROM ADJACENT JUNCTION BOXES.

FACTORY COLOR CODING FOR WIRE AND CABLE SHALL BE AS FOLLOWS: 120/208V - BLACK, RED, BLUE, WHITE FOR PHASES A, B, C AND NEUTRAL, RESPECTIVELY. 277/480V - BROWN, ORANGE, YELLOW, WHITE FOR PHASES A, B, C AND NEUTRAL, RESPECTIVELY. PROVIDE GREEN INSULATED GROUNDING CONDUCTORS IN ALL CONDUIT AND RACEWAY SYSTEMS.

LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAY OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH FISH WIRE. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0°C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUIT AS REQUIRED BY CODE.

LIGHTING AND POWER WIRING FOR CIRCUITS LESS THAN 100 FEET SHALL BE #12 AWG, UNO. WIRE SIZES SHALL BE #10 FOR CIRCUITS GREATER THAN 100 FEET. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS IN ONE CONDUIT UNO.

ALL WIRES SHALL BE IDENTIFIED BY CIRCUIT NUMBERS IN ALL CABINETS, BOXES, WIRING TROUGH, OTHER ENCLOSURES, AT ALL SPLICES, TERMINATIONS POINTS, ETC.

OUTLET, JUNCTION AND PULL BOXES

ALL OUTLET BOXES SHALL BE CODE GAUGE. HOT DIPPED GALVANIZED STAMPED STEEL.

OUTLET BOXES FOR RECEPTACLES AND SWITCHES IN DRY WALL PARTITION SHALL BE 4" SOUARE, 1-1/2" MINIMUM DEPTH AND SHALL BE FITTED WITH SOUARE CORNERED DEVICES COVERS AND DEPTH EQUAL TO THE DRY WALL THICKNESS. SECTIONAL BOXES ARE NOT ACCEPTABLE

JUNCTION AND PULL BOXES SHALL NOT BE EXPOSED IN FINISHED SPACE. WHERE NECESSARY, REPOUTE RACEWAY OR MAKE OTHER ARRANGEMENTS FOR CONCENHENT. PROVIDE PULL BOXES AS NIDICATED AND WHITE VIEW NECESSARY TO FACILITATE PULLUNG OF WIRE AND COODIDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS PROVIDE PULL BOXES SEVEN TO FEET AND AS NIDICATED. COORDINATE LOCATIONS WITH OTHER PROVIDE PULL BOXES SEVEN TO FEET AND AS NIDICATED. COORDINATE LOCATIONS WITH OTHER

SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.

LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS INSTALL SWITCH, INSIDE OPPOSITE HINGE. VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.

GROUNDING

GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYIN METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL COUPPENS AND APPLY

PROVIDE INSULATED GROUNDING CONDUCTORS IN ALL CONDUITS. GROUND WIRE TO BE SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122.

SUPPORTS

SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS REQUIRED. DO NOT SUPPORT FROM CEILING HANGERS. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FEET APART. SUPPORT RACEWAY SIERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH

SUPPORT PANEL, JUNCTION, AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAY

ALL ANCHORS, FASTENERS, CLAMPS, ETC., SHALL BE MADE OF STEEL AND SHALL NOT CONTAIN ANY LEAD, WOOD, PLASTIC, ETC.

PROVIDE WATERPROOF SLEEVES, AS APPROVED FOR ROOF, FLOOR, AND WALL PENETRATIONS. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED.

THE FOAM SEALANT SHALL MEET ALL OF THE FIRE TEST AND HOSE STREAM TEST REQUIREMENTS OF ASTM E-119-73 AND SHALL BE U.L. CLASSIFIED AS A WALL OPENING PROTECTIVE DEVICE.

TELEPHONE, SIGNAL, DATA AND COMMUNICATION SYSTEM

PROVIDE ALL OUTLETS AS SHOWN ON PLANS. WALL OUTLETS SHALL BE 4" SQUARE BOX.

MINIMUM CONDUIT SIZE IS 3/4°C, UNO, PROVIDE CONDUIT FROM TELE/DATA OUTLET BOX TO ACCESSIBLE CELLING LOCATION WITH A MINIMUM OF 6° STUBBED OUT AND TERMINATE WITH INSULATED THROAT CONNECTOR, PROVIDE TIED OF PULL WIRE.

HVAC CONTROLS

MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING INCLUDING CONDUITS, RELAYS, TIME CLOCK, CONTROL TRANSFORMERS, ETC., FOR ALL HVAC EQUIPMENT, UNLESS SPECIFIED OF THE PRINCIPLE OF T

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONLY POWER WIRING WITH DISCONNECTS, AS SHOWN IN ELECTRICAL DRAWINGS.

CONNECTION TO EXISTING WORK

PLAN INSTALLATION ON NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFACE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER.

CONNECT NEW WORK TO EXISTING IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY BUILDING OWNER.

DISCONNECT, REMOVE, OR RELOCATE ELECTRICAL MATERIALS AND EQUIPMENT AS NOTED AND AS REQUIRED BY CHANGES IN CONSTRUCTION. ALL RACEWAYS TO BE ABANDONED SHALL DISCONNECT WIRING AT LOAD (EQUIPMENT) AND AT LINE SIDE, CUT AND CAP, FLUSH TO SURFACE. DISPOSE OF ALL MATERIAL AND EQUIPMENT AS DIRECTED.

MANITAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AFFECTED BY THIS WORK. ALL REQUIRED WORK FOR TE IN TO THE EXISTING EQUIPMENT SHALL BE ACCOMPLISHED AFTER HOURS, THE EXACT DAY WHO TIME SHALL BE DIRECTED BY OWNER, AND AT NO ADDITIONAL CHARGE. ALARM AND EMERGENCY SYSTEM SHALL NOT BE INTERRUPTED.

REMOVE ABANDONED CONDUCTORS FROM EXISTING RACEWAYS. CLEAN RACEWAY AS REQUIRED PRI TO REWIRING.

TEMPORARY SHUTDOWNS WHEN REQUIRED TO BE MADE ONLY WITH WRITTEN CO. TIMES NOT TO INTERFERE WITH NORMAL OPERATION AND AT NO ADDITIONAL CHA

TEST AND GUARANTEES

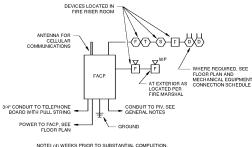
UPON COMPLETION OF ELECTRICAL WORK, TEST FOR GROUNDS AND SHO
OPERATION OF ELECTRICAL EQUIPMENT. REPAIR OR REPLACE FAULTY EC
COST TO THE OWNER.

FIRE ALARM SYSTEM

EQUIPMENT (PANELBOARDS, DISCONNECTS, TRANSFORMERS, ETC) CHES, RECEPTACLES, DIMMERS, FACEPLATES, ETC)

SUBMITTAL NOTE TO GC AND SUB-CONTRACTORS :

RDINATE ALL MECHANICAL, ELECTRICAL, FIRE ALARM, SPRINKLER AND PLUMBIN EQUIPMENT SUBMITTALS WITH ESSENTIAL PARTIES INCLUDING BUT NOT LIMITE ECTRICAL, MECHANICAL, PLUMBING, FIRE ALARM, SPRINKLER, AND MILLWORK TOOS PERIOD OSENDIALS SUBMITTALS EQUI ADDROLLALL ALECTED DISCIPLE. COUNTRAIN CONTROL SHIP THE SOMETHER AND MELETONIC SECURITION OF SHIP THE SOMETHER AND MELETONIC SECURITION OF SHIP THE SOMETHER AND SHIP THE SHIP THE SOMETHER AND SHIP THE SH

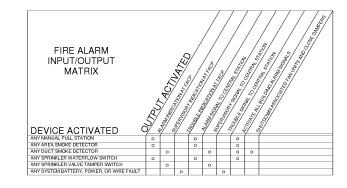


DETAIL - STANDARD FIRE ALARM RISER



ABBREVIATIONS: FACP FIRE ALARM CONTROL PANEL
FTR FUTURE
GFCI GROUND FAULT CIRCUIT INTERRUPTER
KFC KITCHEN EXHAUST FAN
KFCC KITCHEN FAN CONTROL CENTER ABOVE ACCESSIBLE CEILING ABOVE COUNTER TOP ABOVE FINISHED FLOOR KITCHEN FAN CONTROL CENTER
LOW VOLTAGE
MOTOR RAYED SWITCH
NOBIT LIGHT, UNSWITCHED, "ON" 24.7
POINT OF SALE
ROOF TOP UNIT SERVICE ENTRANCE RATED
UNIT HEATER
RECEPTAGE WITH HUBBEL USB15X2W
WATER HEATER EXHAUST FAN EMERGENCY

TRANSFORMER - VOLTAGE/PHASE/KVA AS INDICATED OR SCHEDULED





CONSULTANT...





DESCRIPTION PERMIT SUBMITTAL

ISSUE & REVISION RECORD

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PROJECT.

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PHILLIPS JOB NUMBER 192540 ISSUE DATE -DRAWN BY/CHECKED BY MTC / SWI

DRAWING TITLE -LEGENDS AND SPECIFICATIONS -ELECTRICAL

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